

COMMERCIAL STRUCTURES SAMPLE DRAWINGS

TABLE OF CONTENTS

01 Footing

13 Columns

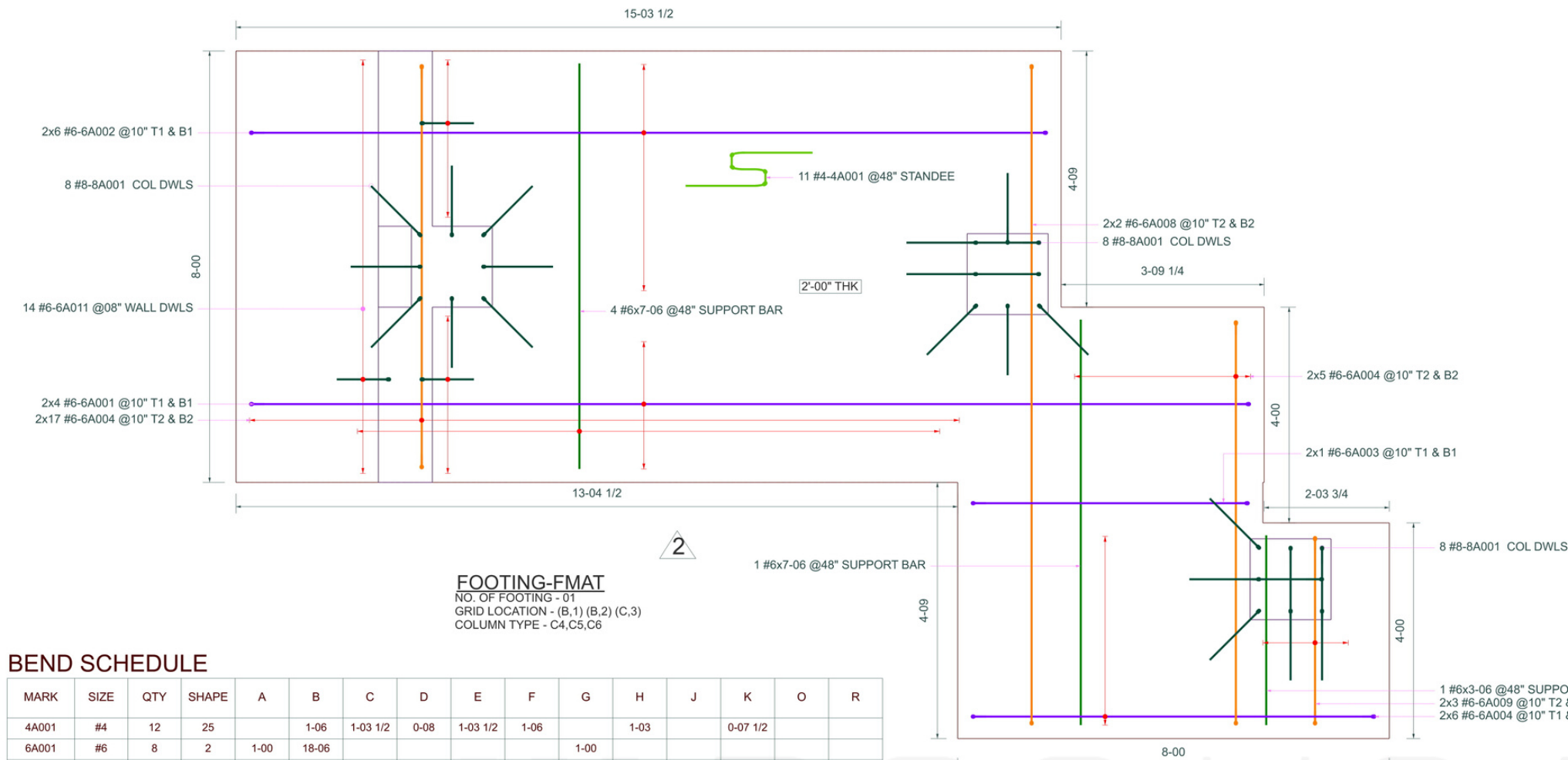
02 Pile Cap

15 Pier Cage

03 Elevator Pit & Mat
Foundation

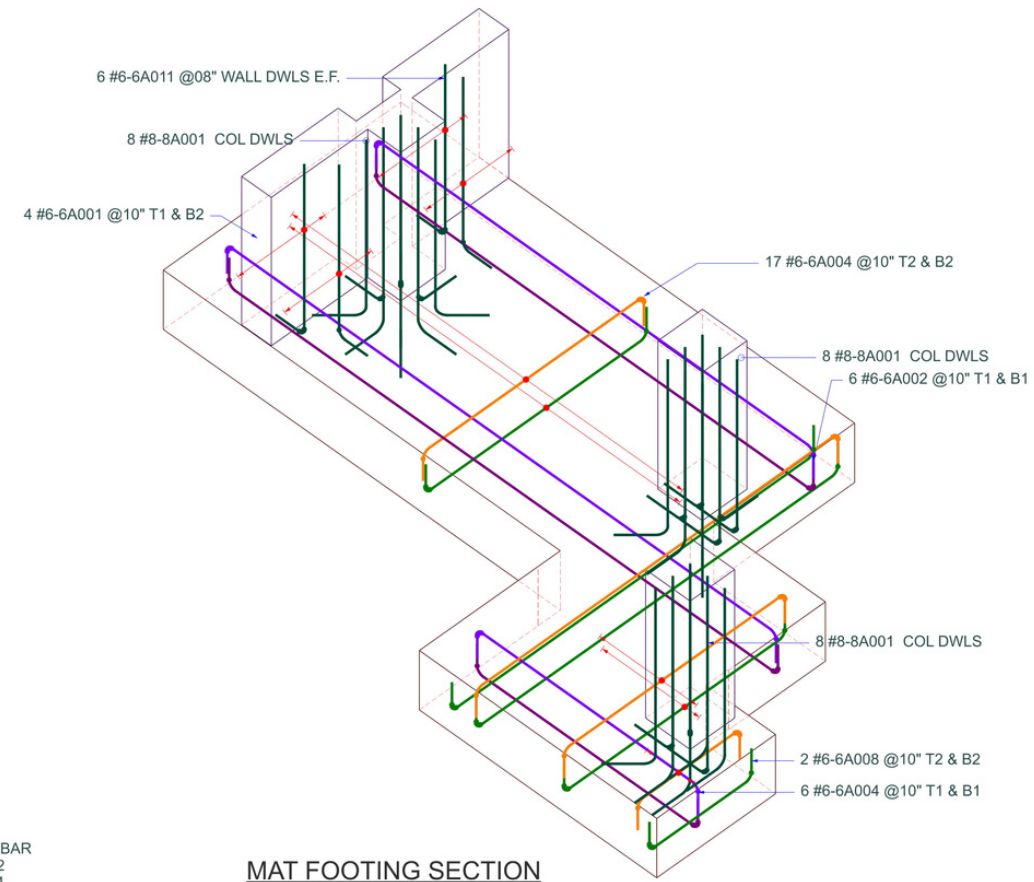
06 Foundation Walls

11 Shear Wall



BEND SCHEDULE

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
4A001	#4	12	25		1-06	1-03 1/2	0-08	1-03 1/2	1-06		1-03		0-07 1/2		
6A001	#6	8	2	1-00	18-06					1-00					
6A002	#6	12	2	1-00	14-09					1-00					
6A003	#6	2	2	1-00	5-01 3/4					1-00					
6A004	#6	56	2	1-00	7-06					1-00					
6A005	#6	48	2	1-00	5-06					1-00					
6A008	#6	4	2	1-00	12-03					1-00					
6A009	#6	6	2	1-00	3-06					1-00					
6A011	#6	54	2	1-00	5-09										
8A001	#8	32	2	1-04	5-11										



MAT FOOTING SECTION

GC VERIFY:
MAT PROFILE & REINF.
ARRANGEMENT FOLLOWED.

MINIMUM LD VALUE 48"

LAP SCHEDULE

WALLS (4000 PSI)
TABLE VALUE x1.12

BAR	VERTICAL	HORIZONTAL
#3	15	16
#4	20	20
#5	25	24
#6	30	39
#7	43	49
#8	49	61

LD SCHEDULE

COLUMNS (4000 PSI)
TABLE VALUE x1.12

BAR	LD
#3	15
#4	20
#5	25
#6	30
#7	43
#8	49

COVER DETAILS

1. TOP - 3"
2. BOT & SIDES - 3"

STRUCTURAL REFERENCE:

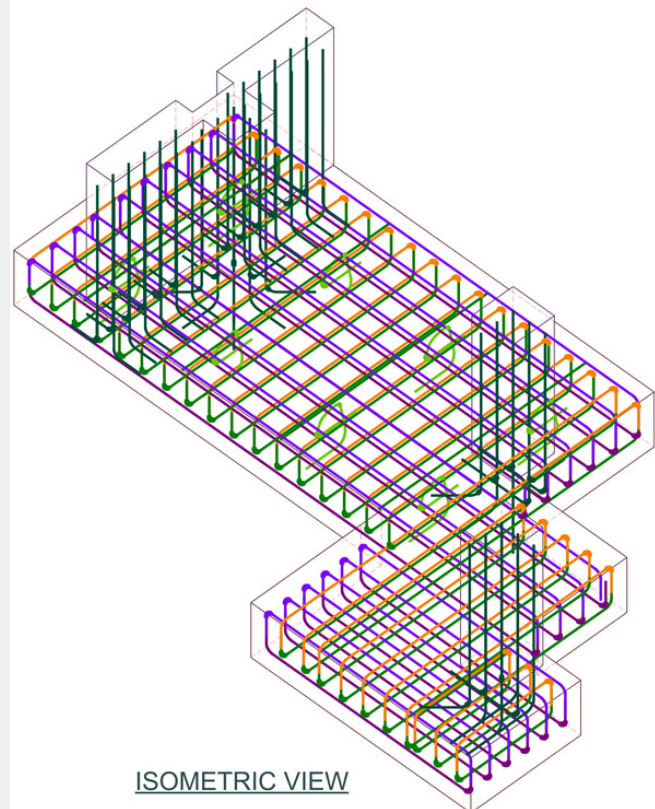
1. SHEETS:- FO-001.00, GN-001.01 & S-203.01
2. DATED ON 12/13/19

REFERENCE:

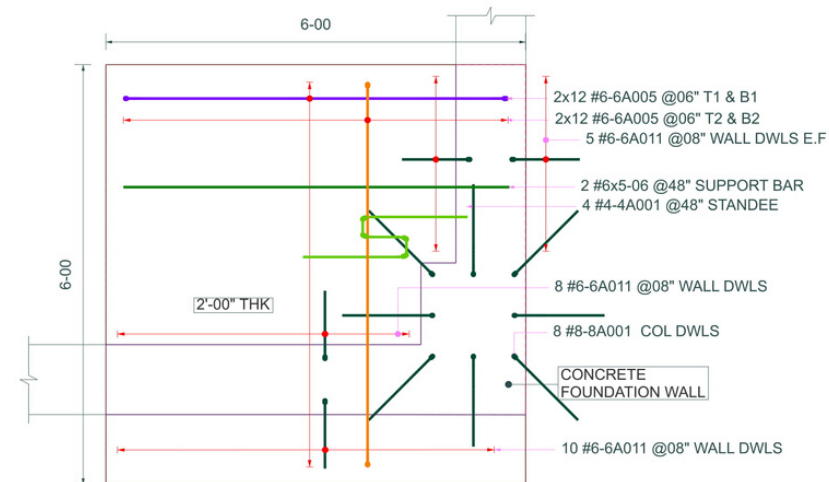
1. FOR FRAMING PLAN REFER - RF-01
2. FOR REINF. ISOLATED FOOTINGS REFER - RF-02 THRU RF-04

LEGEND

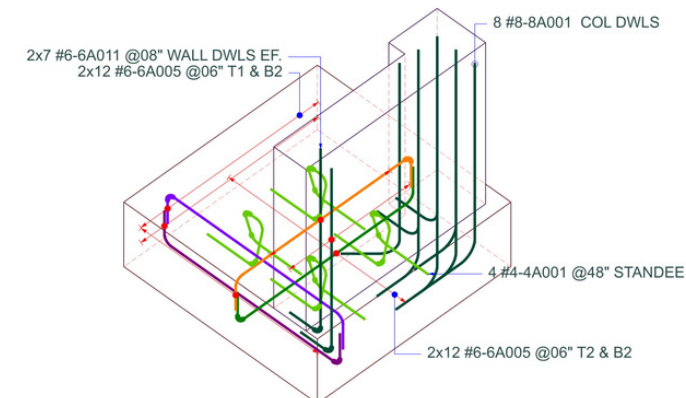
T	TOP
B	BOT
THK	THICKNESS
REINF.	REINFORCEMENT
TYP.	TYPICAL
DWLS	DOWELS
EL.	ELEVATION
V	VERTICAL
EMBD	EMBEDMENT
DWG.	DRAWINGS
IF.	INNER FACE
OF.	OUTER FACE



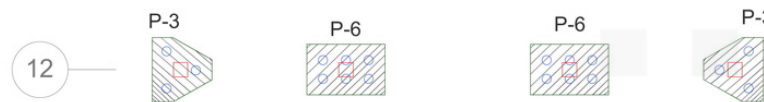
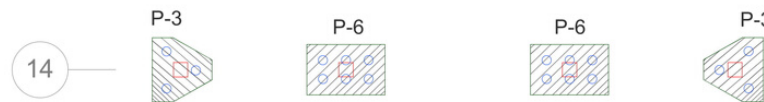
ISOMETRIC VIEW



FOOTING-F66
NO. OF FOOTING - 01
GRID LOCATION - (D,4)
COLUMN TYPE - C3



SECTION OF FOOTING F66



2'-05"

2'-02"

4'-03"

2'-03"

7'-00"

3'-4" THK

2 #9-9B002 B SW
1 #9-9B001 B SW

(-)1-06
T/PC

1

3 #4-4B001 @10" TIES

6 #8-8B001 V DWLS

3 #9-9B001 B LW
2 #9-9B002 B SW
1 #9-9B001 B SW

PILE CAP: P-3

3'-0"

3'-0"

2'-6" THK

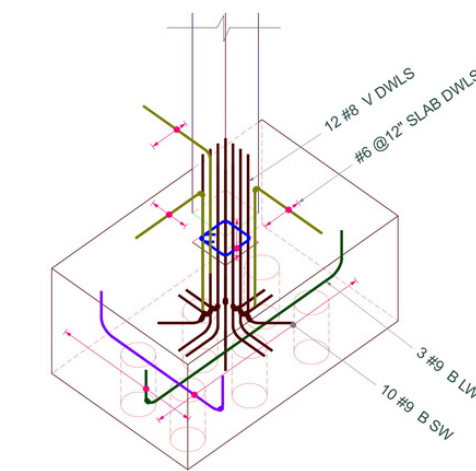
4 #8-8B007 B SW

4 #8-8B007 B SW

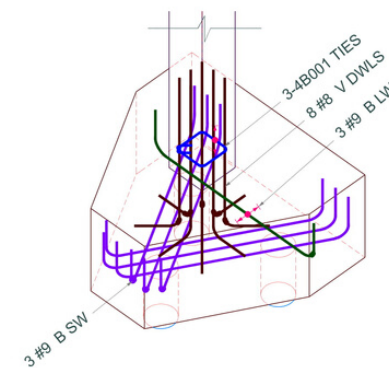
1.06
T/PC

PILE CAP: P-1

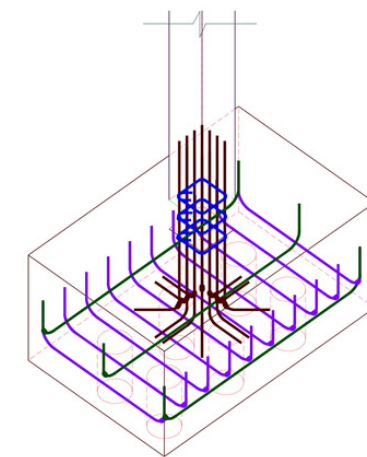
PILE CAP: P-1



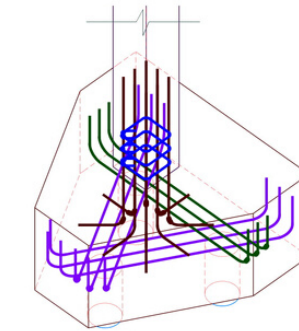
PILE CAP: P-6



PILE CAP: P-3



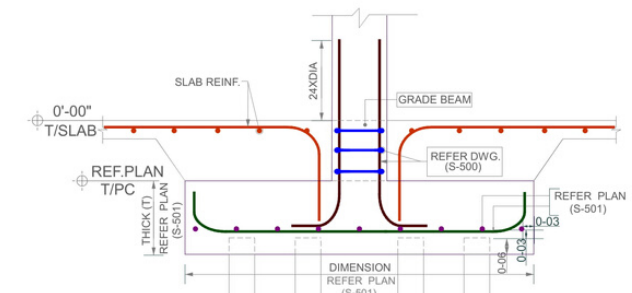
ISOMETRIC VIEW: P-6



ISOMETRIC VIEW: P-3

LEGEND

T	TOP
B	BOTTOM
SW	SHORT WAY
LW	LONG WAY
REINF.	REINFORCEMENT
TYP.	TYPICAL
PC	PIER CAP
V	VERTICAL
DWLS	DOWELS
THK	THICKNESS



TYPICAL PILE CAP DETAILS
REFER DWG: (S-501)

REFER: S-100B (DATED:- 01/16/20)

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
4B001	#4	60	T1	0-05	1-01	1-01	1-01	1-01		0-05					
6B001	#6	66	17		2-09	4-10									
6B003	#6	6	17		2-06	4-10									
8B001	#8	96	2	1-04	6-00										
8B002	#8	96	2	1-04	6-10										
8B007	#8	16	2	1-04	3-00					1-04					
9B001	#9	60	2	1-07	6-06					1-07					
9B002	#9	48	2	1-07	6-11					1-07					
9B004	#9	80	2	1-07	5-00					1-07					
9B005	#9	24	2	1-07	8-00					1-07					



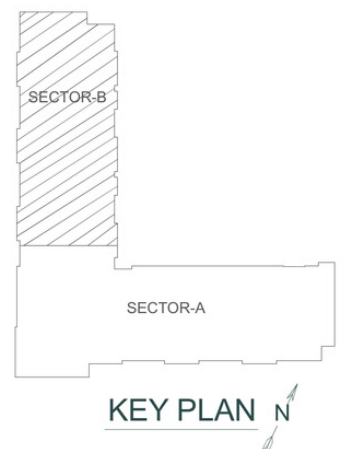
1. FOR COVER VALUE FOLLOWED.(TYP.)
2. PIER CAP DIMENSIONS & LEVELS FOLLOWED.
3. LAP SPLICE & LOCATION FOLLOWED.
4. ALL TIES FOLLOWED A-615 / 60 GRADE.

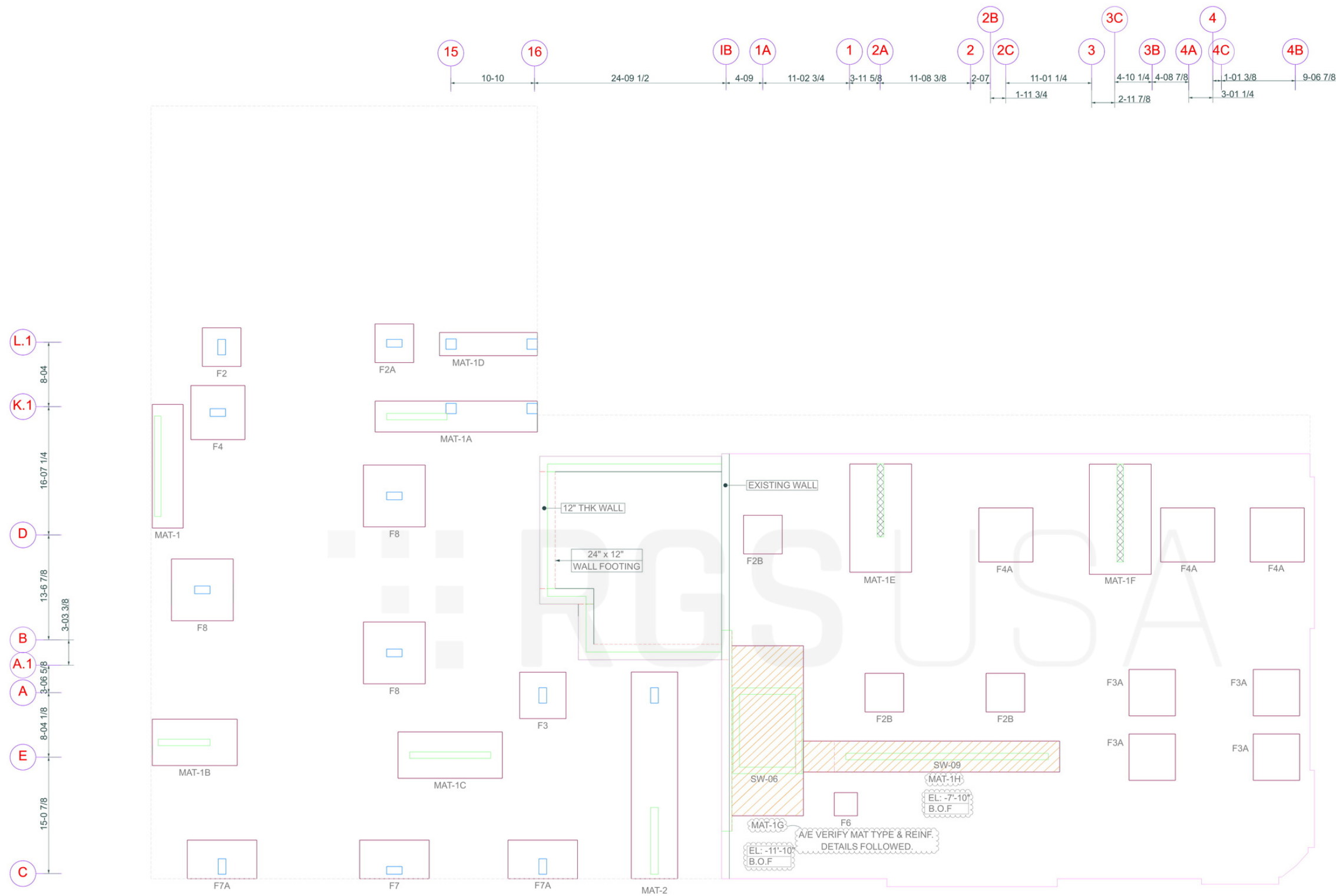
PILE CAP:

1. TOP - 2"
2. SIDE - 3"
3. BOTTOM - 9"

COLUMN:
1. FACE- 1 1/2"

S-100B, S201, S-500, S-501, S-502 (08/03/18).





NORTH 5TH STREET - MAT FOUNDATION & ELEVATOR MAT FRAMING PLAN

A/E VERIFY BOTTOM OF FOOTING
ELEVATION LEVEL FOLLOWED.

COVER DETAILS:
FOR FOOTING:
TOP - 2"
SIDE - 3"
BOTTOM - 3"

A/E VERIFY COVER
VALUE FOLLOWED

COVER DETAILS:
FOR WALLS:
SIDES - 1 1/2"

COVER DETAILS:
FOR SHEARWALLS:
SIDES - 2"

LAP TABLE:
FOR FOOTING & WALL:
TENSION LAP - 4000PSI

BAR SIZE	BOTTOM	TOP
#4	25	32
#5	31	40
#6	46	60
#7	54	70
#8	62	80
#9	70	91
#10	79	102
#11	109	142

LAP TABLE:
FOR MASONRY WALL:

BAR SIZE	LAP VALUE
#4	24
#5	30
#6	36
#7	42
#8	48
#9	54
#10	61
#11	68

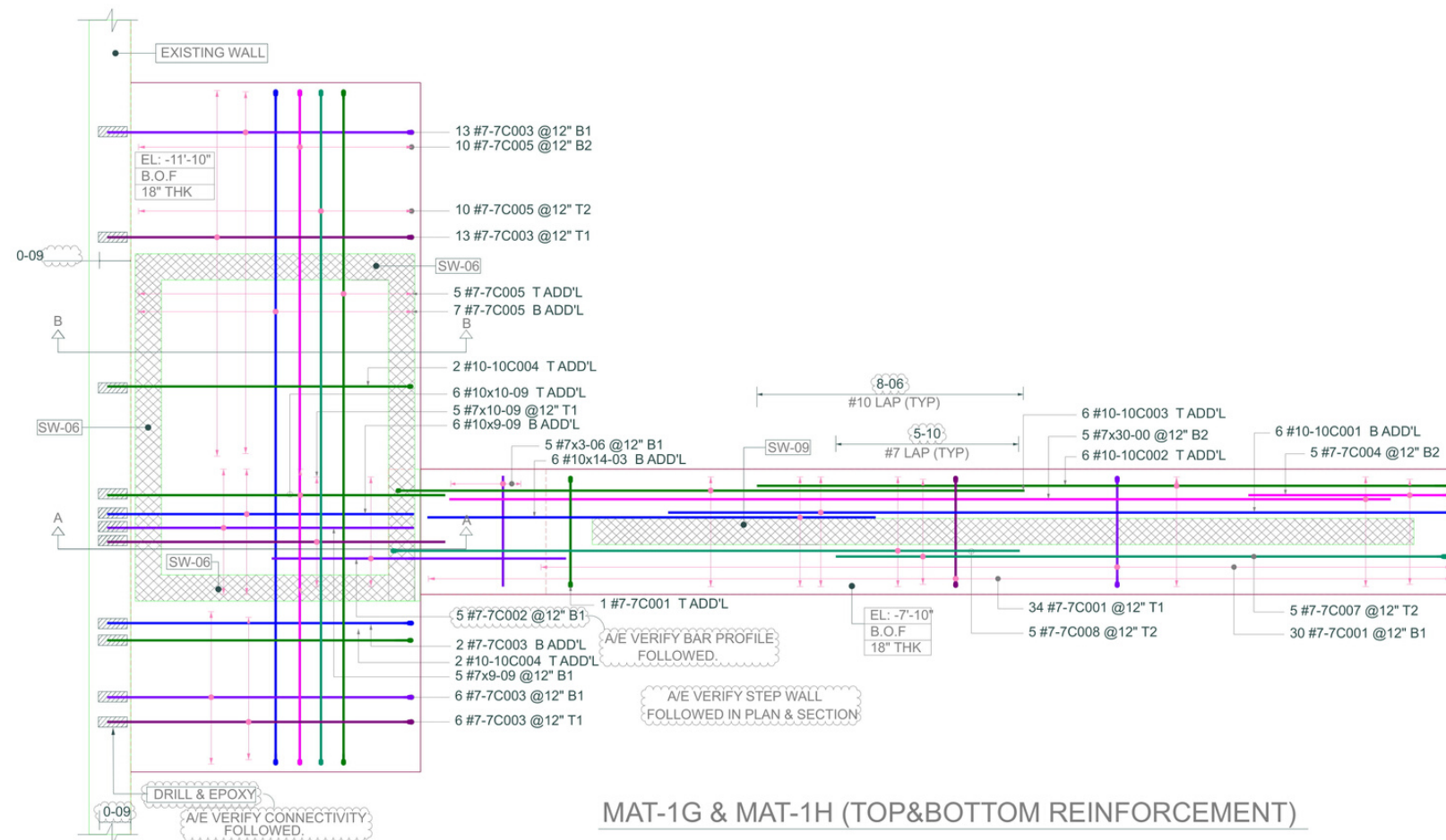
- A/E VERIFY:
1. VERIFY HOOK VALUE FOLLOWED.
 2. VERIFY COVER VALUE FOLLOWED.
 3. VERIFY ELEVATION LEVEL FOLLOWED.
 4. VERIFY LAP LENGTH FOLLOWED.
 5. VERIFY SHEARWALL LENGTH FOLLOWED.
 6. VERIFY STANDEE AND SUPPORT BAR DETAILS FOLLOWED.
 7. VERIFY SECTION DETAILS & REINF. FOLLOWED.
 8. STEP WALL LENGTH & REINF. FOLLOWED.
 9. ADDITIONAL BAR VALUE FOLLOWED.
 10. VERIFY ELEVATOR SHEAR WALL PROFILE.

STRUCTURAL REFERENCE

S.002, FO-101.00, FO-201.00, FO-202.00, S.203.00, S-302.00

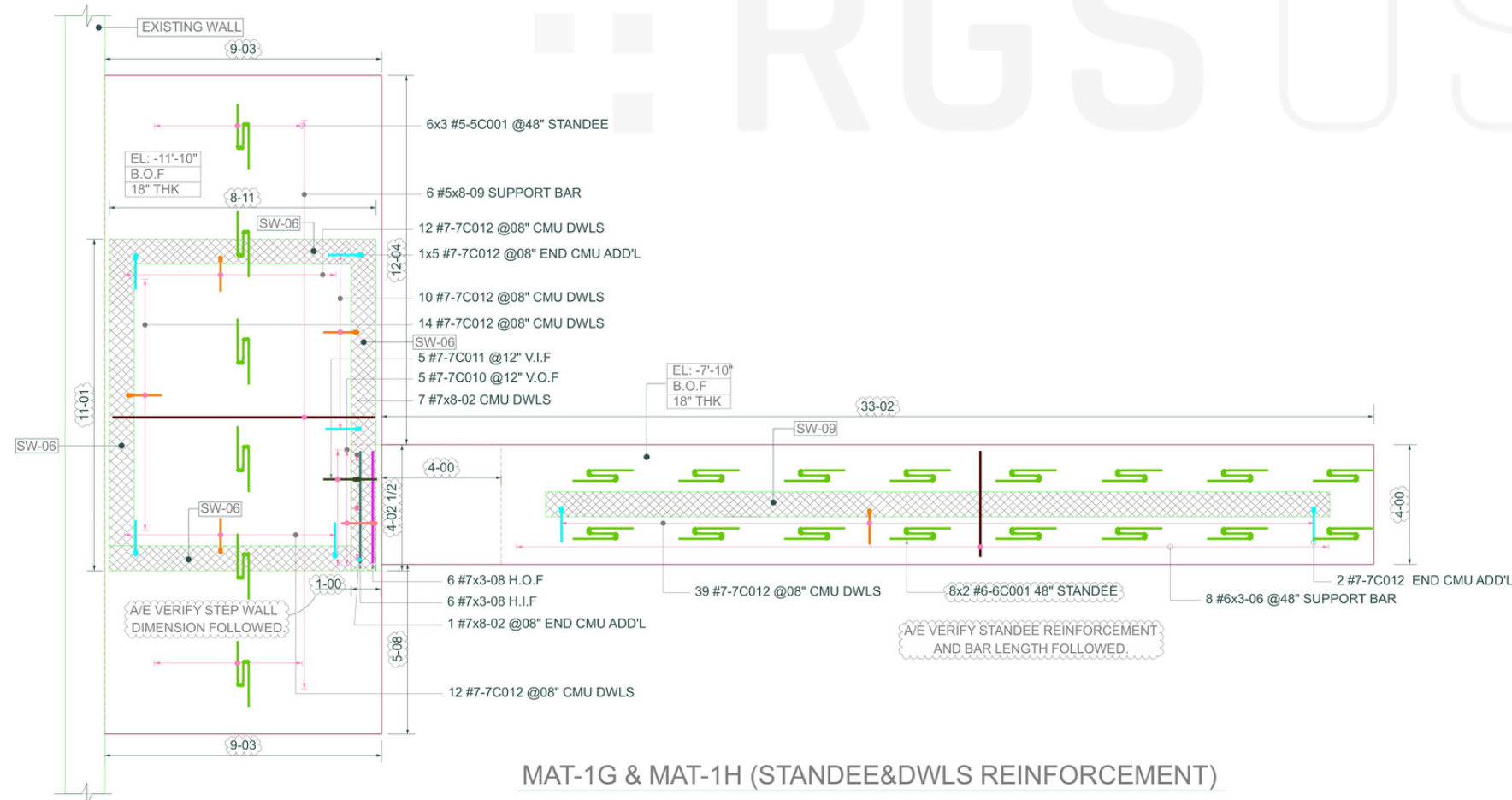
REFERENCE

1. FOR MAT FOUNDATION & ELEVATOR MAT FRAMING PLAN REFER TO DWG: RF-16
2. FOR MAT FOUNDATION & ELEVATOR MAT REINF. DETAILS & ISOMETRIC VIEW & BBS REFER TO DWG: RF-17 THRU RF-18



MAT-1G & MAT-1H (TOP&BOTTOM REINFORCEMENT)

PLAN - Level Lvl0 (0-00)



MAT-1G & MAT-1H (STANDEE&DWLS REINFORCEMENT)

COVER DETAILS:

FOR FOOTING:
TOP - 2"
SIDE - 3"
BOTTOM - 3"

A/E VERIFY COVER
VALUE FOLLOWED

COVER DETAILS:

FOR WALLS:
SIDES - 1 1/2"

COVER DETAILS:

FOR SHEARWALLS:
SIDES - 2"

LAP TABLE:

FOR FOOTING & WALL:
TENSION LAP - 4000PSI

BAR SIZE	BOTTOM	TOP
#4	25	32
#5	31	40
#6	46	60
#7	54	70
#8	62	80
#9	70	91
#10	79	102
#11	109	142

LAP TABLE:

FOR MASONRY WALL:

BAR SIZE	LAP VALUE
#4	24
#5	30
#6	36
#7	42
#8	48
#9	54
#10	61
#11	68

A/E VERIFY:

1. VERIFY HOOK VALUE FOLLOWED.
2. VERIFY COVER VALUE FOLLOWED.
3. VERIFY ELEVATION LEVEL FOLLOWED.
4. VERIFY LAP LENGTH FOLLOWED.
5. VERIFY SHEARWALL LENGTH FOLLOWED.
6. VERIFY STANDEE AND SUPPORT BAR DETAILS FOLLOWED.
7. VERIFY SECTION DETAILS & REINF. FOLLOWED.
8. STEP WALL LENGTH & REINF. FOLLOWED.
9. ADDITIONAL BAR VALUE FOLLOWED.
10. VERIFY ELEVATOR SHEAR WALL PROFILE.

STRUCTURAL REFERENCE

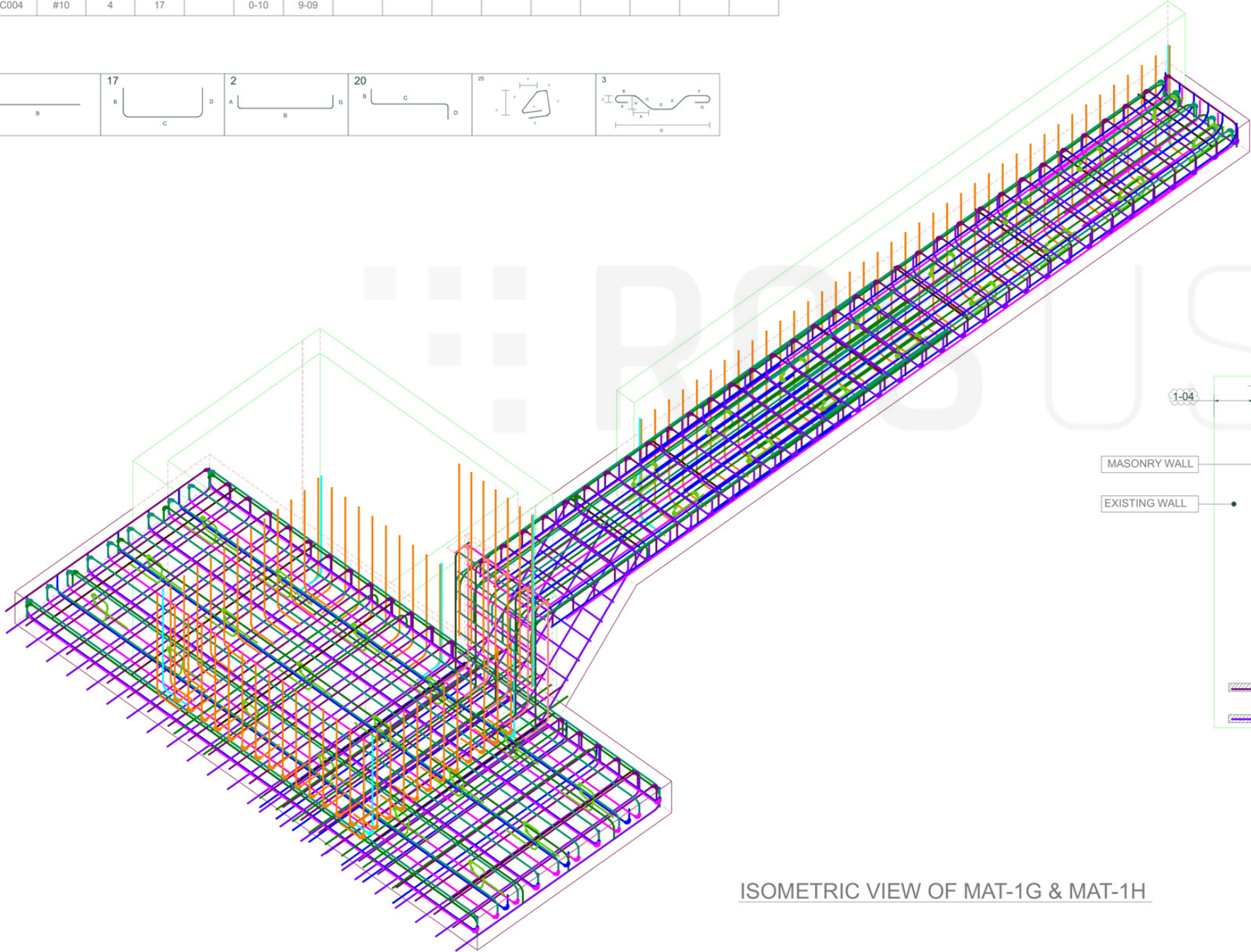
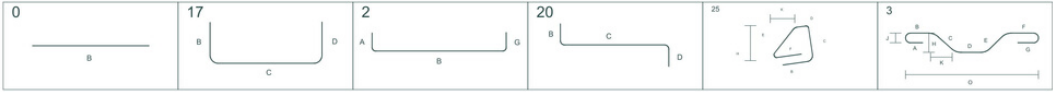
S.002, FO-101.00, FO-201.00, FO-202.00, S.203.00, S-302.00

REFERENCE

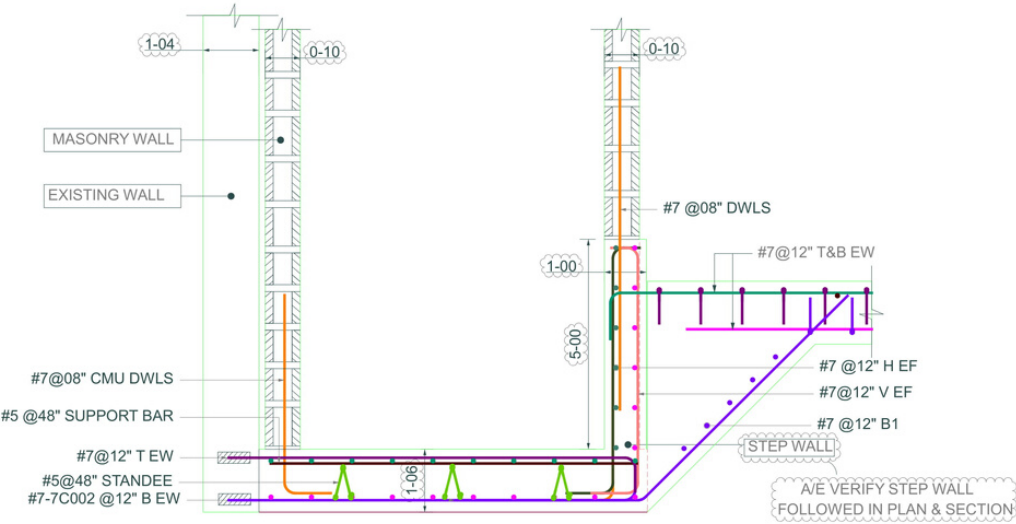
1. FOR MAT FOUNDATION & ELEVATOR MAT FRAMING PLAN REFER TO DWG: RF-16
2. FOR MAT FOUNDATION & ELEVATOR MAT REINF. DETAILS & ISOMETRIC VIEW & BBS REFER TO DWG: RF-17 THRU RF-18

BEND SCHEDULE

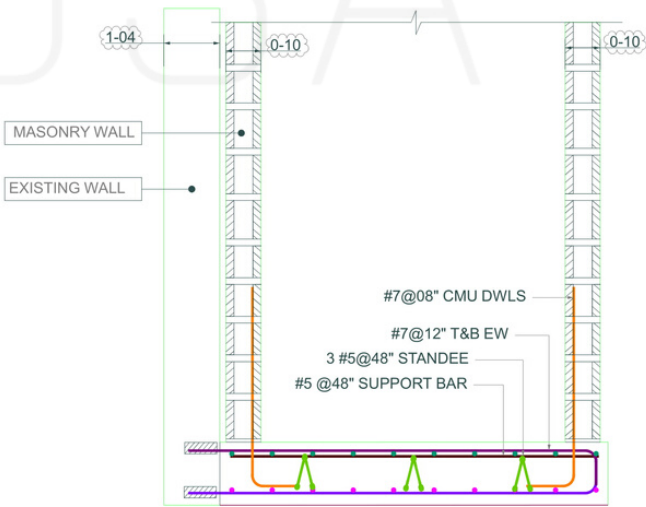
MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
5C001	#5	18	25		1-06	0-10 1/2	0-10	0-10 1/2	1-06		0-09 1/2		0-04 3/4		
6C001	#6	16	25		1-06	0-10 1/2	1-00	0-10 1/2	1-06		0-09 1/4		0-04 3/4		
7C001	#7	65	17		0-10	3-06	0-10								
7C002	#7	5	3		6-11	4-06					3-03		3-02	10-01	
7C003	#7	40	17		0-10	9-09									
7C004	#7	5	17		0-10	6-06									
7C005	#7	32	17		0-10	21-06	0-10								
7C007	#7	5	17		0-10	19-06									
7C008	#7	5	2	1-02	20-00										
7C010	#7	5	17		1-02	5-11	0-08								
7C011	#7	5	20		1-02	5-11	0-08								
7C012	#7	92	2	1-02	4-09										
10C001	#10	6	17		0-10	25-00									
10C002	#10	6	17		0-10	22-02									
10C003	#10	6	2	1-10	20-00										
10C004	#10	4	17		0-10	9-09									



ISOMETRIC VIEW OF MAT-1G & MAT-1H



SECTION-A



SECTION-B

COVER DETAILS:

FOR FOOTING:

TOP - 2"
SIDE - 3"
BOTTOM - 3"

A/E VERIFY COVER VALUE FOLLOWED

COVER DETAILS:

FOR WALLS:

SIDES - 1 1/2"

COVER DETAILS:

FOR SHEARWALLS:

SIDES - 2"

LAP TABLE:

FOR FOOTING & WALL:

TENSION LAP - 4000PSI

BAR SIZE	BOTTOM	TOP
#4	25	32
#5	31	40
#6	46	60
#7	54	70
#8	62	80
#9	70	91
#10	79	102
#11	109	142

LAP TABLE:

FOR MASONRY WALL:

BAR SIZE	LAP VALUE
#4	24
#5	30
#6	36
#7	42
#8	48
#9	54
#10	61
#11	68

- A/E VERIFY:**
1. VERIFY HOOK VALUE FOLLOWED.
 2. VERIFY COVER VALUE FOLLOWED.
 3. VERIFY ELEVATION LEVEL FOLLOWED.
 4. VERIFY LAP LENGTH FOLLOWED.
 5. VERIFY SHEARWALL LENGTH FOLLOWED.
 6. VERIFY STANDEE AND SUPPORT BAR DETAILS FOLLOWED.
 7. VERIFY SECTION DETAILS & REINF. FOLLOWED.
 8. STEP WALL LENGTH & REINF. FOLLOWED.
 9. ADDITIONAL BAR VALUE FOLLOWED.
 10. VERIFY ELEVATOR SHEAR WALL PROFILE.

STRUCTURAL REFERENCE

S.002, FO-101.00, FO-201.00, FO-202.00, S.203.00, S-302.00

REFERENCE

1. FOR MAT FOUNDATION & ELEVATOR MAT FRAMING PLAN REFER TO DWG: RF-16
2. FOR MAT FOUNDATION & ELEVATOR MAT REINF. DETAILS & ISOMETRIC VIEW & BBS REFER TO DWG: RF-17 THRU RF-18



**SUB-CELLAR THRU 1ST FLOOR FOUNDATION WALL
FRAMING PLAN**

A/E VERFIY:
 1. WALL REINFORCEMENT FOLLOWED(TYP.).
 2. CORNER ARRANGEMENT FOLLOWED.
 3. SLAB ELEVATION LEVEL FOLLOWED.
 4. WALL THICKNESS & LENGTH FOLLOWED.

REFERENCE
 1. FOR FOUNDATION - WALL FRAMING PLAN
 REFER TO DWG: RW-01
 2. FOR WALL REINF. DETAILS & BBS
 REFER TO DWG: RW-02 THRU RW-05

LAP TABLE:
 FOR WALLS:
 TENSION- 4000PSI

BAR SIZE	TYP.	TOP
#3	18"	24"
#4	25"	32"
#5	31"	40"
#6	46"	60"
#7	54"	70"
#8	62"	80"
#9	70"	91"
#10	79"	102"
#11	109"	142"

DEVELOPMENT LENGTH:
 FOR WALLS:
 TENSION LAP - 4000PSI

BAR SIZE	TYP.	TOP
#3	14"	18"
#4	19"	25"
#5	24"	31"
#6	36"	47"
#7	42"	54"
#8	48"	62"
#9	54"	70"
#10	61"	79"
#11	84"	109"

LEGEND

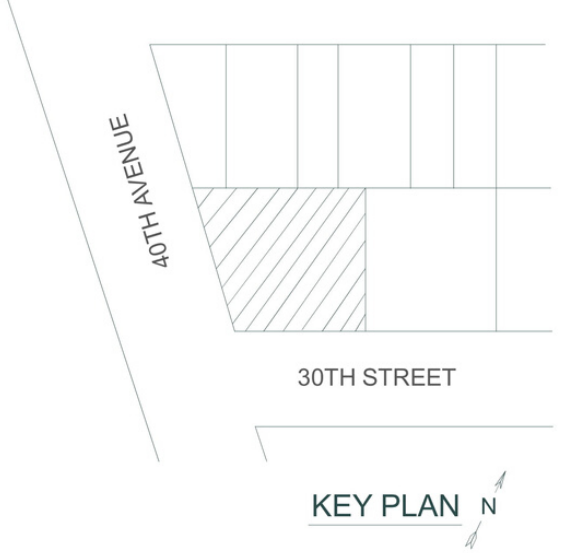
THK	THICKNESS
REINF.	REINFORCEMENT
TYP.	TYPICAL
EF	EACH FACE
T.O.S	TOP OF SLAB
DWG.	DRAWING
T.O.MAT	TOP OF MAT
H IF	HORIZONTAL INNER FACE
H OF	HORIZONTAL OUTER FACE
V IF	VERTICAL INNER FACE
V OF	VERTICAL OUTER FACE

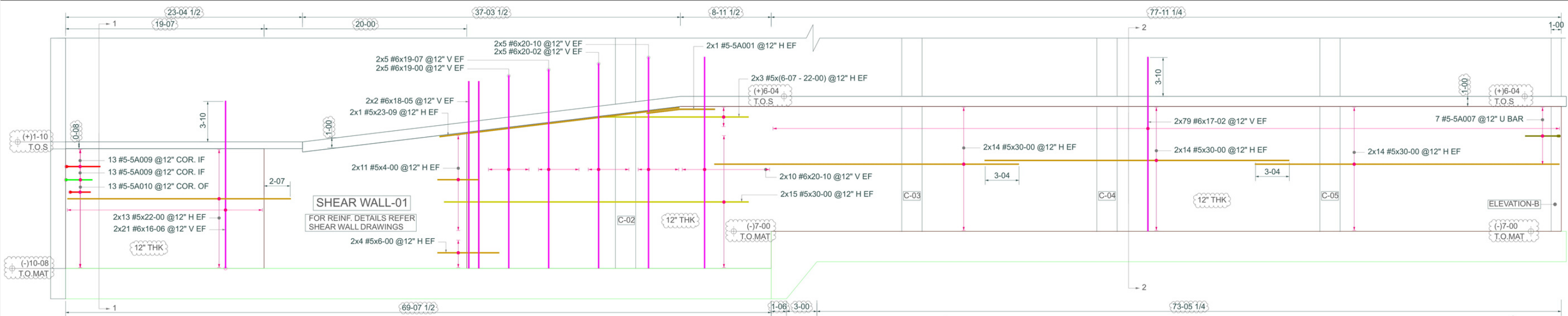
A/E VERIFY COVER VALUE FOLLOWED.

COVER DETAILS:
 FOR WALL:
 EXTERIOR - 2"
 INTERIOR - 1"

STRUCTURAL REFERENCE
 S-001, FO-101.00, S-101.00, FO-201.00, FO-202.00, S-401.00

ARCHITECTURAL REFERENCE
 A-100.00, A-101.00, A-350.00, A-351.00, A-352.00

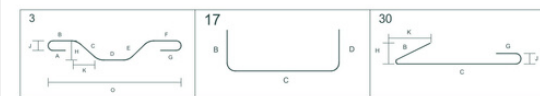




ELEVATION - A
REINFORCEMENT DETAILS OF FOUNDATION WALL
REFER: FO-101.00

BEND SCHEDULE

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
5A001	#5	2	3		3-04	3-04					0-05 1/4		3-03 3/4	6-07 3/4	
5A007	#5	7	17		3-04	0-07 1/2	3-04								
5A009	#5	26	30		2-00	3-04					3-03 3/4		0-06 1/4		
5A010	#5	13	30		2-07	2-07					2-06 3/4		0-04 3/4		



DEVELOPMENT LENGTH:

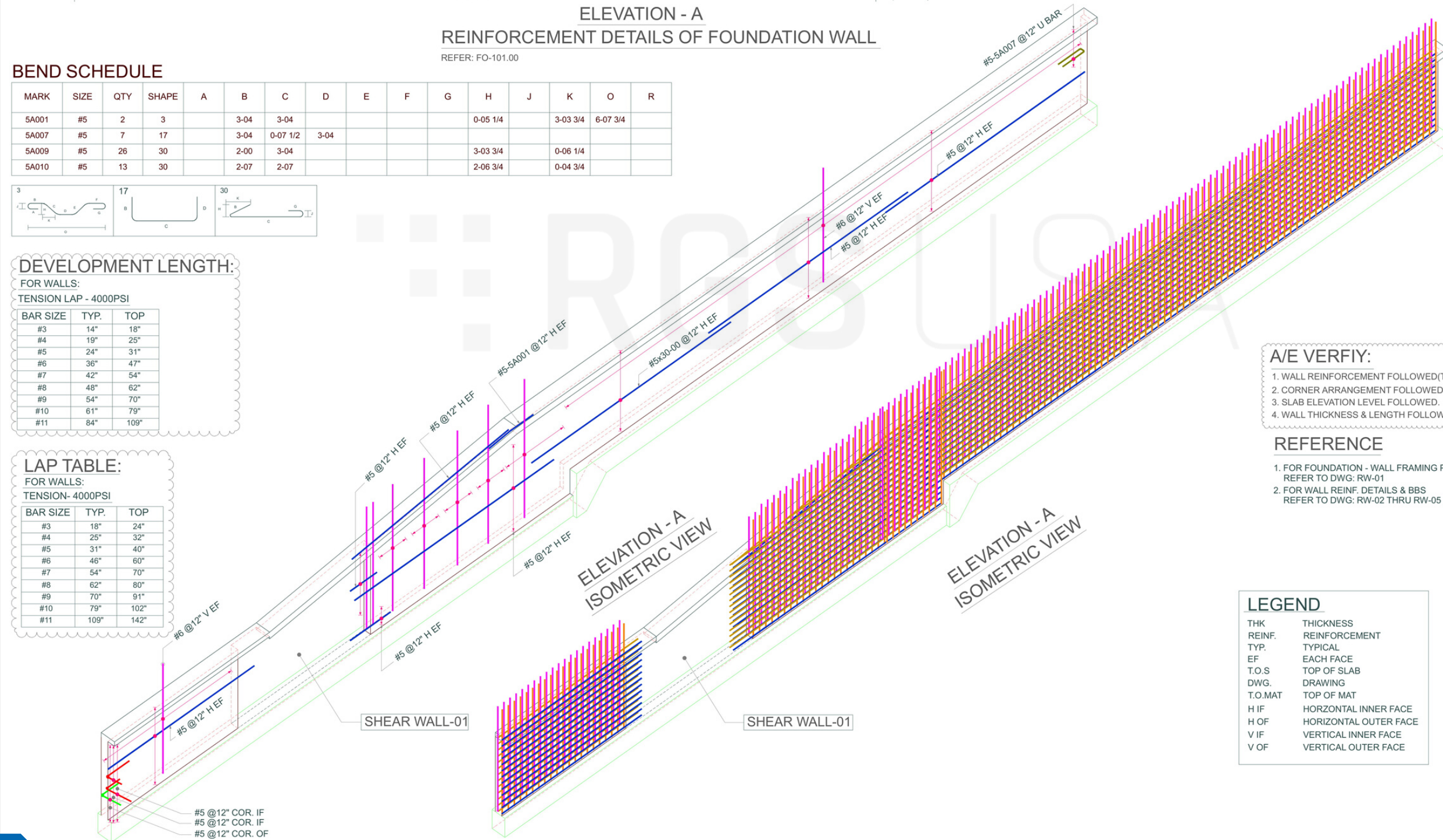
FOR WALLS:
TENSION LAP - 4000PSI

BAR SIZE	TYP.	TOP
#3	14"	18"
#4	19"	25"
#5	24"	31"
#6	36"	47"
#7	42"	54"
#8	48"	62"
#9	54"	70"
#10	61"	79"
#11	84"	109"

LAP TABLE:

FOR WALLS:
TENSION- 4000PSI

BAR SIZE	TYP.	TOP
#3	18"	24"
#4	25"	32"
#5	31"	40"
#6	46"	60"
#7	54"	70"
#8	62"	80"
#9	70"	91"
#10	79"	102"
#11	109"	142"



A/E VERIFY:

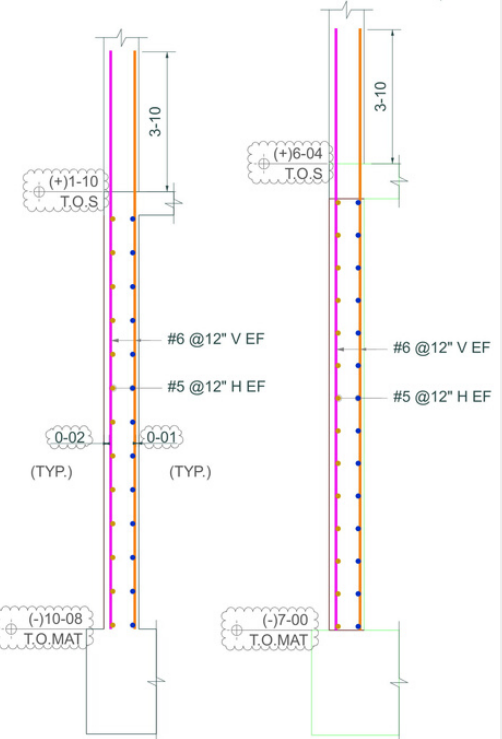
1. WALL REINFORCEMENT FOLLOWED(TYP.).
2. CORNER ARRANGEMENT FOLLOWED.
3. SLAB ELEVATION LEVEL FOLLOWED.
4. WALL THICKNESS & LENGTH FOLLOWED.

REFERENCE

1. FOR FOUNDATION - WALL FRAMING PLAN
REFER TO DWG: RW-01
2. FOR WALL REINF. DETAILS & BBS
REFER TO DWG: RW-02 THRU RW-05

LEGEND

THK	THICKNESS
REIN.	REINFORCEMENT
TYP.	TYPICAL
EF	EACH FACE
T.O.S	TOP OF SLAB
DWG.	DRAWING
T.O.MAT	TOP OF MAT
H IF	HORIZONTAL INNER FACE
H OF	HORIZONTAL OUTER FACE
V IF	VERTICAL INNER FACE
V OF	VERTICAL OUTER FACE



COVER DETAILS:

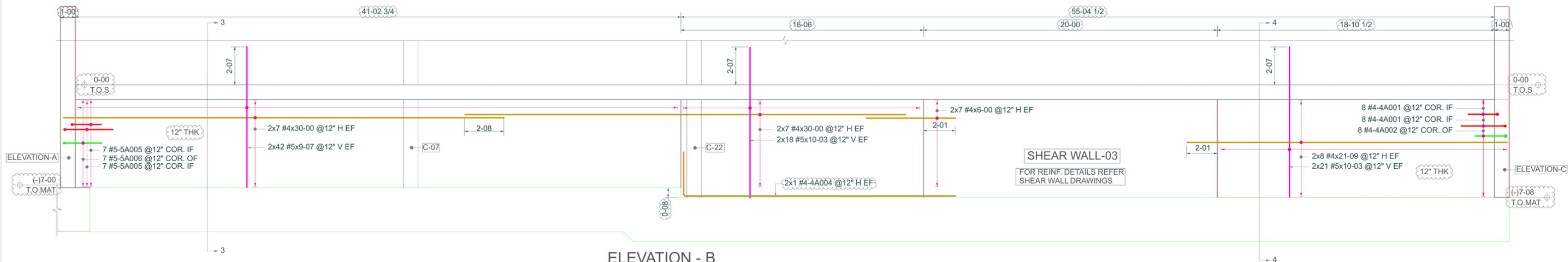
FOR WALL:
EXTERIOR - 2"
INTERIOR - 1"

STRUCTURAL REFERENCE

S-001, FO-101.00, S-101.00, FO-201.00, FO-202.00, S-401.00

ARCHITECTURAL REFERENCE

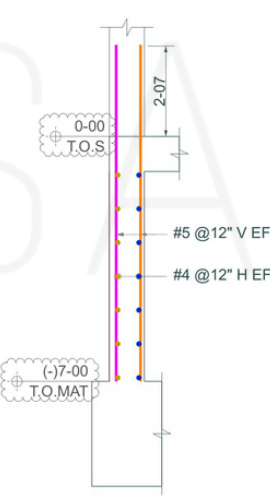
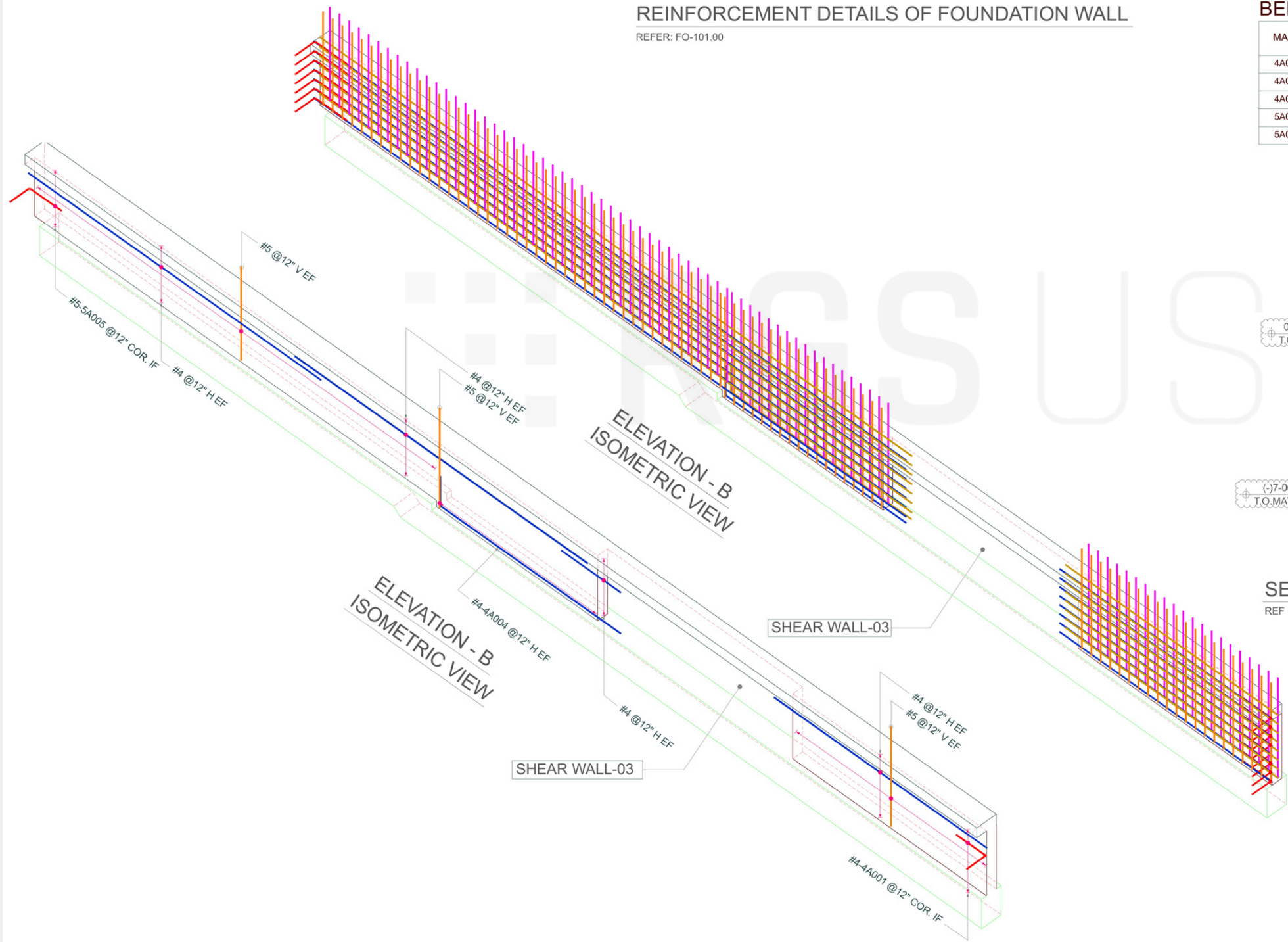
A-100.00, A-101.00, A-350.00, A-351.00, A-352.00



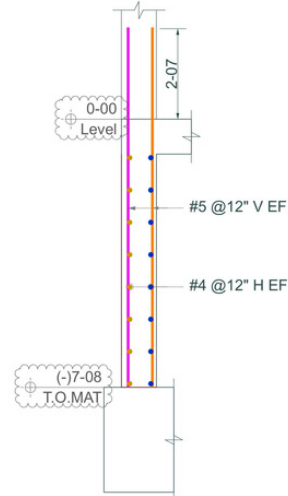
ELEVATION - B
REINFORCEMENT DETAILS OF FOUNDATION WALL
REFER: FO-101.00

BEND SCHEDULE

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
4A001	#4	16	17		2-00	3-00									
4A002	#4	8	17		2-01	2-01									
4A004	#4	2	17		3-00	18-06									
5A005	#5	14	17		2-00	3-04									
5A006	#5	7	17		2-07	2-07									



SECTION - 3
REF: FO-202.00



SECTION - 4
REF: FO-202.00

A/E VERIFY:

1. WALL REINFORCEMENT FOLLOWED(TYP).
2. CORNER ARRANGEMENT FOLLOWED.
3. SLAB ELEVATION LEVEL FOLLOWED.
4. WALL THICKNESS & LENGTH FOLLOWED.

REFERENCE

1. FOR FOUNDATION - WALL FRAMING PLAN
REFER TO DWG: RW-01
2. FOR WALL REINF. DETAILS & BBS
REFER TO DWG: RW-02 THRU RW-05

A/E VERIFY COVER VALUE
FOLLOWED.

COVER DETAILS:

FOR WALL:
EXTERIOR - 2"
INTERIOR - 1"

STRUCTURAL REFERENCE

S-001, FO-101.00, S-101.00, FO-201.00, FO-202.00, S-401.00

ARCHITECTURAL REFERENCE

A-100.00, A-101.00, A-350.00, A-351.00, A-352.00

LEGEND

THK	THICKNESS
REINF.	REINFORCEMENT
TYP.	TYPICAL
EF	EACH FACE
T.O.S	TOP OF SLAB
DWG.	DRAWING
T.O.MAT	TOP OF MAT
H IF	HORIZONTAL INNER FACE
H OF	HORIZONTAL OUTER FACE
V IF	VERTICAL INNER FACE
V OF	VERTICAL OUTER FACE

LAP TABLE:

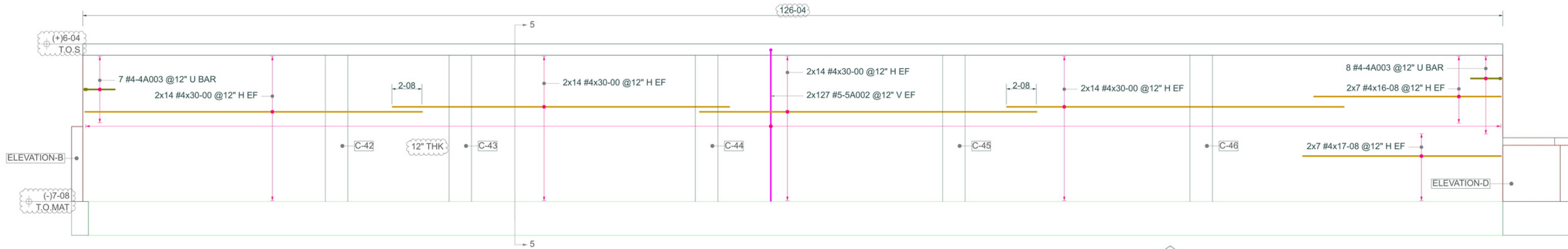
FOR WALLS:
TENSION- 4000PSI

BAR SIZE	TYP.	TOP
#3	18"	24"
#4	25"	32"
#5	31"	40"
#6	46"	60"
#7	54"	70"
#8	62"	80"
#9	70"	91"
#10	79"	102"
#11	109"	142"

DEVELOPMENT LENGTH:

FOR WALLS:
TENSION LAP - 4000PSI

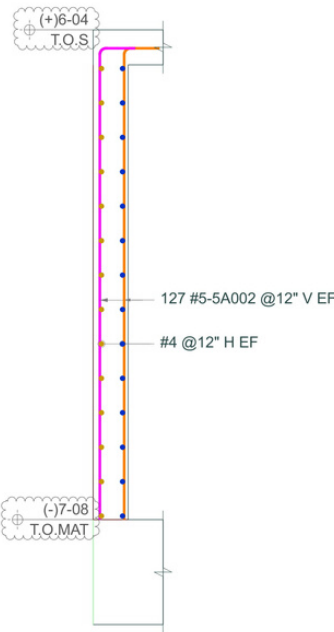
BAR SIZE	TYP.	TOP
#3	14"	18"
#4	19"	25"
#5	24"	31"
#6	36"	47"
#7	42"	54"
#8	48"	62"
#9	54"	70"
#10	61"	79"
#11	84"	109"



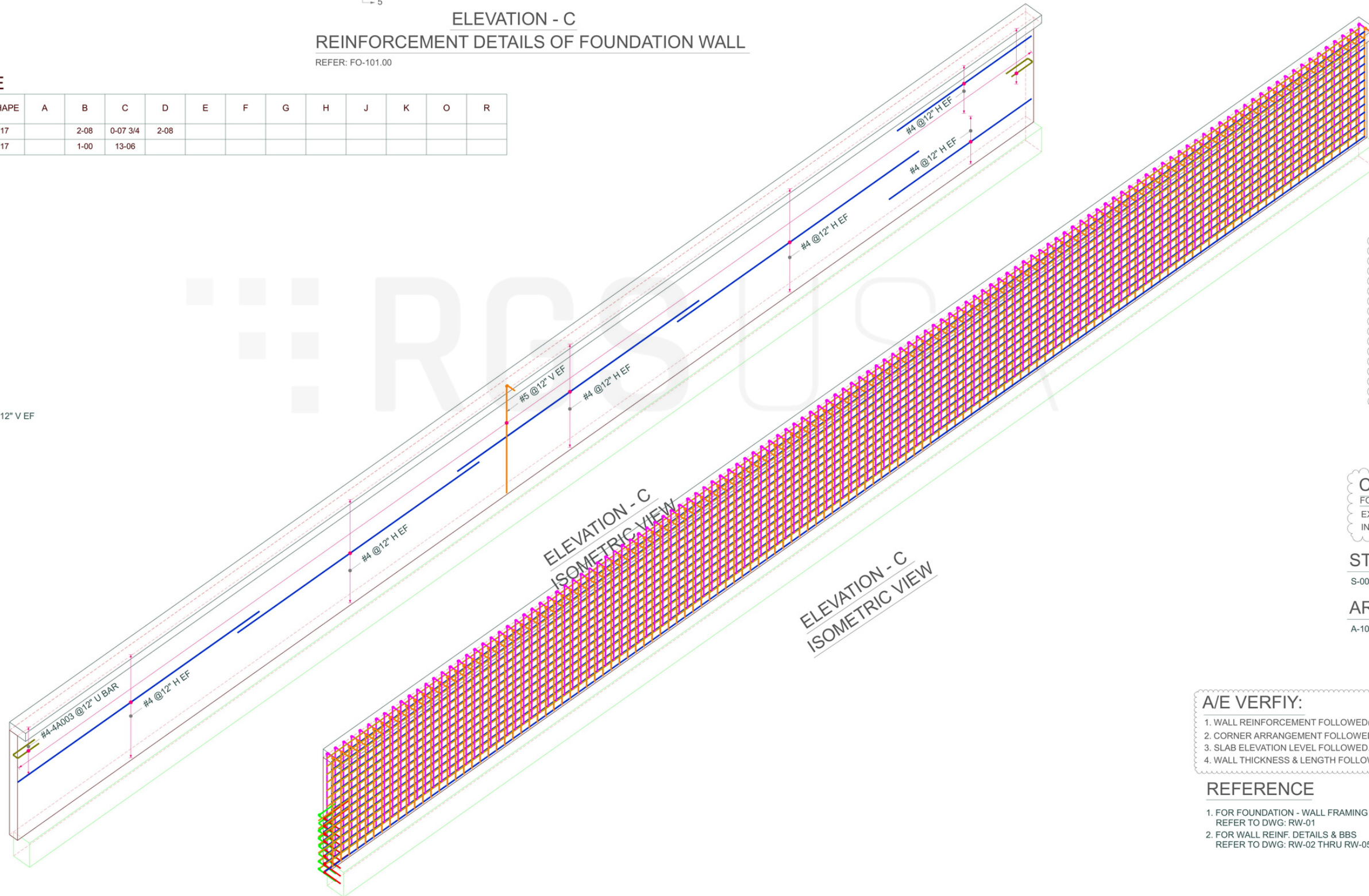
ELEVATION - C
REINFORCEMENT DETAILS OF FOUNDATION WALL
REFER: FO-101.00

BEND SCHEDULE

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
4A003	#4	15	17		2-08	0-07 3/4	2-08								
5A002	#5	254	17		1-00	13-06									



SECTION - 5
REF : FO-202.00



LAP TABLE:

FOR WALLS:
TENSION- 4000PSI

BAR SIZE	TYP.	TOP
#3	18"	24"
#4	25"	32"
#5	31"	40"
#6	46"	60"
#7	54"	70"
#8	62"	80"
#9	70"	91"
#10	79"	102"
#11	109"	142"

DEVELOPMENT LENGTH:

FOR WALLS:
TENSION LAP - 4000PSI

BAR SIZE	TYP.	TOP
#3	14"	18"
#4	19"	25"
#5	24"	31"
#6	36"	47"
#7	42"	54"
#8	48"	62"
#9	54"	70"
#10	61"	79"
#11	84"	109"

A/E VERIFY COVER VALUE
FOLLOWED.

COVER DETAILS:

FOR WALL:
EXTERIOR - 2"
INTERIOR - 1"

STRUCTURAL REFERENCE

S-001, FO-101.00, S-101.00, FO-201.00, FO-202.00, S-401.00

ARCHITECTURAL REFERENCE

A-100.00, A-101.00, A-350.00, A-351.00, A-352.00

A/E VERIFY:

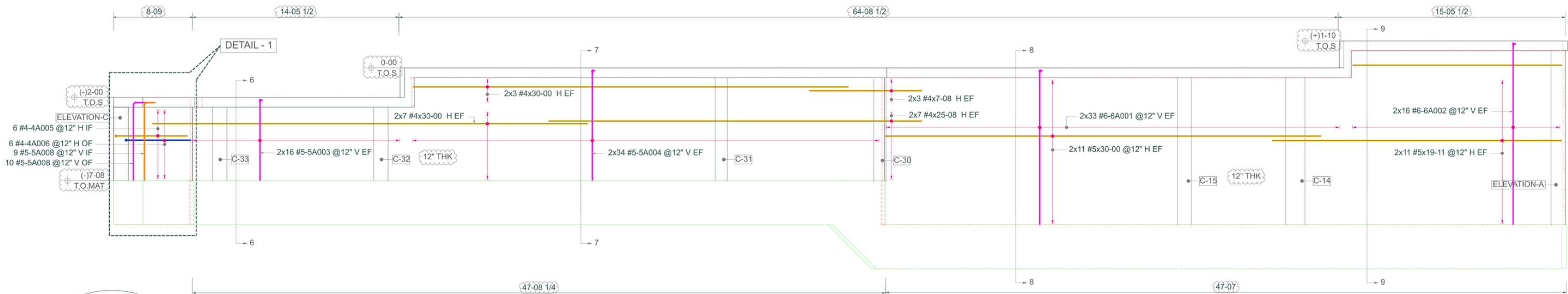
1. WALL REINFORCEMENT FOLLOWED(TYP.).
2. CORNER ARRANGEMENT FOLLOWED.
3. SLAB ELEVATION LEVEL FOLLOWED.
4. WALL THICKNESS & LENGTH FOLLOWED.

REFERENCE

1. FOR FOUNDATION - WALL FRAMING PLAN
REFER TO DWG: RW-01
2. FOR WALL REINF. DETAILS & BBS
REFER TO DWG: RW-02 THRU RW-05

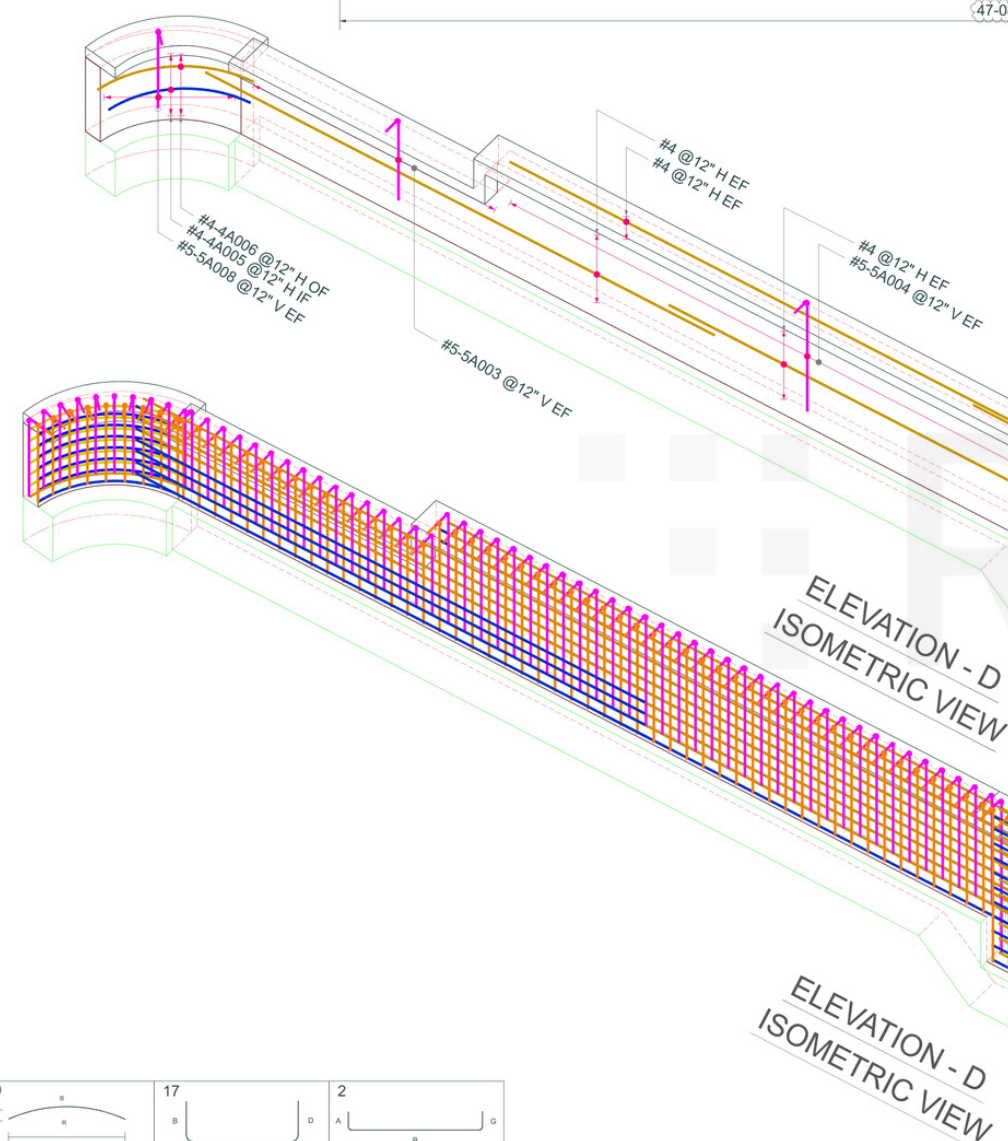
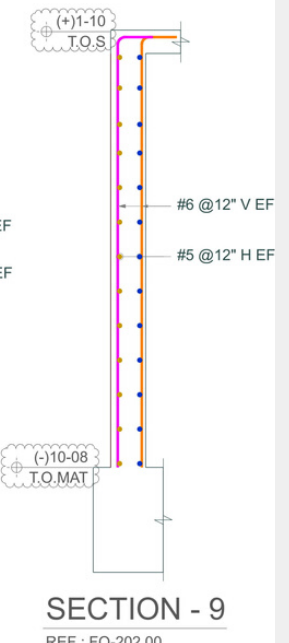
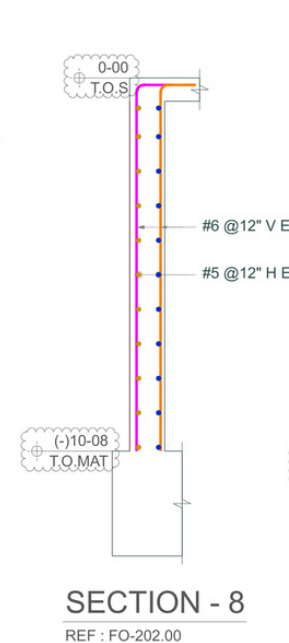
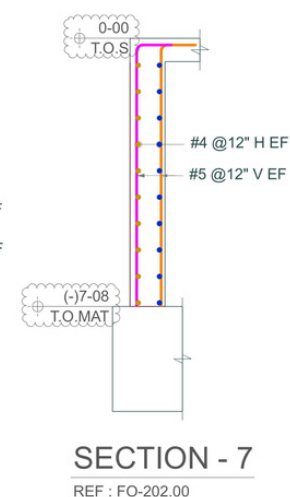
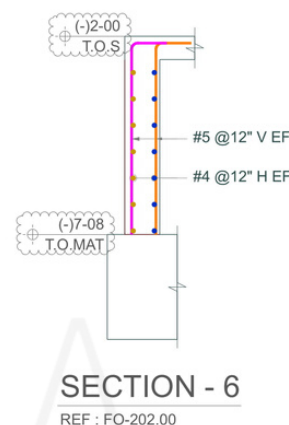
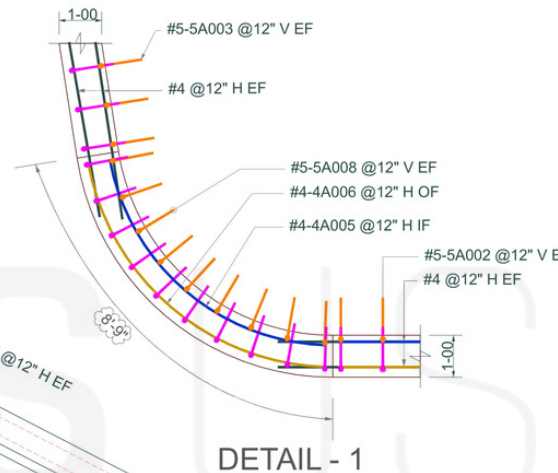
LEGEND

THK	THICKNESS
REINF.	REINFORCEMENT
TYP.	TYPICAL
EF	EACH FACE
T.O.S	TOP OF SLAB
DWG.	DRAWING
T.O.MAT	TOP OF MAT
H IF	HORIZONTAL INNER FACE
H OF	HORIZONTAL OUTER FACE
V IF	VERTICAL INNER FACE
V OF	VERTICAL OUTER FACE



ELEVATION - D REINFORCEMENT DETAILS OF FOUNDATION WALL

REFER: FO-101.00



ELEVATION - D ISOMETRIC VIEW



BEND SCHEDULE

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
4A005	#4	6	09		7-01 1/4						1-01 3/4			6-06 3/4	5-03
4A006	#4	6	09		8-02						1-04			7-06 1/2	6-00
5A003	#5	32	17		1-00	5-06									
5A004	#5	68	17		1-00	7-06									
5A008	#5	19	17		1-00	5-04									
6A001	#6	66	2	1-00	10-06										
6A002	#6	32	2	1-00	12-04										

REFERENCE

1. FOR FOUNDATION - WALL FRAMING PLAN
REFER TO DWG: RW-01
2. FOR WALL REINF. DETAILS & BBS
REFER TO DWG: RW-02 THRU RW-05

A/E VERIFY:

1. WALL REINFORCEMENT FOLLOWED (TYP.).
2. CORNER ARRANGEMENT FOLLOWED.
3. SLAB ELEVATION LEVEL FOLLOWED.
4. WALL THICKNESS & LENGTH FOLLOWED.

COVER DETAILS:

FOR WALL:
EXTERIOR - 2"
INTERIOR - 1"

STRUCTURAL REFERENCE

S-001, FO-101.00, S-101.00, FO-201.00, FO-202.00, S-401.00

ARCHITECTURAL REFERENCE

A-100.00, A-101.00, A-350.00, A-351.00, A-352.00

LAP TABLE:

FOR WALLS:

TENSION - 4000PSI

BAR SIZE	TYP.	TOP
#3	18"	24"
#4	25"	32"
#5	31"	40"
#6	46"	60"
#7	54"	70"
#8	62"	80"
#9	70"	91"
#10	79"	102"
#11	109"	142"

DEVELOPMENT LENGTH:

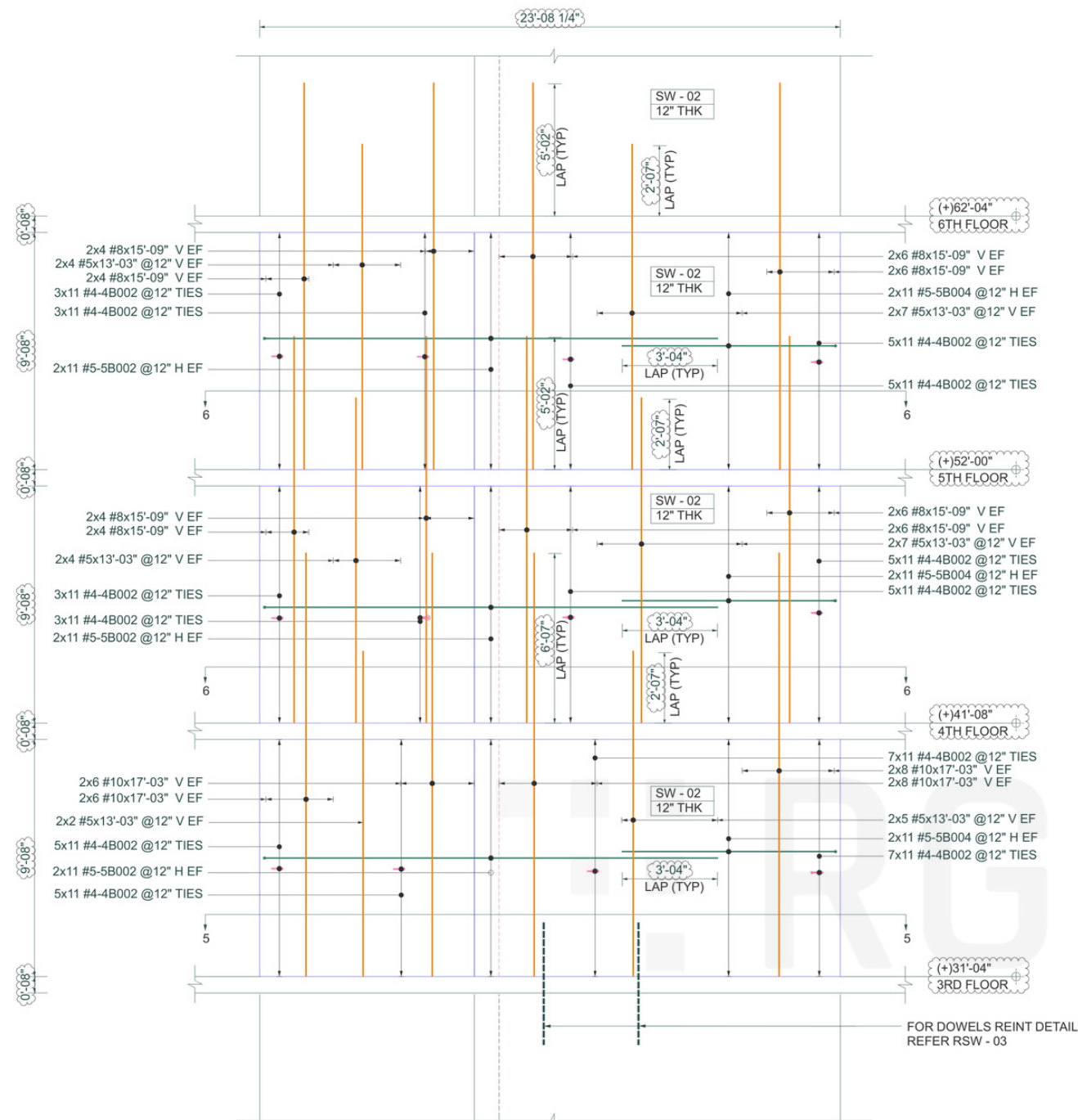
FOR WALLS:

TENSION LAP - 4000PSI

BAR SIZE	TYP.	TOP
#3	14"	18"
#4	19"	25"
#5	24"	31"
#6	36"	47"
#7	42"	54"
#8	48"	62"
#9	54"	70"
#10	61"	79"
#11	84"	109"

LEGEND

THK	THICKNESS
REINF.	REINFORCEMENT
TYP.	TYPICAL
EF	EACH FACE
T.O.S	TOP OF SLAB
DWG.	DRAWING
T.O.MAT	TOP OF MAT
H IF	HORIZONTAL INNER FACE
H OF	HORIZONTAL OUTER FACE
V IF	VERTICAL INNER FACE
V OF	VERTICAL OUTER FACE



ELEVATION - C (SW-2)

BEND SCHEDULE

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
4B002	#4	660	T12	0-05	0-10					0-05					
5B002	#5	66	2	0-10	18-06										
5B004	#5	66	2	0-10	8-09										



STRUCTURAL & ARCHITECTURAL REFERENCE:

REF: S-303.00, S-401.00, S-103.00 TO S-105.00, FO-202.00, EN-204.00, EN-206.00, A-350.00

LEGEND

THK	THICKNESS
REINF.	REINFORCEMENT
TYP.	TYPICAL
DWLS	DOWELS
T.O.S	TOP OF SLAB
DWG.	DRAWING
T.O.F	TOP OF FOOTING
H IF	HORIZONTAL INNER FACE
H OF	HORIZONTAL OUTER FACE
V IF	VERTICAL INNER FACE
V OF	VERTICAL OUTER FACE
V EF	VERTICAL EACH FACE
H EF	HORIZONTAL EACH FACE

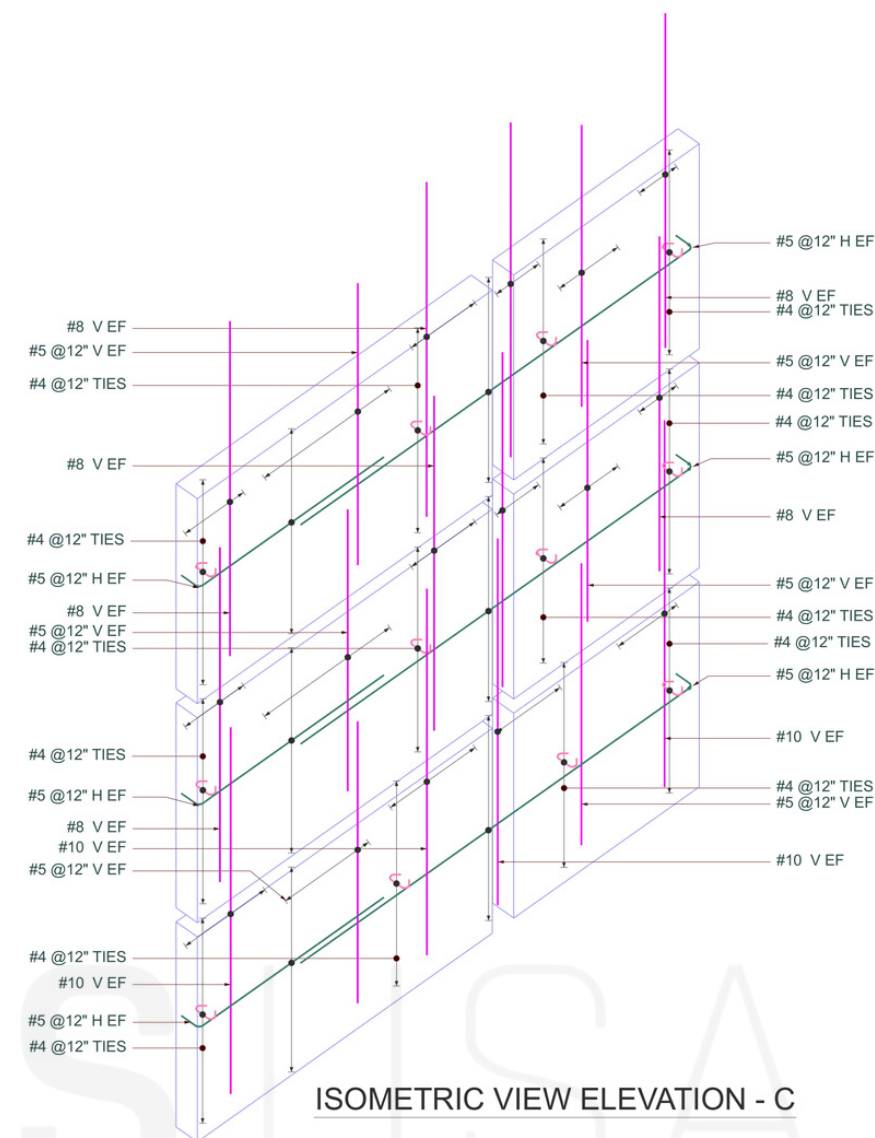
A/E VERIFY:

- PLEASE CONFORM WALL REBAR - TIES ARRANGEMENT FOLLOWED.
- SLAB ELEVATION LEVEL FOLLOWED.
- WALL LENGTH FOLLOWED.
- WE DIDN'T FOLLOW THE VERTICAL LAPING CONDITION FOR LEVEL CELLAR TO FIRST FLOOR. SINCE, WE FOLLOWED AS PER FO-202-00.
- WE SOLICED ALL THE VERTICAL BAR AND END ZONE BARS AS PER CONDITIONS AS PER SHEET 8/S-401.
- THE CLOUDED DIMENSION.
- END ZONE TIES QUANTITY WE PROVIDED.

LAP TABLE:

FOR SHEAR WALLS:
TENSION LAP - 4000PSI

BAR SIZE	TOP	TYP
#3	24	18
#4	32	25
#5	40	31
#6	60	46
#7	70	54
#8	80	62
#9	91	70
#10	102	79



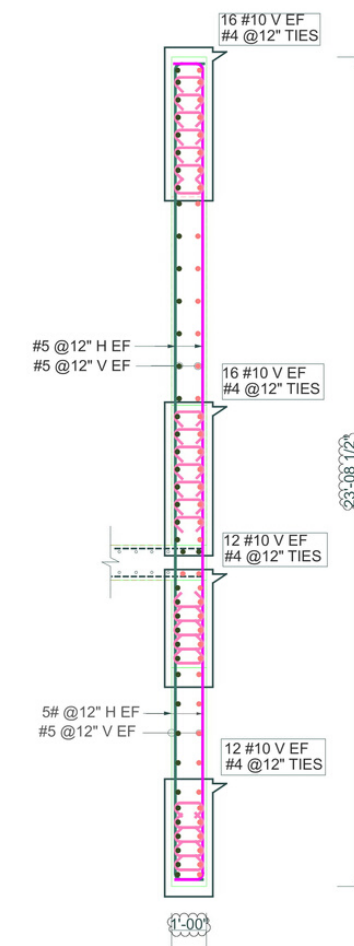
ISOMETRIC VIEW ELEVATION - C

SECTION - 5

REF: S-303.00

A/E VERIFY:

- HORIZONTAL REINFORCEMENT AND TIES SPACING & ARRANGEMENT FOLLOWED.

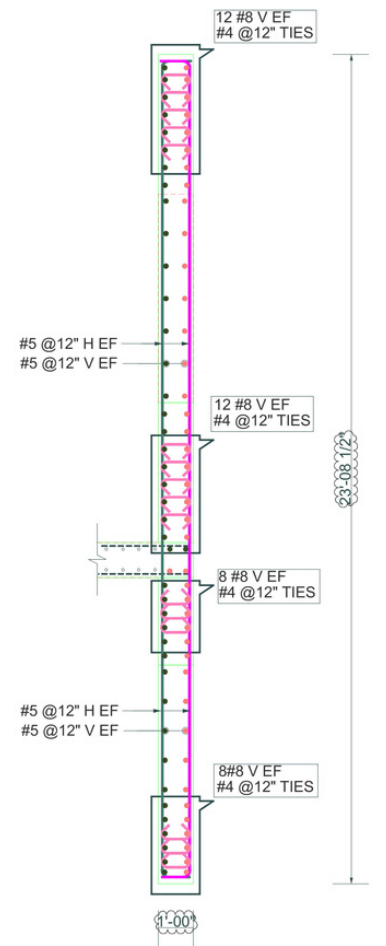


SECTION - 6

REF: S-303.00

A/E VERIFY:

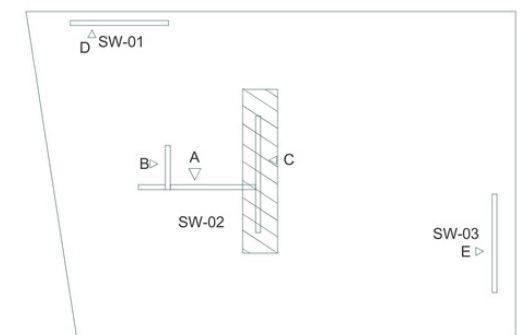
- HORIZONTAL REINFORCEMENT AND TIES SPACING & ARRANGEMENT FOLLOWED.



A/E VERIFY COVER VALUE FOLLOWED.

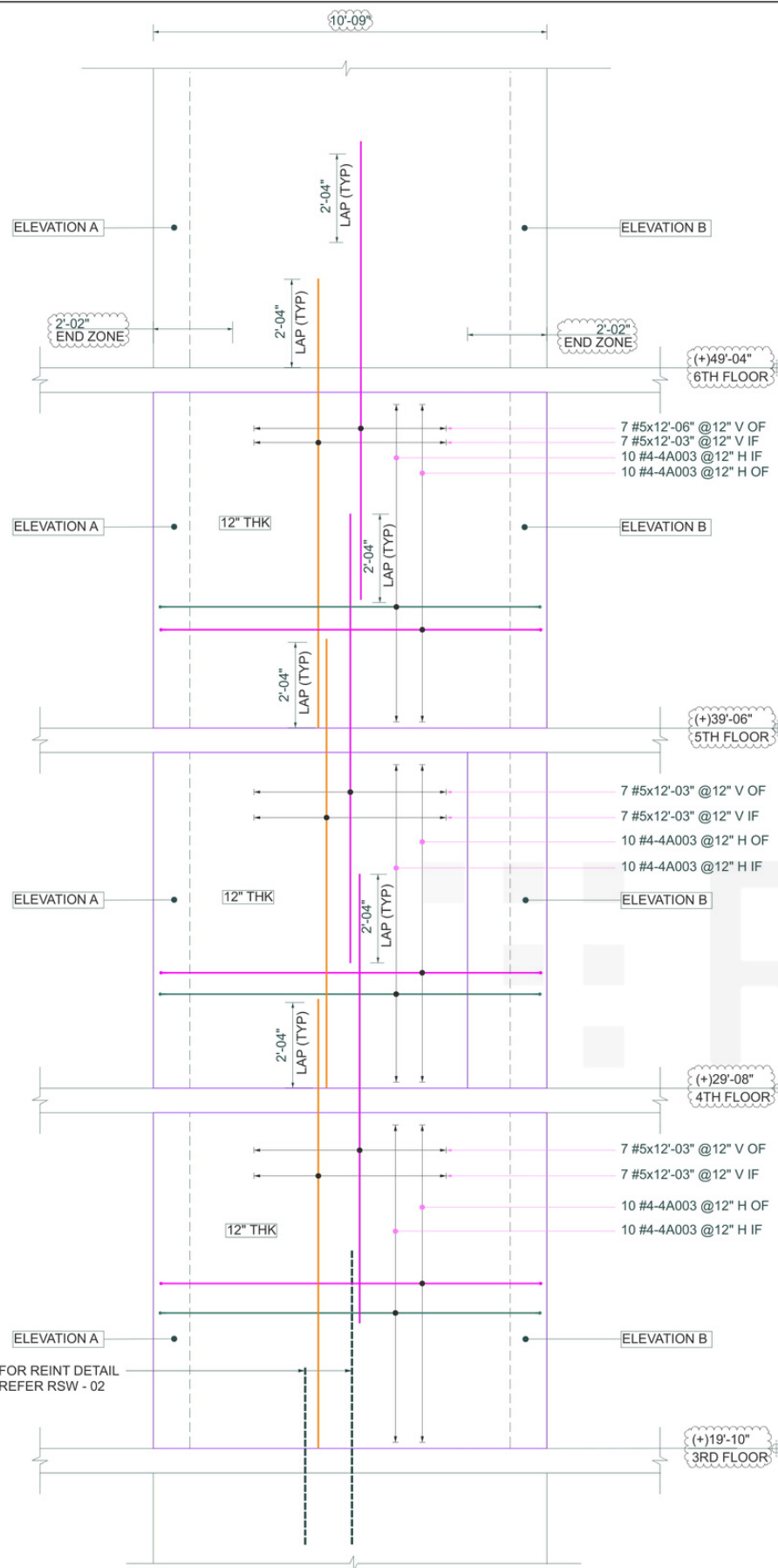
COVER DETAILS:

FOR WALL:
EXTERIOR - 2"
INTERIOR - 1"
SIDE - 2"

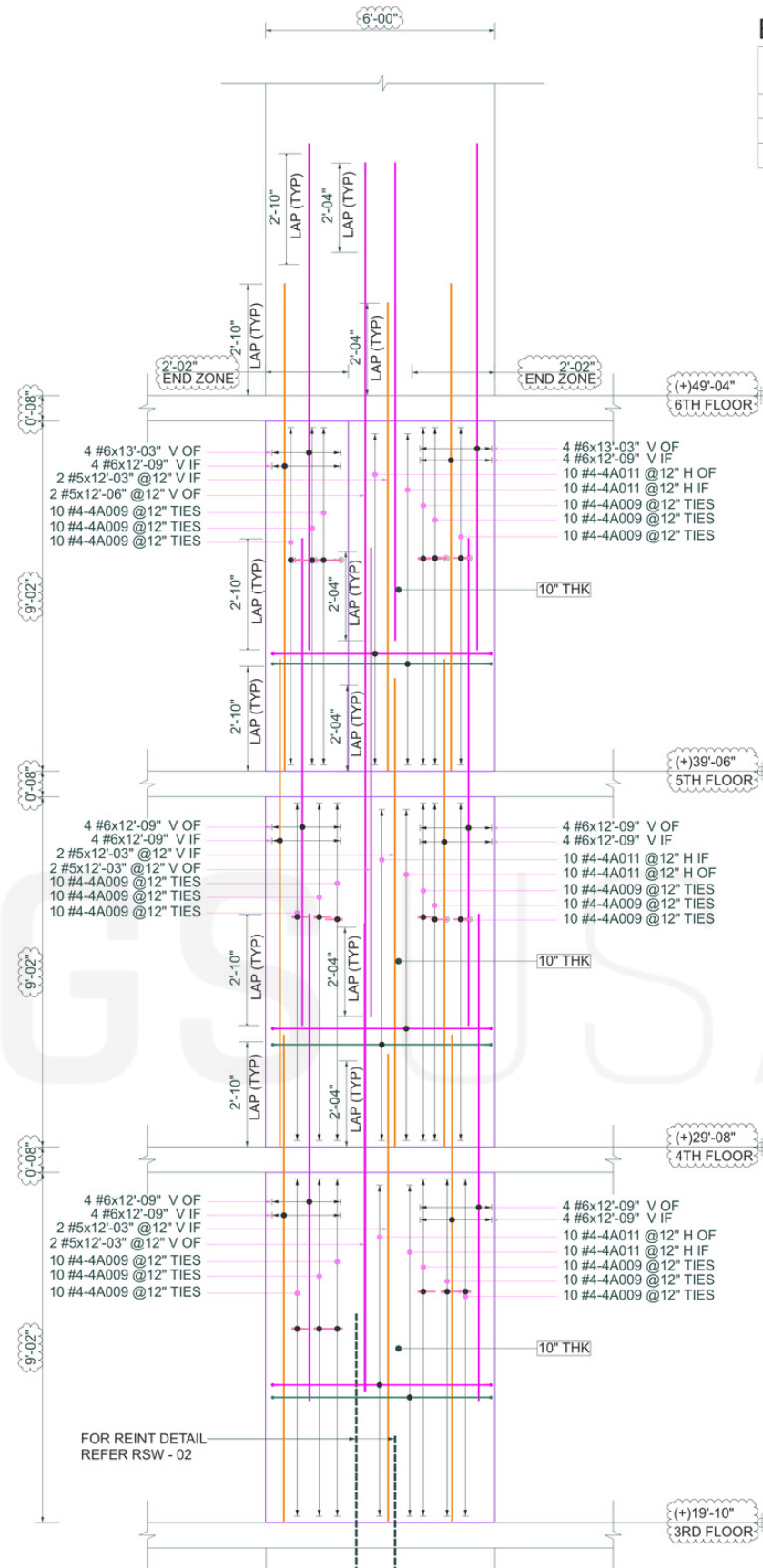


AREA KEY PLAN

N



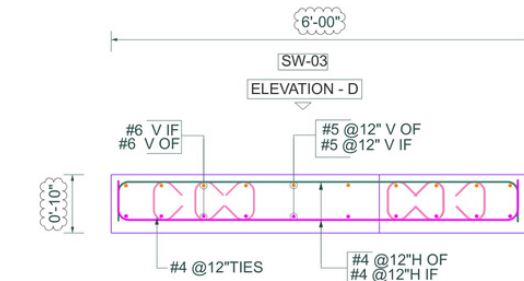
SW-2 ELEVATION - C
REF : S-302, S-401.00, S-403.00,
S-103.00, S-104.00



SW-3 ELEVATION - D
REF : S-302, S-401.00, S-403.00,
S-103.00, S-104.00

BEND SCHEDULE

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
4A003	#4	60	2	0-08	10-05						0-08				
4A009	#4	180	T12	0-05	0-07					0-05					
4A011	#4	60	17		0-07	5-09	0-07								



PLAN VIWE - B
SCALE : 1:15

LAP TABLE: FOR SHEAR WALLS: TENSION LAP - 5000PSI

BAR SIZE	TOP	OTHERS
#3	23	16
#4	30	23
#5	37	28
#6	45	34
#7	64	49
#8	73	56
#9	82	63

A/E VERIFY COVER VALUE
FOLLOWED.

COVER DETAILS:

FOR WALL:
EXTERIOR - 2"
INTERIOR - 1"
SIDE - 2"

LEGEND

THK	THICKNESS
REINF.	REINFORCEMENT
TYP.	TYPICAL
DWLS	DOWELS
T.O.S	TOP OF SLAB
DWG.	DRAWING
T.O.F	TOP OF FOOTING
H IF	HORIZONTAL INNER FACE
H OF	HORIZONTAL OUTER FACE
V IF	VERTICAL INNER FACE
V OF	VERTICAL OUTER FACE

REFERENCE

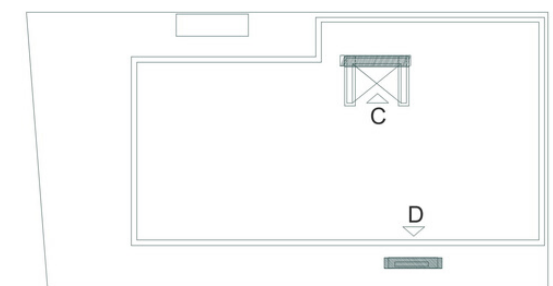
1. FOR SHEAR WALL SW-02 (ELE -A & B)
REFER DWG NO : RSW 06 REINF. DETAILS
2. FOR SHEAR WALL SW-01 (ELE -E)
REFER DWG NO : RSW 08 REINF. DETAILS

STRUCTURAL REFERENCE

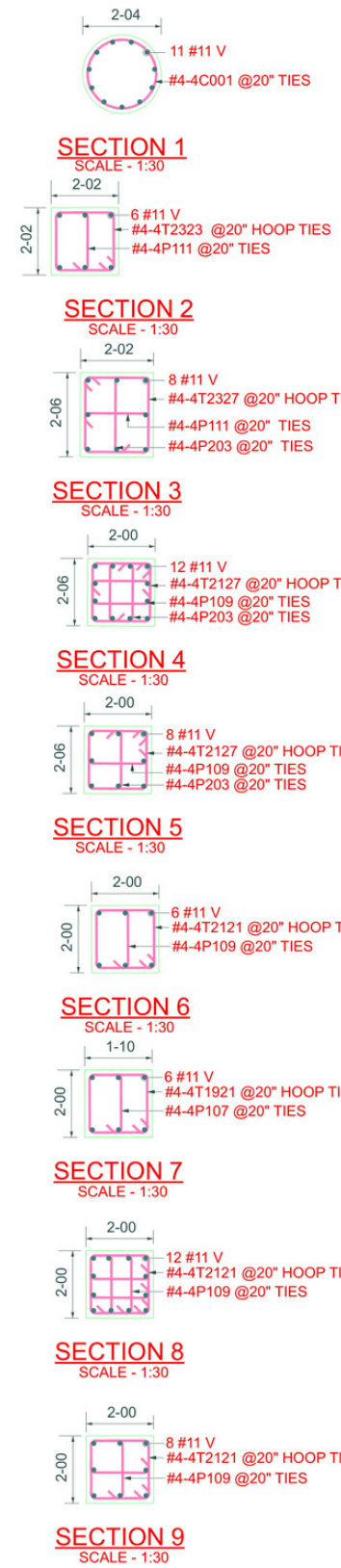
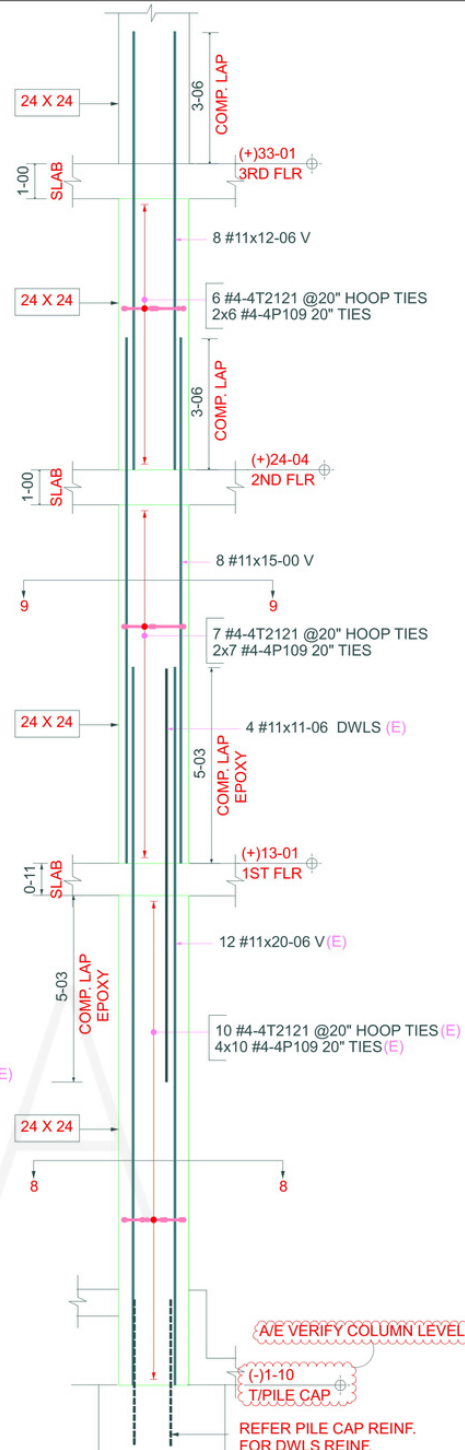
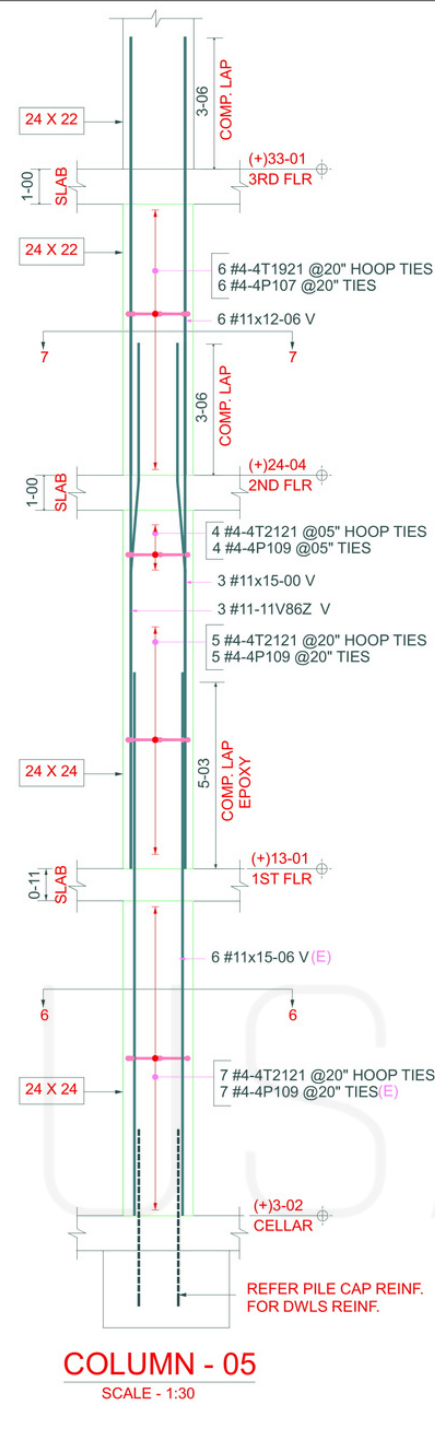
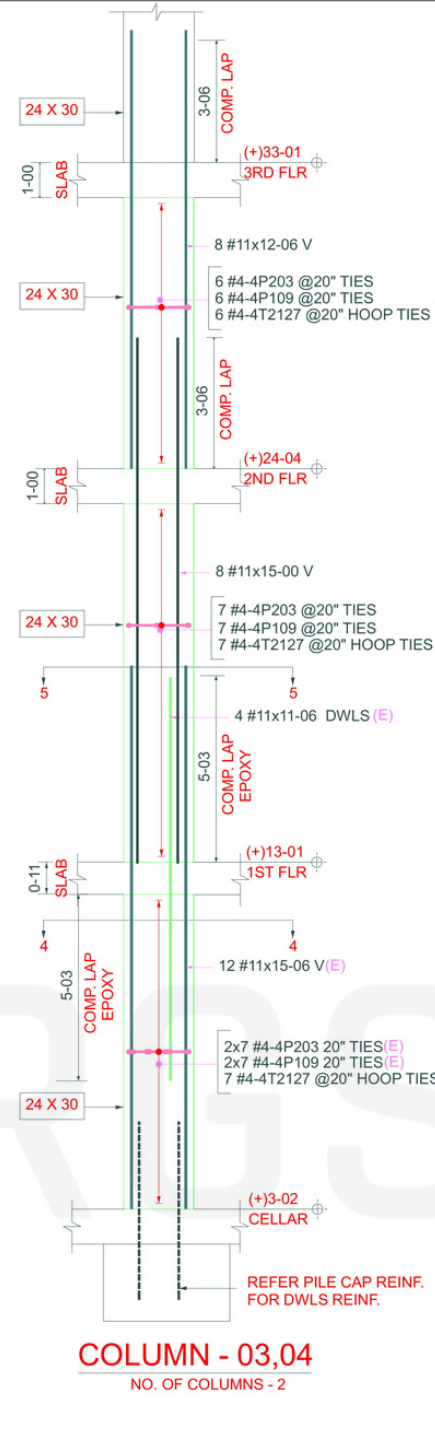
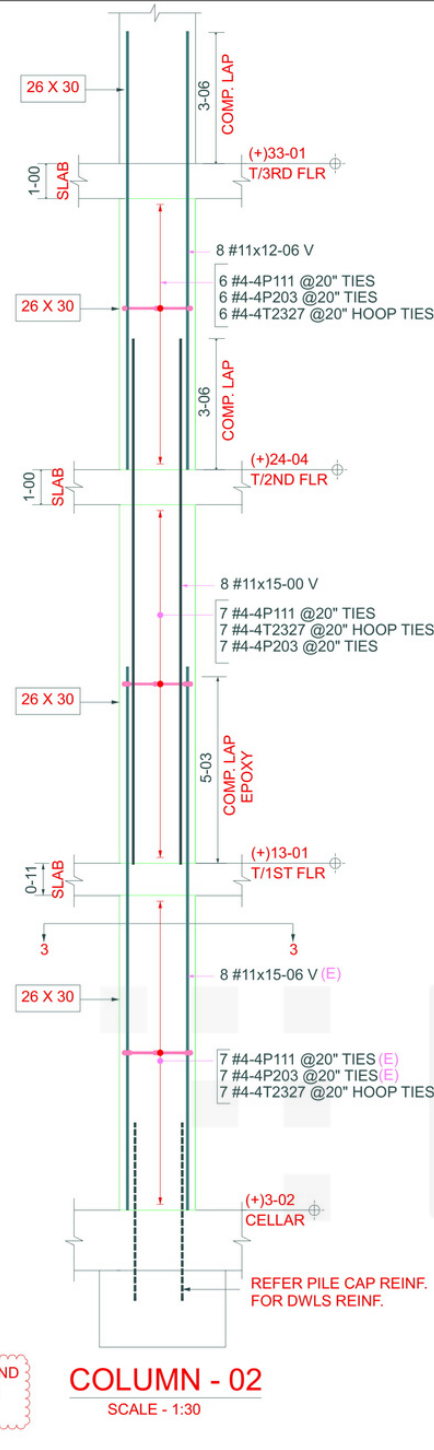
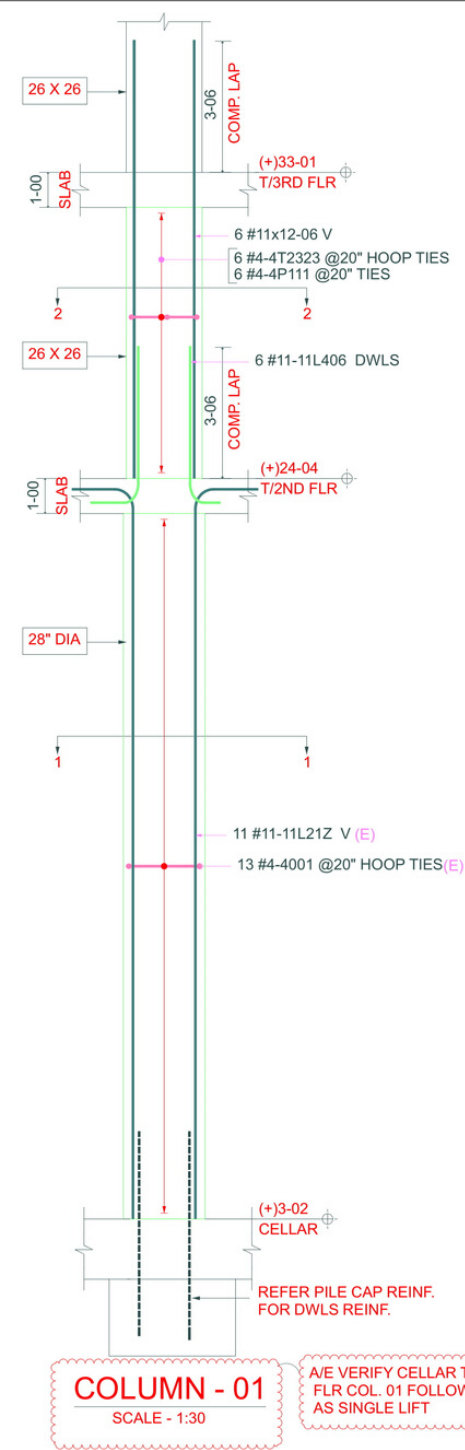
S.302, S-401.00, S-403.00, S.103.00, S.104.00, S-F0-202.00

A/E VERIFY:

1. PLEASE CONFORM WALL REBAR - TIES
ARRANGEMENT FOLLOWED.
2. SLAB ELEVATION LEVEL FOLLOWED.
3. WALL LENGTH FOLLOWED.
4. WE DID'NT FOLLOW THE VERTICAL LAPING
CONDITION FOR LEVEL CELLAR TO FIRST FLOOR.
SINCE, WE FOLLOWED AS PER FO-202-00.
5. WE SOLICED ALL THE VERTICAL BAR AND END
ZONE BARS AS PER CONDITIONS AS PER
SHEET 8/S-401.
6. THE CLOUDED DIMENSION.
7. END ZONE TIES QUANTITY WE PROVIDED.
8. WE PROVIDED 7"HOOK VALUE, SINCE OUR
WALL THICK IS 10".



KEY PLAN



LAP: COLUMNS

COMPRESSION-5000 PSI OR GREATER

BAR SIZE	UNCOATED		EPOXY	
	LD	LAP	LD	LAP
#3	12"	12"	18"	18"
#4	12"	15"	18"	23"
#5	12"	19"	18"	29"
#6	13"	23"	20"	35"
#7	15"	27"	23"	41"
#8	17"	30"	26"	45"
#9	19"	34"	29"	51"
#10	22"	38"	33"	57"
#11	24"	42"	36"	63"

LAP: COLUMNS

TENSION-9000PSI

BAR SIZE	UNCOATED	EPOXY
#3	12"	12"
#4	12"	13"
#5	14"	20"
#6	16"	24"
#7	26"	39"
#8	33"	50"
#9	41"	61"
#10	50"	75"
#11	59"	89"

ALL BARS ON THIS DRAWING
ASTM A615
GRADE 60 BLACK U.N.O

BEND SCHEDULE

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
4P107	#4	6	T9	0-05	1-07					0-04 3/4					
4P109	#4	61	T9	0-05	1-09					0-04 3/4					
4P111	#4	19	T9	0-05	1-11					0-04 3/4					
4P203	#4	39	T9	0-05	2-03					0-04 3/4					
4T1921	#4	6	T1	0-05	1-09	1-07	1-09	1-07		0-05					
4T2121	#4	22	T1	0-05	1-09	1-09	1-09	1-09		0-05					
4T2127	#4	26	T1	0-05	2-03	1-09	2-03	1-09		0-05					
4T2323	#4	6	T1	0-05	1-11	1-11	1-11	1-11		0-05					
4T2327	#4	13	T1	0-05	2-03	1-11	2-03	1-11		0-05					
11L406	#11	6	2	2-00	4-06										
11V862	#11	3	31		3-11	2-07	8-06 1/4				0-05		2-06 3/4	15-00	

STRUCTURAL REFERENCE:

S-001.03, FO-100.03, S-010.03, S-910.03, S-911.03
S-912.03, S-915.00, S-944.00, S-020.00, S-030.00 (DT. 11/21/19),

COVER DETAILS:

COLUMN :-
ALL SIDES - 0-1 1/2"

LEGEND:

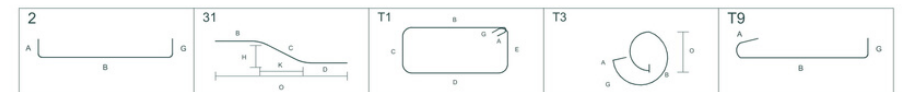
H HORIZONTAL
V VERTICAL
DWLS DOWELS
E EPOXY COATED BARS

A/E VERIFY:-

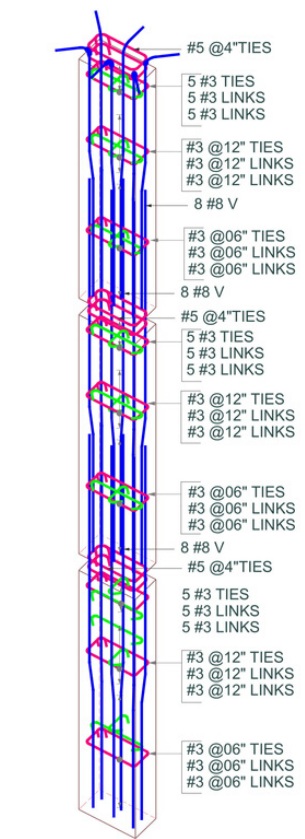
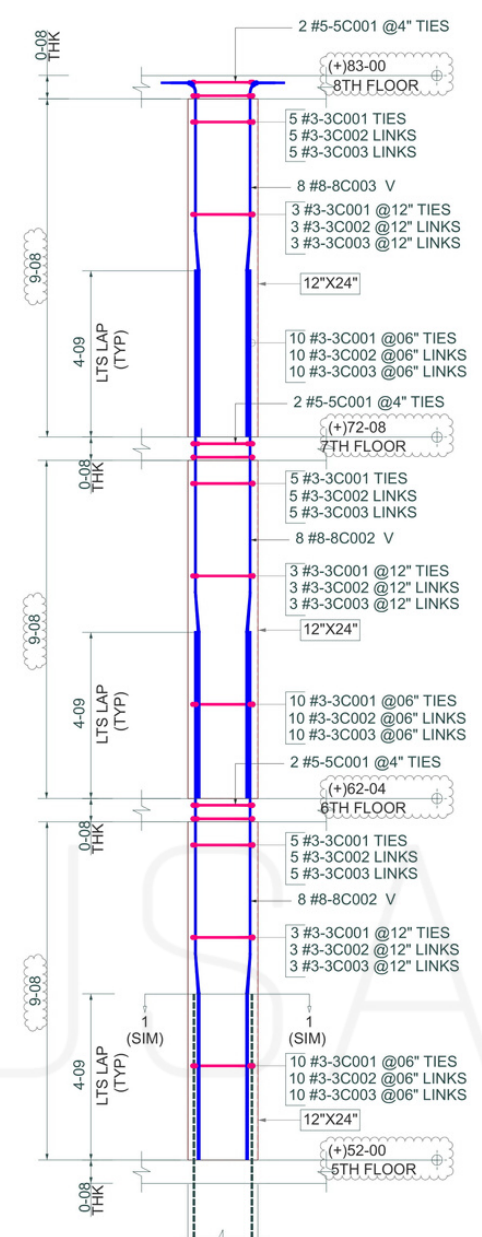
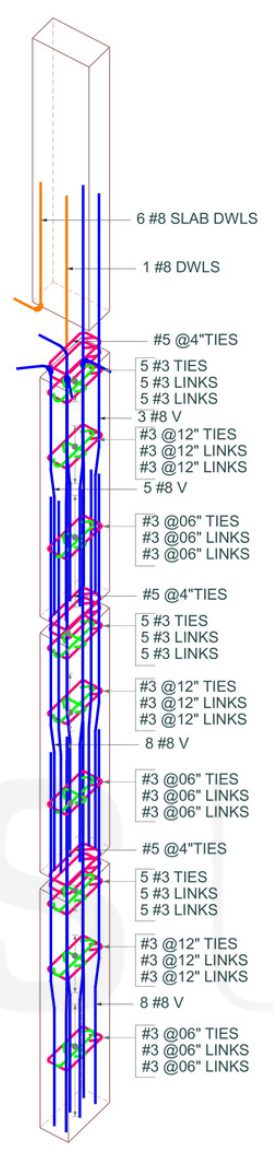
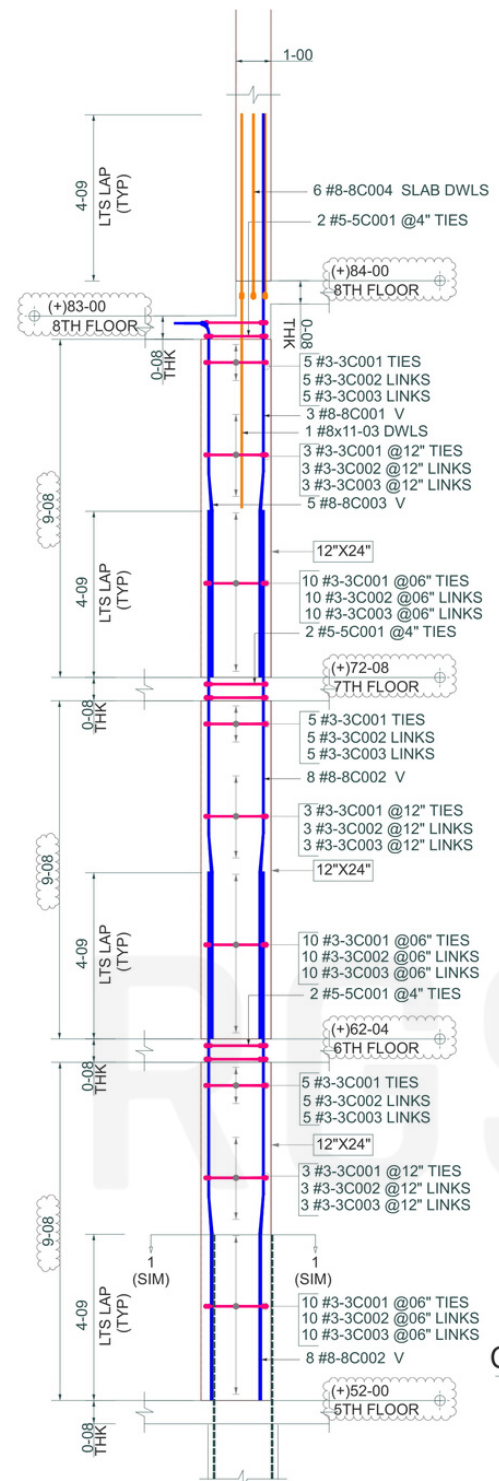
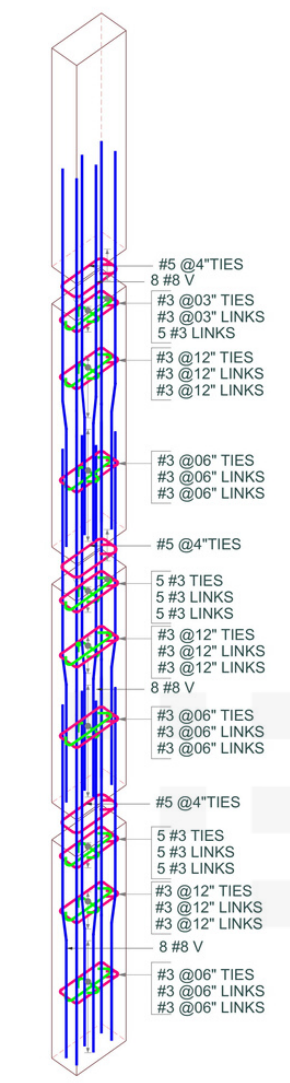
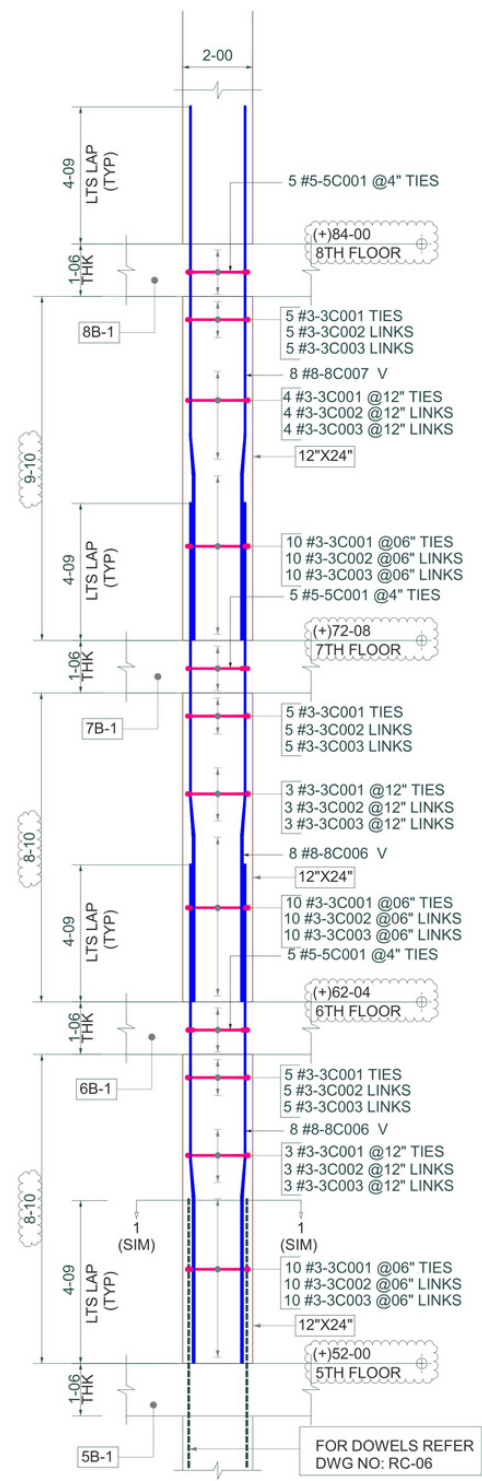
1. USED 30'-0" STOCK LENGTH.
2. LAP VALUE FOLLOWED.
3. COVER VALUE FOLLOWED.
4. COLUMN ELEVATION LEVELS FOLLOWED.
5. VERT. DWLS PROVIDED AT COLUMN OFFSET.
6. LD FOR EPOXY (COMPRESSION) FOLLOWED.
7. VERT. AND TIES ARRANGEMENT FOLLOWED.

EPOXY COATED

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
4001	#4	13	T3	0-04 3/4	0-04 3/4					1-00 1/4				2-01	
4P109	#4	75	T9	0-05	1-09					0-04 3/4					
4P111	#4	7	T9	0-05	1-11					0-04 3/4					
4P203	#4	35	T9	0-05	2-03					0-04 3/4					
4T2121	#4	17	T1	0-05	1-09	1-09	1-09	1-09		0-05					
4T2127	#4	14	T1	0-05	2-03	1-09	2-03	1-09		0-05					
4T2327	#4	7	T1	0-05	2-03	1-11	2-03	1-11		0-05					
11L212	#11	11	2	2-00	20-11										



BEND SCHEDULE



LEGEND

THK	THICKNESS
REINF.	REINFORCEMENT
TYP.	TYPICAL
DWLS	DOWELS
T.O.S	TOP OF SLAB
DWG.	DRAWING
T.O.F	TOP OF FOOTING
V	VERTICAL
FLR	FLOOR

COVER DETAILS:

FOR COLUMN
ALL SIDES - 1 1/2"

LAP TABLE:

FOR COLUMN
5000PSI

BAR SIZE	LTS	LCS
#8	57"	30"

A/E VERIFY:

1. VERIFY LAP VALUE FOLLOWED.
2. VERIFY CRANK VALUE FOLLOWED.
3. VERIFY ELEVATION LEVEL FOLLOWED.
4. VERIFY COVER VALUE FOLLOWED.
5. VERIFY WE FOLLOWED ALL COLUMNS SIZE & SPACING AS PER COLUMN TIE SCHEDULE.

STRUCTURAL REFERENCE

S-104.00, S-105.00, S-106.00, S-301.00, S-302.00
S-401.00 & S-403.00 (DT:13-09-19).

ARCHITECTURAL REFERENCE

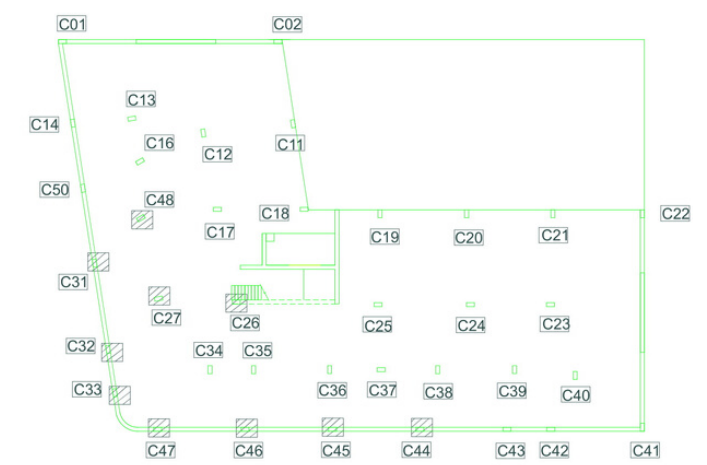
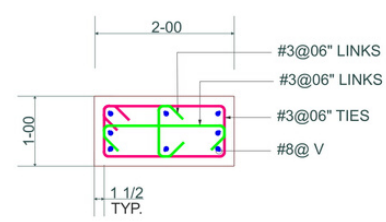
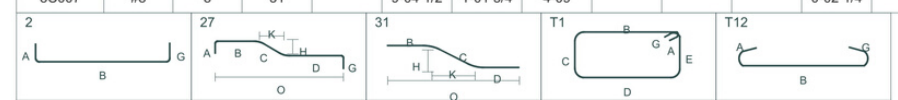
A-104.00, A-105.00, A-106.00, A-350.00,
A-351.00, A-352.00 (DT:10-02-19)

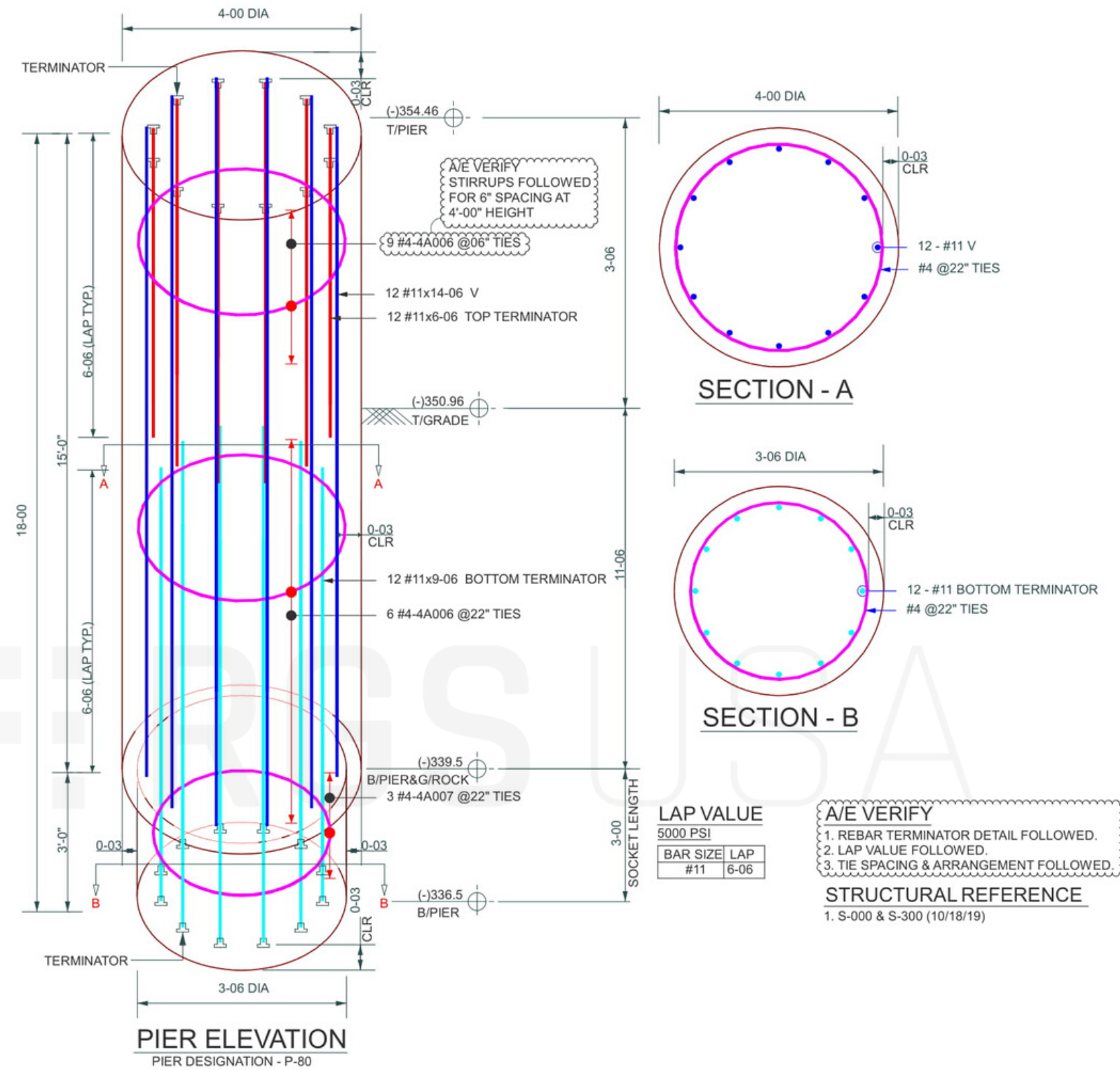
A/E VERIFY CRANK VALUE FOLLOWED.

BAR SIZE	H	K
#8	0-02 1/4"	1-01 1/2"

BEND SCHEDULE

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
3C001	#3	541	T1	0-04 1/2	0-09	1-09	0-09	1-09		0-04 1/2					
3C002	#3	541	T12	0-04 1/2	1-09					0-04 1/2					
3C003	#3	541	T12	0-04 1/2	0-09					0-04 1/2					
5C001	#5	69	T1	0-06	0-09	1-09	0-09	1-09		0-06					
8C001	#8	6	31		10-02 1/2	1-01 3/4	4-09				0-02 1/4	1-01 1/2	16-01		
8C002	#8	144	31		9-02 1/2	1-01 3/4	4-09				0-02 1/4	1-01 1/2	15-01		
8C003	#8	64	27		4-09	1-01 3/4	4-03 1/2			1-00	0-02 1/4	1-01 1/2	10-02		
8C004	#8	12	2	1-00	5-03										
8C005	#8	2	27		4-09	1-01 3/4	5-03 1/2			1-00	0-02 1/4	1-01 1/2	11-02		
8C006	#8	16	31		8-04 1/2	1-01 3/4	4-09				0-02 1/4	1-01 1/2	14-03		
8C007	#8	8	31		9-04 1/2	1-01 3/4	4-09				0-02 1/4	1-01 1/2	15-03		





BEND SCHEDULE

MARK	SIZE	QTY	SHAPE	A	B	C	D	E	F	G	H	J	K	O	R
4A006	#4	15	T3			12-11 3/4				2-00				3-06	
4A007	#4	3	T3			11-05				2-00				3-00	



- NOTES:
1. ALL REINFORCING DETAILS CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCEMENT CONCRETE STRUCTURES" ACI 315, LATEST EDITION.
 2. REINFORCEMENT SHALL BE ASTM A615, GRADE 60 DEFORME BARS.
 3. CONCRETE STRENGTH - 5000 PSI

GET IN TOUCH WITH US

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