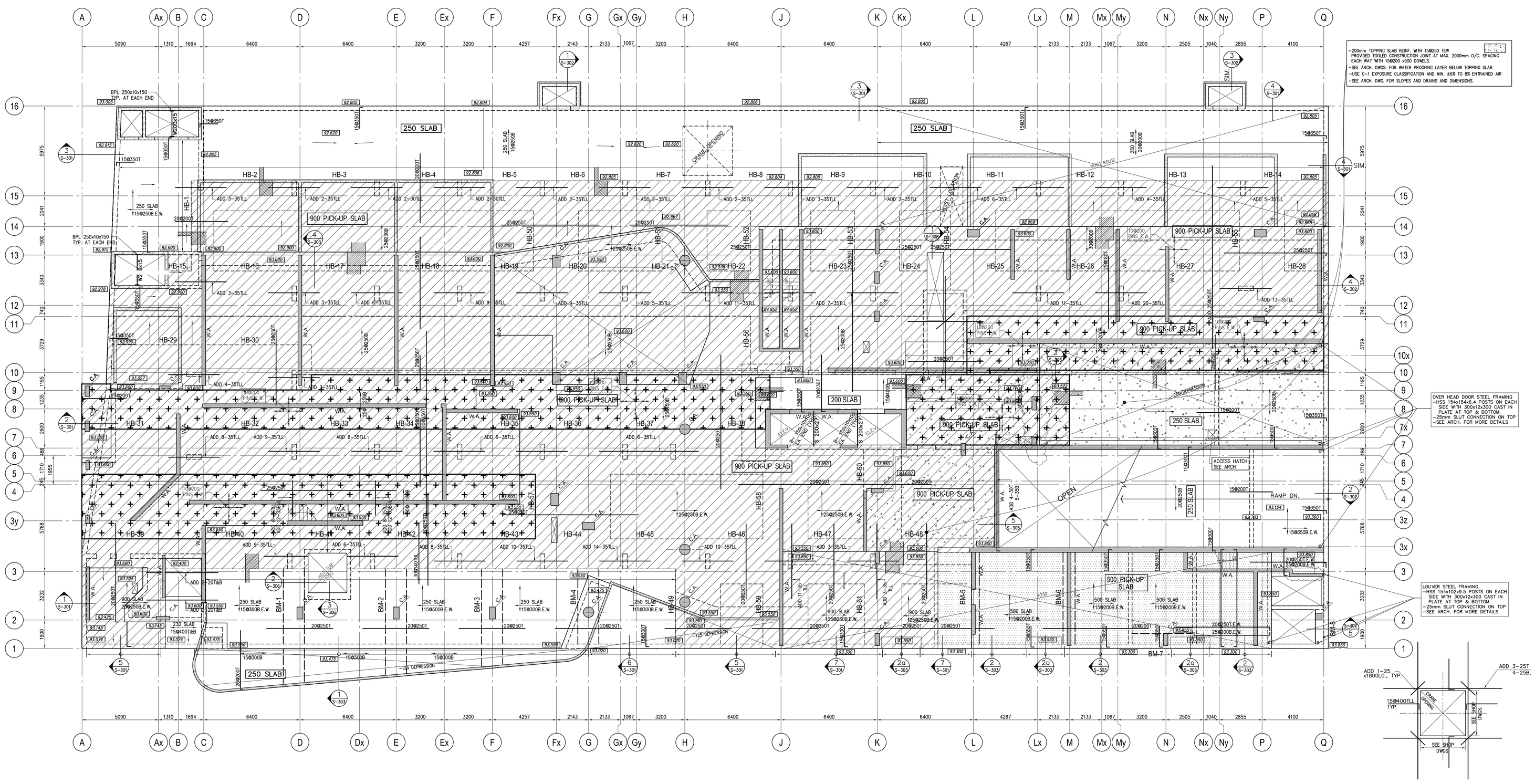

CRANE OPENING REINF.

FOR ADDITIONAL REINFORCING SEE TYPICAL DETAILS

GROUND FLOOR FRAMING PLAN

SCALE 1 : 100

1. TOP OF ROUGH SLAB IS 0mm BELOW FINISHED FLOOR AT ELEVATION 93.60 EXCEPT AS CROSSED AND NOTED ON PLAN.
2. FLOOR SLABS ARE DESIGNED FOR FOLLOWING LOADING CONDITIONS :

	S.I.D.	L.L.
RESIDENTIAL AREAS	1.30 KPa	1.90 KPa
STAIRS & BALCONIES	0.50 KPa	4.80 KPa
LOCKERS & STORAGE	1.30 KPa	4.80 KPa
CAR PARKING & RAMPS	0.60 KPa	2.40 KPa
OFFICE AREAS	2.30 KPa	4.80 KPa
TOILETS	1.30 KPa	2.40 KPa
RETAIL	2.30 KPa	9.60 KPa
DRIVEWAYS AND SIDEWALKS OVER BASEMEMNTS	MIN. 8.0 KPa	14.0 KPa
DRIVEWAYS AND SIDEWALKS OVER BASEMEMNTS	8.0 KPa	P=54KN *
GARBAGE STORAGE	0.60 KPa	7.20 KPa

* APLICABLE FOR FLOOR USED BY VEHICLES EXCEEDING 9000 Kg GROSS WEIGHT.

3. CONCRETE STRENGTH AT 28 DAYS SHALL BE 35 MPa AND CONCRETE STRENGTH AT 28 DAYS SHALL BE 35 MPa OUTSIDE FOOTPRINT OF TOWER AND OR EXPOSED TO DE-ICING CHEMICALS AND SHALL BE PROPORTIONED FOR C-1 EXPOSURE CLASSIFICATION AND HAVE MIN. ±6% TO 8% ENTRAINED AIR, WITH APPROVED CORROSION INHIBITOR ADDED AT A MINIMUM RATE OF 10.0 LITRES PER 1.0 CUBIC METRE OF CONCRETE.
   CONCRETE STRENGTH AT 28 DAYS FOR ALL PICK UP SLABS & BEAMS SHALL BE 45 MPa U/N.
4. MINIMUM YIELD STRESS FOR REINFORCING STEEL SHALL BE 400 MPa.
5. TEMPERATURE REINFORCING FOR : 250 SLAB IS 15@400
   500 SLAB IS 15@200
   900 SLAB IS 25@275
6. NO OPENINGS LARGER THAN 300x300 ARE ALLOWED IN SLAB OTHER THAN THOSE SHOWN ON DRAWINGS.
7. PARTITION ALLOWANCE IN RETAIL AREAS IS 2.0 kPa.
8. SEE TYPICAL PROVISION FOR P.C. STAIR AND MID-LANDING CONSTRUCTION ON DRAWING S-002.
9. MINIMUM COVER FOR REINFORCING STEEL IN PARKING SLAB SHALL BE 40mm FOR TOP BARS & 30mm FOR BOTTOM BARS.

900 PICK UP SLAB

DIRECTION OF REINFORCING OF THE SLAB
TLL & BLL
TLL & BUL

10. SEE COLUMN & WALL SCHEDULE ON DRAWINGS S-301 TO S-306.
11. SEE TYPICAL DETAILS ON DRAWINGS S-001 TO S-006.
12. SEE GENERAL NOTES ON DRAWING S-001.
13. SEE ARCH. DRAWINGS FOR EXACT FLOOR SLOPES & CURBS.
14. FOR OPENINGS EXACT LOCATION & DIMENSION SEE ARCH. DWG'S & MECH. DWG'S.
15. ALL GRATING SHALL BE DESIGN FOR LIVE LOAD OF 4.8 kPa.
16. DESIGN OF HATCHED AREA ▨ FOR GREATER VALUE OF 36,000 kg (FOR GARBAGE AND FIRE TRUCKS) OR THE CL-625 TRUCK, IN ACCORDANCE WITH FOLLOWING MINIMUM REQUIREMENTS:
    a) UNIFORM LL=12.0 kPa (OBC TABLE 4.1.5.3)
    b) CONCENTRATED LL=54.0 kN (OBC TABLE 4.1.5.10)
    c) ADDITIONAL REQUIREMENTS OF CHBDC CSA-S6

GROUND FLOOR BEAM SCHEDULE (fc'=45MPa)

MARK	WIDTH	DEPTH	REINFORCEMENT BOTTOM CONT.	BOTTOM ADDED	TOP CONT.	TOP "A"BARS	STIRRUPS SIZE	STIRRUPS TYPE	STIRRUPS SPACING EACH END	REMARKS
BM-1	1400	900	26-35 2 LAYERS		10-20		15		10@80, @160	ADD 2-15HEF
BM-2	1400	900	26-35 2 LAYERS		10-20		15		10@80, @160	ADD 2-15HEF
BM-3	1400	900	33-35 3 LAYERS		10-20		15		10@60, @125	ADD 2-15HEF
BM-4	1400	900	33-35 3 LAYERS		10-20		15		10@60, @125	ADD 2-15HEF
BM-5	800	900	7-35		5-20		15		10@175, @350	ADD 2-15HEF
BM-6	800	900	7-35		5-20		15		10@175, @350	ADD 2-15HEF
BM-7	1000	900	7-30		5-20		15		10@150, @300	ADD 2-15HEF
BM-8	850	500	7-25		4-20		10		10@150, @300	ADD 1-15HEF

GROUND FLOOR BEAM SCHEDULE (fc'=45MPa)

MARK	WIDTH	DEPTH	REINFORCEMENT BOTTOM CONT.	BOTTOM ADDED	TOP CONT.	TOP "A"HARS	STIRRUPS SIZE	STIRRUPS TYPE	STIRRUPS SPACING EACH END	REMARKS
HB-1	1500	900	10-25		8-20		15		10@200, @400	
HB-2	2000	900	14-25		10-20		15		10@200, @400	
HB-3	2000	900	14-25		10-20		15		10@200, @400	
HB-4	2000	900	14-25		10-20		15		10@200, @400	
HB-5	2000	900	14-25		10-20		15		10@200, @400	
HB-6	2000	900	14-25		10-20		15		10@200, @400	
HB-7	2000	900	14-25		10-20		15		10@200, @400	
HB-8	2000	900	14-25		10-20		15		10@200, @400	
HB-9	2000	900	14-25		10-20		15		10@200, @400	
HB-10	2000	900	14-25		10-20		15		10@200, @400	
HB-11	2000	900	16-30		10-20		15		10@120, 8@245, @350	
HB-12	2000	900	14-25		10-20		15		10@200, @400	
HB-13	2000	900	17-25		10-20		15		10@200, @400	
HB-14	2000	900	14-25		10-20		15		10@200, @400	
HB-15	3000	900	17-25		14-20					
HB-16	3000	900	17-25		14-20		15		10@75, 7@150, @400	
HB-17	3000	900	17-25		14-20		15		10@60, 9@120, @400	
HB-18	3000	900	21-25		14-20		15		10@85, 10@170, @400	
HB-19	3000	900	20-30		14-20		15		10@115, 12@230, @400	
HB-20	3000	900	17-25		14-20		15		10@55, 10@105, @400	
HB-21	3000	900	23-25		14-20		15		10@70, 12@140, @400	
HB-22	3000	900	23-25		14-20		15		10@120, 11@245, @400	
HB-23	3000	900	17-25		14-20		15		10@70, 8@140, @400	
HB-24	3000	900	17-25		14-20		15		10@50, 12@100, @350	
HB-25	3000	900	18-30		14-20		15		10@65, 13@135, @400	
HB-26	3000	900	20-25		14-25		15		10@95, 10@185, @350	
HB-27	3000	900	23-25		14-25		15		10@75, 20@150, @350	
HB-28	3000	900	17-25		14-25		15		10@120, 8@245, @350	
HB-29	3000	900	18-25		14-20		15		10@140, 7@235, @400	
HB-30	3000	900	18-25		14-20		15		10@200, @400	

GROUND FLOOR BEAM SCHEDULE (fc'=45MPa)

MARK	WIDTH	DEPTH	REINFORCEMENT BOTTOM CONT.	BOTTOM ADDED	TOP CONT.	TOP "A"HARS	STIRRUPS SIZE	STIRRUPS TYPE	STIRRUPS SPACING EACH END	REMARKS
HB-31	3000	900	17-25		14-20		15		10@115, 8@230, @350	
HB-32	3000	900	18-25		14-20		15		10@175, @350	
HB-33	3000	900	17-25		14-20		15		10@175, @350	
HB-34	3000	900	17-30		14-20		15		10@50, 17@100, @300	
HB-35	3000	900	17-25		14-20		15		10@175, @350	
HB-36	3000	900	18-30		14-30		15		10@50, 17@100, @350	
HB-37	3000	900	17-25		14-30		15		10@175, @350	
HB-38	3000	900	18-25		14-30		15		10@55, 17@110, @350	
HB-39	2000	900	15-25		12-20		15		10@200, @400	
HB-40	2000	900	15-25		12-20		15		10@200, @400	
HB-41	2000	900	15-25		12-20		15		10@70, 10@100, @300	
HB-42	2000	900	15-30		12-20		15		10@100, 9@200, @400	
HB-43	2000	900	15-30		15-25		15		10@105, 8@210, @300	
HB-44	2000	900	24-35 2 LAYERS		15-25		15		(4) 10@65, @135	
HB-45	2000	900	20-35 2 LAYERS		15-25		15		(4) 10@65, 14@130, @200	
HB-46	3000	900	14-30		15-25		15		(4) 10@50, 12@95, @250	
HB-47	3000	900	17-25		15-20		15		10@55, 10@110, @400	
HB-48	3000	900	17-25		15-20		15		10@55, 10@110, @400	
HB-49	3000	900	33-35 2 LAYERS		15-20		15		10@85, 10@175, @200	
HB-50	3000	900	36-35 2 LAYERS		15-20		15		10@75, 17@150, @330	
HB-51	3000	900	36-35 2 LAYERS		15-20		15		10@75, 17@150, @330	
HB-52	4000	900	35-30		15-20		15		10@135, 6@270, @310	
HB-53	3000	900	24-35		15-20		15		10@135, 6@270, @310	
HB-54	3000	900	24-35		15-20		15		10@135, 6@270, @310	
HB-55	3000	900	19-35		15-20		15		10@150, @300	
HB-56	4000	900	35-30		15-20		15		10@135, 6@270, @310	
HB-57	5000	900	64-35 2 LAYERS		30-25		15		(4) 10@75, 18@150, @180	
HB-58	3000	900	22-30		15-20		15		10@195, 9@195, @350	
HB-59	3000	900	22-25		15-20		15		10@195, 9@195, @350	
HB-60	2500	900	17-35		12-20		15		10@175, @330	
HB-61	2500	900	17-25		12-20		15		10@110, 5@210, @350	

Jablonsky, Ast and Partners
CONSULTING ENGINEERS
1129 LESLIE STREET
DON MILLS, ONL, M3C 2K5
TEL 416-447 7405
FAX 416-447 2771
E-mail jap@astml.on.ca

P.F. AST 13015

FIRST FLOOR ELEV. 93.60m

no.	issued / revised	date:
1	ISSUED FOR PERMIT	2014-05-30
2	RE ISSUED FOR PERMIT	2014-07-15
3	ISSUED FOR FORMING TENDER	2014-08-27
4	CONSTRUCTION REVIEW	2014-12-15
5	RE ISSUED FOR PERMIT	2015-01-27
6	ISSUED FOR CONSTRUCTION	2015-03-16
7	UPDATED - IFC	2015-04-22
8	UPDATED - IFC	2015-05-01
9	ISSUED FOR SHI	2015-07-28

ALEXANDRA PARK - BLOCK 11
TORONTO, ONTARIO

project no: 13015
scale: 1:100
drawn by: H.W.
reviewed by: H.P.
date started: MARCH 2014

GROUND FLOOR FRAMING PLAN

S-103

E:\Projects\13015-Alexandra Park\Structural\Current-Latest\S-103-GND FLR.dwg, 2015-07-29 9:20am