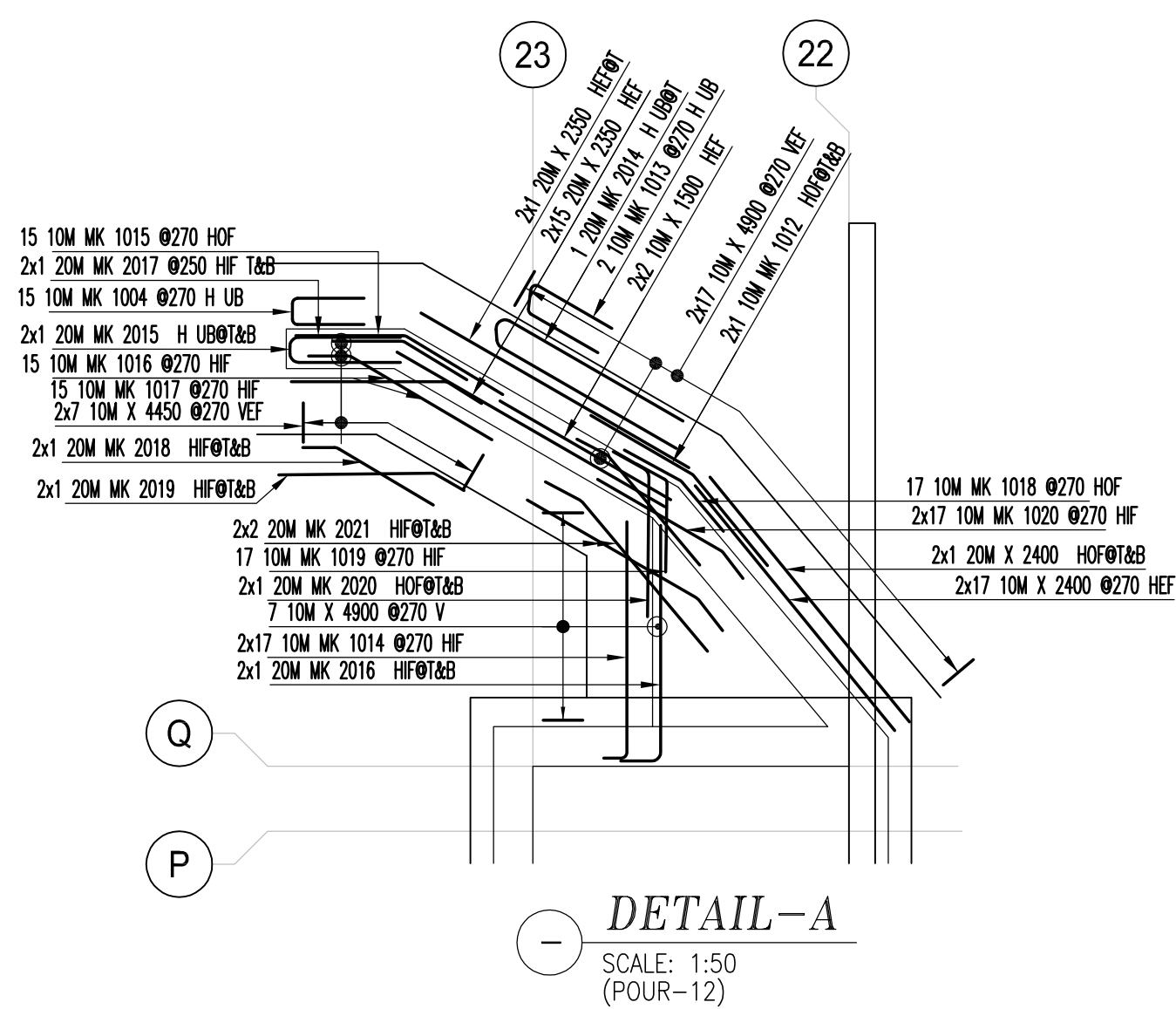
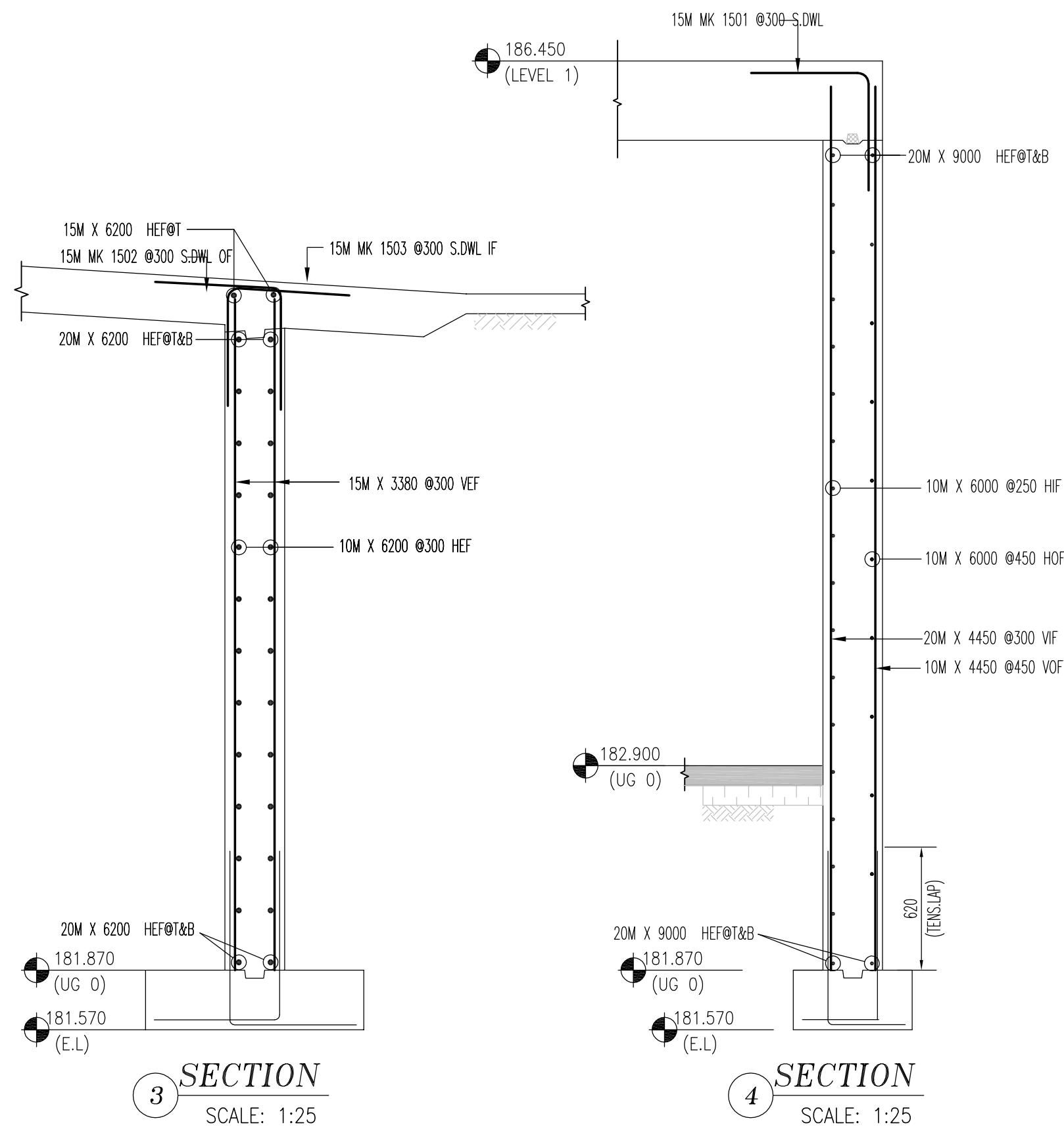
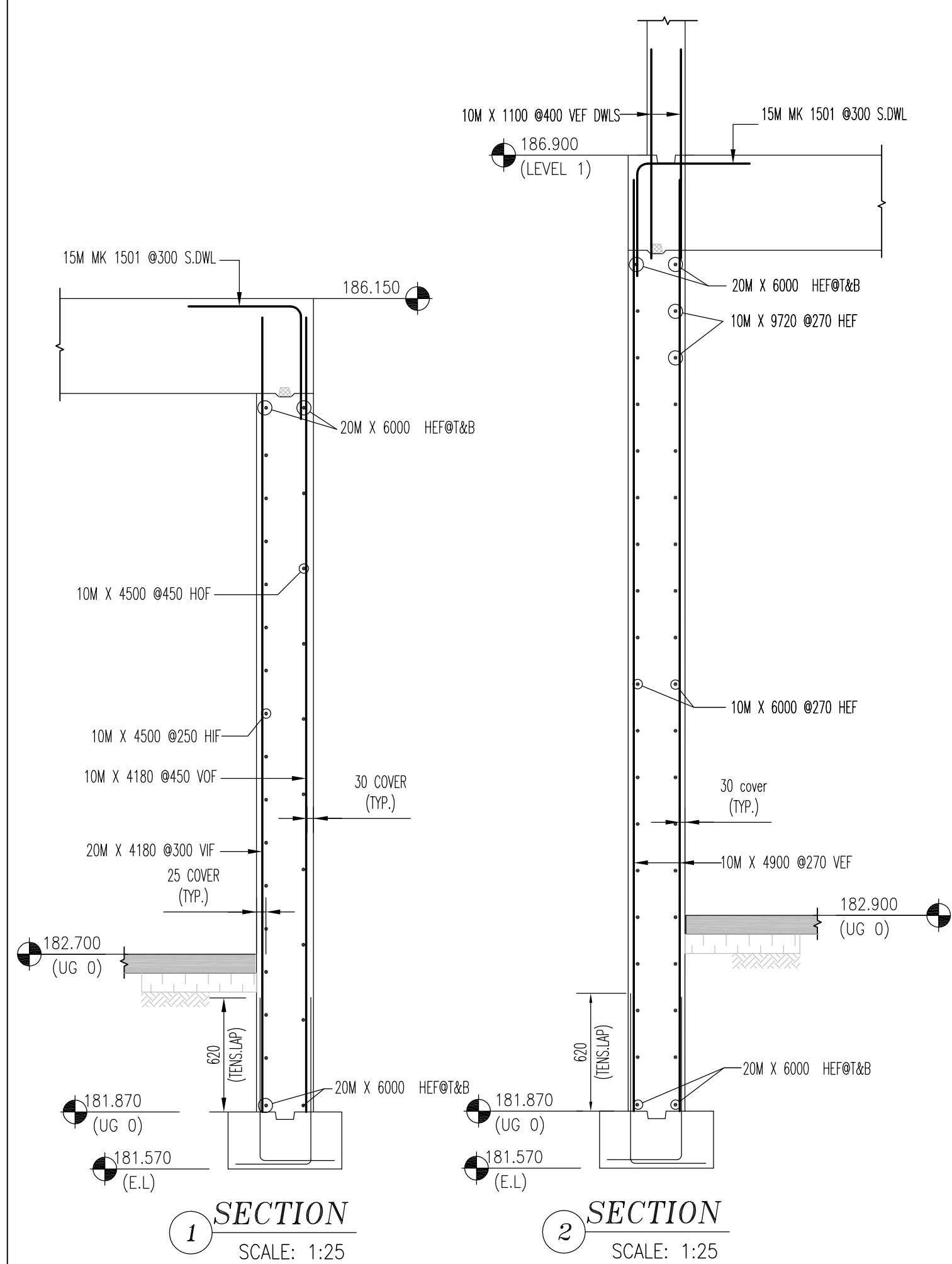
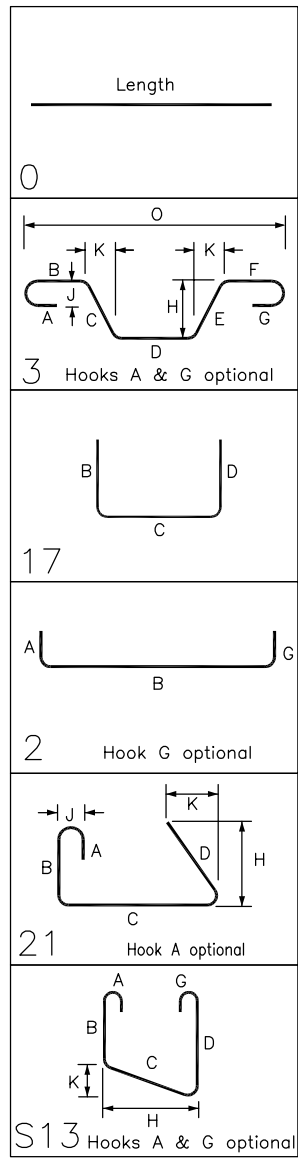


EXTERNAL WALL PLAN
SCALE: 1:100 (POUR-12)



DETAIL-A
SCALE: 1:50 (POUR-12)

Release Code: R4.5 WALLS F-GF P#12 BENDING DETAILS.																
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
	4	20M	1600				1600									
	32	10M	1000				1000									
	8	20M	4600				4600									
	28	20M	4180				4180									
	19	10M	4180				4180									
	78	10M	6000				6000									
	15	20M	4580				4580									
	8	20M	2370				2370									
	68	20M	4450				4450									
	62	10M	4450				4450									
	12	20M	6000				6000									
	24	10M	4900				4900									
	4	20M	9000				9000									
	4	20M	1800				1800									
	80	10M	1100				1100									
	19	10M	4580				4580									
	4	10M	1700				1700									
	22	10M	1000				1000									
	2	15M	1300				1300									
	4	10M	2370				2370									
	4	20M	6200				6200									
	2	15M	6200				6200									
	52	10M	6200				6200									
	42	15M	3380				3380									
	50	10M	650				650									
	4	10M	9720				9720									
	8	20M	2900				2900									
	17	10M	870				870									
	13	10M	850				850									
	34	10M	2400				2400									
	62	10M	2900				2900									
	4	20M	5680				5680									
	34	10M	5680				5680									
	34	10M	4220				4220									
	4	20M	4220				4220									
	2	20M	2640				2640									
	2	20M	2400				2400									
	32	20M	2350				2350									
	16	10M	4370				4370									
	9	10M	8000				8000									
	4	20M	2430				2430									
	25	10M	2430				2430									
	4	20M	2300				2300									
	25	10M	2300				2300									
	23	10M	4500				4500									
1007	25	10M	1030	3			520	510					100		500	1020
1006	9	10M	970	3			500	470					95		460	965
1004	56	10M	1310	17			550	210	550							
1014	34	10M	1980	2	180		1800									
1002	42	10M	840	17			420	420								
1003	133	10M	630	2	180		450									
1005	9	10M	995	3			520	475					170		440	965
1010	23	10M	790	3			505	285					190		210	715
1016	15	10M	1570	3			375	1255					635		1080	1395
1015	15	10M	1080	3			535	565					295		485	1020
1013	2	10M	1575	5			615	245	715				225		95	225
1014	1	20M	3520	5			875	275	1670				225		155	225
1012	2	10M	1790	3			895	895					315		840	1735
1020	34	10M	1355	3			1095	260					100		240	1335
1018	17	10M	990	3			495	495					180		460	960
1019	17	10M	965	3			265	700					620		325	590
1011	32	10M	1340	3			1080	260					100		240	1320
1009	17	10M	910	3			455	455					300		340	795
1017	15	10M	1500	3			1185	315					165		265	1450
1008	15	10M	775	3			515	260					175		195	710
1001	15	10M	1055	3			550	505					100		495	1045
2002	8	20M	2110	17			950	210	950							
2012	4	20M	1215	3			905	310					215		225	1130
2001	2	20M	1805	3			900	905					175		885	1785
2005	2	20M	1805	3			900	905					325		840	1740
2004	16	20M	1140	2	310		830									
2015	2	20M	1910	17			850	210	850							
2003	6	20M	1660	17			830	830								
1503	21	15M	1260	3			620	640					640		30	650
2016	2	20M	2110	2	310		1800									
2018	2	20M	1120	3			265	855					435		735	995
1502	21	15M	1220	21			600		620				620		35	
2010	2	20M	1810	3			905	905					595		680	1585
2011	2	20M	1550	3			175	1375					890		1045	1220
1501	153	15M	1200	17			600	600								
2019	2	20M	1450	3			265	1185					600		1020	1280
2013	4	20M	1690	3			1380	310					115		290	1670
2008	2	20M	1225	3			915	310					215		225	1140
2007	2	20M	1760	3			905	855					170		840	1740
2021	4	20M	1805	3			1495	310					115		290	1785
2017	2	20M	1700	3			835	865					450		740	1580
2009	1	20M	1160	2	310		850									
2020	2	20M	1425	3			315	1110					975		525	845
2006	4	20M	1815	3			905	910					180		895	1795



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. A1	
Date 14 May 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	FF = FAR FACE	OF = OUTSIDE FACE
ALT = ALTERNATE	FS = FORM SAKER	SC = SAW CUT END
BOT = BOTTOM	GID = GROUT IN DOWELS	STG = STAGGER
CB = CORNER BAR	H = HORIZONTAL	STR = STRIPS
CCJ = CONTROL JOINT	IF = INSIDE FACE	T = TOP
CCJ = CUT TO SUIT SITE COND.	LL = LOWER LAYER	THR/2 = THREAD LEND
DL = DOWELS	MD = MIDDLE	THR/2 = THREAD ZENOS
EE = EACH END	MIN = MINIMUM	UL = UPPER LAYER
EF = EACH FACE	NF = NEAR FACE	W/P = GALVANIZED
EJ = EXPANSION JOINT	OC = ON CENTER	V = VERTICAL
ES = EACH SIDE		TT = TEMPL. TIES
EW = EACH WAY		
STRAIGHT BARS LABEL FORMAT	BENT BARS LABEL FORMAT	GRADES OF STEEL
7 B15M X 3600	7 B15M B1501	B = GRADE 400
QUANTITY	SIZE = BAR MARK	C = CRACK COATED
		D = DEFORMED
		S = STAINLESS
		W = WELDABLE

FOR APPROVAL	MAY/11/21	JU
ISSUE	REMARKS	DATE
MANSTEEL REBAR	MANSTEEL REBAR	
PROJECT		
FORESTSIDE TOWNHOUSES -BRAMPTON, ON		
PART OF STRUCTURE		
EXTERIOR WALLS FTG-GF -P#12		
CUSTOMER :	Project no. 2177	
ROYAL PINE HOMES	SCALE AS SHOWN	
DETAILED BY: JU	DRAWING No.	
CHECKED BY:	BAR LIST No.	
		R4.5

NOTES

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

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 (Ls) & 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