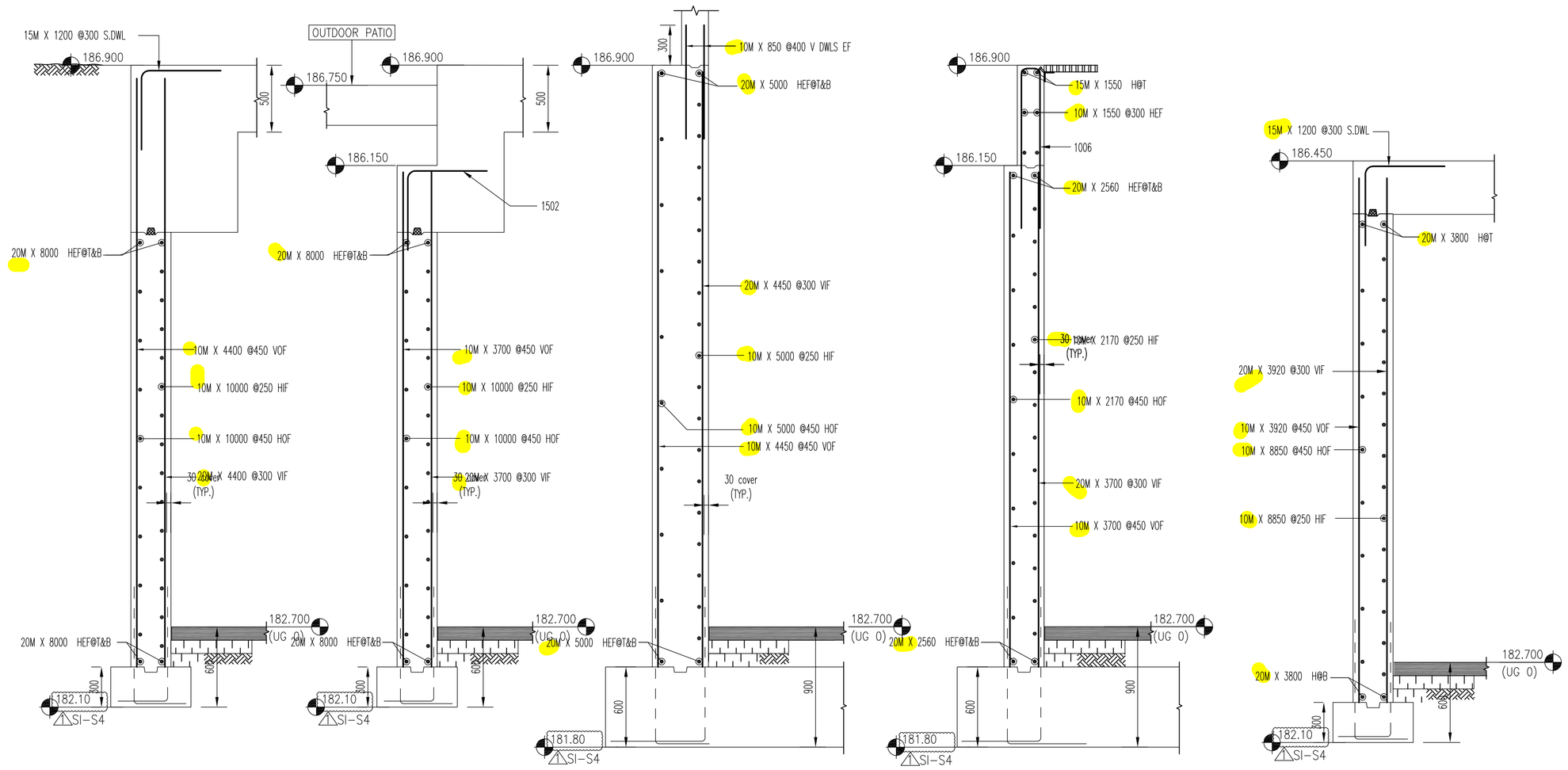
1 EXTERNAL WALL PLAN
SCALE: 1:100 (POUR-16)



1 SECTION SCALE: 1:25
2 SECTION SCALE: 1:25
3 SECTION SCALE: 1:25
4 SECTION SCALE: 1:25
5 SECTION SCALE: 1:25

NOTES

1. ALL STEEL TO BE GRADE 400W
2. STRENGTH OF CONCRETE
   35MPa – INTERIOR COLUMNS & WALLS
3. CONCRETE COVER:
   VERTICALS -- 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.)

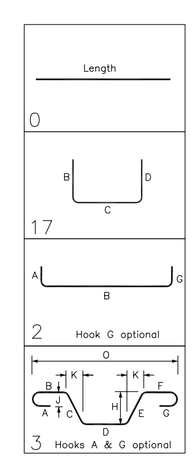
BAR SIZE	fc=25		fc=30		fc=35	
	L.S	L.d	L.S	L.d	L.S	L.d
10M	490	380	450	350	420	320
15M	740	570	670	520	620	480
20M	980	750	890	690	830	640
25M	1530	1170	1390	1070	1290	990
30M	1830	1410	1670	1290	1550	1190
35M	2130	1640	1950	1500	1800	1390

Release Code: R-4.8 WALLS FDN TO L1 P#16 BENDING DETAILS.

Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
	4	20M	2560			2560										
	25	10M	2170			2170										
	4	20M	5140			5140										
	25	10M	4850			4850										
	20	20M	4450			4450										
	14	10M	4450			4450										
	53	20M	3700			3700										
	36	10M	3700			3700										
	13	20M	3950			3950										
	9	10M	3950			3950										
	25	10M	12000			12000										
	8	20M	9000			9000										
	25	10M	8850			8850										
	62	20M	3920			3920										
	42	10M	3920			3920										
	12	20M	4220			4220										
	9	10M	4220			4220										
	54	10M	10000			10000										
	8	20M	8000			8000										
	25	10M	3650			3650										
	4	20M	8450			8450										
	33	10M	4400			4400										
	45	20M	4400			4400										
	4	20M	5900			5900										
	29	10M	4700			4700										
	16	10M	850			850										
	4	20M	3800			3800										
	4	20M	5000			5000										
	2	15M	1550			1550										
	4	10M	1550			1550										
	5	20M	4700			4700										
	31	10M	5000			5000										
1003	16	10M	1285	3		780	505					680		165	940	
1001	64	10M	630	2	180	450										
1002	37	10M	840	17		420	420									
1004	9	10M	1105	3		840	265					255		80	920	

Release Code: R-4.8 WALLS FDN TO L1 P#16 BENDING DETAILS.

Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
1005	9	10M	770	3		455	315					300		100	555	
1006	7	10M	2550	17		1200	150	1200								
1007	4	10M	1130	17		500	130	500								
2006	4	20M	1740	3		640	1100					800		755	1395	
2003	2	20M	1635	3		855	780					740		250	1105	
2004	2	20M	1125	3		855	270					260		75	930	
2005	2	20M	1160	3		840	320					395		90	930	
1502	173	15M	1200	17		600	600									
2001	6	20M	1660	17		830	830									
2002	8	20M	1140	2	310	830										
1503	2	15M	1530	17		700	130	700								
1501	20	15M	1630	17		600	600	430								



- 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
BTS =	BEND INTO SLAB	GO =	GROUT IN DOWELS	STG =	STAGGER
CB =	CORNER BAR	H =	HORIZONTAL	STIR =	STIRRUPS
CJ =	CONTROL JOINT	IF =	INSIDE FACE	T =	TOP
CTS =	CUT TO SUIT SITE COND.	LL =	LOWER LAYER	THR/1=	THREAD 1END
DWL =	DOWELS	MID =	MIDDLE	THR/2=	THREAD 2ENDS
EE =	EACH END	MIN =	MINIMUM	UL =	UPPER LAYER
EF =	EACH FACE	NF =	NEAR FACE	u/n =	UNLESS NOTED
EJ =	EXPANSION JOINT	OC =	ON CENTER	V =	VERTICAL
ES =	EACH SIDE			TT =	TEMP. TIES
EW =	EACH WAY				

STRAIGHT BARS LABEL FORMAT: 7 B15M X 3600 (SPACE, QUANTITY, LENGTH)

BENT BARS LABEL FORMAT: 7 B15M B1501 (SPACE, QUANTITY, SIZE, BAR MARK)

GRADES OF STEEL

B =	GRADE-400B
E =	EPOXY COATED
STP =	STAMP
G =	GALVANIZED
UNCOATED =	UNCOATED
W =	WELDABLE

ISSUE	REMARKS	DATE	BY
1	REV. PER COMM.(&SI-S4) FOR FAB.	SEP/09/21	JJ
0	FOR APPROVAL	MAY/17/21	JJ

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.
Project No. 19066
By MB
Date 10 Sep 2021

JABLONSKY, AST AND PARTNERS
Consulting Engineers
1129 Leslie Street Don Mills, Ont. M3C 2K5

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
EXTERIOR WALLS FTG-GF -P#16

CUSTOMER :
ROYAL PINE HOMES

Project no. 2177
SCALE: AS SHOWN
DRAWING No. R4.8 1

DETAILED BY: JJ
BAR LIST No.
CHECKED BY: