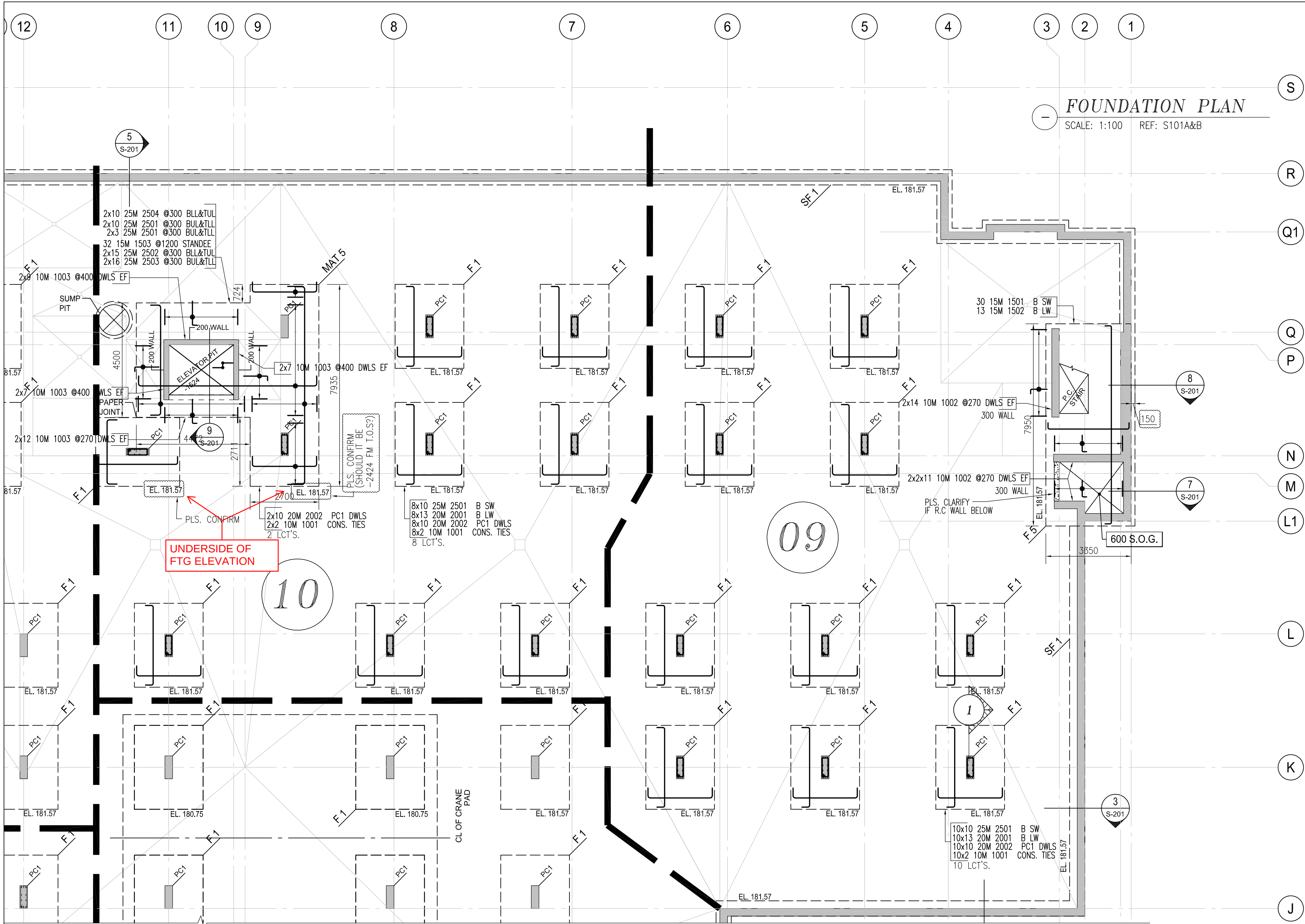
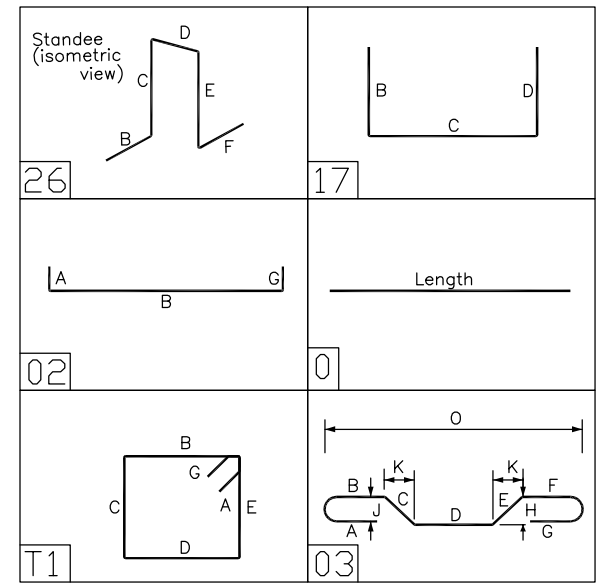




FOUNDATION PLAN

SCALE: 1:100 REF: S101A&B



Release Code: R1.2 ISO FTG P#9										BENDING DETAILS.									
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'W'			
1002	72	10M	830	2		180	650												
1001	20	10M	2180	11		100	750	240	750	240		100							
1501	30	15M	3720	2		260	3200					260							
2001	130	20M	3770	2		310	350					310							
2501	100	25M	3350	2		400	2550					400							
2002	100	20M	1410	2		310	1100												
1502	13	15M	8320	2		260	7800					260							

Release Code: R1.2 ISO FTG P#10										BENDING DETAILS.									
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'W'			
1003	70	10M	1130	2		180	950												
1503	32	15M	1700	26		400	350	200	350	400									
1001	20	10M	2180	11		100	750	240	750	240		100							
2501	106	25M	3350	2		400	2550					400							
2001	104	20M	3770	2		310	350					310							
2504	20	25M	8580	2		400	7780					400							
2002	100	20M	1410	2		310	1100												
2502	30	25M	5550	2		400	4350					400							
2503	32	25M	7820	2		400	7020					400							

DRAWING REVIEW

This review of this drawing does not in any way relieve the contractor of responsibility for its accuracy or for compliance with the contract documents.

No comment	See comment
Amend & Resubmit	Rejected See Remarks

Submission No. 19066
Project No. 19066
By: AJ
Date: 13 Apr 2021

JABLONSKY, AST AND PARTNERS
Consulting Engineers
3 Concorde Gate, North York, ON M3C 4H9

- ELEVATIONS AND DIMENSIONS SHOWN ARE FOR VERIFICATION PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION
- ALL CONFIRMS/VERIFIES WILL BE ASSUMED CORRECT AND APPROVED AS IS UNLESS COMMENTED ON THE APPROVAL DRWGS

LEGEND		
ALT = ALTERNATE	FF = FAR FACE	OF = OUTSIDE FACE
BOT = BOTTOM	FS = FORM SAVER	SC = SAW CUT END
BIS = BEND INTO SLAB	GID = GROUT IN DOWELS	STG = STAGGER
CB = CORNER BAR	H = HORIZONTAL	STR = STRIPS
CS = CONTROL JOINT	IF = INSIDE FACE	T = TOP
CUT = CUT TO SUIT SITE COND.	LL = LOWER LAYER	THR/1 = THREAD LEND
DWL = DOWELS	LL = LOWER LAYER	THR/2 = THREAD ZENDS
EE = EACH END	MID = MIDDLE	UL = UPPER LAYER
EF = EACH FACE	MIN = MINIMUM	UNLESS NOTED
EJ = EXPANSION JOINT	NF = NEAR FACE	V = VERTICAL
ES = EACH SIDE	OC = ON CENTER	TT = TIE
EW = EACH WAY		

STRAIGHT BARS LABEL FORMAT	BENT BARS LABEL FORMAT	GRADES OF STEEL
7 B15M X 3600 GRADE LENGTH	7 B15M B1501 GRADE LENGTH	B = GRADE 400W C = GRADE 500W S = STAINLESS W = WELDABLE

FOR APPROVAL	APR/12/21	JU
ISSUE	REMARKS	DATE
MANSTEEL	MANSTEEL REBAR	

PROJECT
FORESTSIDE TOWNHOUSES
-BRAMPTON, ON
PART OF STRUCTURE
ISOLATED FOOTINGS P#9,10

CUSTOMER : ROYAL PINE HOMES	Project no. 2177 SCALE: AS SHOWN DRAWING No. R1.4
DETAILED BY: JU	BAR LIST No.
CHECKED BY:	

NOTES

- ALL STEEL TO BE GRADE 400W
- STRENGTH OF CONCRETE
35MPa - FOOTINGS
35MPa - INTERIOR COLUMNS & WALLS
- CONCRETE COVER:
FTG., FND. CAST AGAINST EARTH --- 75mm
TIES --- 30mm

4. COMPRESSION LAP SPLICE

BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

5. TENSION LAP SPLICE (L.S.) & DEVELOPMENT LENGTH (Ld)
(FOR WALL OR COL & Ld IN CAP OR FTG.)

BAR SIZE	fc=25		fc=30		fc=35	
	L.S	L.d	L.S	L.d	L.S	L.d
10M	490	380	450	350	420	320
15M	740	570	670	520	620	480
20M	980	750	890	690	830	640
25M	1530	1170	1390	1070	1290	990
30M	1830	1410	1670	1290	1550	1190
35M	2130	1640	1950	1500	1800	1390

WILL BE NOTED ON COLUMN AND WALL SCHEDULE

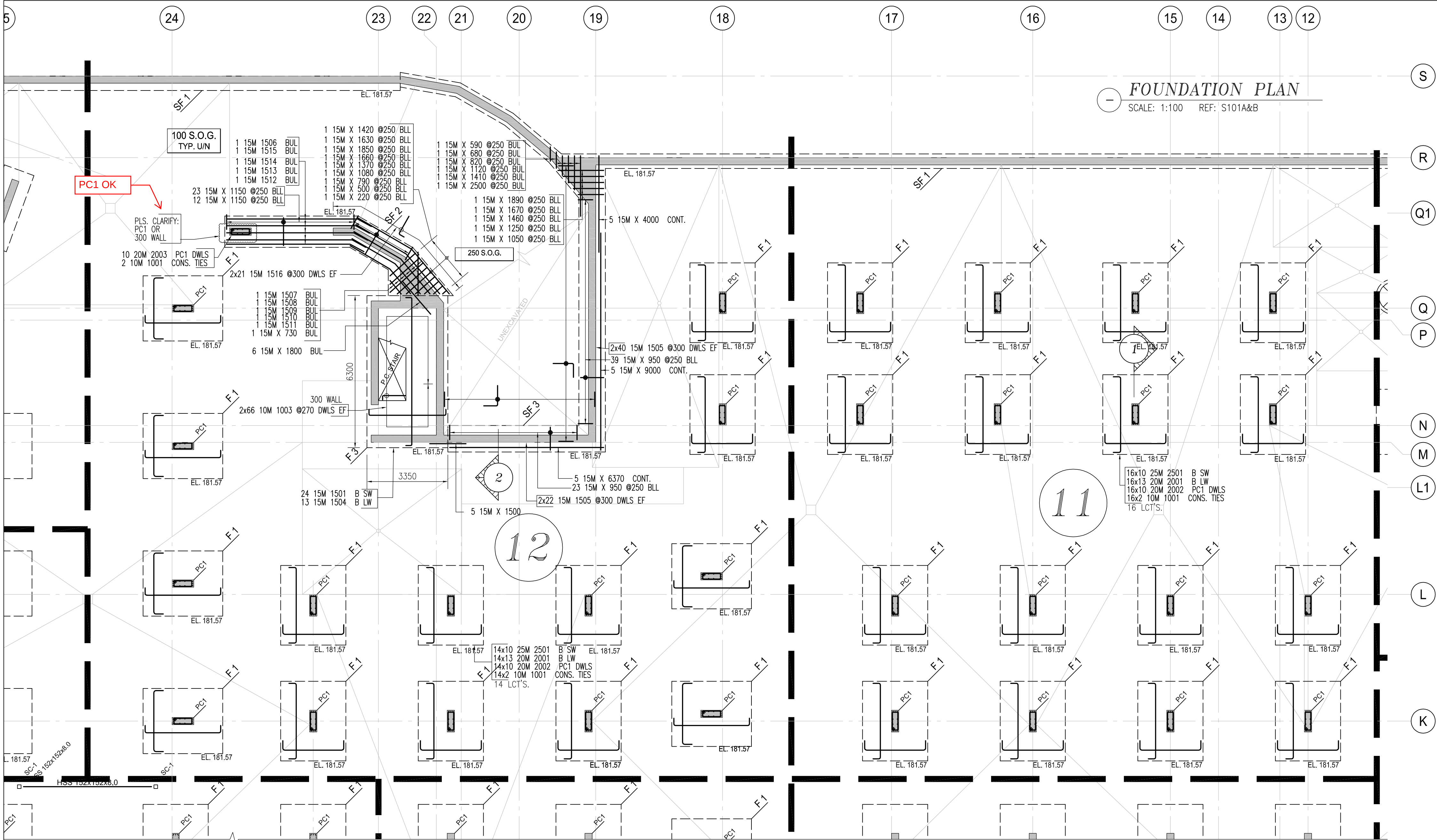
SECTION 1A

SCALE: 1:25

SECTION 1

SCALE: 1:25

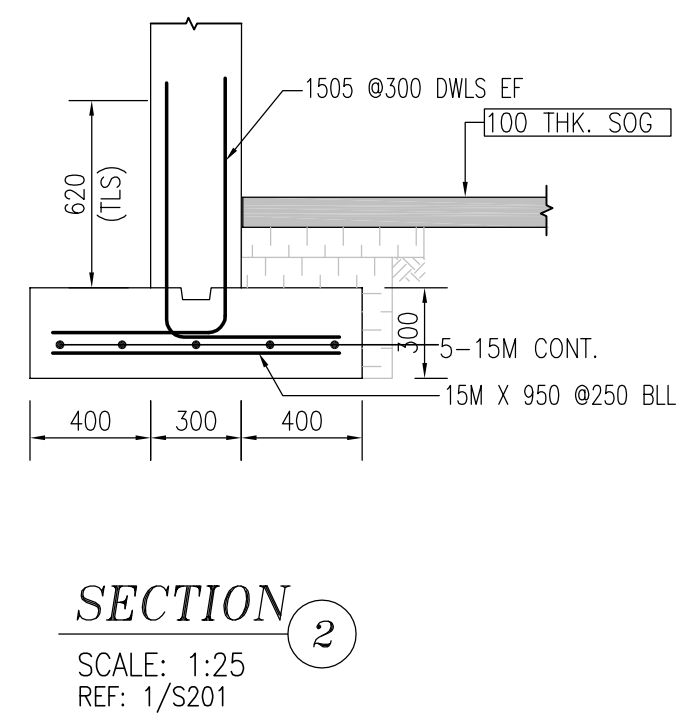
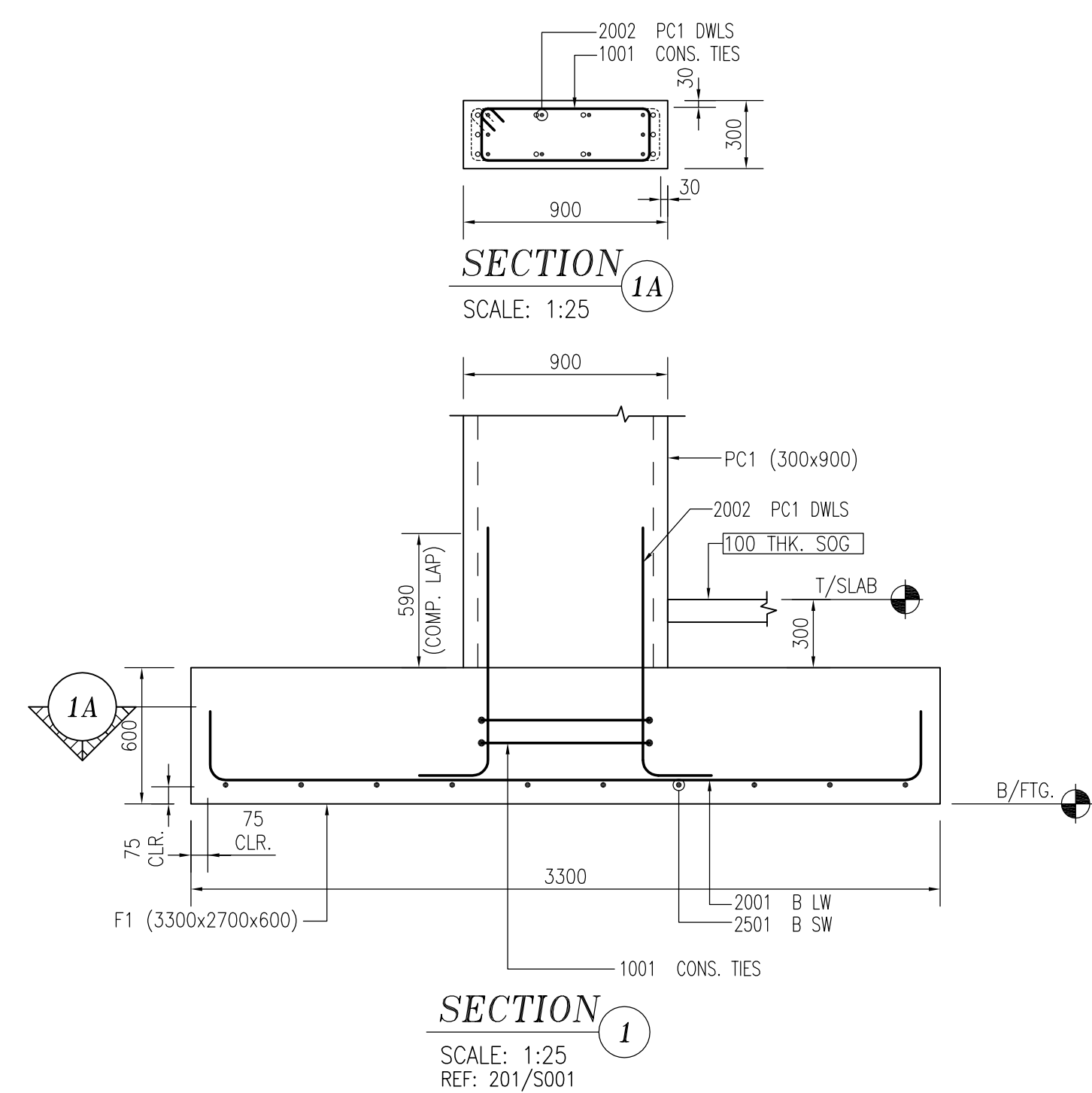
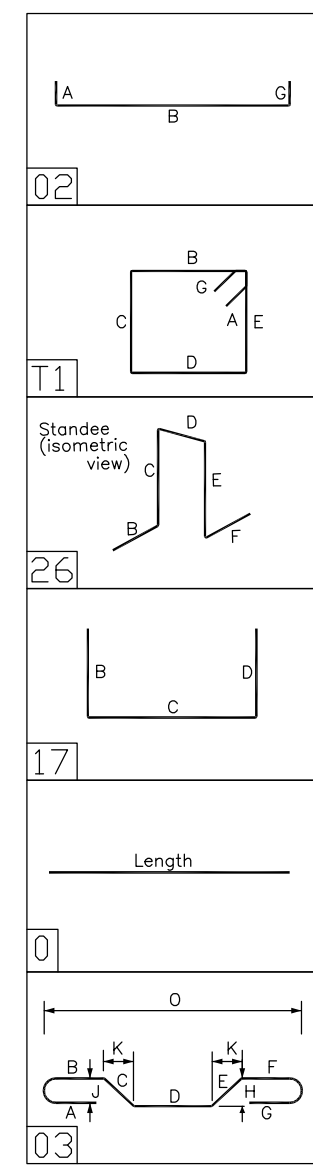
REF: 201/S001



FOUNDATION PLAN
SCALE: 1:100 REF: S101A&B

Release Code: R1.2 ISO FTG P#11										BENDING DETAILS.									
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'	K'	L'	M'	N'	O'
1001	32	10M	2800	T1		100		750											
2001	200	20M	3770	2		310		3150											
2501	160	25M	3350	2		400		2550											
2002	160	20M	1410	2		310		1100											

Release Code: R1.2 ISO FTG P#12										BENDING DETAILS.									
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'	K'	L'	M'	N'	O'
5	5	5M	6370			6370													
5	5	5M	9000			9000													
5	5	5M	4000			4000													
62	62	5M	950			950													
1	1	5M	1890			1890													
1	1	5M	1670			1670													
1	1	5M	1460			1460													
1	1	5M	1250			1250													
1	1	5M	1050			1050													
1	1	5M	2500			2500													
1	1	5M	1410			1410													
1	1	5M	1120			1120													
1	1	5M	820			820													
1	1	5M	680			680													
1	1	5M	590			590													
35	35	5M	1150			1150													
1	1	5M	730			730													
6	6	5M	1800			1800													
1	1	5M	1420			1420													
1	1	5M	1630			1630													
1	1	5M	1850			1850													
1	1	5M	1660			1660													
1	1	5M	1370			1370													
1	1	5M	1080			1080													
1	1	5M	790			790													
1	1	5M	500			500													
1	1	5M	220			220													
5	5	5M	1500			1500													
1003	132	10M	1130	2		180		950											
1575	30	10M	2800	T1		100		750											
1576	1	5M	6000	3				5350		650									
1574	1	5M	5930	3				5280		650									
1573	1	5M	5850	3				5200		650									
1572	1	5M	5770	3				5120		650									
1504	13	5M	6670	2		260		6750											
1505	124	5M	1430	17				850		580									
1570	1	5M	3690	3				1620		2070									
2501	140	25M	3350	2		400		2550											
2002	140	20M	1410	2		310		1100											
1506	1	5M	6080	3				5430		650									
1507	1	5M	5810	3				2420		2590									
1508	1	5M	4570	3				2150		2420									
1509	1	5M	4130	3				1890		2240									
1511	1	5M	3250	3				1350		1900									
1516	42	5M	1100	2		260		850											
2001	182	20M	3770	2		310		3150											
2003	10	20M	1860	2		310		850											
1501	24	5M	3720	2		260		3200											



NOTES

- ALL STEEL TO BE GRADE 400W
- STRENGTH OF CONCRETE
35MPa - FOOTINGS
35MPa - INTERIOR COLUMNS & WALLS
- CONCRETE COVER:
FTG., FND. CAST AGAINST EARTH --- 75mm
TIES --- 30mm

4. COMPRESSION LAP SPLICE

BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

5. TENSION LAP SPLICE (L_s) & DEVELOPMENT LENGTH (L_d) (FOR WALL OR COL. & LD IN CAP OR FTG.)

BAR SIZE	f _c =25	f _c =30	f _c =35
	L _s	L _s	L _s
10M	490	380	450
15M	740	570	670
20M	980	750	890
25M	1530	1170	1390
30M	1830	1410	1670
35M	2130	1640	1950

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- ALL CONFIRMS/VERIFIES WILL BE ASSUMED CORRECT AND APPROVED AS IS UNLESS COMMENTED ON THE APPROVAL DRWGS

LEGEND	STRAIGHT BARS LABEL FORMAT	BENT BARS LABEL FORMAT	GRADES OF STEEL
ALT = ALTERNATE BOT = BOTTOM BIS = BEND INTO SLAB CB = CORNER BAR CJS = CUT TO SUIT SITE COND. DWL = DOWELS EF = EACH FACE EJ = EXPANSION JOINT ES = EACH SIDE FW = EACH WAY	7 B15M X 3600 GRADE QUANTITY	7 B15M B1501 SIZE - BAR MARK QUANTITY	B = GRADE 400W C = GRADE 500W S = STAINLESS W = WELEABLE

FOR APPROVAL	REMARKS	DATE	BY
0		APR/12/21	JU
ISSUE			

MANSTEEL
REBAR

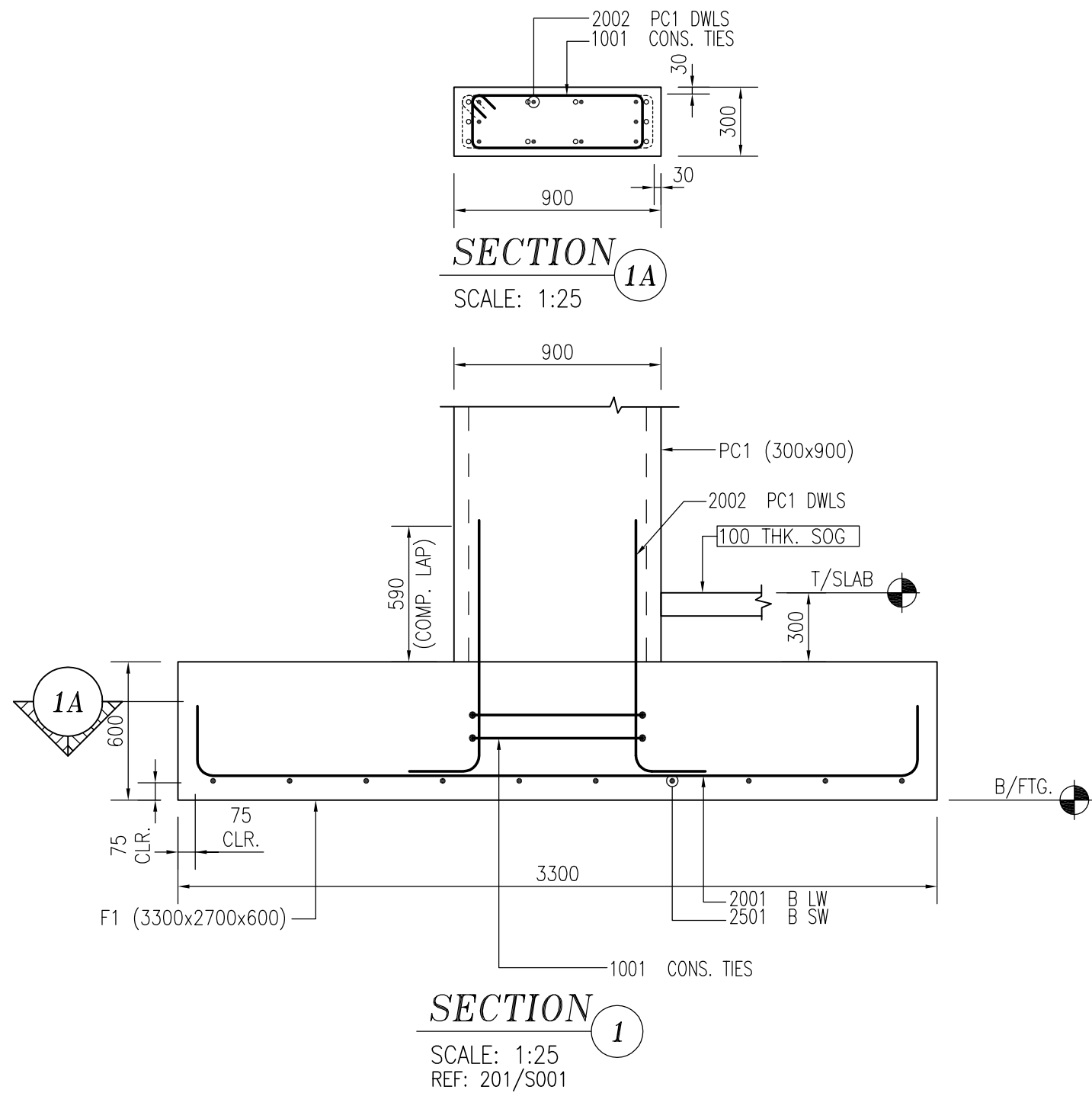
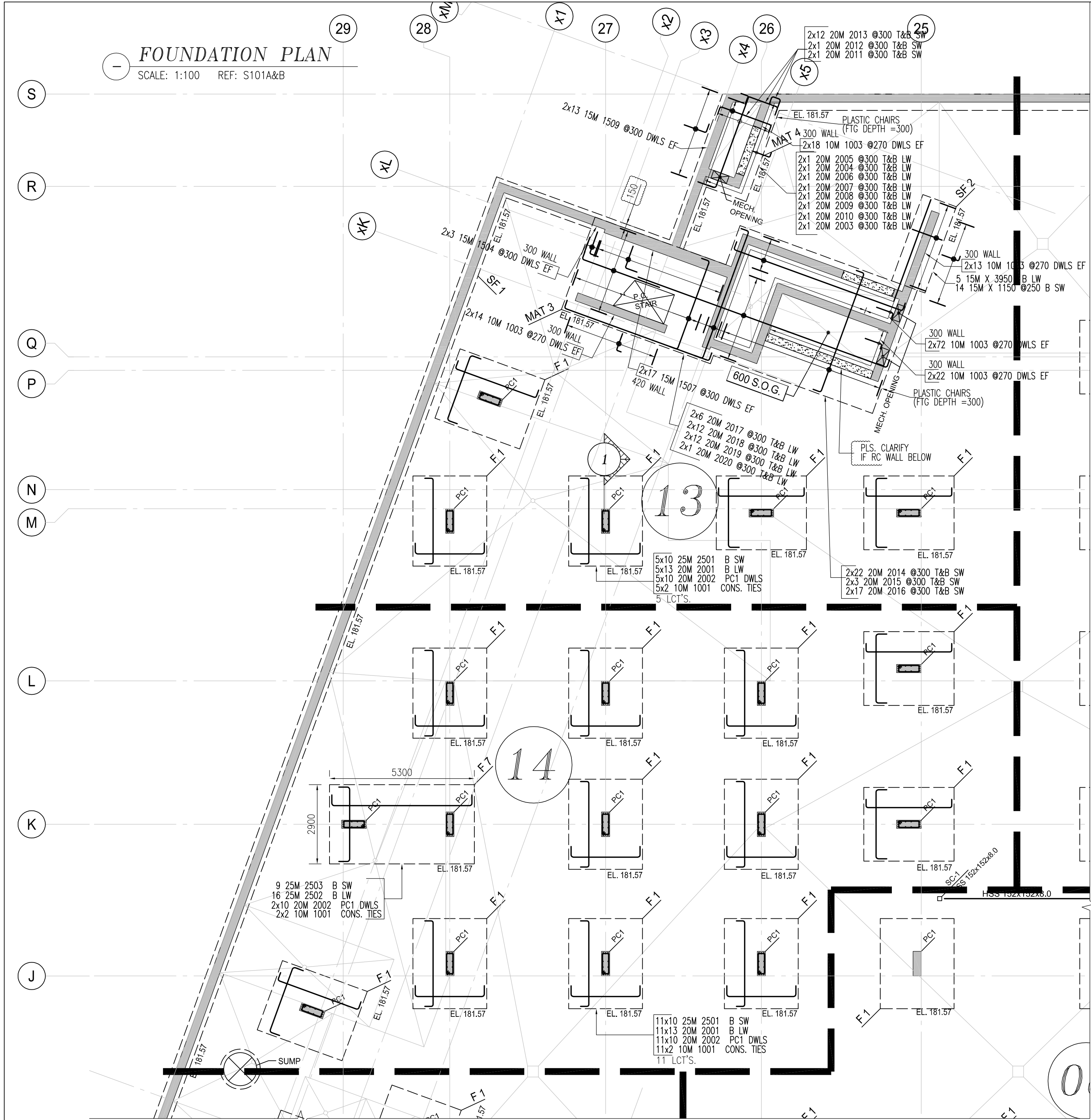
MANSTEEL REBAR
105 Industrial Road, Richmond Hill,
Ontario L4C 2Y4 Canada
Phone: 905-737-9797
Fax: 905-737-9704
Email: Info@mansteelrebar.com

FORESTSIDE TOWNHOUSES
-BRAMPTON, ON

ISOLATED FOOTINGS P#11,12

CUSTOMER :
ROYAL PINE HOMES

Project no. 2177
SCALE: AS SHOWN
DRAWING No.
R1.5



NOTES

1. ALL STEEL TO BE GRADE 400W
2. STRENGTH OF CONCRETE
35MPa - FOOTINGS
35MPa - INTERIOR COLUMNS & WALLS

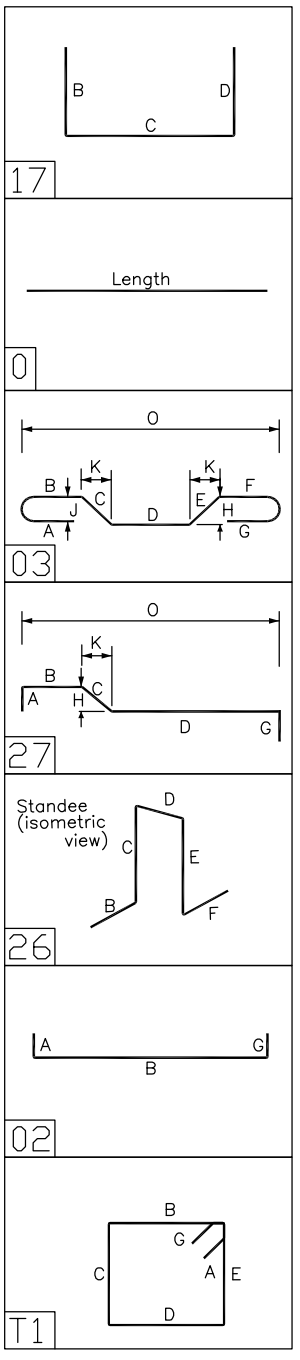
3. CONCRETE COVER:
FTG., FND. CAST AGAINST EARTH --- 75mm
TIES --- 30mm

4. COMPRESSION LAP SPLICE

BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

5. TENSION LAP SPLICE (L.S.) & DEVELOPMENT LENGTH (Ld)
(FOR WALL OR COL & LD IN CAP OR FTG.)

BAR SIZE	fc=25	fc=30	fc=35
	L.S.	L.S.	L.S.
10M	490	380	420
15M	740	570	620
20M	980	750	830
25M	1530	1170	1290
30M	1830	1410	1550
35M	2130	1640	1800



Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'	K'	L'	M'
1003	278	10M	830	2													
1001	10	10M	280	11													
2004	2	20M	4520	2													
2006	2	20M	4410	2													
2007	2	20M	4310	2													
2008	2	20M	4210	2													
2009	2	20M	4110	2													
2010	2	20M	4010	2													
2003	2	20M	3910	2													
2011	2	20M	970	2													
2012	2	20M	1800	2													
2013	24	20M	2620	2													
2002	50	20M	1410	2													
2001	65	20M	3770	2													
2501	50	25M	3350	2													
1507	34	15M	1310	11													
1504	6	15M	1180	11													
2005	2	20M	4620	2													
1509	26	15M	1190	11													
2014	44	20M	5270	2													
2015	6	20M	5590	2													
2016	34	20M	4070	2													
2017	12	20M	7200	2													
2018	24	20M	10000	2													
2019	24	20M	3330	2													
2020	2	20M	6270	2													

Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'	K'	L'	M'
1001	26	10M	2180	11													
2002	130	20M	1410	2													
2501	110	25M	3350	2													
2503	9	25M	5950	2													
2001	143	20M	3770	2													
2502	16	25M	3550	2													

DRAWING REVIEW

This review of this drawing does not in any way relieve the contractor of responsibility for its accuracy or for compliance with the contract documents.

☒ No comment	See comment
☐ Amend & Resubmit	Rejected See Remarks

Submission No. 19066
Project No. AF
Date 13 Apr 2021
JABLONSKY, AST AND PARTNERS
Consulting Engineers
3 Concorde Gate, North York, ON M3C 4H6

* ELEVATIONS AND DIMENSIONS SHOWN ARE FOR VERIFICATION PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION

* ALL CONFIRMS/VERIFIES WILL BE ASSUMED CORRECT AND APPROVED AS IS UNLESS COMMENTED ON THE APPROVAL DRWGS

LEGEND

ALT = ALTERNATE	FF = FAR FACE	OF = OUTSIDE FACE
BOT = BOTTOM	FS = FORM SAVER	SC = SAW CUT END
BIS = BEND INTO SLAB	GID = GROUT 'N DOWELS	STG = STAGGER
CB = CORNER BAR	H = HORIZONTAL	STR = STRIPS
CJS = CONTROL JOINT	IF = INSIDE FACE	T = TOP
CUT = CUT TO SUIT SITE COND.	LL = LOWER LAYER	THR/2 = THREAD LENG
DWL = DOWELS	MD = MIDDLE	THR/2 = THREAD ZENOS
EL = EACH END	MIN = MINIMUM	UL = UPPER LAYER
EF = EACH FACE	NF = NEAR FACE	UNLESS NOTED
EJ = EXPANSION JOINT	OC = ON CENTER	V = VERTICAL
ES = EACH SIDE	TT = TIE	TT = TIE
FW = EACH WAY		

STRAIGHT BARS LABEL FORMAT

7 B15M X 3600	7 B15M B1501
GRADE	SIZE - BAR MARK
QUANTITY	QUANTITY

GRADES OF STEEL

B = GRADE 400	C = GRADE 500
F = F500	G = F600
S = STAINLESS	W = WELDABLE

FOR APPROVAL

APR/12/21

JU

ISSUE

REMARKS

DATE

BY

MANSTEEL

REBAR

MANSTEEL REBAR

105 Industrial Road, Richmond Hill, Ontario L4C 2Y4 Canada
Phone: 905-737-9797
Fax: 905-737-9704
Email: info@mansteelrebar.com

PROJECT

FORESTSIDE TOWNHOUSES -BRAMPTON, ON

PART OF STRUCTURE

ISOLATED FOOTINGS P#13,14

CUSTOMER :

ROYAL PINE HOMES

DETAILED BY: JU

CHECKED BY:

Bar List No.

Project no. 2177

SCALE: AS SHOWN

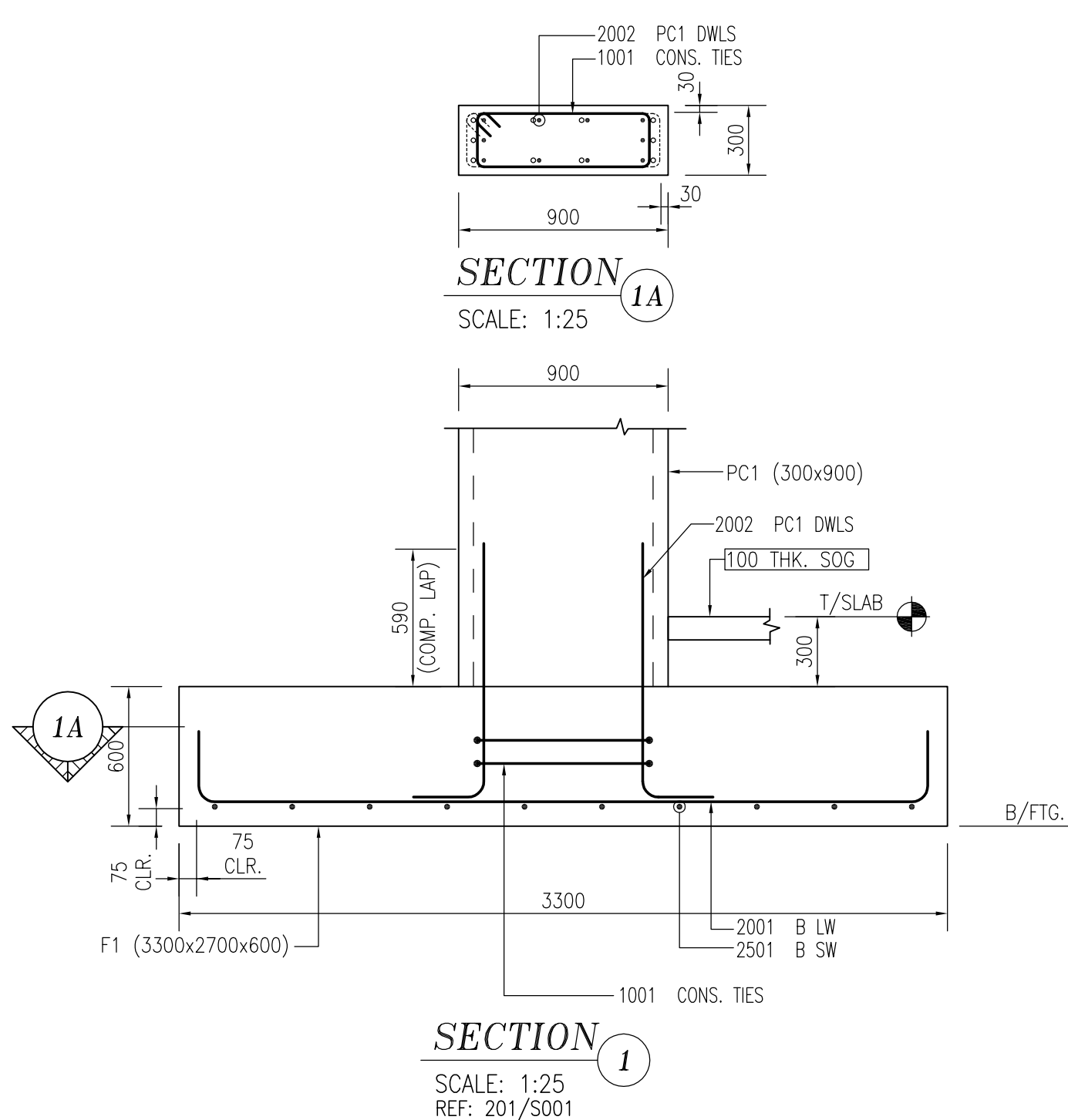
DRAWING No.

R1.6

0



FOUNDATION PLAN
SCALE: 1:100 REF: S101A&B



SECTION 1A
SCALE: 1:25

SECTION 1
SCALE: 1:25
REF: 201/5001

NOTES

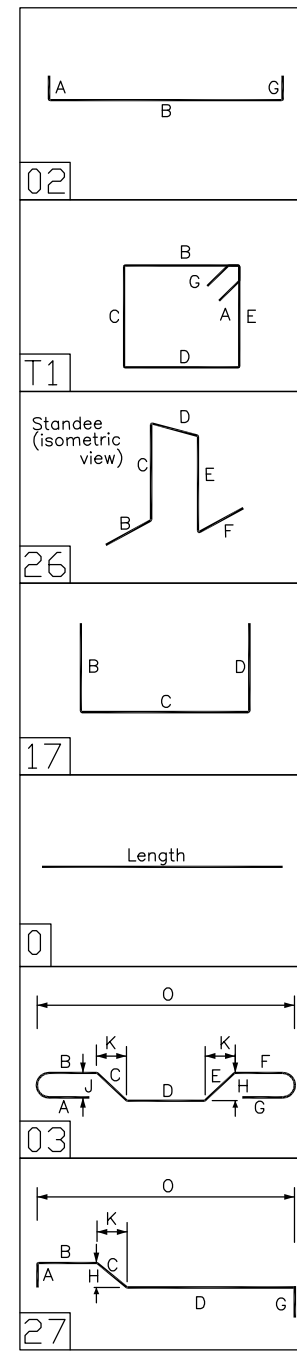
1. ALL STEEL TO BE GRADE 400W
2. STRENGTH OF CONCRETE
35MPa - FOOTINGS
35MPa - INTERIOR COLUMNS & WALLS
3. CONCRETE COVER:
FTG., FND. CAST AGAINST EARTH --- 75mm
TIES --- 30mm

4. COMPRESSION LAP SPLICE

BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

5. TENSION LAP SPLICE (L_s) & DEVELOPMENT LENGTH (L_d)
(FOR WALL OR COL & L_d IN CAP OR FTG.)

BAR SIZE	f _c =25		f _c =30		f _c =35	
	L.S	L.d	L.S	L.d	L.S	L.d
10M	490	380	450	350	420	320
15M	740	570	670	520	620	480
20M	980	750	890	690	830	640
25M	1530	1170	1390	1070	1290	990
30M	1830	1410	1670	1290	1550	1190
35M	2130	1640	1950	1500	1800	1390



Release Code: R1.2 ISO FTG P#15					BENDING DETAILS.												
Bar Mark	Qty	Size	Total length	Type	'a'	'b'	'c'	'd'	'e'	'f'	'g'	'h'	'i'	'j'	'k'	'l'	'm'
1001	22	10M	2180	T1	100	750	240	750	240			100					
1002	70	10M	1130	2	180	950											
1501	12	15M	3570	2	260	3650						260					
1502	15	15M	4170	2	260	3650						260					
2001	91	20M	3770	2	310	3750						310					
2002	110	20M	1410	2	310	1100											
2502	32	25M	3550	2	400	2750						400					
2503	18	25M	5950	2	400	5750						400					
2501	70	25M	3350	2	400	2550						400					

Release Code: R1.2 ISO FTG P#16														BENDING DETAILS.									
Bar Mark	Qty	Size	Total	length	Type	'a'	'b'	'c'	'd'	'e'	'f'	'g'	'h'	'i'	'j'	'k'	'l'	'm'	'n'				
1001	34	10M	2180	11		100	750	240	750	240			100										
1503	27	15M	1700	26			400	350	200	350	400												
1002	78	10M	1130	2		180	950																
2505	26	25M	11670	2		400	10870						400										
2502	16	25M	3550	2		400	2750						400										
2506	1	25M	3370	27		400	700	170	1700				400	70			150	2550					
2507	1	25M	3370	27		400	1050	170	1550				400	70			150	2550					
2508	1	25M	3370	27		400	2000	170	400				400	70			150	2550					
2501	157	25M	3350	2		400	2550						400										
2001	199	20M	3770	2		310	3750						310										
2509	4	25M	3970	27		400	2000	220	950				400	100			200	3150					
2510	5	25M	3950	27		400	2180	220	750				400	100			200	3150					
1506	34	15M	1390	T1			540	850															
1508	12	15M	1480	T1			330	1150															
1505	36	15M	1510	T1			660	850															
2503	9	25M	5950	2		400	5750						400										
2002	170	20M	1410	2		310	1100																
2504	76	25M	4350	2		400	3550						400										

DRAWING REVIEW

This review of this drawing does not in any way relieve the contractor of responsibility for its accuracy or for compliance with the contract documents.

No comment	See comment
Amend & Resubmit	Rejected
	See Remarks

Submission No. 19066
Project No. 19066
By: AF
Date: 13 Apr 2021

JABLONSKY, AST AND PARTNERS
Consulting Engineers
3 Concorde Gate, North York, ON M3C 4H8

* ELEVATIONS AND DIMENSIONS SHOWN ARE FOR VERIFICATION PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION

* ALL CONFIRMS/VERIFIES WILL BE ASSUMED CORRECT AND APPROVED AS IS UNLESS COMMENTED ON THE APPROVAL DRWG

LEGEND		
ALT = ALTERNATE	FF = FAR FACE	OF = OUTSIDE FACE
BOT = BOTTOM	FS = FORM SAVER	SC = SAW CUT FACE
BIS = BEND INTO SLAB	GID = GROUT IN DOWELS	STG = STAGGER
CB = CORNER BAR	H = HORIZONTAL	STR = STRIPS
CJ = CONTROL JOINT	IF = INSIDE FACE	T = TOP
CS = CUT TO SUIT SITE COND.	LL = LOWER LAYER	THR/2 = THREAD END
DWL = DOWELS	MD = MIDDLE	THR/2 = THREAD ZENDS
EE = EACH END	MIN = MINIMUM	UL = UPPER LAYER
EF = EACH FACE	NF = NEAR FACE	UN = UNLESS NOTED
EJ = EXPANSION JOINT	OC = ON CENTER	V = VERTICAL
ES = EACH SIDE	TT = TIE	W = WELDABLE
FW = EACH WAY		

STRAIGHT BARS LABEL FORMAT

7 B15M X 3600
GRADE
QUANTITY
LENGTH

BENT BARS LABEL FORMAT

7 B15M B1501
GRADE
QUANTITY
SIZE - BAR MARK

GRADES OF STEEL

B = GRADE 400W
C = GRADE 500W
D = GRADE 600W
S = STAINLESS
W = WELDABLE

FOR APPROVAL

ISSUE

REMARKS

DATE

BY

MANSTEEL REBAR

105 Industrial Road, Richmond Hill, Ontario L4C 2Y4 Canada
Phone: 905-737-9797
Fax: 905-737-9704
Email: info@mansteelrebar.com

PROJECT

FORESTSIDE TOWNHOUSES

-BRAMPTON, ON

PART OF STRUCTURE

ISOLATED FOOTINGS P#15,16

CUSTOMER :

ROYAL PINE HOMES

DETAILED BY: JU

CHECKED BY:

BAR LIST No.

Project no. 2177

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