TORONTO Building

Toronto and East York District
100 Queen Street West
Toronto, ON M5H 2N2
Tel: 4163927539

BUILDING PERMIT

This card must be kept posted in a conspicuous place on site of construction.

15 176396 FND 00 CP

Site Address 1 EDGEWATER DR

Project Description Mixed Use/Res w Non Res;

Partial Permit - Foundation

Date Issued Thursday August 04, 2016

Ann Borooah
Chief Building Official and
Executive Director

Mario Angelucci
Deputy Chief Building Official and
Director

TORONTO Building Toronto and East York District

THIS IS YOUR PERMIT TO CONSTRUCT
PERMIT NUMBER: 15 176396 FND 00 CP

Owner:	**Address:**
AQUAVISTA BAYSIDE TORONTO	C/O JASON SHENDALE 4800 DUFFERIN ST TORONTO ON M3H 5S9

Project Description: Mixed Use/Res w Non Res; Partial Permit - Foundation

Project Location: 1 EDGEWATER DR

Ward:

The issuance of this permit is based on the drawings, specifications, details and information submitted with the application. The submitted documents have been reviewed for compliance with the Ontario Building Code, Zoning By-laws, applicable regulations and legislation.

The referenced permit number listed above and on your permit placard also appears on all plans reviewed for this building permit application. The validity of this permit is restricted to the person/company named as owner. Permit ownership cannot be transferred unless prior written authorization is given by the Chief Building Official.

The extent of construction authorized under this permit is limited to the description contained herein as follows: Conditional Permit - Part Permit - Proposal to construct a 12 storey mixed-use building with 308 dwelling units (80 affordable housing units) with 4 levels of underground parking and commercial at grade.

Stated work and use must be in accordance with the plans, specifications, building permit notes and other information issued with this building permit. Changes to any documents submitted are not to be made unless prior authorization is obtained from the Chief Building Official or designate. False information may be grounds for revocation of the building permit.

Notwithstanding, it is the responsibility of the owner to comply with requirements of the Ontario Building Code and applicable laws as well as to ensure compliance ..

The permit placard must be posted in a conspicuous place on the construction site.

Mario Angelucci
Deputy Chief Building Official
Toronto and East York District

Issued by: Millar, Jennifer
Date Issued: August 04, 2016

Please see the second page of this letter for additional requirements and inspection information.

TORONTO Building Toronto and East York District

WHEN YOU BEGIN DEMOLITION/CONSTRUCTION ...

Site Fencing

As soon as construction or demolition starts, your site must be entirely surrounded by a fence which is in compliance with the City of Toronto Municipal Code Chapter 363, Article III. The minimum requirement is plastic mesh fencing, 1.2 metres high, tied to posts spaced no more than 1.2 metres apart with an 11 gauge top and bottom wire threaded through the mesh and looped around each post. The Municipal Code is available on the City website at:

http://www.toronto.ca/legdocs/municode/1184_363.pdf

Construction Noise

Any construction which generates noise is prohibited in residential areas between the hours of 7:00 p.m. one day to 7:00 a.m. the next day, 9:00 a.m. on Saturdays, and all day Sunday and Statutory holidays.

When To Call For Inspection

You are required by Division C, Part 1, Article 1.3.5.1. of the Ontario Building Code, to notify the building inspection office at several prescribed stages of construction. Please contact the building inspection office at the telephone number listed below, when each of the following stages are substantially complete:

Inspection Stages

* Excavation/Shoring
* Footings/Foundations
* Occupancy

To Schedule your Next Mandatory Inspection

When you are ready to book your inspection, contact your local building inspection office by telephone at **416-338-0700.** Alternatively, you may also make contact by fax 416-696-4151 or by email to TOBldgInsp@toronto.ca.

Inspections will take place within two days commencing at the start of business on the day following your notification (Inspection Request).

Please leave a telephone number where you can be reached or a message can be left.

The inspector assigned to your project is Tom Tsapoitis (416) 338-0843

PERMIT PLANS MUST BE ON SITE

Your permit plans and specifications must be on site at all times. Inspections are conducted with your copy of the plans.

TORONTO Building

Ann Borooah
Chief Building Official and Executive Director

Toronto Building
Toronto City Hall
12th Floor, East Tower
100 Queen Street West
Toronto, Ontario, M5H 2N2

August 04, 2016

BULLETIN - CONSTRUCTION SAFETY

The responsibilities of the City of Toronto under the Occupational Health and Safety Act apply to all our employees regardless of the location at which they are working.

Responsibilities for the Construction Safety Regulations on construction sites are clearly spelled out in the Act under the definitions of constructor, employer, supervisor and worker.

The City of Toronto believes that the goal of safe and injury free construction sites is a priority for all parties involved in building construction.

Safety training for the City of Toronto Building Inspectors is mandatory. However the delivery of a safe working environment on construction sites must include the compliance of individual builders with the Occupational Health and Safety Act.

Safety measures include the following:
1. Temporary guards on all openings,
2. Correct use of ladders,
3. Temporary or permanent stairs above or below grade by the time the sub floor is complete,
4. Clear and safe access to the site,
5. Protection of trenches and excavation below four feet deep, and
6. Correct use of fall prevention equipment where required.

As the employer responsible for the safety of building inspectors, the City of Toronto has instructed its Building Inspectors not to conduct inspections on sites where conditions exist that could jeopardize their health and safety.

The following are examples of conditions which may jeopardize the health and safety of inspectors:
1. Guards are missing,
2. Ladders do not meet regulations,
3. Temporary or permanent stairs, above or below grade, to all floor levels are not provided as required.
4. Access to the site has impediments or hazards, or
5. Trenches or excavations lack required shoring or slope of bank.

Prior to calling for an inspection the appropriate safety measures shall be in place as a site inadequately provided with these measures is not ready for inspection. The City of Toronto Building Inspectors will cooperate with builders regarding the timing of making provision for these safety measures. However, if the measures are not provided, an Order Not To Cover could be issued and the Ministry of Labour informed.

We look forward to working with you toward the goal of a safe environment for all workers.

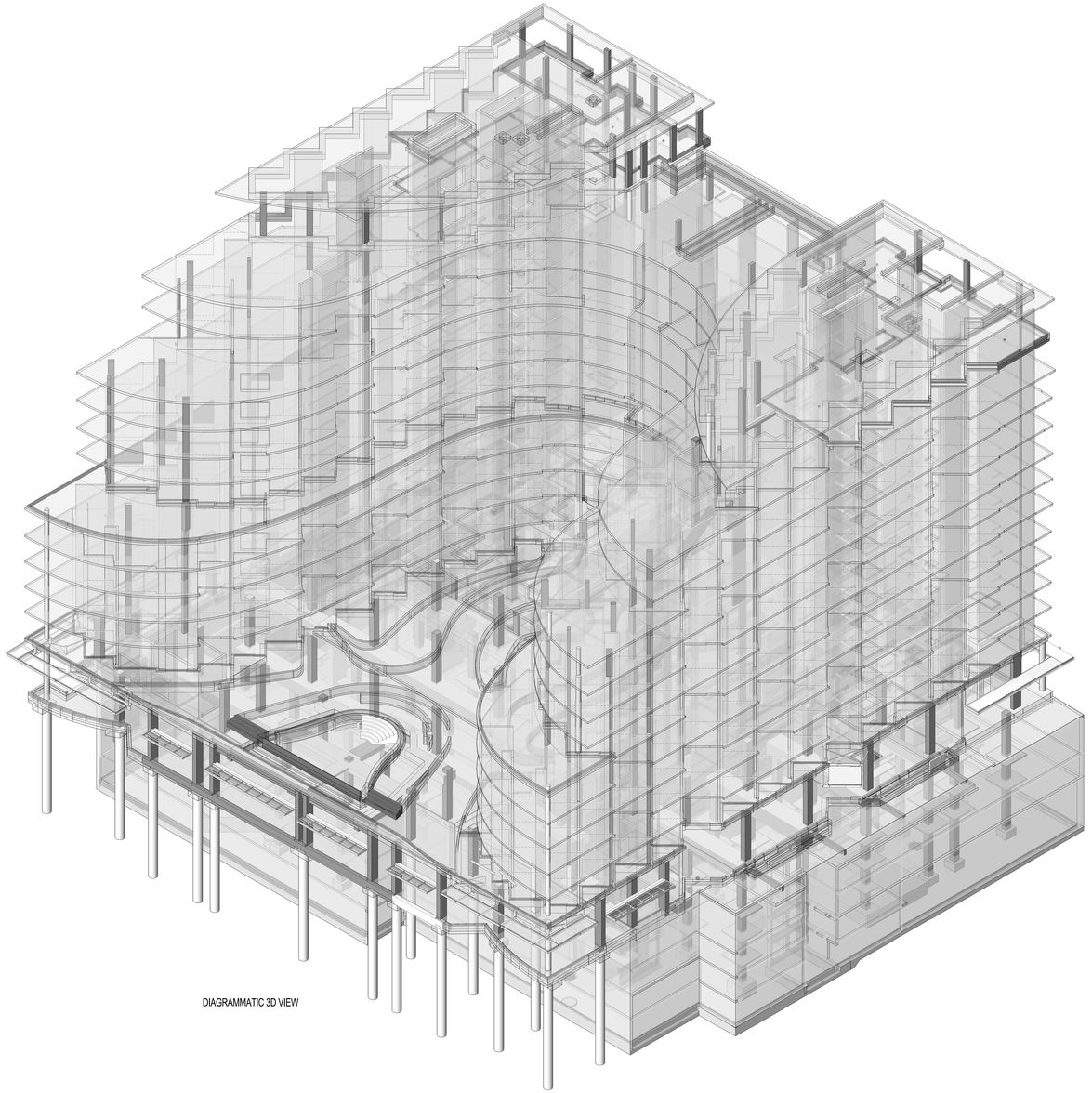
Notice of Project - Please be advised that the Ministry of Labour requires a Notice of Project be filed with them before starting any project costing $50,000 or more.

For more information about the Notice of Project form, please contact your local Ministry of Labour regional office at 416-314-5421 or 1-800-991-7454. Ministry of Labour construction information is available on their website at: **http://www.labour.gov.on.ca/english/site/construction_info.html**

Construction of the work approved in this building permit must be carried out with reasonable care to ensure protection for everyone on the construction site from the hazards associated with all overhead and underground power lines. Obtain further information at: **http://www.torontohydro.com/powerlinesafety**

This permit covers all below grade structural works for this project only, up to and including ground floor slab.

Final design might require modifications to these approved structural plans. Applicant / owner will undertake whatever necessary action then to modify these plans and apply for revision, and will not hold City of Toronto liable for any cost, construction or otherwise, for such corrections.



DIAGRAMMATIC 3D VIEW

DRAWING LIST

Sheet Number	Sheet Name
S0 SERIES - COVER SHEET	
S0-01	COVER SHEET
S1 SERIES - PLANS	
S1-01	FOUNDATION PLAN
S1-02	LEVEL P3 FLOOR FRAMING PLAN
S1-03	LEVEL P2 FLOOR FRAMING PLAN
S1-04	LEVEL P1 FLOOR FRAMING PLAN
S1-05	LEVEL P1 MEZZANINE FRAMING PLAN
S1-06	LEVEL 1-GROUND FLOOR FRAMING PLAN - WITH TOP REINFORCEMENT AND DETAILS
S1-07	LEVEL 1-GROUND FLOOR FRAMING PLAN - WITH BOTTOM REINFORCEMENT AND SCHEDULES
S1-08	LEVEL L1 MEZZANINE FRAMING PLAN
S1-09	LEVEL 2 FLOOR FRAMING PLAN
S1-10	LEVEL 3 FLOOR FRAMING PLAN
S1-11	LEVEL 4 FLOOR FRAMING PLAN
S1-12	LEVEL 5 FLOOR FRAMING PLAN
S1-13	LEVEL 6 FLOOR FRAMING PLAN
S1-14	LEVEL 7 FLOOR FRAMING PLAN
S1-15	LEVEL 8 FLOOR FRAMING PLAN
S1-16	LEVEL 9 FLOOR FRAMING PLAN
S1-17	LEVEL 10 FLOOR FRAMING PLAN
S1-18	LEVEL 11 FLOOR FRAMING PLAN
S1-19	LEVEL 12 / PH1 FLOOR FRAMING PLAN
S1-20	LEVEL 13/PH2/ MECH. FLOOR FRAMING PLAN
S1-21	ROOF FRAMING PLANS
S1-22	WIND UPLIFT PLAN
S2 SERIES - SCHEDULES	
S2-01	COLUMN SCHEDULES - LEVEL 2 AND BELOW
S2-02	COLUMN SCHEDULE - LEVEL 2 ABOVE AND CONNECTION PLATE SCHEDULE
S2-03	BEAM SCHEDULES
S3 SERIES - WALL ELEVATIONS	
S3-01	WALL ELEVATIONS AND NOTES
S3-02	WALL ELEVATIONS
S3-03	WALL ELEVATIONS
S3-04	WALL ELEVATIONS
S3-05	WALL ELEVATIONS
S3-06	WALL ELEVATIONS
S3-07	WALL ELEVATIONS
S3-08	WALL ELEVATIONS
S3-09	WALL ELEVATIONS
S3-10	WALL ELEVATIONS
S4 SERIES - FOUNDATION ELEVATION AND SECTIONS	
S4-01	FOUNDATION ELEVATIONS
S4-02	FOUNDATION SECTIONS
S4-03	FOUNDATION SECTIONS
S4-04	FOUNDATION SECTIONS
S5 SERIES - GROUND FLOOR SECTIONS	
S5-01	GROUND FLOOR SECTIONS
S6 SERIES - FLOOR SECTIONS	
S6-01	FLOOR SECTIONS
S6-02	FLOOR SECTIONS
S6-03	FLOOR SECTIONS
S7 SERIES - ROOF SECTIONS	
S7-01	ROOF SECTIONS
S8 SERIES - TYPICAL NOTES & DETAILS	
S8-01	GENERAL NOTES & TYPICAL DETAILS
S8-02	TYPICAL DETAILS
S8-03	TYPICAL AND PROJECT DETAILS

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Now Is It Loaned Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed ByThe Architect.

Date

stephenson ENGINEERING

2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 1975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00

ZONING		
O.B.C.	Examiner: Ginberg	20/Jul/2016
FIRE SERVICES		
O.B.C. (S)		

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
COVER SHEET

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale

Drawn by
DC

Checked by
BBS

Project No
20140031

Date
MAY 12,2016

Drawing No
S0-01

TORONTO Building RECEIVED 14/Jul/2016

Plot Date: 5/12/2016 9:57:51 AM

This permit covers all below grade structural works for this project only, up to and including ground floor slab.

Final design might require modifications to these approved structural plans. Applicant / owner will undertake whatever necessary action then to modify these plans and apply for revision, and will not hold City of Toronto liable for any cost, construction or otherwise, for such corrections.

DESIGN CRITERIA NOTES

1. GENERAL
 1.1. THE PROJECT WAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 OBC
 1.2. THE PARKING GARAGE WAS BEEN DESIGNED IN ACCORDANCE TO THE STRUCTURAL REQUIREMENTS OF CSA-S413-07 PARKING STRUCTURES. SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING, SEALERS, ETC.. DETAILED IN ACCORDANCE WITH CSA-S413-07. SEE ALSO MECHANICAL DRAWINGS FOR COMPLIANCE WITH THE MECHANICAL REQUIREMENTS OF CSA-S413-07
 1.3. THE GARAGE RAMP AND SLAB ON GRADE WAS BEEN DESIGNED FOR CLASS E-1,C-3, A-1,S-3S APPENDIX A OF THE OBC AND WHERE APPLICABLE GARAGE ROOF SLABS HAVE BEEN DESIGNED FOR THE REQUIREMENTS OF THE CITY OF TORONTO GUIDELINES FOR GARBAGE TRUCK AND FIRE TRUCK WHEEL LOADING
 1.4. ALL REINFORCED CONCRETE SLABS, BEAMS, COLUMNS, AND SHEAR WALLS HAVE BEEN DESIGNED TO CSA-A23.3-04 AND ARE CAST-IN-PLACE UNLESS NOTED.
 1.5. MISCELLANEOUS METAL, PRECAST AND STAIR FABRICATORS SHALL:
  1.5.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
  1.5.2. DESIGN ALL GUARDS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.15.
  1.5.3. DESIGN ALL STAIRS TO MEET LIVE LOADS DESCRIBED IN OBC 4.1.5.15.
  1.5.4. DESIGN ALL STAIRS TO SUPPORT A MINIMUM 2.5 kN/m LIVE LOAD OR 3 kN.
 1.6. ARCHITECTURAL PRECAST FABRICATOR SHALL:
  1.6.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
  1.6.2. DESIGN ALL GUARDS TO MEET LATERAL LOADS DESIGN THE PRECAST AND CONNECTIONS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.15.
 1.7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO IS SUPPLYING AND INSTALLING EQUIPMENT, THAT ALL ELEMENTS OF STRUCTURES LISTED IN TABLE 4.1.6.13 OF THE OBC 2012 ARE DESIGNED IN ACCORDANCE WITH CLAUSE 4.1.6.17.
 1.8. STRUCTURE IS DESIGNED FOR SNOW,RAIN, WIND, AND EARTHQUAKE IG NORMAL (sic).(I)
 1.9. STAIR ELEMENTS NOT PART OF SFRS SHALL BE SEPARATED FROM THE STRUCTURE AS PER OBC CLAUSE 4.1.8.9.(6) EXAMPLES INCLUDE, BUT NOT LIMITED TO MASONRY PARTITIONS, BRICK VENEER, PRECAST CLADDING ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER REGISTERED IN ONTARIO FOR COMPLIANCE. PROVIDE MINIMUM 25mm SEPARATION UNLESS NOTED OTHERWISE ON DRAWINGS AND SPECIFICATION.

2. LATERAL LOADS ON STRUCTURE
 2.1. WIND
  $q_{1/50}$ = 0.44 kPa
  C_e = (H/10)^0.2 BUT LESS THAN 1.0 AND NOT GREATER THAN 2.5(OTHWISE APPROACH)
  C_g = 1.0
  C_p = AS PER FIGURE I-15 OF USER'S GUIDE - NBC 2005 STRUCTURAL COMMENTARIES (PART 4 OF DIVISION B)
 BASE OVERTURNING MOMENT, SHEAR, SHEAR Y=31213kN, MAX. INTERSTOREY DRIFT=0.0056.
 2.2. EARTHQUAKE
  $S_a(0.2)$ = 0.122 — F_a = 1.0
  $S_a(0.5)$ = 0.0 — SITE CLASS = C — I_E = 1.0
  $S_a(1.0)$ = 0.067 — R_d = 1.5 — R_o = 1.0
  $S_a(2.0)$ = 0.0 — R_o = 1.3
  SFRS CONSISTS OF CONCRETE SHEAR WALLS.
  STRUCTURAL IRREGULARITIES CONSIDERED IN THE DESIGN PER CLAUSE 4.1.8.6. CONSIST OF:
  TYPES 1, 2, 4, 5 & 6
  METHOD OF ANALYSIS – DYNAMIC
  BASE SHEAR = 8137MAN, SHEAR SHEAR Y=27725kN, MAX. INTERSTOREY DRIFT=0.0285,V/I=15878kN,V/I=18378kN,T=1.05s, T/a=2.28s.
3. FOUNDATION WALLS
 3.1. WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND HORIZONTAL EARTH AND HYDROSTATIC PRESSURE (P=K (YH+YS)+YWH2).
  WHERE
  K = 0.5
  kN = 22kN/m³
  q = 12kPa (LIVE LOAD SURCHARGE)
  h1 = DEPTH TO GRADE MAY VARY, IN METRES
  h2 = DEPTH BELOW GROUND WATER TABLE, IN METRES
  Ys = 23kN/m³ (SOIL UNIT WEIGHT)
  Y = (2.1KN/m² (SUBMERGED SOIL UNIT WEIGHT)
  Yw = 10kN/m³ (WATER UNIT HEIGHT)

	STRENGTH AT 28 DAYS (Mpa)	SLUMP AT DELIVERY (mm)	AIR ENTRAINMENT	MAXIMUM W/C RATIO	EXPOSURE CLASSIFICATION
GENERAL (NON-EXPOSED) CONCRETE INTERIOR SLABS, WALLS, COLUMNS, BEAMS AND FOUNDATIONS (SEE PLAN & SCHEDULE FOR STRENGTH)	25 30 35 40 45	80 ± 20	·····	TO SUIT	N
EXTERIOR (EXPOSED) CONCRETE WALLS AND OR COLUMNS, EXCEPT PARKING STRUCTURE	25 30 35 40 45	80 ± 20	4 - 7 %	0.55	F - 2
(1) GENERAL INTERIOR SLAB - ON - GRADE	25	80 ± 20	·····	TO SUIT	N
EXTERIOR SLABS-ON-GRADE, SIDEWALKS, CURBS AND GUTTERS (UNREINFORCED)	32	80 ± 20	5 - 8 %	0.45	C - 2
(1) PARKING STRUCTURE SLAB, COLUMNS, BEAMS WALLS GRADE BEAMS/CAPS AND FOOTINGS	35 40 45	80 ± 20	5 - 8 %	0.40	C - 1
(1) EXTERIOR GARAGE ROOF, POOL (PROVIDE DCI AT A DOSAGE OF 20L/M³)	35	80 ± 20	5 - 8 %	0.40	C - 1
(1) PARKING SLABS-ON-GRADE	32	80 ± 20	5 - 8 %	0.45	C - 2
NON WATER PROOFED EXPOSED BALCONY SLAB	30	80 ± 20	5 - 8 %	0.50	F - 1
LEAN MIX CONCRETE	15	80 ± 20	·····	TO SUIT	N

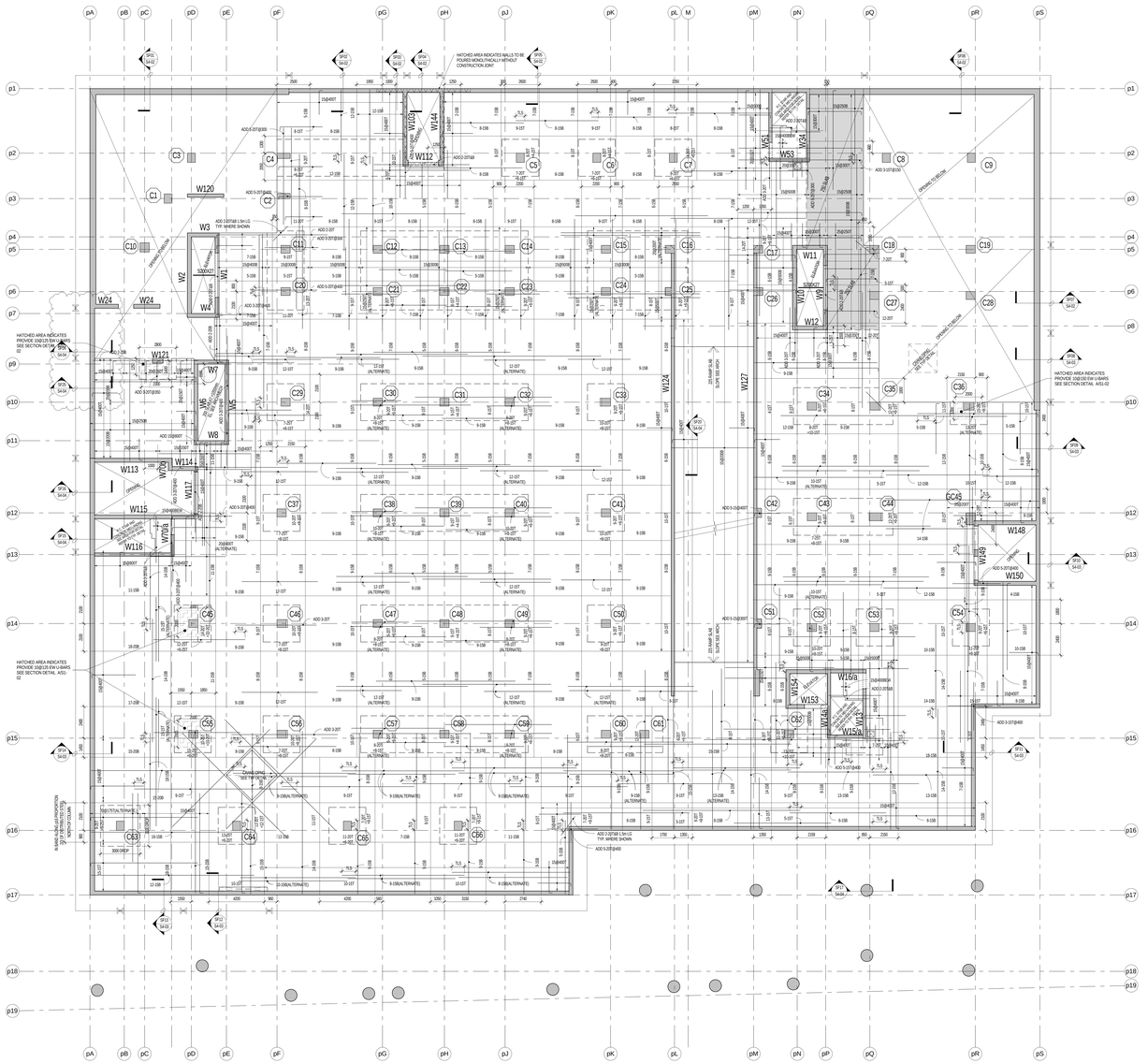
1) REINFORCED WITH SYNTHETIC FIBRES ADDED AT BATCHING PLANT - SEE SPECIFICATION.
2) CHLORIDE ION PENETRABILITY REQUIREMENTS < 1500 COULOMBS WITHIN 56 DAYS.

FOUNDATION PLAN NOTES

1. TOP OF SLAB ARES IN PARKING LEVEL AND IS TO BE SLOPED TO SUIT DRAINAGE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
2. PROVIDE SLAB DEPRESSIONS AND THICK WITH SAW CUTS @3000 on EACH WAY. SEE SPECIFICATIONS.
3. PROVIDE SLAB DEPRESSIONS AT OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS, AS REQUIRED BY ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
4. SLAB-ON-GRADE TO BE PLACED ON A 150 mm MINIMUM LAYER OF COMPACTED 19mm MAXIMUM SIZE CLEAR CRUSHED STONE.
5. FOOTINGS SHALL BE CARRIED DOWN TO SOUND BEDROCK WITH A FACTORED GEOTECHNICAL RESISTANCE @ULS OF 5000 kPa.
 ALL SPREAD AND STRIP FOOTINGS TO BE CAST AGAINST SIDES OF EXCAVATION.
6. FRICTION CAISSONS HAVE BEEN DESIGNED FOR ULS BEND STRENGTH OF 70MPa BETWEEN CONCRETE AND SOUND SHALE.
7. THE BEDROCK SURFACE HAS VALUE IS ASSUMED TO BE FOUND AT THE ELEVATIONS SHOWN. ANY VARIATIONS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
8. REFER TO SOIL REPORT BHN GEOTECH PROJECT NO. 21-3033 PREPARED BY EXP. AND MEMORANDUM DATED APRIL 16,2015.
9. BEDROCK AT THE UNDERSIDE OF ALL FOOTINGS IS TO BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE SOILS CONSULTANT PRIOR TO PLACING OF CONCRETE. A MINIMUM 50mm CONCRETE SKIM SLAB IS TO BE PLACED ON BEDROCK IMMEDIATELY AFTER EXCAVATION IS COMPLETED.
10. TOP OF FOOTINGS TO BE AT ELEVATIONS AS NOTED ON PLAN (TOF's).
11. DEP – STATION MONITORING STEPS IN ANY FOOTING SHALL BE 300mm MAX. AND SHALL BE 1 VERT. UNLESS OTHERWISE NOTED. ALL WALL FOOTINGS TO BE 300 mm DEEP WITH 150 mm PROJECTION FOR SOIL BEARING PRESSURE OF 150 kPa (SLS).
 ALL FOOTINGS TO BEAR ON UNDISTURBED SOIL.
 PROTECT FOOTING BASE BY 50mm CONCRETE IF CONCRETE PLACEMENT NOT OCCUR ON THE SAME DAY.
 DO NOT PLACE BACKFILL AGAINST WALLS BEFORE MAKING EARTH-SLOTS FLOOR AND BOTTOM OF WALLS ARE PLACED AND HAVE ATTAINED SPECIFIED DESIGN STRENGTH (4).
12. ALL CONCRETE WORK TO BE IN ACCORDANCE WITH CSA-A23.1-04 AND ACI-318 AND ACI-336 AND ACI-336 AND ACI-336

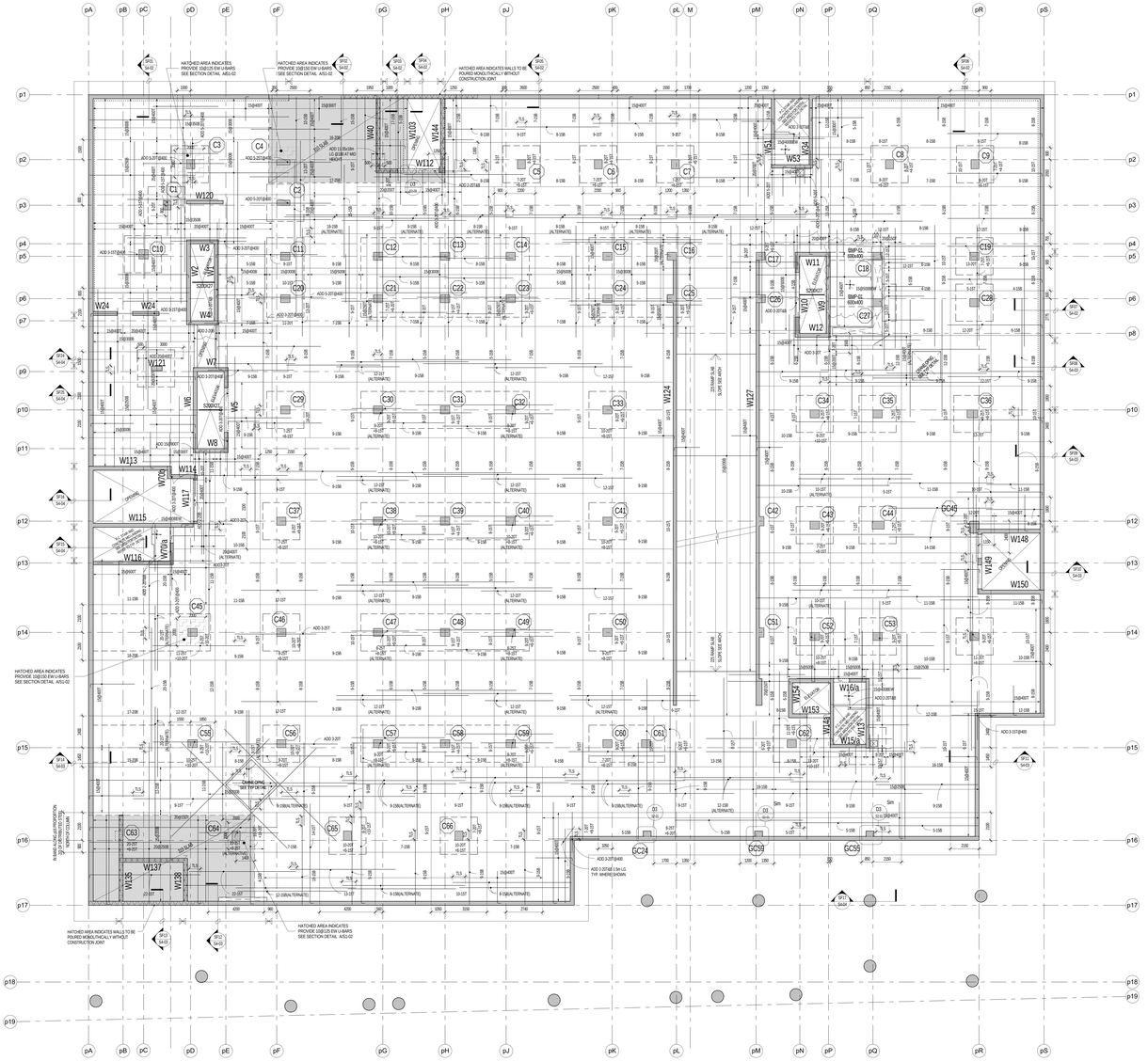
This permit covers all below grade structural works for this project only, up to and including ground floor slab.

Final design might require modifications to these approved structural plans. Applicant / owner will undertake whatever necessary action then to modify these plans and apply for revision, and will not hold City of Toronto liable for any cost, construction or otherwise, for such corrections.


HATCHED AREA INDICATES WALLS TO BE POURED MONOLITHICALLY WITHOUT CONSTRUCTION JOINT
HATCHED AREA INDICATES PROVIDE 15@125 EW U-BARS SEE SECTION DETAIL A/S1-02
HATCHED AREA INDICATES PROVIDE 15@125 EW U-BARS SEE SECTION DETAIL A/S1-02
HATCHED AREA INDICATES PROVIDE 15@125 EW U-BARS SEE SECTION DETAIL A/S1-02
BUMP-OUTS AT EXPANSION JOINTS TO BE CONSTRUCTED AFTER 72hr DELAY
OPENING FOR 1500x1500 SHAFT
OPENING FOR 1500x1500 SHAFT
OPENING FOR 1500x1500 SHAFT

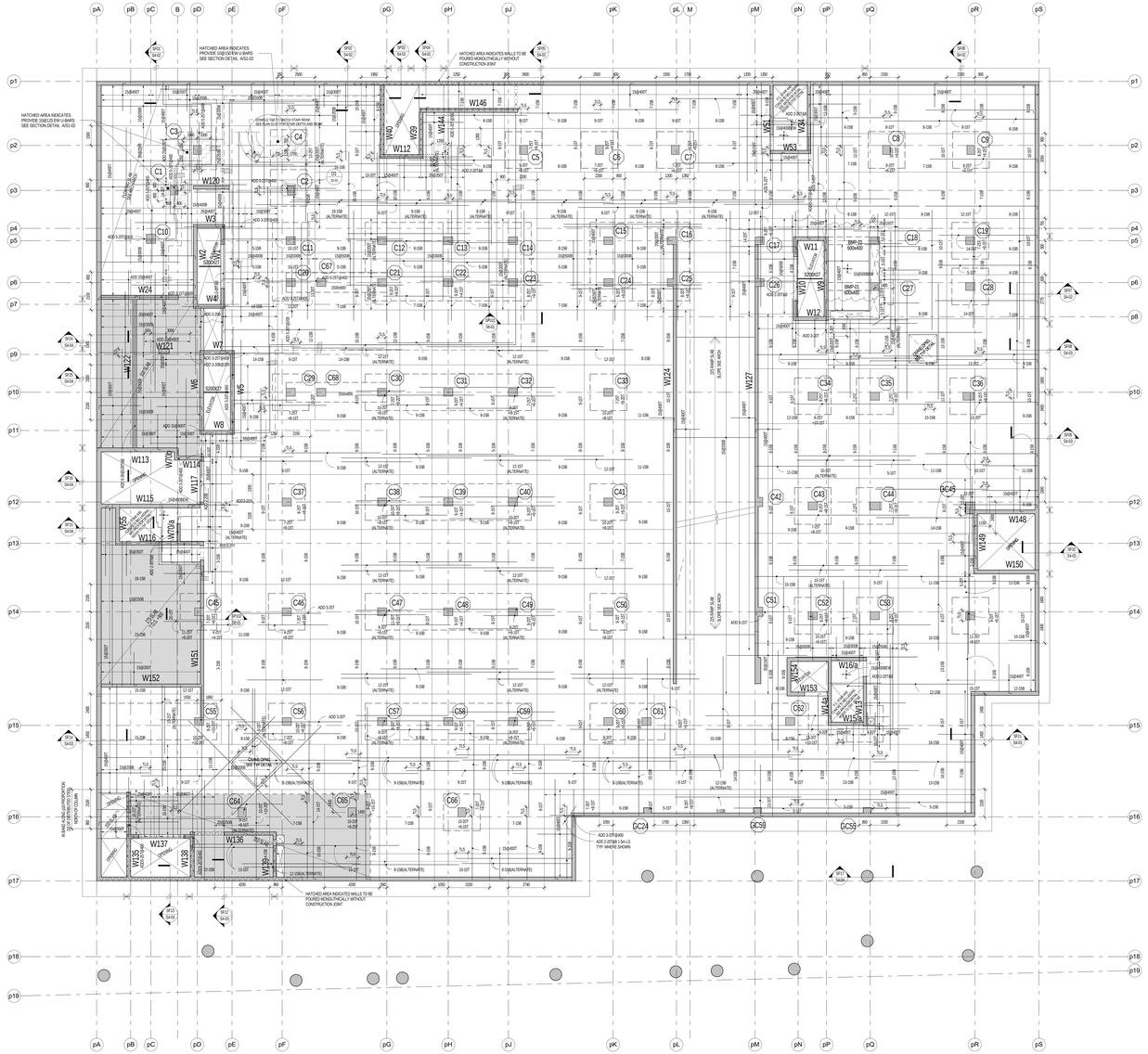
This permit covers all below grade structural works for this project only, up to and including ground floor slab.

Final design might require modifications to these approved structural plans. Applicant / owner will undertake whatever necessary action then to modify these plans and apply for revision, and will not hold City of Toronto liable for any cost, construction or otherwise, for such corrections.


HATCHED AREA INDICATES PROVIDE 10@125 EW U-BARS SEE SECTION DETAIL A/S1-02
HATCHED AREA INDICATES PROVIDE 10@100 EW U-BARS SEE SECTION DETAIL A/S1-02
HATCHED AREA INDICATES WALLS TO BE POURED MONOLITHICALLY WITHOUT CONSTRUCTION JOINT
HATCHED AREA INDICATES PROVIDE 10@125 EW U-BARS SEE SECTION DETAIL A/S1-02
HATCHED AREA INDICATES WALLS TO BE POURED MONOLITHICALLY WITHOUT CONSTRUCTION JOINT
HATCHED AREA INDICATES PROVIDE 10@125 EW U-BARS SEE SECTION DETAIL A/S1-02
RAMP SLAB SLOPE SEE SPOT ELEVATIONS
25% RAMP SLAB SLOPE SEE SPOT
ADD 3-20TH@400
ADD 3-20TH@400 1.5m LG TYP WHERE SHOWN
ADD 3-20TH@400
ADD 3-20TH@400
ADD 3-20TH@400

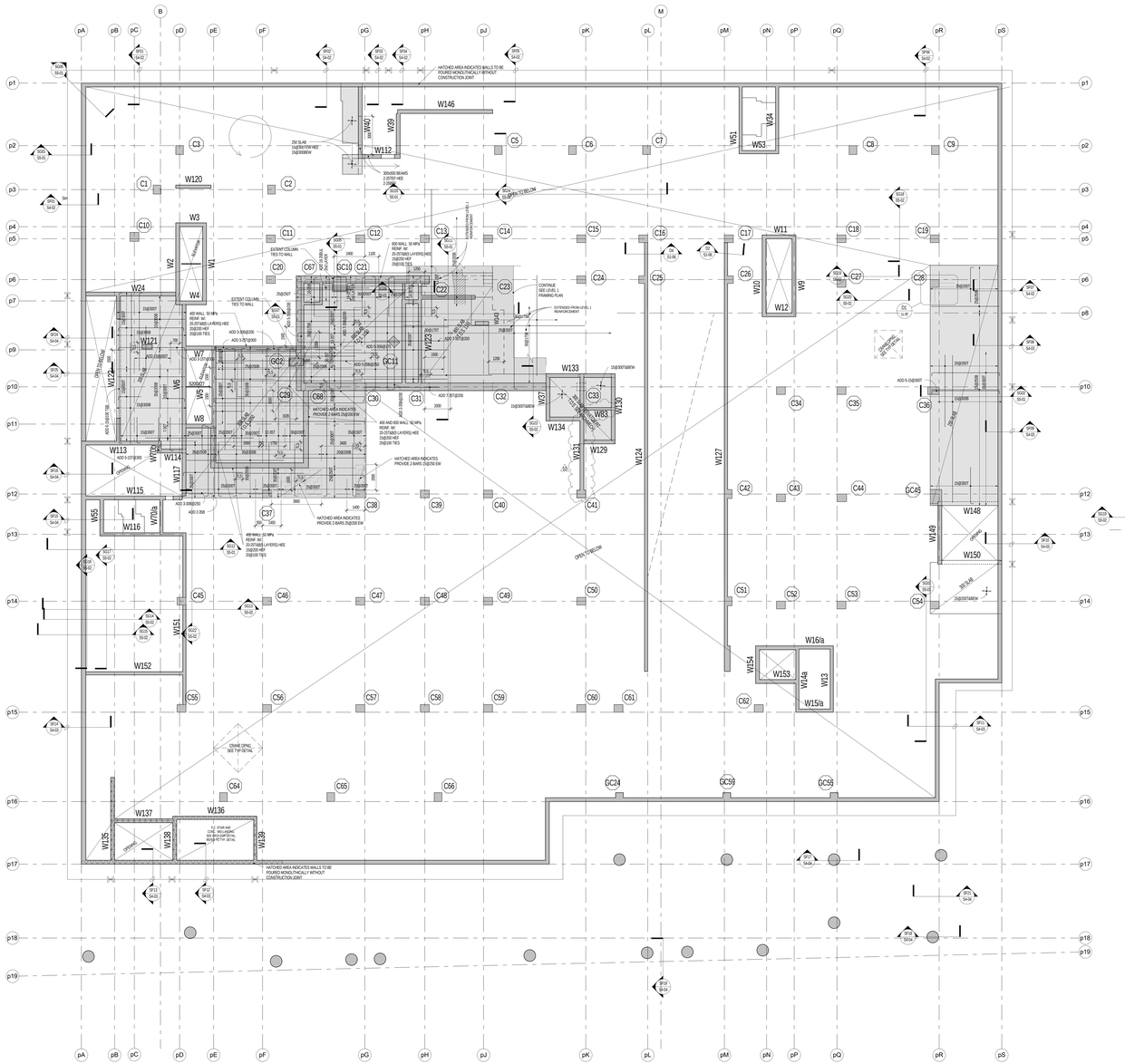
This permit covers all below grade structural works for this project only, up to and including ground floor slab.

Final design might require modifications to these approved structural plans. Applicant / owner will undertake whatever necessary action then to modify these plans and apply for revision, and will not hold City of Toronto liable for any cost, construction or otherwise, for such corrections.


HATCHED AREA INDICATES PROVIDE 10@150 EW U-BARS SEE SECTION DETAIL A/S1-02
HATCHED AREA INDICATES WALLS TO BE POURED MONOLITHICALLY WITHOUT CONSTRUCTION JOINT
HATCHED AREA INDICATES PROVIDE 10@150 EW U-BARS SEE SECTION DETAIL A/S1-02
HATCHED AREA INDICATES WALLS TO BE POURED MONOLITHICALLY WITHOUT CONSTRUCTION JOINT
ADD 3-20TOB (6400) ADD 2-20TOB 1.5m LG TYP. WHERE SHOWN
RAMP DN 600x400
RAMP UP 600x400
RAMP DN 600x400
RAMP UP 600x400
25.0 RAMP SLAB SLOPE SEE DETAIL
25.0 RAMP SLAB SLOPE SEE DETAIL
OPENING SEE TYP DETAIL
OPENING SEE TYP DETAIL
OPENING SEE TYP

This permit covers all below grade structural works for this project only, up to and including ground floor slab.

Final design might require modifications to these approved structural plans. Applicant / owner will undertake whatever necessary action then to modify these plans and apply for revision, and will not hold City of Toronto liable for any cost, construction or otherwise, for such corrections.



LEVEL P1 MEZZ. FRAMING PLAN

1 : 100

1. TOP OF LEVEL 1 MEZZANINE FLOOR STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED GROUND FLOOR DATUM ELEVATION 76.0m. THE STRUCTURAL SLAB STEPS AT THE EDGE OF GROUND FLOOR. SEE PLAN AND DETAILS FOR ELEVATION CHANGES. SEE ALSO ARCHITECTURAL DRAWINGS AND LANDSCAPE DRAWINGS FOR GARAGE ROOF ELEVATIONS AND SLOPES TO DRAINS.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO SELF WEIGHT:

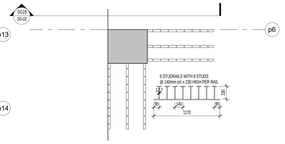
	LL	SDL
STAIRS / MEZZANINE	4.8 kPa	0.5 kPa

3. CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS C-2 EXPOSURE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 35 MPa AT 28 DAYS. REFER ALSO TO COLUMN AND WALL SCHEDULES. SEE ALSO CONCRETE MIX SCHEDULE ON FOUNDATION PLAN.
4. CONCRETE COVER FOR TOP BARS IN SLABS TO BE 25 mm. CONCRETE COVER FOR BOTTOM BARS IN SLABS TO BE 30 mm.
5. NO OPENINGS MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
6. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 48 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
7. SEE TYPICAL DETAIL FOR LINTELS IN NON-LOAD BEARING MASONRY WALLS.
8. SEE ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR CURBS, REINFORCE AS PER TYPICAL DETAIL.
9. SEE COLUMN AND WALL SCHEDULES.
10. SEE ALSO TYPICAL NOTE AND DETAIL DRAWINGS.
11. REFER TO BEAM SCHEDULES.
12. REFER TO TYPICAL DETAILS FOR ALL EXPOSED EDGES OF COLUMNS, WALLS, BEAMS & DROPS.
13. WHERE BOTTOM STEEL NOT SHOWN, PROVIDE CONTINUOUS TEMPERATURE STEEL, HOOKED AT EDGE OF SLAB AND OPENINGS.

TLL = TOP LAYER LAYER
TUL = TOP UPPER LAYER
BLL = BOTTOM LOWER LAYER

REINFORCEMENT PLACEMENT DIAGRAM

SLAB INTEGRITY BARS: CONCRETE STRENGTH: TEMP. STEEL:	250 MIN. 3.0M BEW 35 MPa 25@400 c/c
SLAB INTEGRITY BARS: CONCRETE STRENGTH: TEMP. STEEL:	250 MIN. 3.0M BEW 35 MPa 25@400 c/c
SLAB INTEGRITY BARS: CONCRETE STRENGTH: TEMP. STEEL:	300 MIN. 3.0M BEW 35 MPa 25@300 c/c
SLAB INTEGRITY BARS: CONCRETE STRENGTH: TEMP. STEEL:	800 MIN. 5.0M BEW 45 MPa 25@300 c/c



D1 / S1-05 DETAIL

1 : 25

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Nor Is It Loanable Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date

PROFESSIONAL ENGINEER JULY 20,2016 T. TAVASLIEV 100113579 PROVINCE OF ONTARIO

PROFESSIONAL ENGINEER JULY 20,2016 S. SHROWAH-SHAD 100113579 PROVINCE OF ONTARIO

stephenson ENGINEERING

2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 7676
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

City of TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00

ZONING		
O.B.C.	Emphasis: Guideline	20/Jul/2016
FIRE SERVICES		
O.B.C. (S)		

City of TORONTO Building
RECEIVED
20/Jul/2016

No	Issued For	Date
10	RESSUED FOR PERMIT	JULY 20,2016
9	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

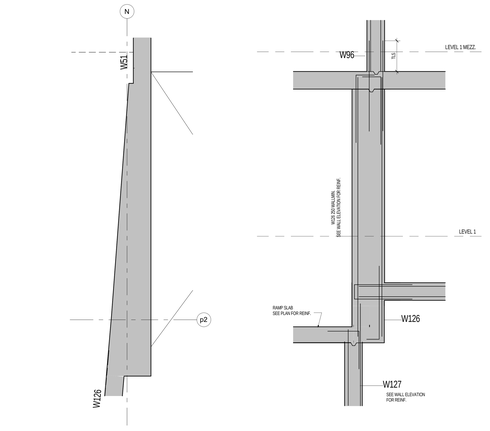
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL P1 MEZZANINE FRAMING PLAN

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

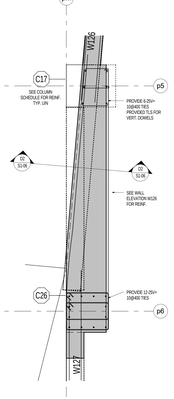
Scale	As indicated
Drawn by	DC
Checked by	PC/BBS
Project No	20140031
Date	JULY 20,2016
Drawing No	S1-05

Plot Date: 7/20/2016 11:15:24 AM

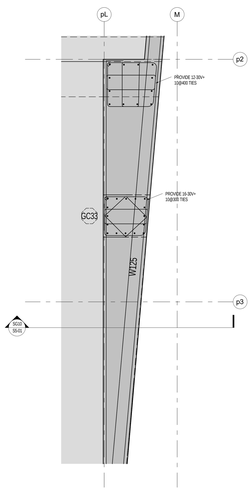


D5 PLAN DETAIL
S1-06 1 : 20

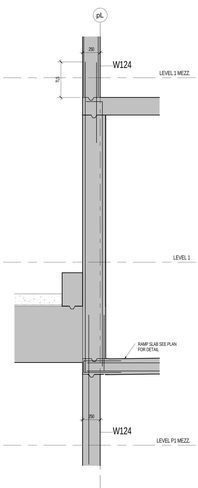
D2 ELEVATION DETAIL
S1-06 1 : 20



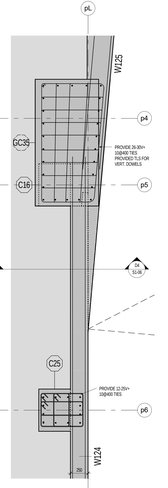
D1 PLAN DETAIL
S1-06 1 : 20



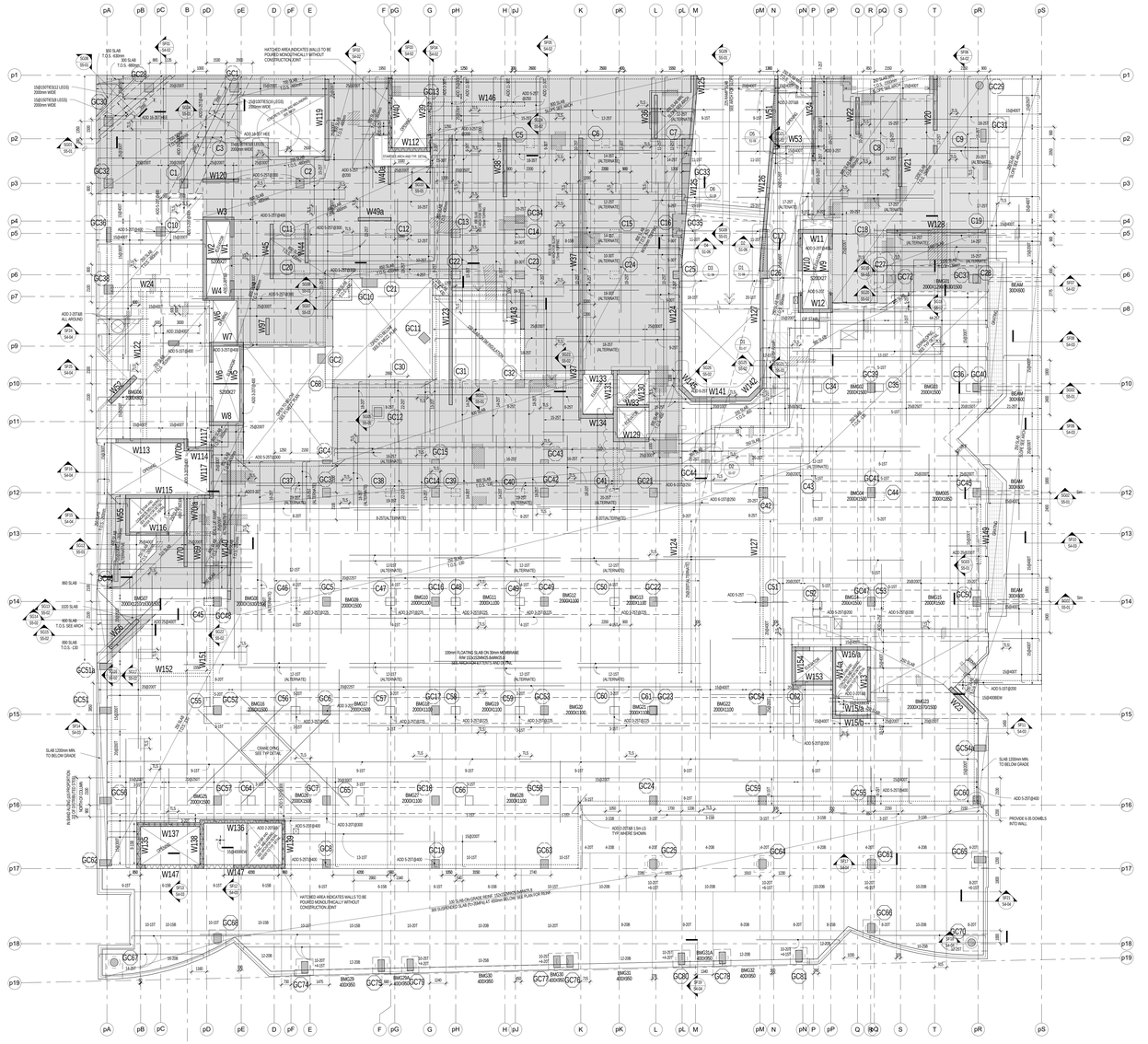
D6 PLAN DETAIL
S1-06 1 : 20

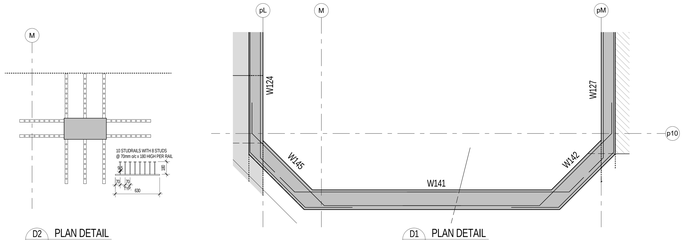


D4 PLAN DETAIL
S1-06 1 : 20



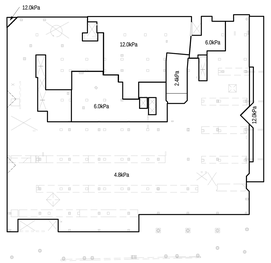
D3 PLAN DETAIL
S1-06 1 : 20


HATCHED AREA INDICATES WALLS TO BE POURED MONOLITHICALLY WITHOUT CONSTRUCTION JOINT
100mm FLOATING SLAB ON 30mm MEMBRANE R/W COLUMNS/WALLS SEE ARCHITECTURAL DETAILS AND DETAIL
SLAB 1200mm MIN. TO BELOW GRADE
RAMP SLAB SEE PLAN FOR REINF.
SEE SLAB ON GRADE REINF. DETAIL
SEE SLAB ON GRADE REINF. DETAIL
SEE SLAB ON GRADE REINF. DETAIL

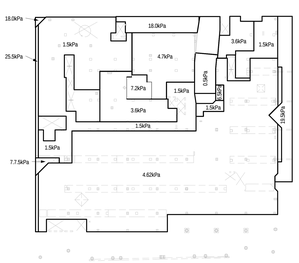


D2 PLAN DETAIL
S1-07
1 : 20

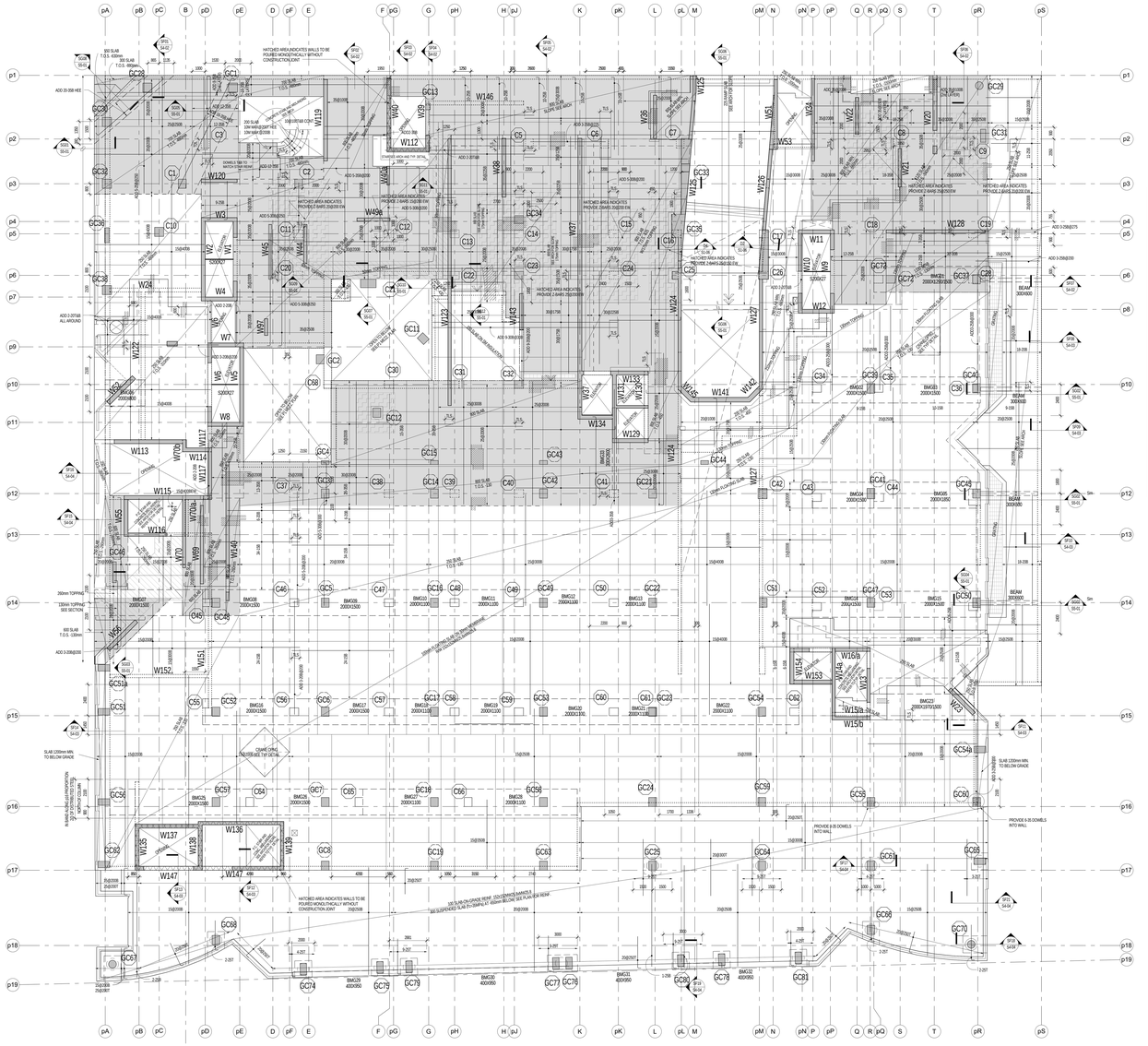
D1 PLAN DETAIL
S1-07
1 : 25



LIVE LOAD DIAGRAM
1 : 400



SUPERIMPOSED DEAD LOAD DIAGRAM
1 : 400


pA
pB
pC
B
pD
pE
D
pF
E
F
pG
G
pH
H
pJ
K
pK
L
pL
M
pM
N
pN
P
pP
Q
R
pQ
S
T
pR
pS
p1
p2
p3
p4
p5
p6
p7
p8
p9
p10
p11
p12
p13
p14
p15
p16
p17
p18
p19
300 SLAB T.O.S. 625mm
300 SLAB T.O.S. 950mm
HATCHED AREA INDICATES WALLS TO BE POURED MONOLITHICALLY WITHOUT CONSTRUCTION JOINT
HATCHED AREA INDICATES PROVIDE 2.5kPS SUPERIMPOSED DEAD LOAD
HATCHED AREA INDICATES PROVIDE 3.5kPS SUPERIMPOSED DEAD LOAD
HATCHED AREA INDICATES PROVIDE 4.6kPS SUPERIMPOSED DEAD LOAD
HATCHED AREA INDICATES PROVIDE 7.5kPS SUPERIMPOSED DEAD LOAD
ADD 0.2KPA
ADD 0.3KPA
ADD 0.5KPA
ADD 0.7KPA
ADD 1.0KPA
ADD 2.0KPA
ADD 3.0KPA
ADD 5.0KPA
ADD 7.0KPA
ADD 10.0KPA
ADD 20.0KPA
ADD 0.2KPA ALL AROUND
ADD 0.3KPA ALL AROUND
ADD 0.5KPA ALL AROUND
ADD 0.7KPA ALL AROUND
ADD 1.0KPA ALL AROUND
ADD 2.0KPA ALL AROUND
ADD 3.0KPA ALL AROUND
ADD 5.0KPA ALL AROUND
ADD 7.0KPA ALL AROUND
ADD 10.0KPA ALL AROUND
ADD 20.0KPA ALL AROUND
DOWELS TIE TO MATCH EXISTING
CRANE CURB SEE DETAIL
SLAB 1200mm MIN. TO BELOW GRADE
PROVIDE 8-20 DOWELS INTO WALL
HATCHED AREA INDICATES WALLS TO BE POURED MONOLITHICALLY WITHOUT CONSTRUCTION JOINT
350mm TOPPING
150MM TOPPING SEE SECTION
600 SLAB T.O.S. -120mm
SLAB 1200mm MIN. TO BELOW GRADE
PROVIDE 8-20 DOWELS INTO WALL
PROVIDE 8-20 DOWELS INTO WALL
SLAB 1200mm MIN. TO BELOW GRADE
PROVIDE 8-20 DOWELS INTO WALL
PROVIDE 8-20 DOWELS INTO WALL
PROVIDE 8-20 DOWELS INTO WALL

CONCRETE COLUMN SCHEDULE (LEVEL 2 AND BELOW)

| COLUMN NUMBER | | | | GC1 | GC2 | GC3 | GC4 | GC5 | GC6 | GC7 | GC8 | GC10 | GC11 | GC12 | GC13 | GC14 | GC15 | GC18 | GC17 | GC18 | GC19 | GC21 | GC22 | GC23 | GC25 | GC24 | GC44 | GC28 | GC29 | GC30 | | | |

LEVEL 1 BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS								TOP BARS								STIRRUPS		REMARKS
		No.	1/2							No.	1/2							1/2	1/2	
BM101	2000X1250/1500/1500	12	35				BLL			6	30			TLA		2000		15	@100-RE	TRIPLES
		10	15				SHEF			5	35			TLA	2000			15	@300 REM	DOUBLES
										5	35			2000	TLA					
BM102	2000X1500	22	35				BLL			9	30		2600	TLA				15	@125	FIVE SETS
		22	35				BLA			6	35		1400	TLA						
		10	15				SHEF			12	30			TLA	3600		4900			
										8	35			TLA	2000		2000			
										6	30			TLL	2000		2000			
BM103	2000X1500	12	35				BLL			12	30	FROM BM102		TLA				15	5@125 RE	TRIPLES
		12	35				BLA			8	35	FROM BM102		TLA				15	6@100 LE	TRIPLES
		10	15				SHEF			6	30	FROM BM102		TLL				15	@300 REM	DOUBLES
										8	30			TLA	2600					
										9	35			TLA	2000					
BM104	2000X1500	22	35				BLL			6	35		2600	TLA				15	@100	FIVE SETS
		12	35				BLA			7	35		1400	TLA						
		12	15				SHEF			12	35			TLA	3400		4300			
										5	35			TLA	2000		2000			
										5	35			TLL	2000		2000			
BM105	2000X1850	14	35				BLL			12	35	FROM BM104		TLA				15	10@100 RE	FIVE SETS
		14	35				BLA			5	35	FROM BM104		TLA				15	@200 REM	FIVE SETS
		16	15				SHEF			5	35	FROM BM104		TLL						
										5	35			TLA	6000					
										5	35			TLL	2700					
BM106	2000X800	6	35				BLL			6	35			TLA		1		15	@125	FOUR SETS
		3	30				BLA			3	30			TLA		1				
		16	35				BLA													
		4	15				SHEF													
BM107	2000X1500	7	30				BLL			6	30		3700	TLA				10	@300	TRIPLES
		12	15				SHEF			8	30			TLA	3300		4000			
										7	30			TLL	2200		2200			
BM108	2000X1830/1500	16	30				BLL			8	30	FROM BM107		TCL				10	5@125 LE	TRIPLES
		12	15				SHEF			7	30	FROM BM103		TLL				10	@300 REM	TRIPLES
										17	35			TLA	4000		4300			
										17	35			TLL	2000		2000			
BM109	2000X1500	19	35				BLL			17	35	FROM BM108		TCL				15	@100	FIVE SETS
		14	35				BLA			17	35	FROM BM108		TLL						
		12	15				SHEF			11	35			TLA	4300		3100			
										8	35			TLL	2000		2000			
BM110	2000X1100	15	35				BLL			11	35	FROM BM108		TCL				10	@300	TRIPLES
		8	15				SHEF			8	35	FROM BM109		TLL						
										6	35			TLA	3100		3100			
										5	35			TLL	1400		1400			
BM111	2000X1100	6	25				BLL			6	35	FROM BM105		TLC				10	@300	TRIPLES
		8	15				SHEF			5	35	FROM BM103		TLL						
										7	35			TLA	3100		4300			
										7	30			TLL	2000		2200			
BM112	2000X1100	10	30				BLL			7	35	FROM BM105		TCL				10	8@200 RE	TRIPLES
		10	30				BLA			7	30	FROM BM111		TLL				10	10@150 LE	TRIPLES
		8	15				SHEF			8	35			TLA	4300	3700		10	@300 REM	TRIPLES
										7	30			TLL	2000		2200			
BM113	2000X1100	10	30				BLL			8	35	FROM BM107		TCL				10	@300	TRIPLES
		10	30				BLA			7	30	FROM BM112		TLL						
		8	15				SHEF			9	35			TLA	2600					
BM114	2000X1500	18	35				BLL			6	35		2600	TLA				15	5@100 RE	FIVE SETS
		14	35				BLA			5	35		1400	TLA				15	@200 REM	TRIPLES
		10	15				SHEF			16	35			TLA	3400		4900			
										9	35			TLL	2000		2000			
BM115	2000X1500	18	35				BLL			16	35	FROM BM107		TCL				15	10@150 RE	FIVE SETS
		12	35				BLA			9	35	FROM BM114		TLL				15	@300 REM	TRIPLES
		12	15				SHEF			12	35			TLA	3600					
										8	35			TLL	2000					
BM116	2000X1500	15	35				BLL			12	30		4100	TLA				15	@150	FOUR SETS
		11	30				BLA			10	25		2000	TLA						
		12	15				SHEF			15	35			TLA	4100		4400			
										12	35			TLL	2200		2100			

LEVEL 1 BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS								TOP BARS								STIRRUPS		REMARKS
		No.	1/2							No.	1/2							1/2	1/2	
BM117	2000X1000	15	35				BLL			15	35	FROM BM118		TCL				15	5@100 LE	FOUR SETS
		11	30				BLA			12	35	FROM BM116		TLL				15	@150 REM	TRIPLES
		12	15				SHEF			15	35			TLA	4400		3100			
										12	35			TLL	2100		2100			
BM118	2000X1100	13	30				BLL			15	35	FROM BM117		TCL				10	@200	DOUBLES
		8	15				SHEF			12	35	FROM BM117		TLL						
BM119	2000X1100	10	30				BLL			8	30	FROM BM119		TCL				10	@200	DOUBLES
		8	15				SHEF			7	30	FROM BM119		TLL						
										9	35			TLA	3100		4300			
										8	30			TLL	1400		1400			
BM120	2000X1100	10	35				BLL			9	35	FROM BM119		TCL				10	2@100 LE	TRIPLES
		10	30				BLA			8	30	FROM BM119		TLL				10	@200 REM	TRIPLES
		8	15				SHEF			10	35			TLA	FROM BM121					
										6	30			TLL	FROM BM121					
BM121	2000X1100	6	25				BLL			10	35	4200		TLA		6800		10	@200	DOUBLES
		8	15				SHEF			6	30	2000		TLL		2800				
BM122	2000X1100	18	35				BLL			10	35	FROM BM120		TCL				15	2N@125 RE	TRIPLES
		10	30				BLA			6	30	FROM BM119		TLL				15	3N@125 LE	TRIPLES
		8	15				SHEF			10	35			TLA	4800			15	@200 REM	TRIPLES
										4	30			TLL	2700					
BM123	2000X1370/1500	20	35				BLL			7	35		4400	TLA				15	2N@125 RE	DOUBLES
		17	35				BLA			5	30		2500	TLL				15	5N@150 LE	DOUBLES
		10	15				SHEF			12	35			TLA	6400		5000	15	@200 REM	DOUBLES
										4	30			TLL	2800		2800			
BM124	2000X900	8	25				BLL			12	35	FROM BM122						15	5@200 RE	DOUBLES
		8	15				SHEF					DELETED						15	5@200 LE	DOUBLES
																		15	@300 REM	DOUBLES
BM125	2000X1000	12	35				BLL			9	30		5000	TLA				10	10@200 RE	TRIPLES
		12	15				SHEF			12	35			TLA	4800		7200	10	10@200 LE	TRIPLES
										10	30			TLL	3000		3000	10	@300 REM	TRIPLES
BM126	2000X1000	14	35				BLL			12	35	FROM BM125		TCL				10	3@150 RE	TRIPLES
		10	30				BLA			10	30	FROM BM125		TLL				10	7@200 LE	TRIPLES
		10	15				SHEF			12	35			TLA	4800		4400	10	@300 REM	TRIPLES
										10	30			TLL	2300		2300			
BM127	2000X1100	13	35				BLL			12	35	FROM BM125		TCL				10	7@200 RE	TRIPLES
		8	15				SHEF			10	30	FROM BM125		TLL				10	7@200 LE	TRIPLES
										8	35			TLA	4800		4400	10	@300 REM	TRIPLES
										8	30			TLL	2300		2300			
BM128	2000X1100	15	35				BLL			8	35	FROM BM127						10	4N@100 RE	TRIPLES
		8	15				SHEF			8	30	FROM BM127		TLL				10	7@200 LE	TRIPLES
										8	35			TLA	4800			10	@300 REM	TRIPLES
										8	30			TLL	2300					
BM129	4000X900	5	20				BLL			3	25		5000	TLA				10	@300	
		8	15				SHEF			2	15		2300	TLA						
										2	15		2300	TLL						
										3	25			TLA	5100		6800			
										5	25			TLL	2300		5500			
BM129A	4000X900	3	20				BLL			3	25	FROM BM129		TLA				10	@300	
		8	15				SHEF			2	25	FROM BM129		TLA						
										5	25	FROM BM129		TLA						
BM130	4000X900	3	20				BLL			3	25	FROM BM129		TLA				10	@300	
		2	25				BLL			2	25	FROM BM129		TLA						
		2	25				BLA			5	25	FROM BM129		TLA						
		8	15				SHEF			3	25		6800	TLA						
										3	25			TLA	4300		6100			
										2	25			TLA	3300		3800			
										5	25			TLL	3300		3800			
BM130A	4000X900	3	20				BLL			3	25	FROM BM129		TLC				10	@300	
		8	15				SHEF			2	25	FROM BM129		TLC						
										5	25	FROM BM129		TLL						

LEVEL 1 BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS								TOP BARS								STIRRUPS		REMARKS
		No.	1/2							No.	1/2							1/2	1/2	
BM131	4000X950	3	20				BLL			3	25	FROM BM130		TLA				10	@300	
		2	25				BLA			2	25	FROM BM130		TLA						
		8	15				SHEF			5	25	FROM BM130		TLA						
										3	25			TLA	5200		7000			
										2	25			TLA	2700		5000			
										5	25			TLL	2700		5000			
BM131A	4000X950	3	20				BLL			3	25	FROM BM132		TLA				10	@300	
		8	15				SHEF			2	25	FROM BM132		TLA						
										5	25	FROM BM132		TLL						
BM132	4000X950	5	20				BLL			3	25	FROM BM131		TLA				10	@300	
		2	15				BLA			2	25	FROM BM131		TLA						
		8	15				SHEF			5	25	FROM BM131		TLA						
										3	25			TLA	6100					
										2	20			TLA	2500					
										2	20			TLL	2500					

LEVEL 2 BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS								TOP BARS								STIRRUPS		REMARKS
		No.	1/2							No.	1/2							1/2	1/2	
BM		6	45				BLL			6	25		5000	TLA				10	@125	IN TRIPLES
										6	45			TLA	3400		3100			
										6	45			TNL	1350		1350			
										2	45			TLL	1350		1350			
BM202	1100X600	6	45				BLL			6	45	FROM BM201						10	@100	IN TRIPLES
		5	30				BLA			6	45	FROM BM201								
										2	45	FROM BM201								
										5	45			TLA	2900					
										3	45			TLA	1500					
										6	45			TLL	1900					
BM203	1100X600	8	30							5	45	FROM BM202						10	@150	IN DOUBLES
										3	45	FROM BM202								
										8	45	FROM BM202								
										5	45			TLA	2900					
										3	45			TLA	1500					
										8	45			TLL	1900					
BM204	1100X600	8	35				BLL			6	35	FROM BM203						15	@100	IN TRIPLES
		8	30				BLA			5	30	FROM BM203								
										8	30	FROM BM203								
										5	35			TLA	4400		3400			
										4	35			TLA	2250		2250			
										6	35			TLL						
BM205	1600X900	5	35				BLL			5	45			TLA				15	@100	IN TRIPLES
		5	30				BLL			3	45			TLA						
		8	30				BLA			8	45			TLA						
										4	35			TLA						
										6	35			TLL						
	1600x900	7	35				BLL			7	30							15	@100	IN FOUR SETS
		7	30				BLA			4	35			TLA						
		16	35							16	35									
		7	30				BLL			7	35		2300					15	@100	IN TRIPLES
		7	30				BLA			7	30			TLL						
BM206	800X600	5	25				BLL			5	25		3100	TLA				15	@100	
		2	20				BLA			5	30			TLA	2900		3600			
										2	35			TLA	1700		1700			
										4	30			TLL	1700		1700			
BM209	800X600	8	35				BLL			5	30	FROM BM206						15	@100	IN
		8	35				BLA			2	35	FROM BM206								
										2	35									
										4	35									
										4	30									
BM210	1200X600	6	35				BLL			4	35							10		IN T
		4	30				BLA			2	35									
										6	30									
										4	35									
										4	30									
BM211	1200X600	7	30				BLL			6	30									IN T
										4	35									
										4	30									
										5	30									
BM212	1000X600	9	45				BLL			9	45		5200					15	@100	IN FOUR SETS
		9	45				BLA			5	30		3300							
										5	35									
BM213	1000X600	9	45				BLL							TLA				15	@100	IN FOUR SETS
		6	35				BLA						2000	TLL						
BM214@M216	1600X1000/850	10	30				BLL			7	30		4000	TLA				10	15@140RE	IN DOUBLES
										4	30		2300	TLA				10	15@140LE	IN TRIPLES
										8	30			TLA	5600		5000	10	@140REM	
										5	35			TLA	2300					
										4	30			TLL	2300					
BM215@M217	1600X850/1500	10	30							8	30	FROM BM214@M216						10	15@140LE	IN TRIPLES
										5	30	FROM BM214@M216						10	15@140RE	IN DOUBLES
										4	30	FROM BM214@M216						10	@140REM	
										6	30			TLA	4000					
										4	30			TLA	2300					
BM218	520X1100	3	30				BLL			3	30		7000	TLA				15	2N@100-RE	IN DOUBLES
		3	30				BLA			3	30		2500	TLA				15	1+4@125-LE	
		15					SHEF			4	25		2500	TLL				15	@300 REM	
										3	30		5500	5500						
										3	30			TLA	2500		2500			
										6	30			TLL	2500		3500			
	1200X1500	6	30							3	30	FROM BM218						10	@200	
		10	15				SHEF			3	30	FROM BM218								
										6	30	FROM BM218								

LEVEL 2 BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS								TOP BARS								STIRRUPS		REMARKS
		No.	1/2							No.	1/2							1/2	1/2	
BM219	520X1500	6	30				BLL			3	30							15	@300	
		8	25				BLA			3	30	FROM BM218								
		10	15				SHEF			6	30	FROM BM218								
										3	30			TLA	4000					
										2	30			TLA	2300					
										3	25			TLL	2300					
BM220@M224	800X1300	3	25				BLL			2	15		5000	TLA				10	@300	
		2	30				BLL			2	30			TLA						
		8	15				SHEF			2	30			TLA						
										2	15			TLA						
BM221@M225	800X1300	3	25				BLL			2	30							10	@300	
		8	15				SHEF			2	30									
										2	15									
										3	35			TLA	4600		3500			
										3	35			TLL	1900		1900			
BM222	1500X550	5	30				BLL			7	30							10	11@75LE	
		6	35				BLL			4	35							10	@100REM	
										3	35			TLA	4600		3500	10	15@125LE	IN DOUBLES
										3	35			TLL	1900		1900	10	30@75RE	IN DOUBLES
										4	30			TLA	2700			10	@175REM	IN DOUBLES
										2	30			TLA	1500					
BM223	1500X550	7	30				BLL			7	30							10	11@75LE	
										4	35							10	@100REM	
										3	35									
										4	30			TLA	2700					
										2	30			TLA	1500					
BM226	700X1300	5	30				BLL			3	20			TLA				10	@300	
		12					BLL													
	1000X600																			
										8	30							10	@300	TRIPLES
										8	30									

PARKING LEVEL BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS								TOP BARS								STIRRUPS		REMARKS
		No.	1/2							No.	1/2							1/2	1/2	
BMP-01	600X400	5	15				BLL			5	15			TLA				10	@200	
		5	15				BLA			5	15			TLL						

Not Part of this Permit

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Unless Authorized By The Architect Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.(416) 635 7870
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C. Provisions Ontario 20/Jul/2016
FIRE SERVICES
O.B.C. (S)

TORONTO Building
RECEIVED
20/Jul/2016

No.	Issued For	Date
10	REISSUED FOR PERMIT	JULY 20,2016
8	BUILDING PERMIT ISSUED FOR TENDER	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC.15,2015

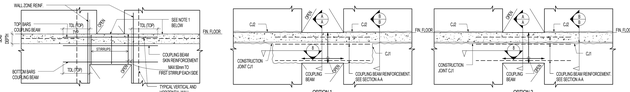
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
BEAM SCHEDULES

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

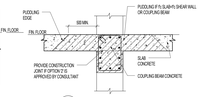
Scale	1 : 1
Drawn by	DC
Checked by	BK/BBS
Project No.	2014-0031
Date	JULY 20,2016
Drawing No.	S2-03

Plot Date: 7/20/2016 11:15:39 AM

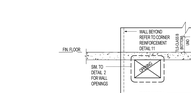


NOTES:
1. OPTION 1
IF APPROVED BY CONSULTANT, FOUR COUPLING BEAM TO UNDERSIDE OF SLAB WITH THE WALLS. HORIZONTAL CJ BETWEEN THE SLAB AND THE WEB OF COUPLING BEAM. PUDDLE SLAB IF FIN. SLAB = FIN.FLOOR ELEVATION BEAM (SEE DETAIL B-B)
2. OPTION 2
IF APPROVED BY CONSULTANT, FOUR COUPLING BEAM TO UNDERSIDE OF SLAB WITH THE WALLS. HORIZONTAL CJ BETWEEN THE SLAB AND THE WEB OF COUPLING BEAM. PUDDLE SLAB IF FIN. SLAB = FIN.FLOOR ELEVATION BEAM (SEE DETAIL B-B)

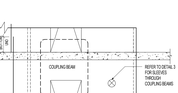
1 TYPICAL COUPLING BEAM REINFORCEMENT DETAIL



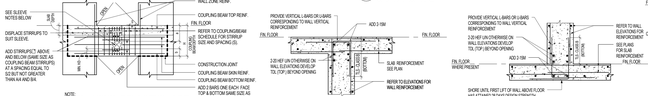
OPTION 1



OPTION 2

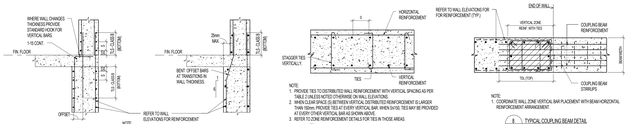


A TYPICAL COUPLING BEAM DETAIL OF PUDDLING AND CONSTRUCTION JOINT ARRANGEMENT

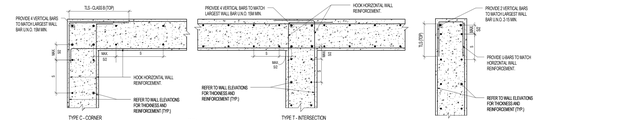


NOTE:
1. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL SLEEVES LARGER THAN A/4
2. IF MORE THAN (MAX 3 SLEEVES WITH A/4HE SHALL BE PLACED WITH MIN 250mm CLEAR BETWEEN SLEEVES.

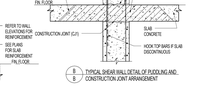
3 TYPICAL ADDITIONAL REINFORCEMENT COUPLING BEAM SLEEVES UP TO H/4



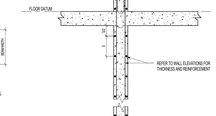
6 TYPICAL DETAIL AT WALL THICKNESS TRANSITIONS



4 TYPICAL DETAIL AT TOP OF WALLS AND BELOW OPENINGS WHERE COUPLING BEAM IS NOT PROVIDED



5 TYPICAL DETAIL AT BOTTOM OF WALLS AND ABOVE OPENINGS WHERE COUPLING BEAM IS EXACT PROVIDED

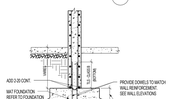


7 TYPICAL TIE DETAIL FOR DISTRIBUTED VERTICAL WALL REINFORCEMENT

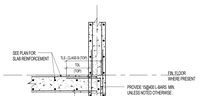
10 TYPICAL DETAIL OF SHEAR WALL SUPPORTED BY BEAM

NOTE:
1. SPACING OF VERTICAL DISTRIBUTED REINFORCEMENT SEE WALL ELEVATIONS.
1. REFER TO TABLE 2 TO DETERMINE # TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT ARE REQUIRED. SEE DETAIL 7 WHEN TIES ARE REQUIRED

11 TYPICAL WALL DETAILS WITHOUT ZONE REINFORCEMENT



12 TYPICAL SHEAR WALL DOWELS AT FOUNDATION



13 TYPICAL SLAB TO SHEAR WALL CONNECTION WHERE SLAB IS BEARING ON ONE SIDE OF THE WALL ONLY

2 TYPICAL ADDITIONAL REINFORCEMENT FOR WALL OPENINGS UP TO 750mmX750mm SIZE

SHEAR WALL NOTES:
1. SHEAR WALL ELEVATIONS SERVE THE PURPOSE OF DEFINING THE ZONE, DISTRIBUTED AND COUPLING BEAM REINFORCEMENT. THE ELEVATIONS ARE NOT TO BE USED FOR DETAILING OF THE WALLS. FOR DETAILING OF SHEAR WALL ELEVATIONS SHOULD BE READ IN CONJUNCTION WITH SCHEDULES AND TYPICAL SHEAR WALL DETAILS. THE GRAVITY ELEMENTS (COLUMNS, SLABS, BEAMS, FOUNDATION SYSTEM, ETC.) ARE SHOWN CONCEPTUALLY FOR CLARIFICATION ONLY FOR SIZE, GEOMETRY, STEPS, ETC. OF THE GRAVITY ELEMENTS REFER TO THE APPROPRIATE PLANS, DETAILS AND SCHEDULES
2. REFER TO TABLE 1 FOR SHEAR WALL REINFORCEMENT (NWR)
3. FOR ALL GARAGE SLABS, WALLS AND COLUMNS, CONCRETE SHALL CONFORM TO THE LATEST EDITION OF CSA-A23.1 AND MEET THE REQUIREMENTS FOR EXPOSURE CLASS F(PCI)50-C-1 AS DEFINED IN TABLE 14 OF CSA STANDARD CAN/CSA-A23.1 LATEST EDITION. REFER TO THE SPECIFICATIONS
4. PROVIDE WALL REINFORCEMENT IN ACCORDANCE WITH THE VALUES INDICATED ON THE WALL ELEVATIONS OR PLANS. WHERE NWR IS INDICATED PROVIDE THE NOMINAL WALL REINFORCEMENT AS SHOWN IN TABLE 1.

TABLE 1: NOMINAL WALL REINFORCEMENT (NWR)

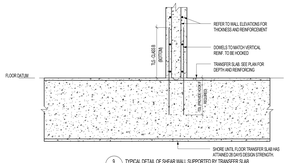
WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT		WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT	
	HORIZONTAL	VERTICAL		HORIZONTAL	VERTICAL
150	15@300 (CENTERED)	15@450 (CENTERED)	400	15@400 HEF	15@600 HEF
200	15@400 HEF	15@600 HEF	450	15@400 HEF	15@600 HEF
250	15@400 HEF	15@600 HEF	500	15@300 HEF	15@450 HEF
300	15@400 HEF	15@600 HEF			
350	15@400 HEF	15@600 HEF			

5. WALL REINFORCEMENT IS VERTICAL AND HORIZONTAL EACH FACE (HEF) UNLESS NOTED OTHERWISE
6. PROVIDE TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT IF THE BAR SIZE IS LARGER THAN 20M OR IF BAR SPACING IS LESS THAN THAT OUTLINED IN TABLE 2. REFER TO DETAIL 7 FOR ADDITIONAL INFORMATION.
7. UNLESS OTHERWISE SHOWN PROVIDE DOWELS FROM SHEAR WALL CAPS, OR FOOTINGS INTO SHEAR WALLS TO MATCH VERTICAL WALL REINFORCEMENT ABOVE AND BELOW
8. UNLESS NOTED OTHERWISE AT TOP OF ALL SHEAR WALLS PROVIDE 15 @ 400 DOWELS FROM WALL TO SLAB. WHERE WALL IS CONTINUOUS ABOVE SLAB SEE DETAIL 16.
9. PROVIDE T.S.C-CLASS B (BOTTOM FACE) OF ALL VERTICAL BARS
REFER TO DETAIL C22B, fy = 400MPa OR C32B fy = 500MPa FOR LENGTHS
10. REFER TO DETAIL C22B, fy = 400MPa OR C32B fy = 500MPa FOR LENGTHS OF L-BOX
REFER TO DETAIL C22B, fy = 400MPa OR C32B fy = 500MPa FOR LENGTHS
11. MINIMUM DOWEL LENGTH SHALL BE (vT-3) BOTTOM
12. PLACE HORIZONTAL REINFORCEMENT IN OUTSIDE FACE OF WALL UNLESS NOTED OTHERWISE.
13. FOR WALLS THAT ARE UNBRACED FOR TWO STOREYS OR MORE PROVIDE EITHER CONTINUOUS VERTICAL REINFORCEMENT FOR THE FULL HEIGHT OF THE WALL OR SPLICE THE VERTICAL REINFORCEMENT AT EACH FLOOR LEVEL. WHERE SPLICES ARE PROVIDED AT EACH FLOOR LEVEL, PROVIDE TENSION LAP SPLICE (TOP) FOR ALL VERTICAL REINFORCEMENT. IF BARS OF DIFFERENT DIAMETER ARE SPLICED USE THE SPLICE LENGTH OF THE LARGER BAR.
14. UNLESS NOTED OTHERWISE, REFER TO THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF WALL OPENINGS. THE CONTRACTOR SHALL PROVIDE, FOR THE ENGINEERS REVIEW, SHOP DRAWINGS SHOWING ALL OPENINGS IN WALLS AND SLABS (INCLUDING SIZE AND LOCATION OF SLEEVES)
15. IF A WALL SLEEVE 75mm DIAMETER AND LARGER IS NOT SHOWN ON OTHER THAN THOSE WHICH ARE INDICATED ON PLAN OR ELEVATION SHALL BE MADE WITHOUT THE APPROVAL OF THE ENGINEER.
16. WHERE MASONRY VENEER FACES A WALL, PROVIDE STANDARD CONCRETE WALL ANCHOR SLOTS. REFER TO TYPICAL DETAILS.
17. CLEAR CONCRETE COVER SHALL BE 20mm FOR WALLS ABOVE GRADE AND 40mm FOR WALLS BELOW GRADE UNLESS NOTED OTHERWISE.

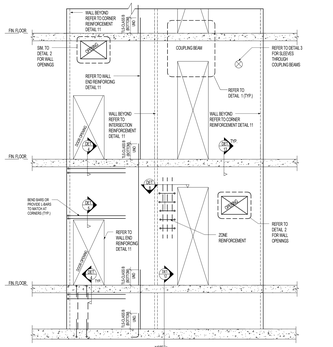
TABLE 2: TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT

WALL THICKNESS (mm)	TIE SPACING FOR DISTRIBUTED VERTICAL REINFORCEMENT fy = 400MPa							
	10M		15M		20M		25M	
	VERTICAL BAR SPACING (mm)	TIE VERTICAL SPACING (mm)	VERTICAL BAR SPACING (mm)	TIE VERTICAL SPACING (mm)	VERTICAL BAR SPACING (mm)	TIE VERTICAL SPACING (mm)	VERTICAL BAR SPACING (mm)	TIE VERTICAL SPACING (mm)
150	200	150	450	300	600	300		
200	150	150	300	300	400	300	250	250
250	100	100	225	225	400	300	300	300
300	100	100	150	150	300	300	400	300
350	100	100	150	150	300	300	400	300
400	100	100	150	150	300	300	400	400
450			150	150	300	300	400	400
500			150	150	300	300	400	400
600			150	150	300	300	400	400

NOTES:
1. TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT ARE 10M
2. THIS TABLE IS BASED ON N = 0.6Øf'c A (N=0.4 + 0.6Øf'c/1500) TO VERTICAL SPACING IN TABLE BY MULTIPLYING BY 0.75.
3. DISTRIBUTED VERTICAL REINFORCEMENT WITH BAR SPACING LESS THAN THAT INDICATED FOR 10M, 15M AND 20M BARS SHALL BE TIED AT MINIMUM TIE VERTICAL SPACING INDICATED.
4. DISTRIBUTED VERTICAL REINFORCEMENT WITH BAR SIZES LARGER THAN 20M SHALL BE TIED AT MINIMUM TIE VERTICAL SPACING INDICATED.
5. SEE ALSO DETAIL 7



9 TYPICAL DETAIL OF SHEAR WALL SUPPORTED BY TRANSFER SLAB

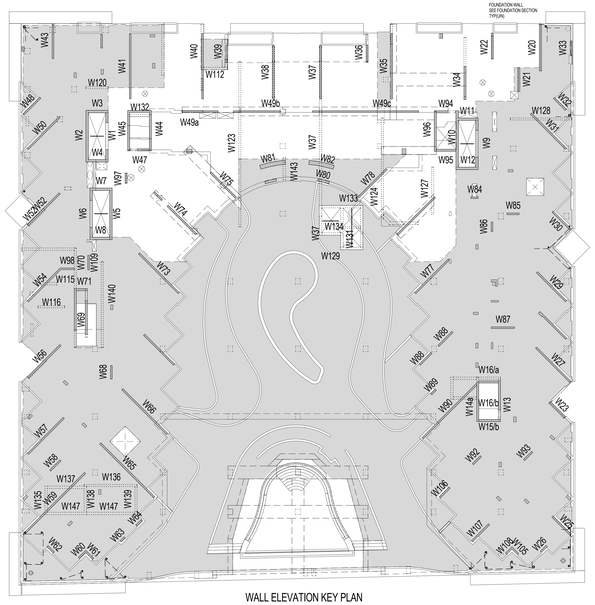


14 TYPICAL WALL ELEVATIONS

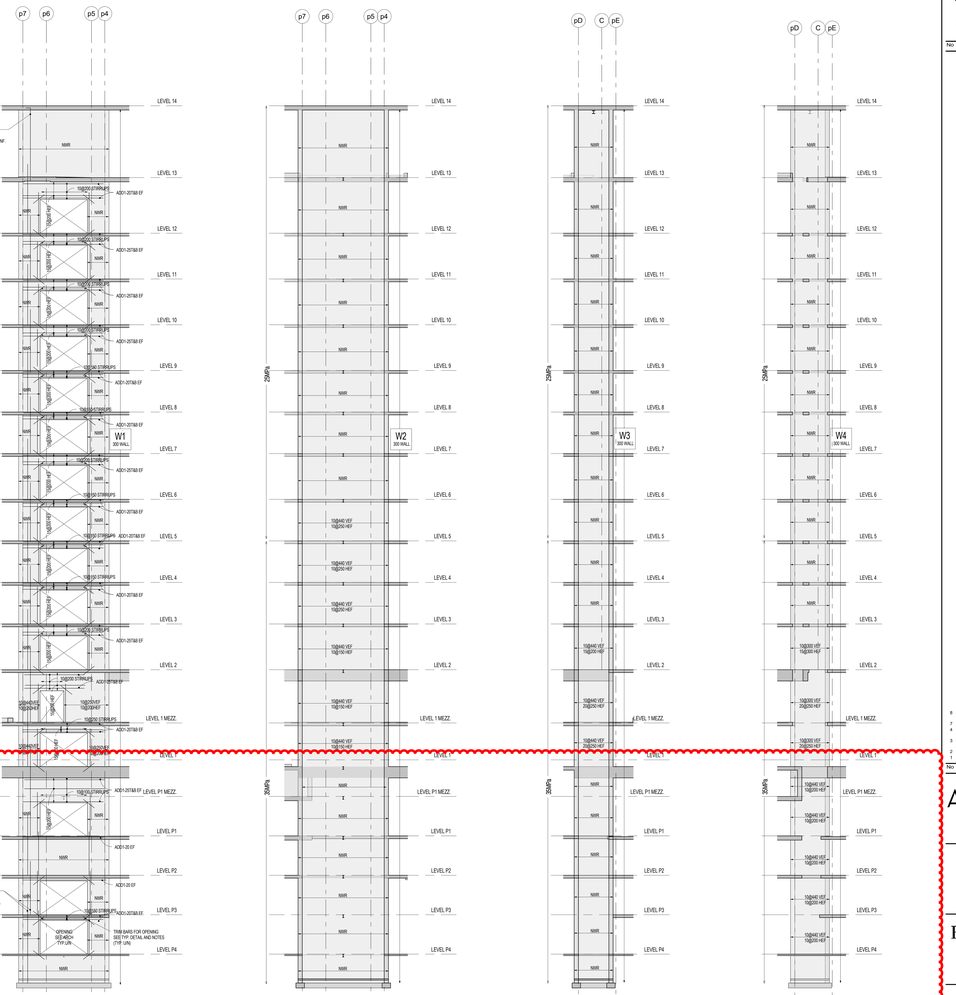
NOTES:
1. REFER TO WALL DETAILS WITH OR WITHOUT ZONE REINFORCEMENT SHADED ON WALL ELEVATIONS

LEGEND

- WALLS AND COLUMN SHADED AS THUS INDICATE WALL AND COLUMN BELOW SLAB
- WALLS AND COLUMN SHADED AS THUS INDICATE WALL AND COLUMN ABOVE SLAB
- INDICATES COLUMN NUMBER OF BELOW SLAB. REFER TO COLUMN SCHEDULE
- INDICATES COLUMN NUMBER OF ABOVE SLAB. REFER TO COLUMN SCHEDULE



WALL ELEVATION KEY PLAN
1 : 175



APPROVED UNDER THIS PERMIT

W1 WALL ELEVATION
S3-01 1 : 100

W2 WALL ELEVATION
S3-01 1 : 100

W3 WALL ELEVATION
S3-01 1 : 100

W4 WALL ELEVATION
S3-01 1 : 100

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Part Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

PROFESSIONAL ENGINEER PROVINCE OF ONTARIO MAY 13, 2016 T. TANASESCHI

PROFESSIONAL ENGINEER PROVINCE OF ONTARIO MAY 13, 2016 S. BANDHARA-SHAH

stephenson ENGINEERING
2550 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 T 647.426.4366 TF 866.426.4366
www.stephenson-eng.com I info@stephenson-eng.com

No.	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00

ZONING		
O.B.C.	Emphasis: Content	20/Jul/2016
FIRE SERVICES		
O.B.C. (S)		

No.	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
4	BUILDING PERMIT SUBMISSION	JUNE 12,2015
3	ISSUED FOR ART REVIEW	MAY 21,2015

AQUAVISTA
AT BAYSIDE TORONTO

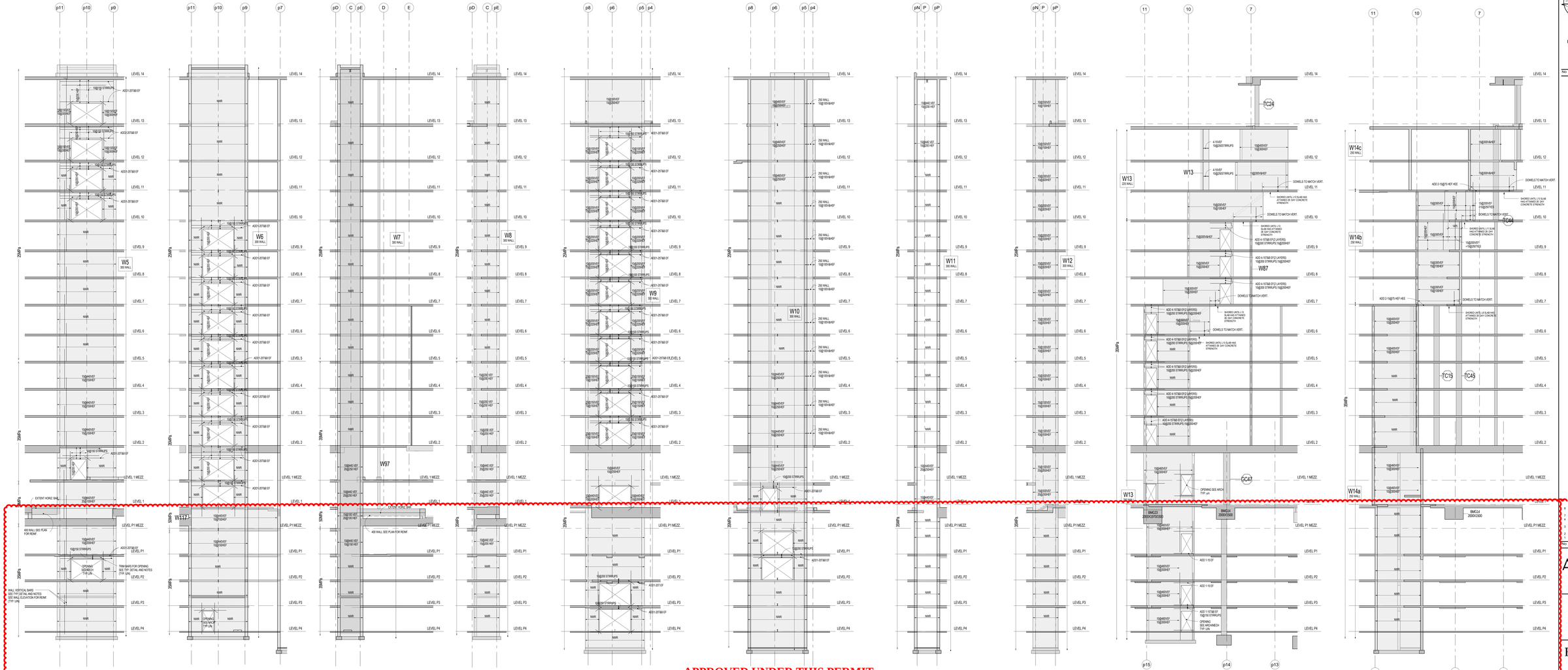
Drawing Title
WALL ELEVATIONS AND NOTES

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	BK/BBS
Project No.	20140031
Date	MAY 12,2016
Drawing No.	S3-01

TORONTO Building RECEIVED 14/Jul/2016

Plot Date: 5/12/2016 10:00:55 AM



W5 WALL ELEVATION
S3-02 1 : 100

W6 WALL ELEVATION
S3-02 1 : 100

W7 WALL ELEVATION
S3-02 1 : 100

W8 WALL ELEVATION
S3-02 1 : 100

W9 WALL ELEVATION
S3-02 1 : 100

W10 WALL ELEVATION
S3-02 1 : 100

W11 WALL ELEVATION
S3-02 1 : 100

W12 WALL ELEVATION
S3-02 1 : 100

W13 WALL ELEVATION
S3-02 1 : 100

W14 WALL ELEVATION
S3-02 1 : 100

APPROVED UNDER THIS PERMIT

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Nor Is It Loanable Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

PROFESSIONAL ENGINEER — MAY 12,2016 — T. TANSLEY — POWER ENGINEERING — 100117

PROFESSIONAL ENGINEER — MAY 12,2016 — S. BARCHMAN-SHIH — POWER ENGINEERING — 100117

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T. 647.347.1830 EXT 7015
www.stephenson-eng.com I info@stephenson-eng.com

No	Revision	Date

City of TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C. Examiner, Ontario 20/Jul/2016
PAY SERVICES
O.B.C. (S)

No	Issued For	Date
5	BUILDING PERMIT RESUBMISSION	MAY 12,2016
4	ISSUED FOR STEEL TENDER	DEC 18,2015
3	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
2	BUILDING PERMIT RESUBMISSION	JULY 22,2015
1	BUILDING PERMIT SUBMISSION	JUNE 12,2015
0	ISSUED FOR IBT REVIEW	MAY 01,2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

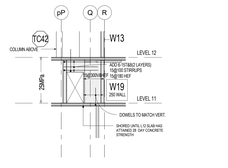
Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	2014-00031
Date	MAY 12,2016
Drawing No.	S3-02

City of Toronto Building RECEIVED 14/Jul/2016

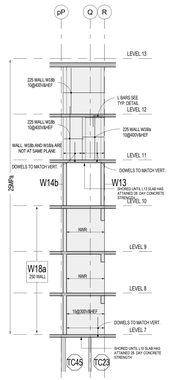
W15 WALL ELEVATION
S3-03 1 : 100

W16 WALL ELEVATION
S3-03 1 : 100

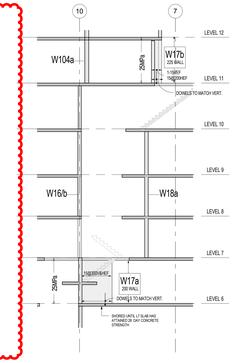
APPROVED UNDER THIS PERMIT



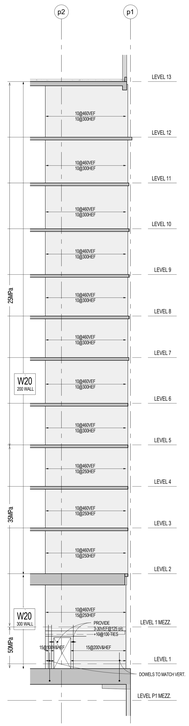
W19 WALL ELEVATION
S3-03 1 : 100



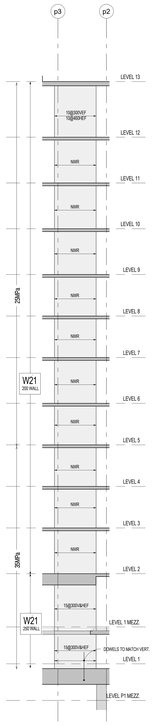
W18 WALL ELEVATION
S3-03 1 : 100



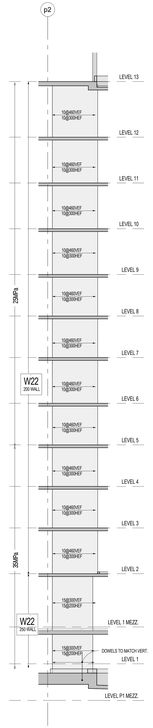
W17 WALL ELEVATION
S3-03 1 : 100



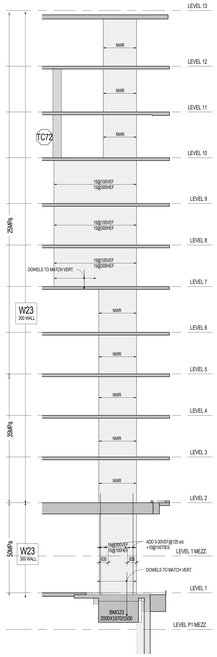
W20 WALL ELEVATION
S3-03 1 : 100



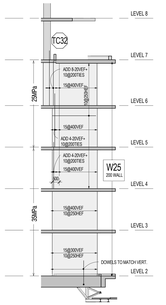
W21 WALL ELEVATION
S3-03 1 : 100



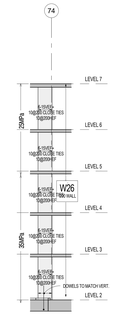
W22 WALL ELEVATION
S3-03 1 : 100



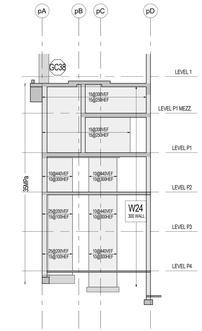
W23 WALL ELEVATION
S3-03 1 : 100



W25 WALL ELEVATION
S3-03 1 : 100



W26 WALL ELEVATION
S3-03 1 : 100



W24 WALL ELEVATION
S3-03 1 : 100

APPROVED UNDER THIS PERMIT

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Any Fashion Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

J. TANGLEVE — 100150684 — PROFESSIONAL ENGINEER — MAY 12,2016
S. BARCHMAN-SHEA — 100150684 — PROFESSIONAL ENGINEER — MAY 12,2016

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T 647.343.4078
www.stephenson-eng.com I info@stephenson-eng.com

No	Revision	Date

BUILDING TORONTO
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C.
Emanuela Gratton 20/Jul/2016
FIRE SERVICES
O.B.C. (S)

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

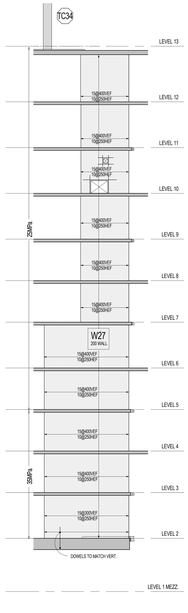
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
WALL ELEVATIONS

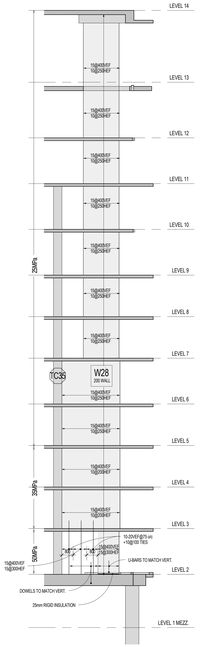
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	2014-0031
Date	MAY 12,2016
Drawing No.	S3-03

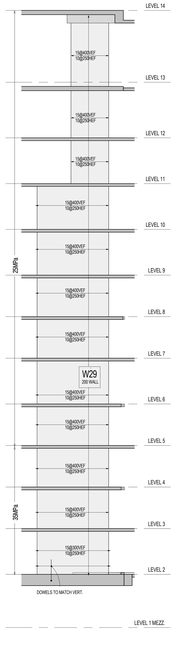
BUILDING TORONTO RECEIVED 14/Jul/2016



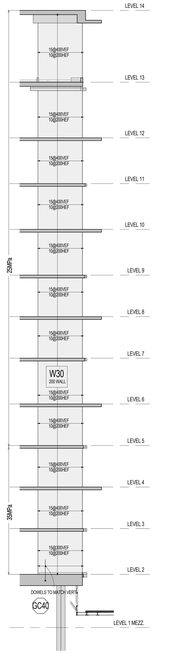
W27 WALL ELEVATION
S3-04 1 : 100



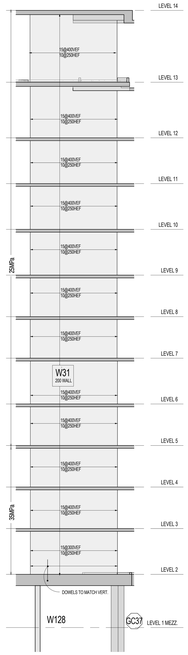
W28 WALL ELEVATION
S3-04 1 : 100



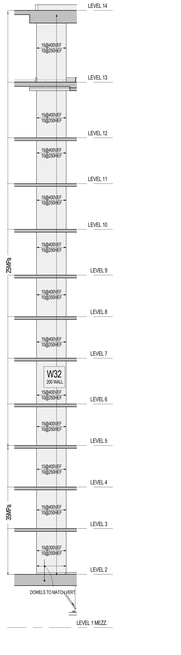
W29 WALL ELEVATION
S3-04 1 : 100



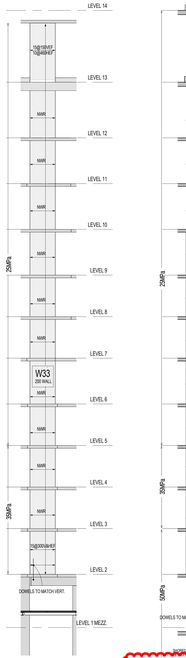
W30 WALL ELEVATION
S3-04 1 : 100



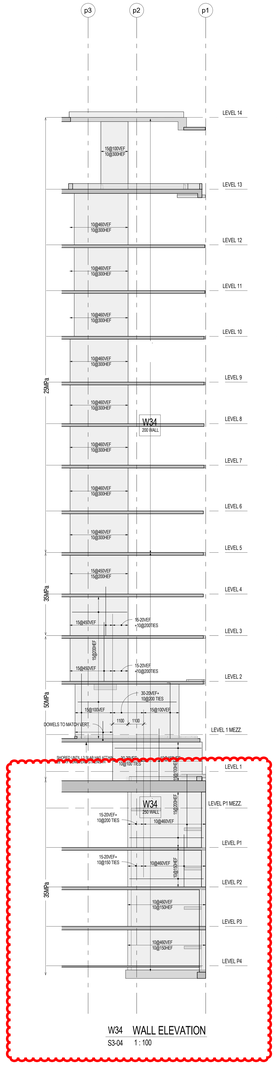
W31 WALL ELEVATION
S3-04 1 : 100



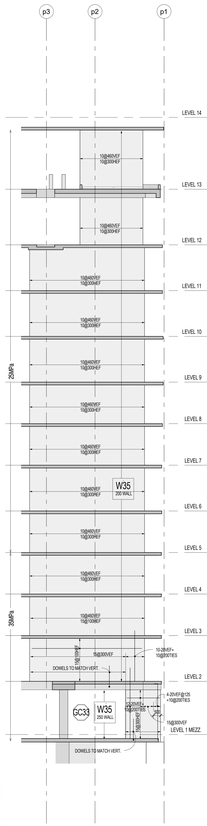
W32 WALL ELEVATION
S3-04 1 : 100



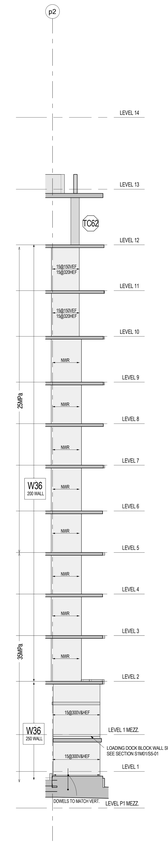
W33 WALL ELEVATION
S3-04 1 : 100



W34 WALL ELEVATION
S3-04 1 : 100



W35 WALL ELEVATION
S3-04 1 : 100



W36 WALL ELEVATION
S3-04 1 : 100

APPROVED UNDER THIS PERMIT

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.:(416) 495 7676
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C. Emanuel, Gerberg 20/Jul/2016
FIRE SERVICES
O.B.C. (S)

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
4	LOADING DOCK BLOCK WALL SUPPORT SEE SECTION 3/WD1/S5-01	
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

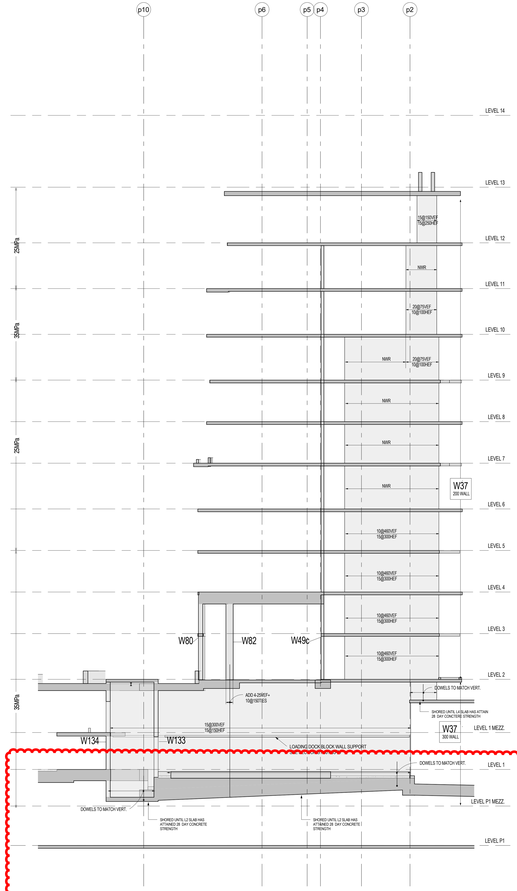
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
WALL ELEVATIONS

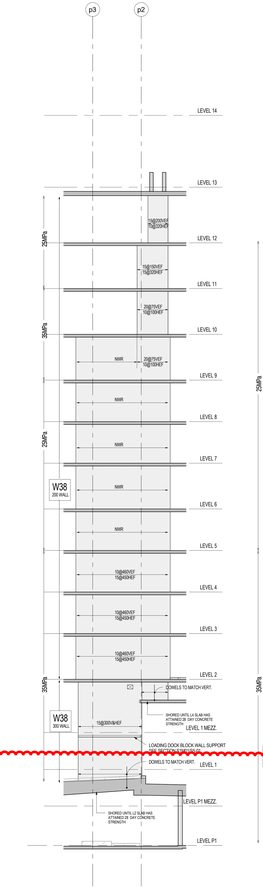
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	2014-0031
Date	MAY 12,2016
Drawing No.	S3-04

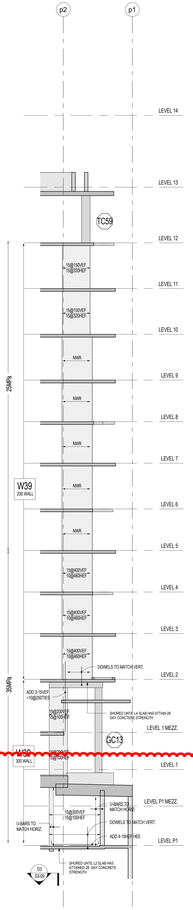
TORONTO Building RECEIVED 14/Jul/2016



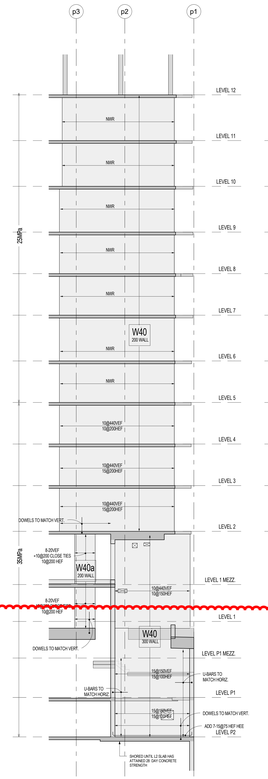
W37 WALL ELEVATION
S3-05 1 : 100



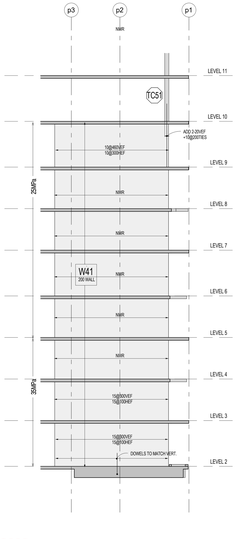
W38 WALL ELEVATION
S3-05 1 : 100



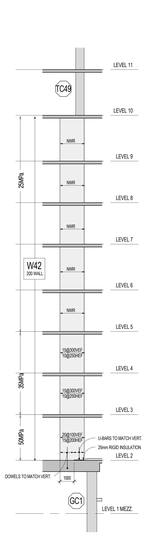
W39 WALL ELEVATION
S3-05 1 : 100



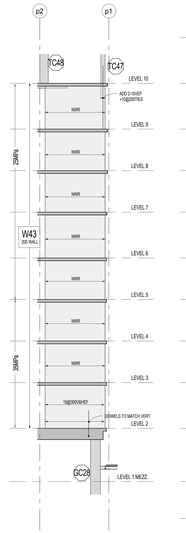
W40 WALL ELEVATION
S3-05 1 : 100



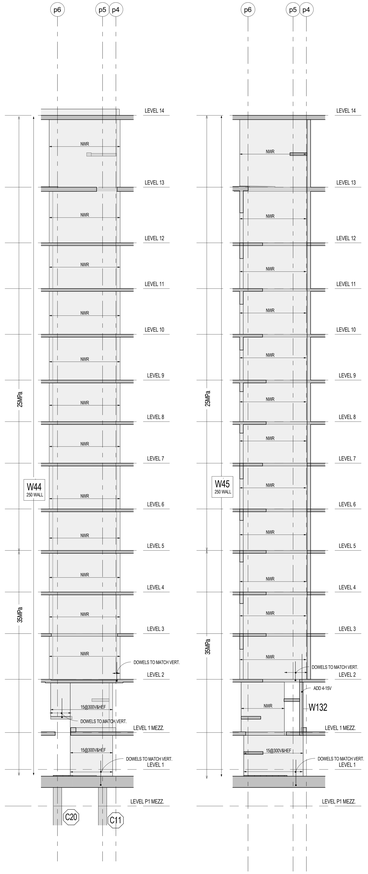
W41 WALL ELEVATION
S3-05 1 : 100



W42 WALL ELEVATION
S3-05 1 : 100



W43 WALL ELEVATION
S3-05 1 : 100



W44 WALL ELEVATION
S3-05 1 : 100

W45 WALL ELEVATION
S3-05 1 : 100

W46 WALL ELEVATION
S3-05 1 : 100

APPROVED UNDER THIS PERMIT

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T 647.343.1875
www.stephenson-eng.com I info@stephenson-eng.com

No	Revision	Date

BUILDING TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C.
Emphasis, Content
20/Jul/2016
FIRE SERVICES
O.B.C. (S)

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR IBT REVIEW	MAY 01,2015

AQUAVISTA
AT BAYSIDE TORONTO

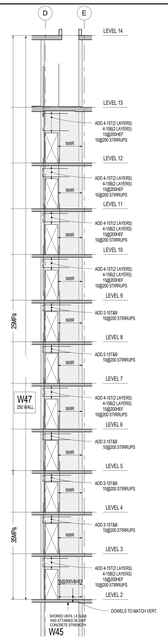
Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

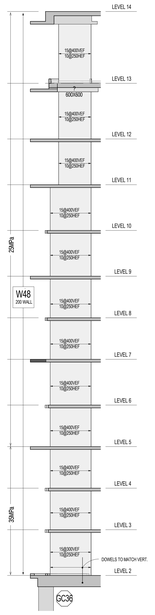
Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	20140031
Date	MAY 12,2016
Drawing No.	S3-05

BUILDING TORONTO Building RECEIVED 14/Jul/2016

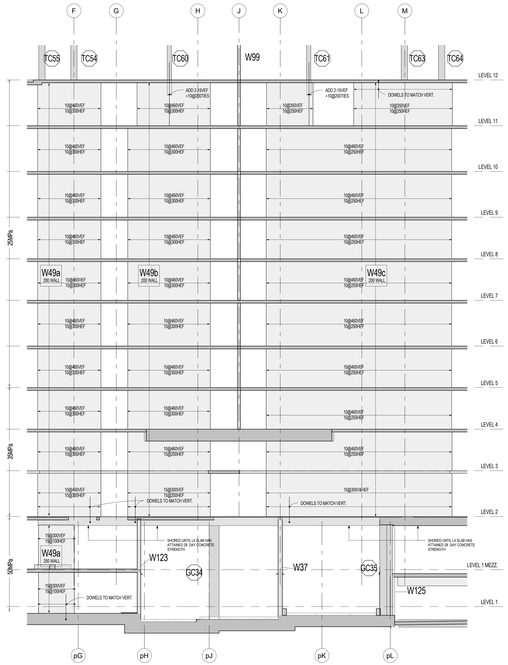
Plot Date: 5/12/2016 10:01:11 AM



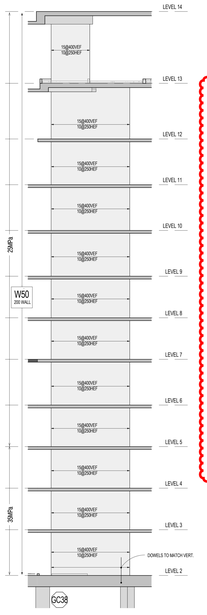
W47 WALL ELEVATION
S3-06 1 : 100



W48 WALL ELEVATION
S3-06 1 : 100

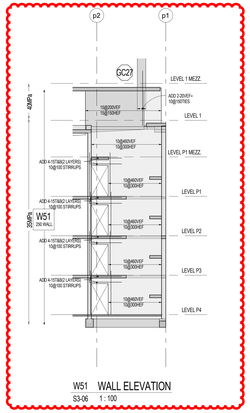


W49 WALL ELEVATION
S3-06 1 : 100



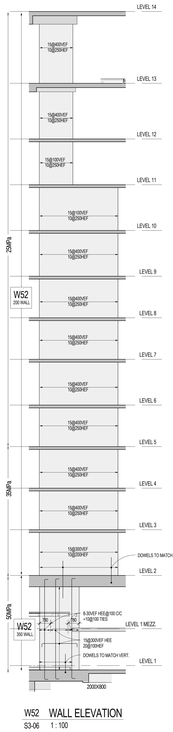
W50 WALL ELEVATION
S3-06 1 : 100

C10

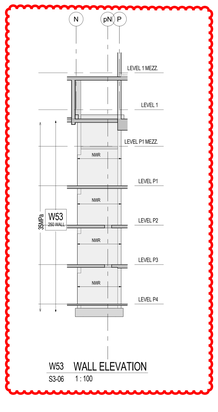


W51 WALL ELEVATION
S3-06 1 : 100

APPROVED UNDER THIS PERMIT

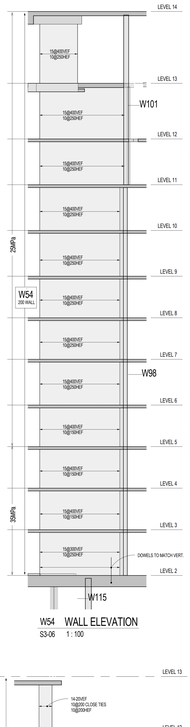


W52 WALL ELEVATION
S3-06 1 : 100

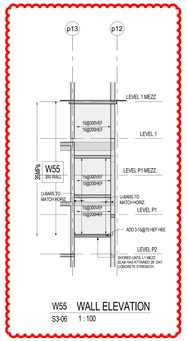


W53 WALL ELEVATION
S3-06 1 : 100

APPROVED UNDER THIS PERMIT

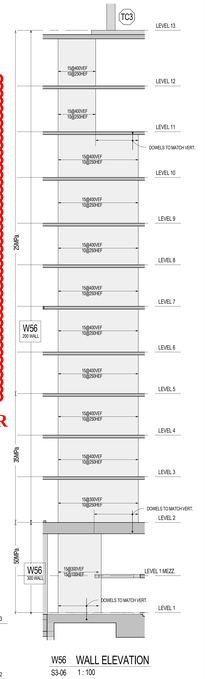


W54 WALL ELEVATION
S3-06 1 : 100

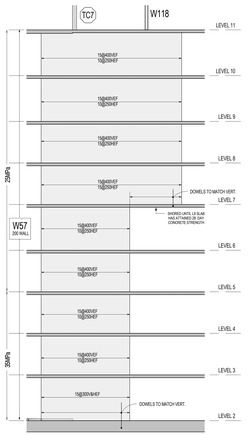


W55 WALL ELEVATION
S3-06 1 : 100

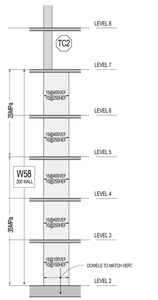
APPROVED UNDER THIS PERMIT



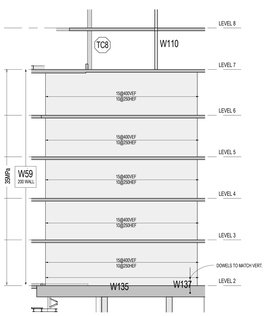
W56 WALL ELEVATION
S3-06 1 : 100



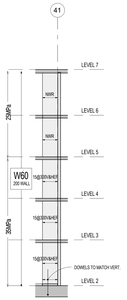
W57 WALL ELEVATION
S3-06 1 : 100



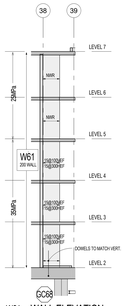
W58 WALL ELEVATION
S3-06 1 : 100



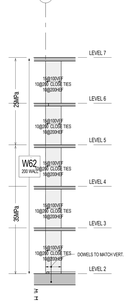
W59 WALL ELEVATION
S3-06 1 : 100



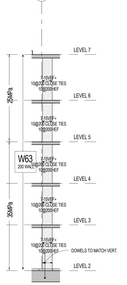
W60 WALL ELEVATION
S3-06 1 : 100



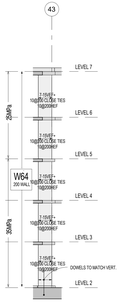
W61 WALL ELEVATION
S3-06 1 : 100



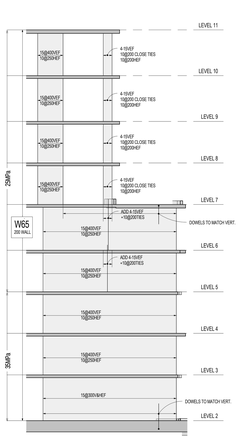
W62 WALL ELEVATION
S3-06 1 : 100



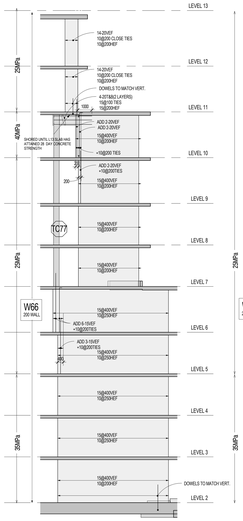
W63 WALL ELEVATION
S3-06 1 : 100



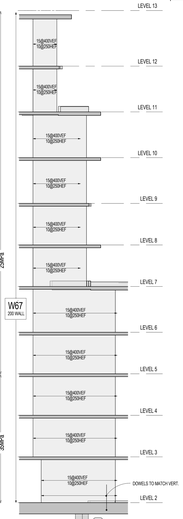
W64 WALL ELEVATION
S3-06 1 : 100



W65 WALL ELEVATION
S3-06 1 : 100



W66 WALL ELEVATION
S3-06 1 : 100



W67 WALL ELEVATION
S3-06 1 : 100

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Unless Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5H1 | Tel.(416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C. Provisions, Grading 20/Jul/2016
FIRE SERVICES
O.B.C. (S)

No.	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

AQUAVISTA
AT BAYSIDE TORONTO

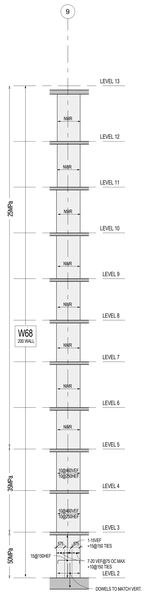
Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

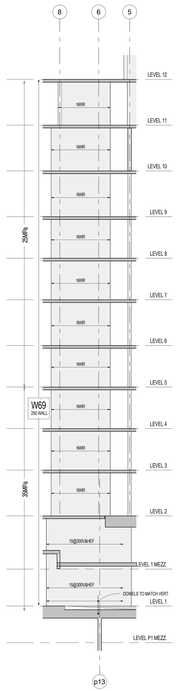
Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	2014003?
Date	MAY 12,2016
Drawing No.	S3-06

TORONTO Building RECEIVED 14/Jul/2016

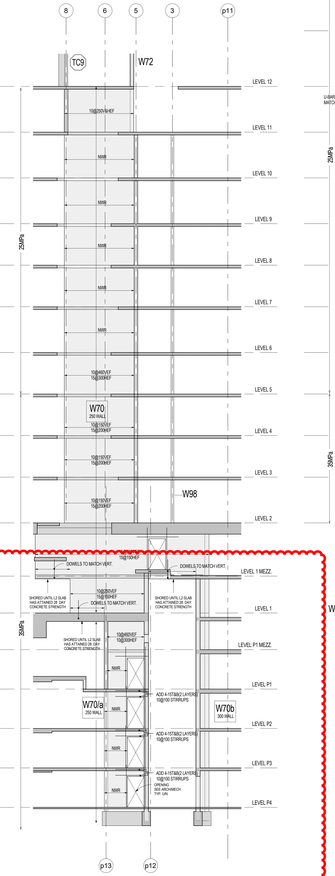
Plot Date: 5/12/2016 10:20:17 AM



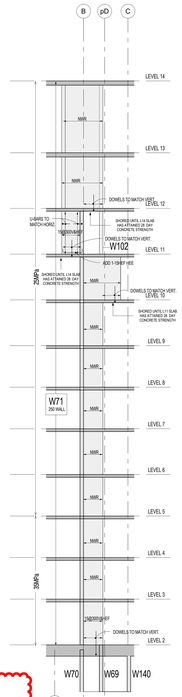
W68 WALL ELEVATION
S3-07 1 : 100



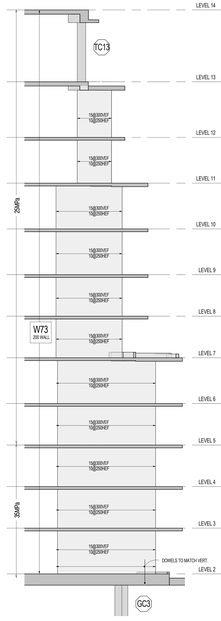
W69 WALL ELEVATION
S3-07 1 : 100



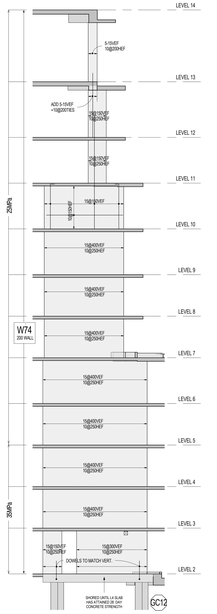
W70 WALL ELEVATION
S3-07 1 : 100



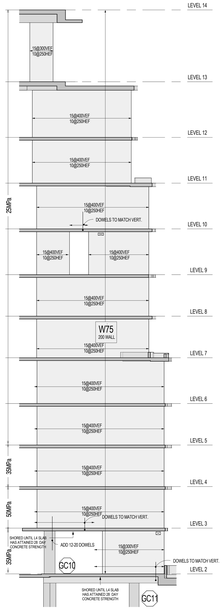
W71,W72 WALL ELEVATION
S3-07 1 : 100



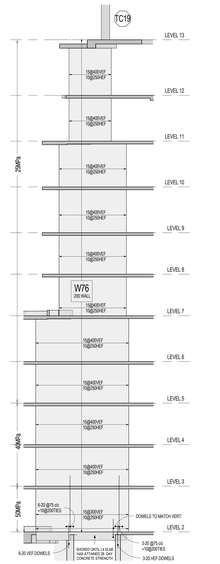
W73 WALL ELEVATION
S3-07 1 : 100



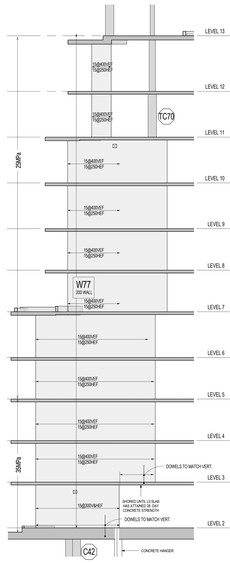
W74 WALL ELEVATION
S3-07 1 : 100



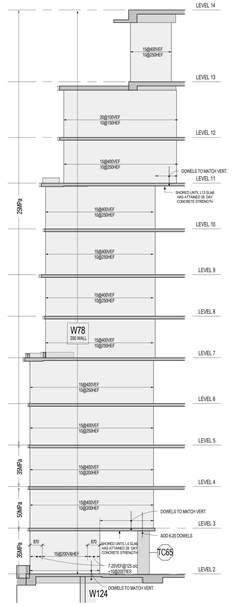
W75 WALL ELEVATION
S3-07 1 : 100



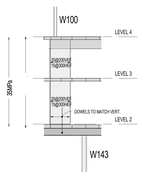
W76 WALL ELEVATION
S3-07 1 : 100



W77 WALL ELEVATION
S3-07 1 : 100

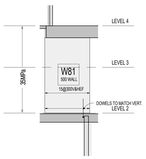


W78 WALL ELEVATION
S3-07 1 : 100

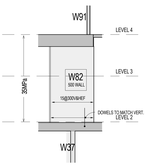


W79 WALL ELEVATION
S3-07 1 : 100

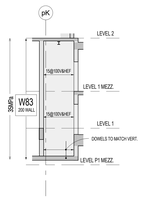
W80 WALL ELEVATION
S3-07 1 : 100



W81 WALL ELEVATION
S3-07 1 : 100



W82 WALL ELEVATION
S3-07 1 : 100



W83 WALL ELEVATION
S3-07 1 : 100

APPROVED UNDER THIS PERMIT

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Nor Is It Loanable Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T 647.343.MTE
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C. Emanuela Gimbarzevsky 20/Jul/2016
FIRE SERVICES
O.B.C. (S)

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

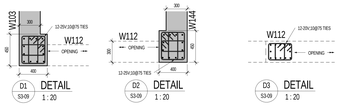
AQUAVISTA
AT BAYSIDE TORONTO

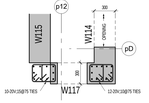
Drawing Title
WALL ELEVATIONS

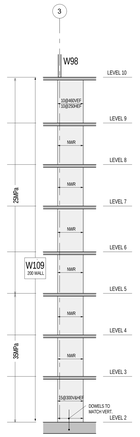
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	20140031
Date	MAY 12,2016
Drawing No.	S3-07

TORONTO Building RECEIVED 14/Jul/2016

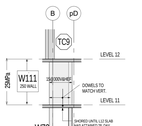




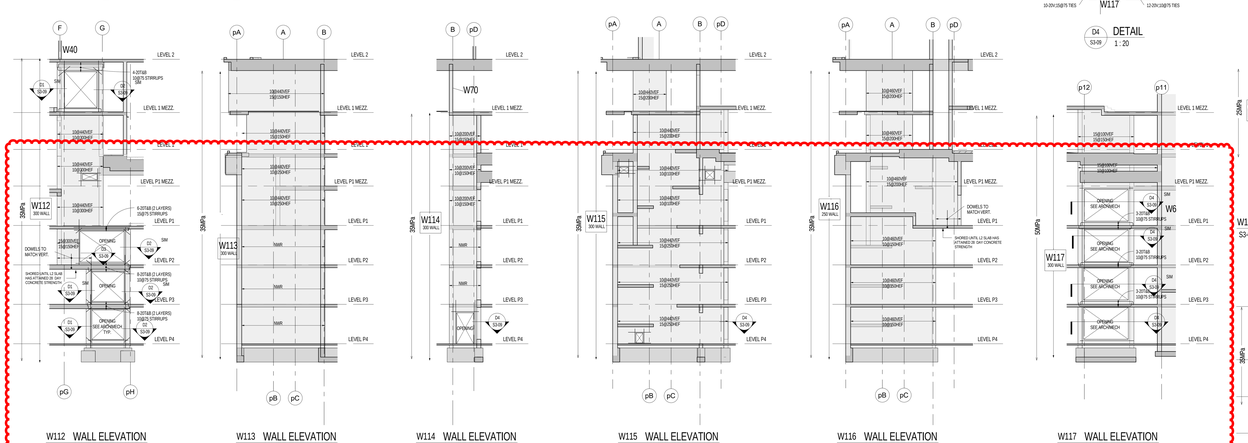


W109 WALL ELEVATION
S3-09 1 : 100

W110 WALL ELEVATION
S3-09 1 : 100



W111 WALL ELEVATION
S3-09 1 : 100



W112 WALL ELEVATION
S3-09 1 : 100

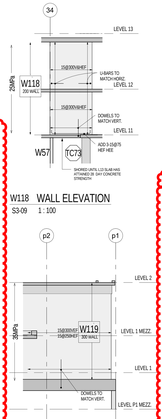
W113 WALL ELEVATION
S3-09 1 : 100

W114 WALL ELEVATION
S3-09 1 : 100

W115 WALL ELEVATION
S3-09 1 : 100

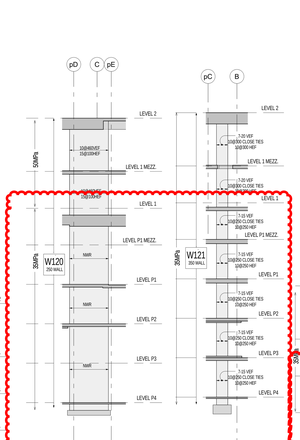
W116 WALL ELEVATION
S3-09 1 : 100

W117 WALL ELEVATION
S3-09 1 : 100



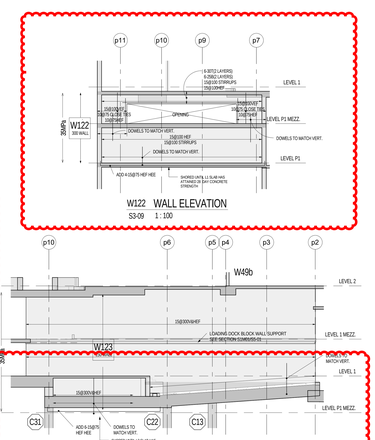
W118 WALL ELEVATION
S3-09 1 : 100

W119 WALL ELEVATION
S3-09 1 : 100



W120 WALL ELEVATION
S3-09 1 : 100

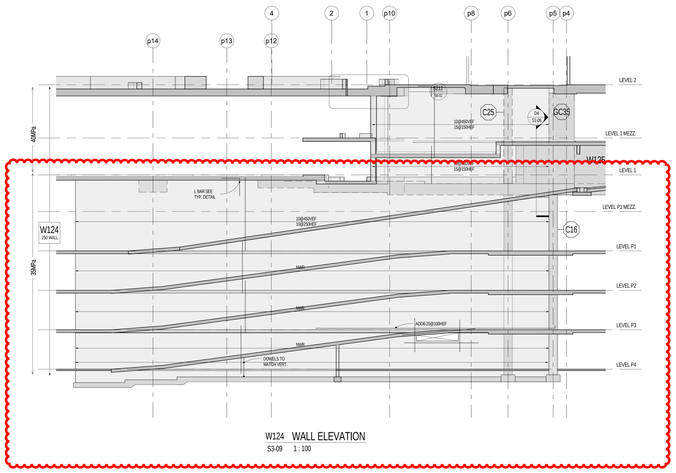
W121 WALL ELEVATION
S3-09 1 : 100



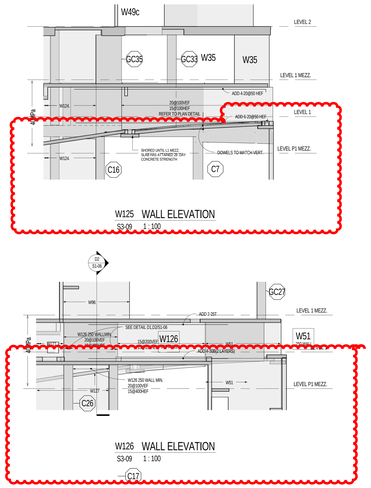
W122 WALL ELEVATION
S3-09 1 : 100

W123 WALL ELEVATION
S3-09 1 : 100

ONLY BUBBLED AREAS
APPROVED UNDER THIS PERMIT

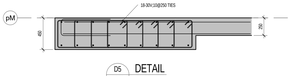


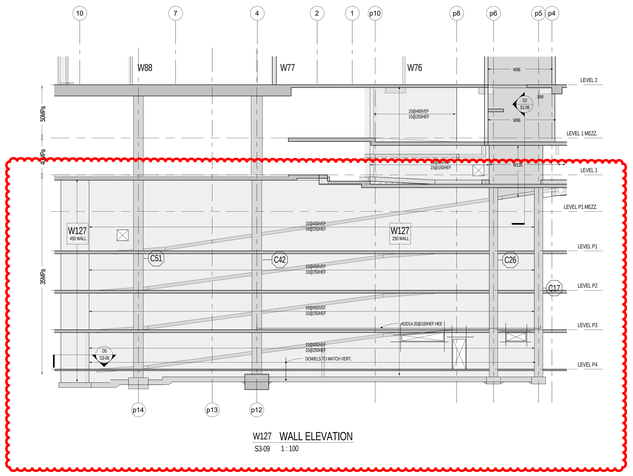
W124 WALL ELEVATION
S3-09 1 : 100



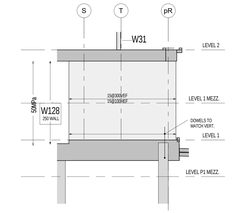
W125 WALL ELEVATION
S3-09 1 : 100

W126 WALL ELEVATION
S3-09 1 : 100

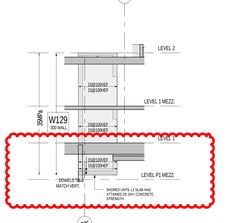




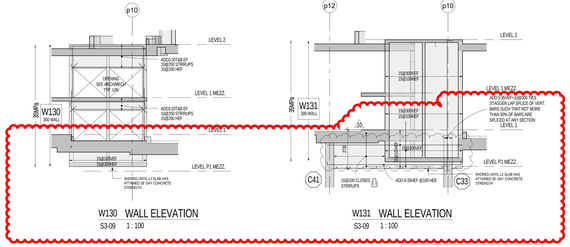
W127 WALL ELEVATION
S3-09 1 : 100



W128 WALL ELEVATION
S3-09 1 : 100



W129 WALL ELEVATION
S3-09 1 : 100



W130 WALL ELEVATION
S3-09 1 : 100

W131 WALL ELEVATION
S3-09 1 : 100

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Part Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T.tel.(416) 499 9676
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00

ZONING		
O.B.C.	Emanuela Gretarsdottir	20/Jul/2016
FIRE SERVICES		
O.B.C. (S)		

TORONTO Building
RECEIVED
20/Jul/2016

No.	Issued For	Date
10	REISSUED FOR PERMIT	JULY 20,2016
9	BUILDING PERMIT RESUBMISSION	MAY 12,2016
8	ISSUED FOR STEEL TENDER	DEC 18,2015
7	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
6	BUILDING PERMIT RESUBMISSION	JULY 22,2015
5	BUILDING PERMIT ISSUED FOR MT REVIEW	JUNE 12,2015 MAY 01,2015

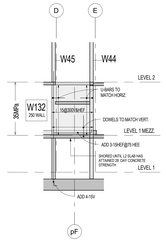
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
WALL ELEVATIONS

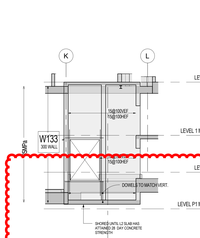
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	BK/BBS
Project No.	20140031
Date	JULY 20,2016
Drawing No.	S3-09

Plot Date: 7/20/2016 11:15:46 AM

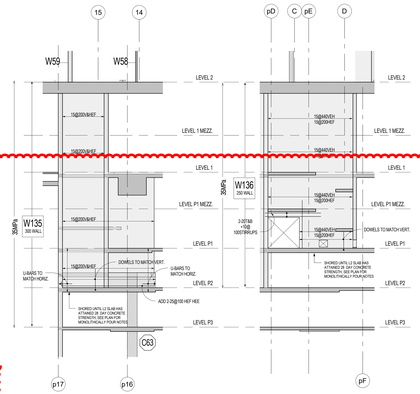


W132 WALL ELEVATION
S3-10 1 : 100



W133 WALL ELEVATION
S3-10 1 : 100

W134 WALL ELEVATION
S3-10 1 : 100



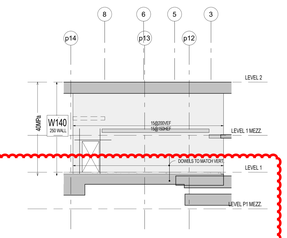
W135 WALL ELEVATION
S3-10 1 : 100

W136 WALL ELEVATION
S3-10 1 : 100

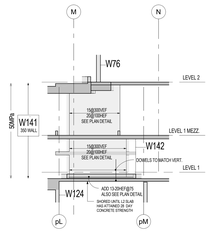
W137 WALL ELEVATION
S3-10 1 : 100

W138 WALL ELEVATION
S3-10 1 : 100

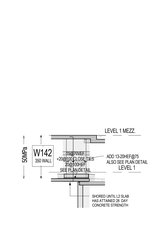
W139 WALL ELEVATION
S3-10 1 : 100



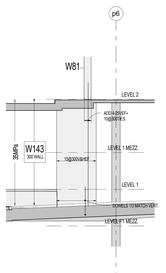
W140 WALL ELEVATION
S3-10 1 : 100



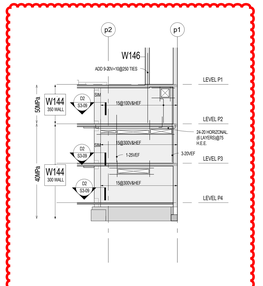
W141 WALL ELEVATION
S3-10 1 : 100



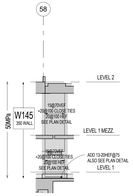
W142 WALL ELEVATION
S3-10 1 : 100



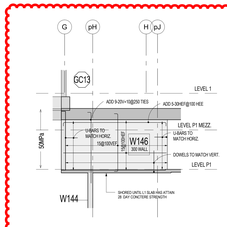
W143 WALL ELEVATION
S3-10 1 : 100



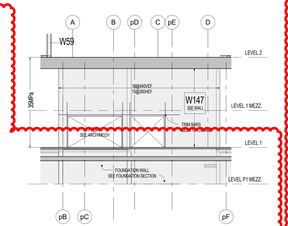
W144 WALL ELEVATION
S3-10 1 : 100



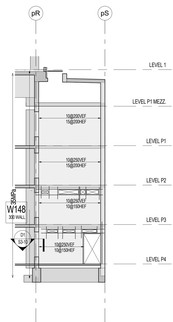
W145 WALL ELEVATION
S3-10 1 : 100



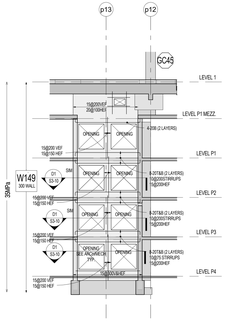
W146 WALL ELEVATION
S3-10 1 : 100



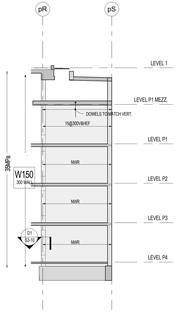
W147 WALL ELEVATION
S3-10 1 : 100



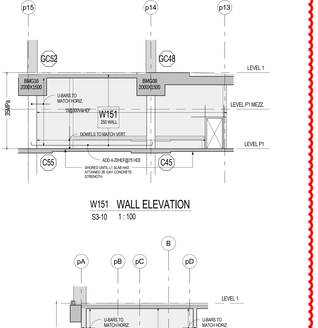
W148 WALL ELEVATION
S3-10 1 : 100



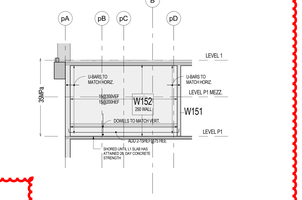
W149 WALL ELEVATION
S3-10 1 : 100



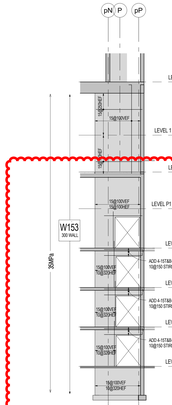
W150 WALL ELEVATION
S3-10 1 : 100



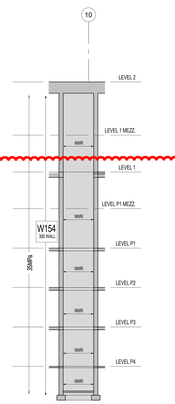
W151 WALL ELEVATION
S3-10 1 : 100



W152 WALL ELEVATION
S3-10 1 : 100

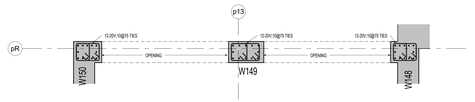


W153 WALL ELEVATION
S3-10 1 : 100



W154 WALL ELEVATION
S3-10 1 : 100

ONLY BUBBLED AREAS
APPROVED UNDER THIS PERMIT



D1 DETAIL
S3-10 1 : 20

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Any Form Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

stephenson ENGINEERING
2500 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 | Tel.:(416) 495 7976
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00

ZONING		
O.B.C.	Emanuela Gratarola	20/Jul/2016
FIRE SERVICES		
O.B.C. (S)		

No.	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

AQUAVISTA
AT BAYSIDE TORONTO

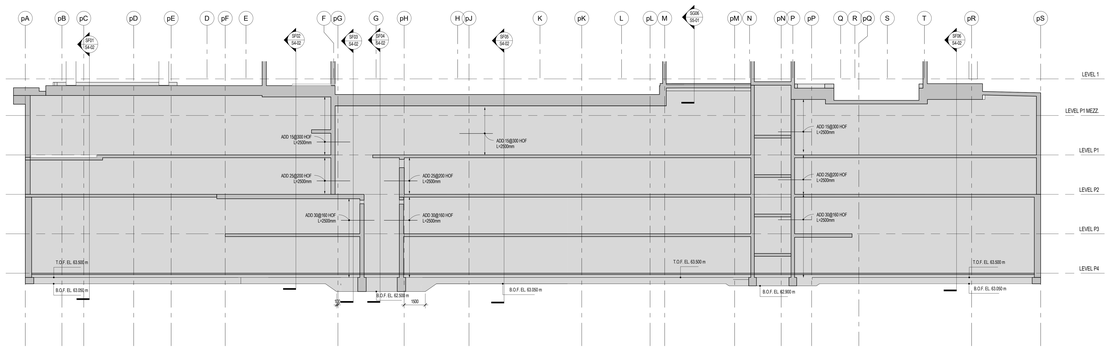
Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

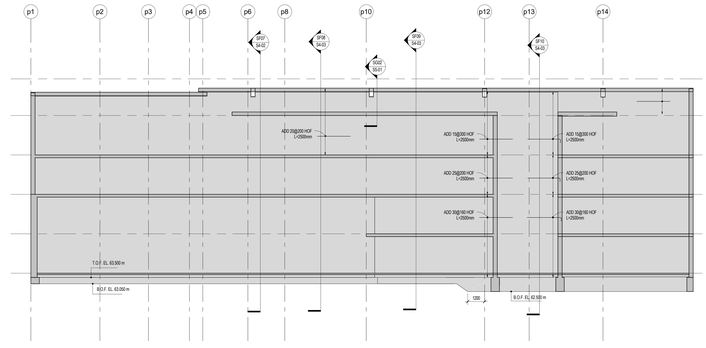
Scale	As indicated
Drawn by	DC
Checked by	BK/BBS
Project No.	20140031
Date	MAY 12,2016
Drawing No.	S3-10

TORONTO Building RECEIVED 14/Jul/2016

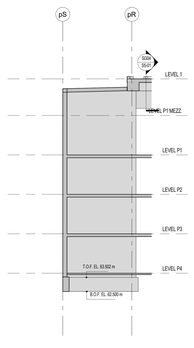
Plot Date: 5/12/2016 10:01:43 AM



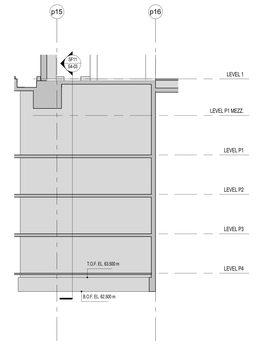
WEST FOUNDATION ELEVATION
1 : 100



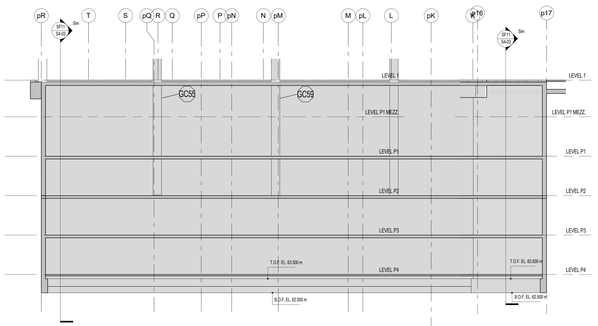
NORTH FOUNDATION ELEVATION 1
1 : 100



NORTH FOUNDATION ELEVATION 2
1 : 100

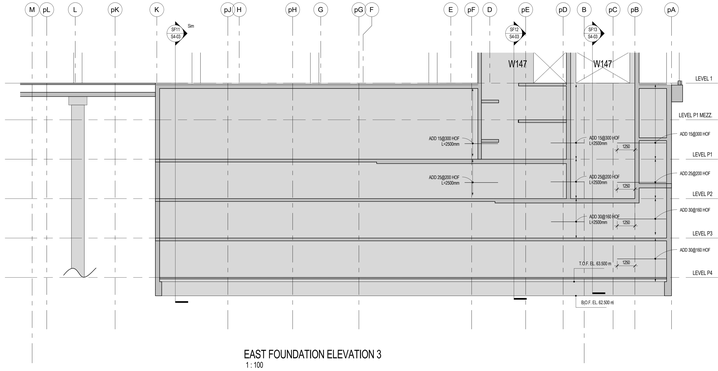


NORTH FOUNDATION ELEVATION 3
1 : 100

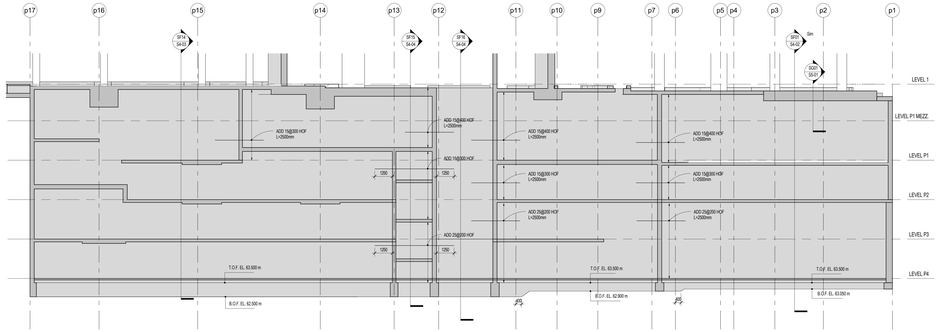


EAST FOUNDATION ELEVATION 1
1 : 100

EAST FOUNDATION ELEVATION 2
1 : 100



EAST FOUNDATION ELEVATION 3
1 : 100



SOUTH FOUNDATION ELEVATION
1 : 100

1. REFER TO TYPICAL DETAILS T-C56A AND TC56B FOR TLS (TENSION LAP SPLICE) AND CLS (COMPRESSION LAP SPLICE) LENGTHS.
2. OVERALL LENGTH OF REINFORCEMENT SHOULD ACCOUNT FOR VARIATIONS IN TOP OF FOOTING ELEVATION WHILE STILL MEETING THE MINIMUM LAP SPLICES INDICATED. VARIATIONS IN FOOTING ELEVATION DURING CONSTRUCTION WILL REQUIRE MODIFICATION TO REINFORCEMENT TO ACCOMMODATE ACCORDINGLY.

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Nor Is It Loanable Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2500 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C. Emerson, Ginberg 20/Jul/2016
FIRE SERVICES
O.B.C. (S)

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

AQUAVISTA
AT BAYSIDE TORONTO

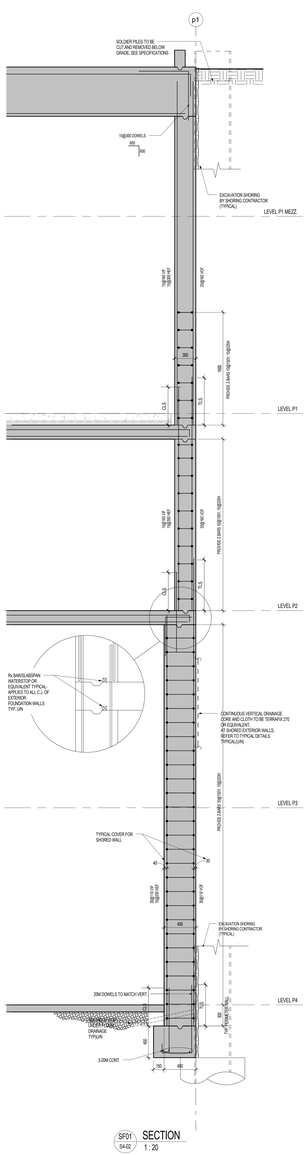
Drawing Title
FOUNDATION ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

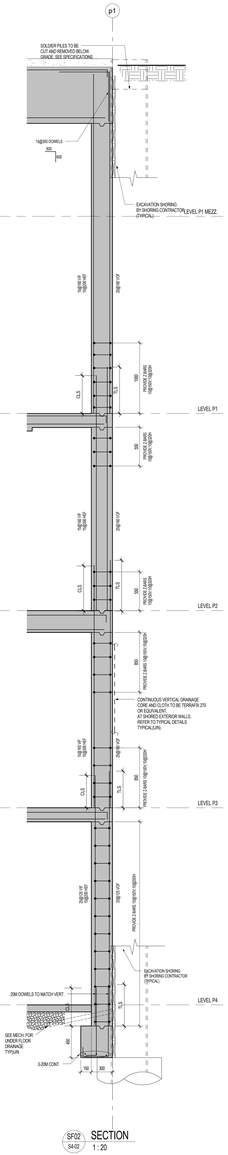
Scale	Drawn by
As indicated	DC
Checked by	Project No.
IA/BBS	20140031
Date	Drawing No.
MAY 12,2016	S4-01

TORONTO Building RECEIVED 14/Jul/2016

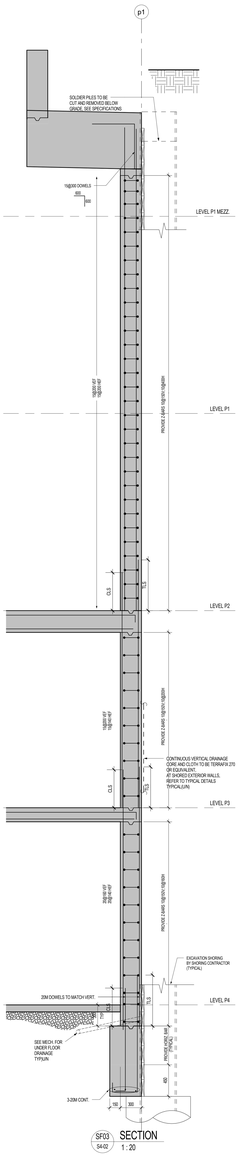
1. REFER TO TYPICAL DETAILS T-C06A AND TC06B FOR TLS (TENSION LAP SPLICE) AND CLS (COMPRESSION LAP SPLICE) LENGTHS.
2. OVERALL LENGTH OF REINFORCEMENT SHOULD ACCOUNT FOR VARIATIONS IN TOP OF FOOTING ELEVATION WHILE STILL MEETING THE MINIMUM LAP SPLICES INDICATED. VARIATIONS IN FOOTING ELEVATION DURING CONSTRUCTION WILL REQUIRE MODIFICATION TO REINFORCEMENT TO ACCOMMODATE ACCORDINGLY.



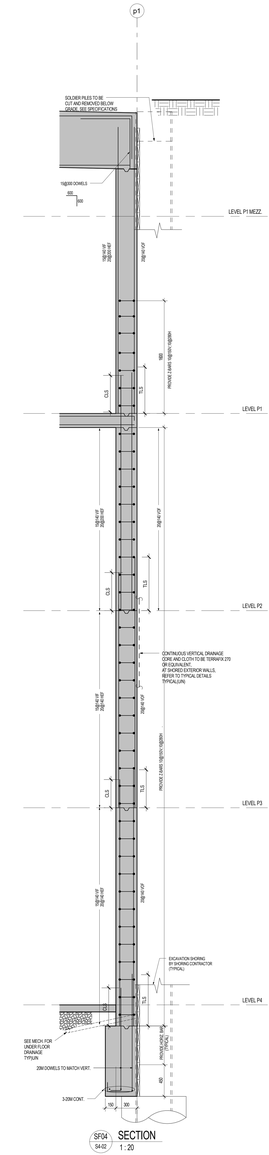
SF01 SECTION
S4-02 1 : 20



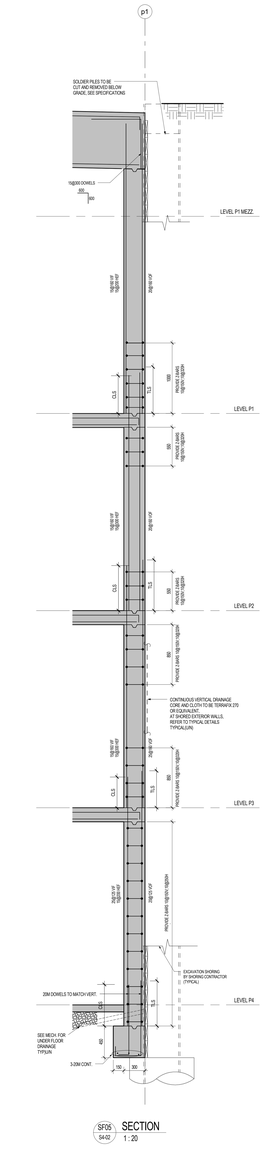
SF02 SECTION
S4-02 1 : 20



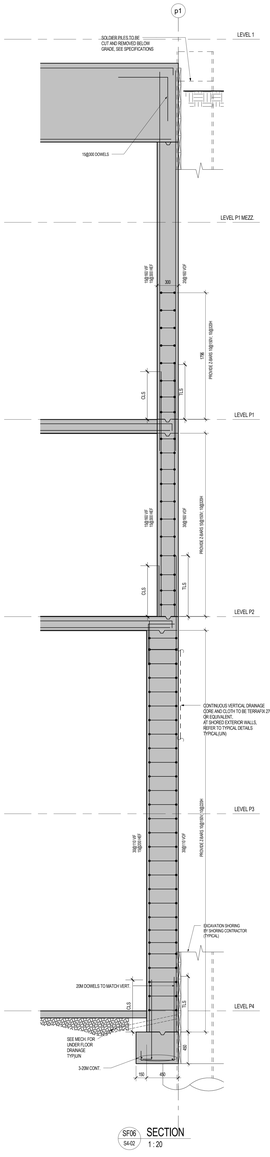
SF03 SECTION
S4-02 1 : 20



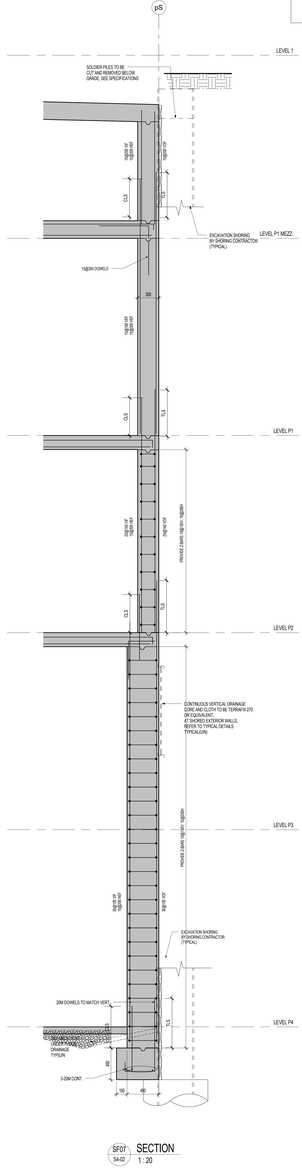
SF04 SECTION
S4-02 1 : 20



SF05 SECTION
S4-02 1 : 20



SF06 SECTION
S4-02 1 : 20



SF07 SECTION
S4-02 1 : 20

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Without Permission Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T 647.329.1240 x225 TF 1.877.329.1240
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C. Emerson, Gretta 20/Jul/2016
FIRE SERVICES
O.B.C. (S)

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

AQUAVISTA
AT BAYSIDE TORONTO

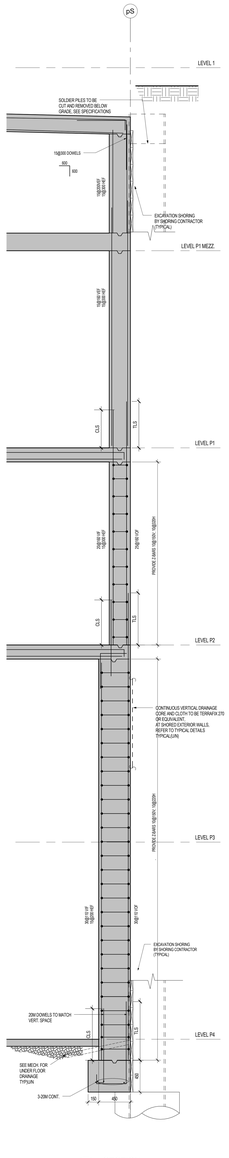
Drawing Title
FOUNDATION SECTIONS

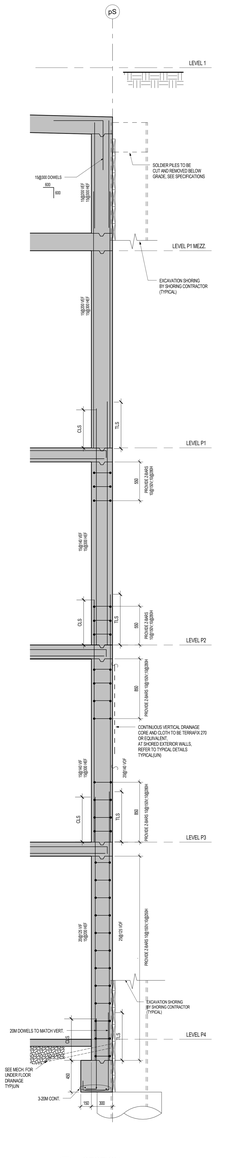
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

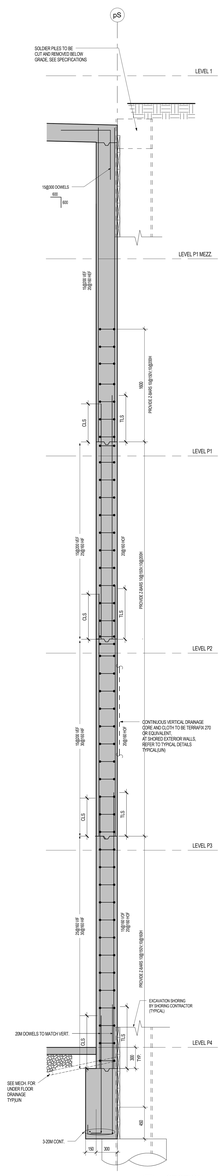
Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No.	2014003?
Date	MAY 12,2016
Drawing No.	S4-02

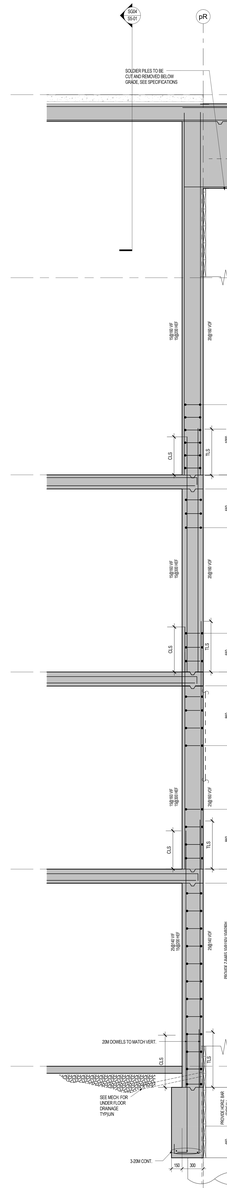
TORONTO Building RECEIVED 14/Jul/2016

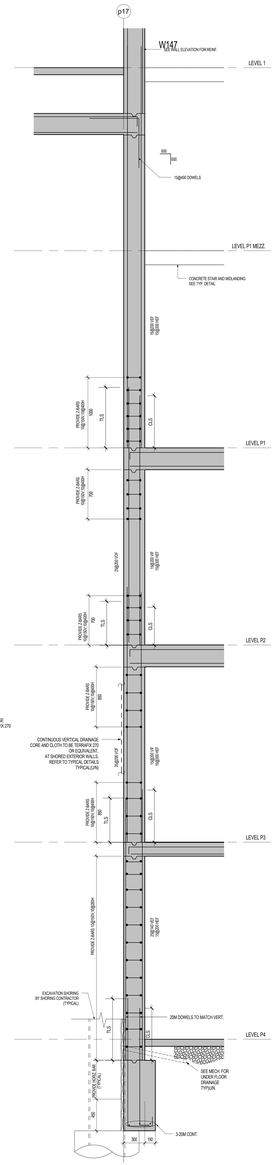
Plot Date: 5/12/2016 10:01:52 AM

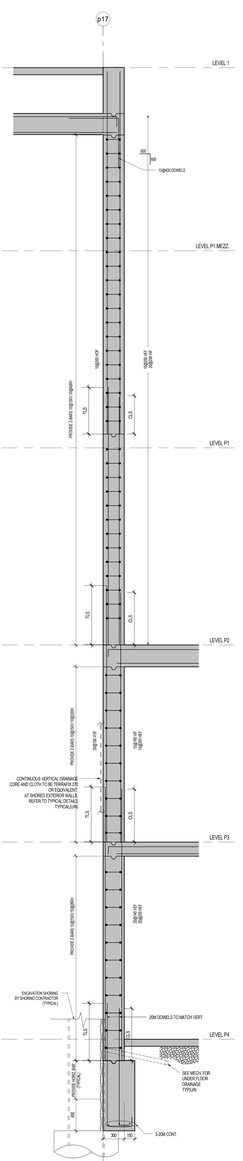


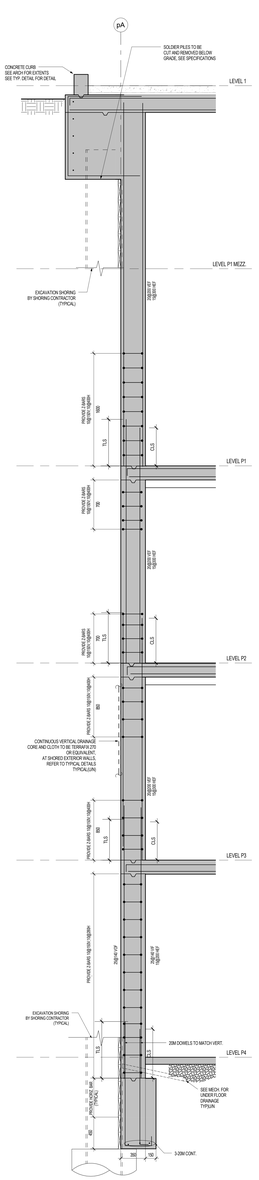












1. REFER TO TYPICAL DETAILS T-C56A AND TC56B FOR TLS (TENSION LAP SPLICE) AND CLS (COMPRESSION LAP SPLICE) LENGTHS.
2. OVERALL LENGTH OF REINFORCEMENT SHOULD ACCOUNT FOR VARIATIONS IN TOP OF FOOTING ELEVATION WHILE STILL MEETING THE MINIMUM LAP SPLICES INDICATED. VARIATIONS IN FOOTING ELEVATION DURING CONSTRUCTION WILL REQUIRE MODIFICATION TO REINFORCEMENT TO ACCOMMODATE ACCORDINGLY.

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not To Be Made Available Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T 647.329.1240 x 225 F 866.908.4156
www.stephenson-eng.com I info@stephenson-eng.com

No	Revision	Date

City of TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C. Examiner, Gordon 20/Jul/2016
FIRE SERVICES
O.B.C. (S)

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

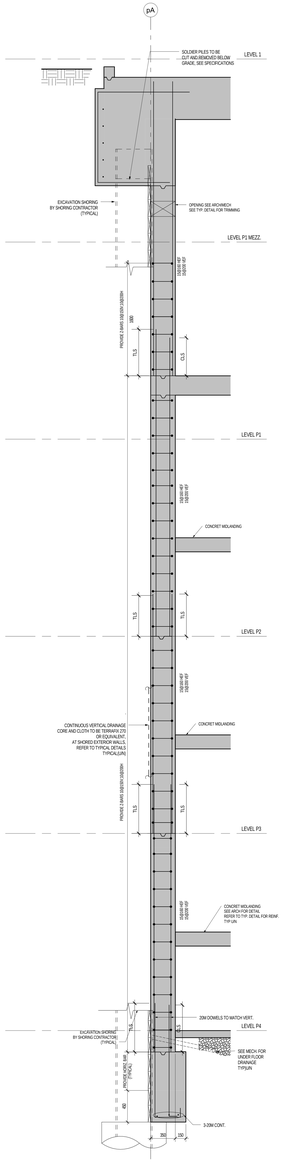
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
FOUNDATION SECTIONS

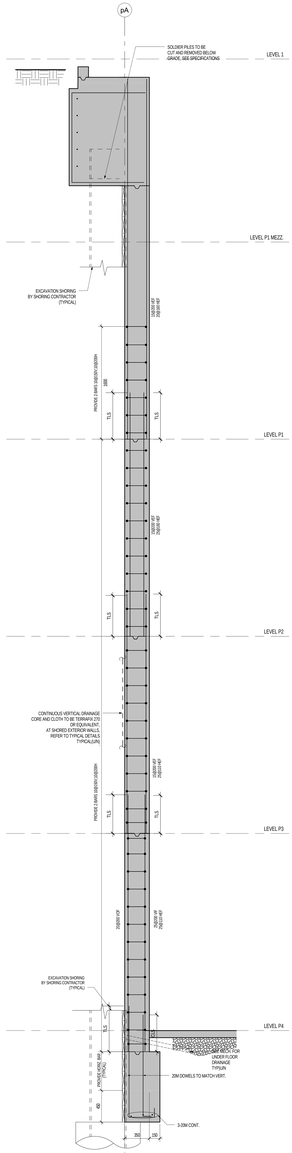
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No	2014003?
Date	MAY 12,2016
Drawing No	S4-03

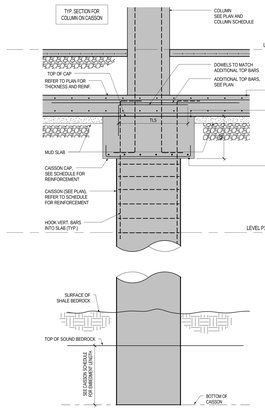
City of Toronto Building RECEIVED 14/Jul/2016



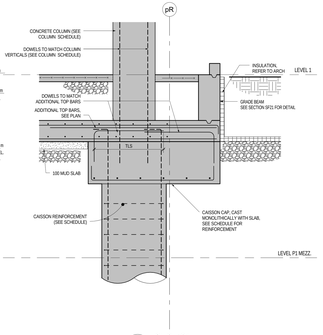
SF15 SECTION
S4-04 1 : 20



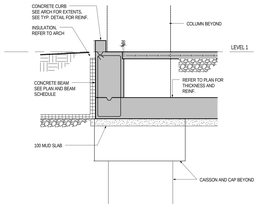
SF16 SECTION
S4-04 1 : 20



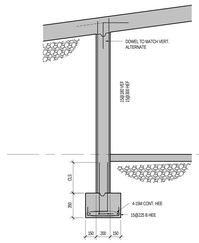
SF17 SECTION
S4-04 1 : 20



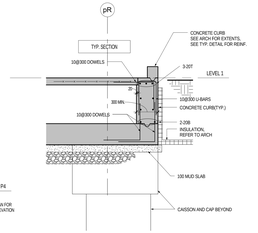
SF18 SECTION
S4-04 1 : 20



SF19 SECTION
S4-04 1 : 20

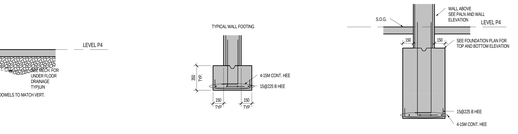


SF20 SECTION
S4-04 1 : 20

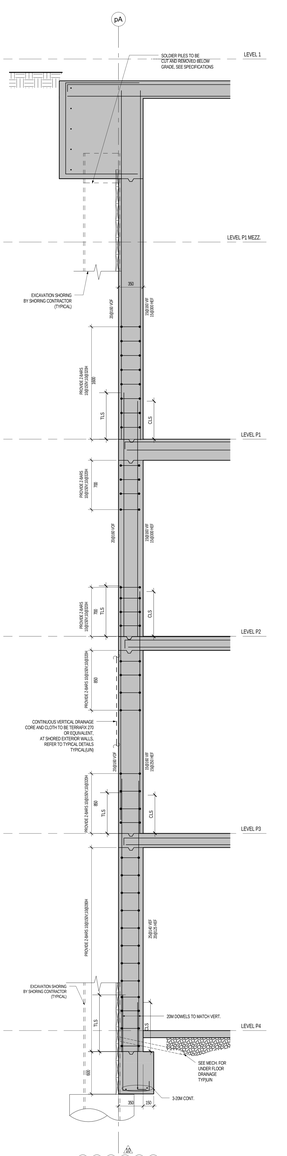


SF21 SECTION
S4-04 1 : 20

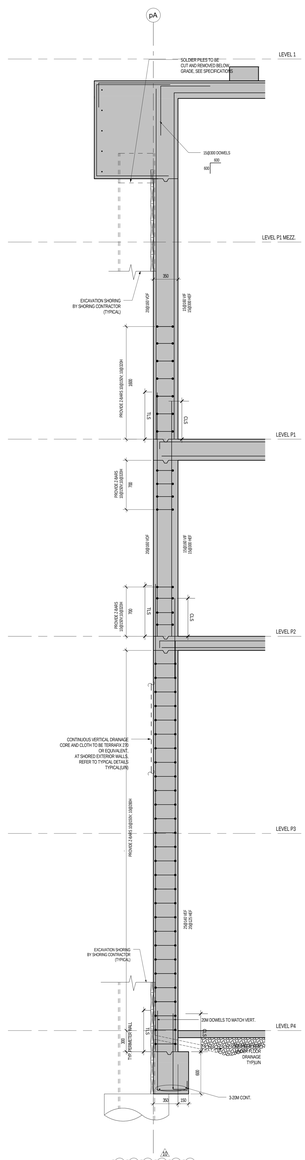
SF22 SECTION
S4-04 1 : 20



SF23 SECTION
S4-04 1 : 20



SF25 SECTION
S4-04 1 : 20



SF24 SECTION
S4-04 1 : 20

1. REFER TO TYPICAL DETAILS C-02 AND C-03 FOR TLS (TENSION LAP SPLICE) AND CLS (COMPRESSION LAP SPLICE) LENGTHS.
2. OVERALL LENGTH OF REINFORCEMENT SHOULD ACCOUNT FOR VARIATIONS IN TOP OF FOOTING ELEVATION WHILE STILL MEETING THE MINIMUM LAP SPLICES INDICATED. VARIATIONS IN FOOTING ELEVATION DURING CONSTRUCTION WILL REQUIRE MODIFICATION TO REINFORCEMENT TO ACCOMMODATE ACCORDINGLY.

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Parts Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T 647.347.4978
www.stephenson-eng.com E info@stephenson-eng.com

No.	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C.
Examiner, Ontario
20/Jul/2016
FIRE SERVICES
O.B.C. (S)
TORONTO Building
RECEIVED
20/Jul/2016

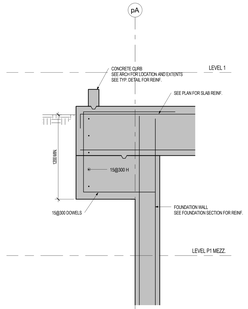
No.	Issued For	Date
10	REISSUED FOR PERMIT	JULY 20,2016
9	REISSUED FOR PERMIT	JULY 15,2016
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	ISSUED FOR CASSIONS AND SHORING ONLY	NOV 30,2015
4	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
3	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

AQUAVISTA
AT BAYSIDE TORONTO

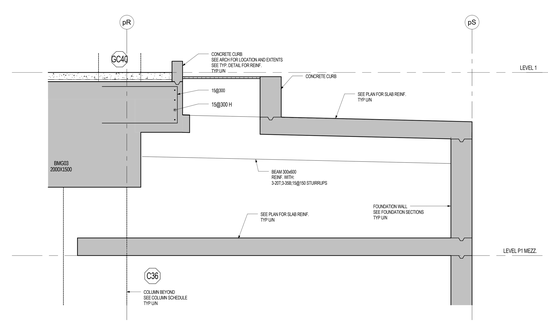
Drawing Title
FOUNDATION SECTIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

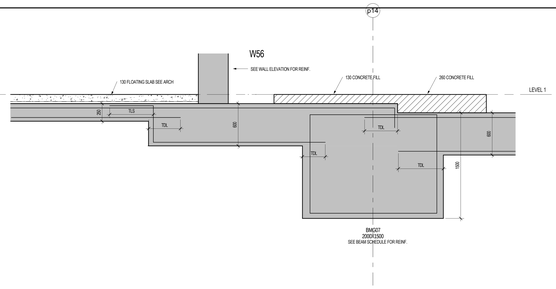
Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No.	2014-00031
Date	JULY 20,2016
Drawing No.	S4-04



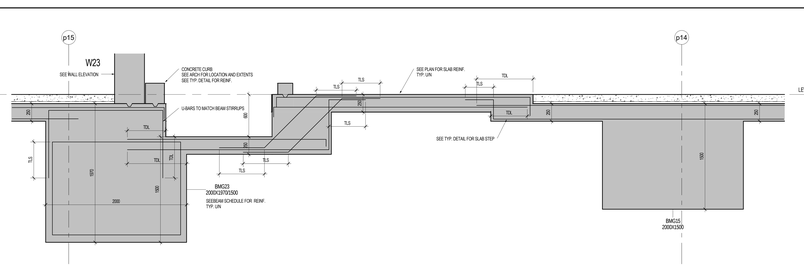
SG01 SECTION
SS-01 1 : 20



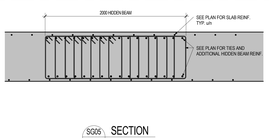
SG02 SECTION
SS-01 1 : 20



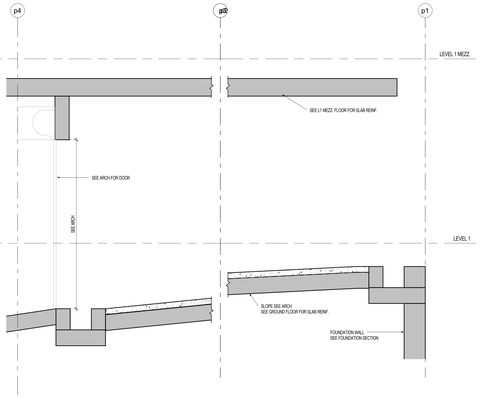
SG03 SECTION
SS-01 1 : 20



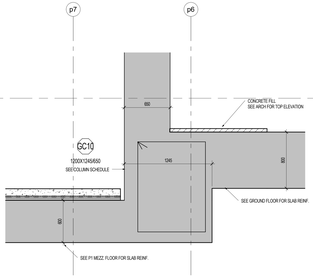
SG04 SECTION
SS-01 1 : 20



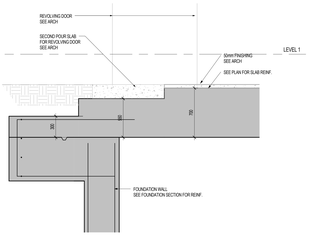
SG05 SECTION
SS-01 1 : 20



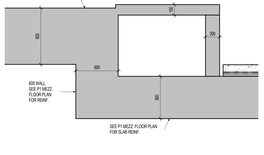
SG06 SECTION
SS-01 1 : 20



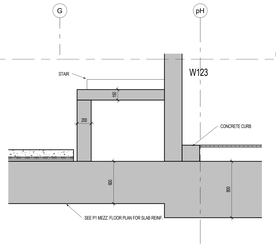
SG07 SECTION
SS-01 1 : 20



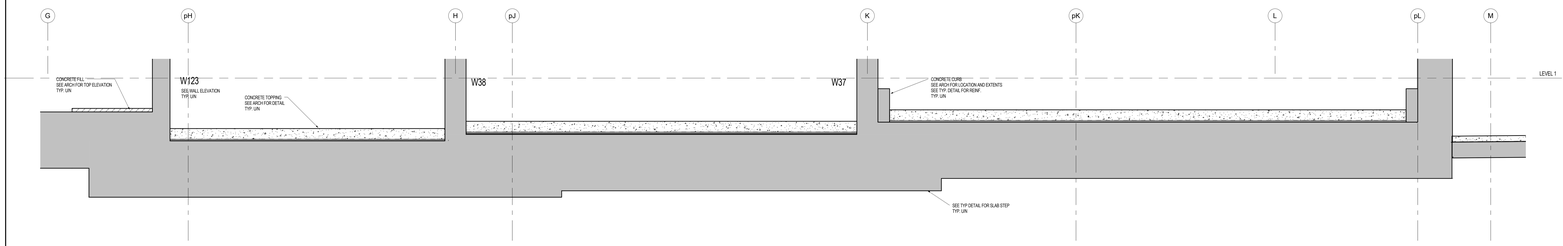
SG08 SECTION
SS-01 1 : 20



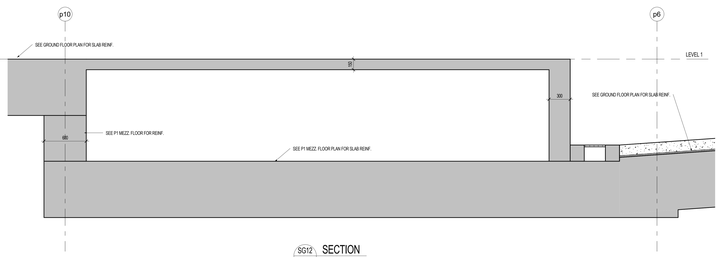
SG09 SECTION
SS-01 1 : 20



SG10 SECTION
SS-01 1 : 20



SG11 SECTION
SS-01 1 : 20



SG12 SECTION
SS-01 1 : 20

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Parts Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING

2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.:(416) 426 7475
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00

ZONING		
O.B.C.	Emanuela Gretanu	20/Jul/2016
FIRE SERVICES		
O.B.C. (S)		

No.	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
4	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
3	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
GROUND FLOOR SECTIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 20
Drawn by	DC
Checked by	BK/BBS
Project No.	2014/0031
Date	MAY 12,2016
Drawing No.	S5-01

TORONTO Building RECEIVED 14/Jul/2016

GENERAL NOTES — T-A01

1. GENERAL
1.1. DESIGN AND CONSTRUCTION IS TO CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE REFER ALSO TO TYPICAL DETAILS NOTED UNDER PLANS AND SCHEDULES ON THE STRUCTURAL DRAWINGS, AND TO THE SPECIFICATION, ALL CODES MANUALS, STANDARDS AND SPECIFICATIONS REFERRED TO SHALL BE THE LATEST EDITIONS INCLUDING ALL REVISIONS AND ADDENDA. ALL DIMENSIONS, THAN SHALL BE VERIFIED ON THE JOB BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES NOTED SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. STRUCTURAL DRAWINGS MUST NOT BE SCALED
1.2. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS, TRENCHES, PITS, SUMPS, EQUIPMENT, SLEEVES, DEPRESSIONS, GROOVES AND CHAMFERS NOT SHOWN ON THE STRUCTURAL DRAWINGS. ARCHITECTURAL DRAWINGS ARE ALSO TO BE USED FOR MINOR ITEMS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE INDICATED ONLY APPROXIMATELY AS TO SIZE AND LOCATION.
1.3. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PENETRATIONS HAVE BEEN MADE IN THE DESIGN FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE ALL NECESSARY OPENINGS AS REQUIRED FOR CONSTRUCTION AND SHALL ENSURE THAT THEIR PROVISION MAY CAUSE SOMME CONDITIONS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE ALL MEASURES. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, SHEET PILING OR OTHER TEMPORARY SUPPORTS TO SAFEGUARD ALL EXISTING OR ADJACENT STRUCTURES AFFECTED BY THIS WORK. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR MASONRY BUILDING CONTRACTOR.
2. SHOP DRAWINGS, ERECTION DRAWINGS AND MARK LISTS
2.1. FOR ALL STRUCTURAL COMPONENTS SHOWN ON THE STRUCTURAL DRAWINGS, SUBMIT COPIES OF SHOP DRAWINGS AS REQUIRED FOR REVIEW BY THE STRUCTURAL CONSULTANT. SHOP DRAWINGS SHALL ACCURATELY AND COMPLETE INFORMATION FOR THE FABRICATION AND ERECTION OF THE STRUCTURAL COMPONENTS.
2.2. SUBMIT SHOP DRAWINGS AS REQUIRED FOR REVIEW BY THE STRUCTURAL CONSULTANT.
2.3. SUBMITTAL OF SHOP DRAWINGS TO THE STRUCTURAL CONSULTANT FOR REVIEW SHALL NOT COMMENCE REVIEW BY THE STRUCTURAL CONSULTANT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR SUBMITTING THE WORK IN COMPLETE ACCURATE AND CONFORMING TO THE CONTRACT DOCUMENTS
3. INSPECTION AND TESTING
3.1. A SOILS CONSULTANT MAY BE AN INDEPENDENT INSPECTION AND TESTING COMPANY ARE TO BE ENGAGED TO CARRY OUT THE FOLLOWING SERVICES:
3.11. BEARING CAPACITY, REPORTS ON STRUCTURAL DRAWINGS AND ALSO TO THE SOIL REPORT.
3.12. FILL UNDER SLAB ON GRADE - CONFORM THAT FILL MATERIAL USED IS SATISFACTORY AND THAT COMPACTION IS TO 98% STANDARD PROCTOR DENSITY.
3.13. CAST-IN-PLACE AND PRECAST CONCRETE - ADJUSTMENT OF MIX DESIGNS, SLUMP, AIR CONTENT, CURING SYSTEM AND CYLINDER AND ENTRAINMENT TESTS AND REINFORCING ROD TESTS WHEN REQUIRED - OR DIRECTED IN ACCORDANCE WITH CSA STANDARD A23.1.
3.14. THE PROJECT SUPERINTENDENT IS TO ADVISE THE STRUCTURAL CONSULTANT A MINIMUM OF 24 HOURS IN ADVANCE OF THE TIME WORK IS TO BE READY FOR INSPECTION.
3.15. STRUCTURAL STEEL AND WELDING - SHOP AND FIELD INSPECTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS CSA CAN-S16.
3.16. STEEL DECK - SEE STEEL DECK NOTES
3.17. MASONRY - WHEN REQUIRED BY CONTRACT, CONCRETE BLOCKS SHALL BE TESTED IN ACCORDANCE WITH CSA STANDARD A165 SERIES. MORTAR AND MORTAR GROUT SHALL BE TESTED IN ACCORDANCE WITH CSA A5 AND A179.
3.2. ALL INSPECTION AND TESTING SERVICES ARE TO BE PERFORMED BY COMPANIES CERTIFIED BY THE CANADIAN STANDARDS ASSOCIATION AND FOR CONCRETE WORK BY COMPANIES WHICH HAVE BEEN ISSUED THE CERTIFICATE OF CANADIAN WELDING BUREAU.
4. EXCAVATION
4.1. REFER TO SOILS REPORT FOR EXCAVATION PROCEDURES, ALL EXTERIOR FOOTINGS OR OTHER FOOTINGS EXPOSED TO FREEZING IN THE FINISHED BUILDING SHALL BE FOUNDED AT A MINIMUM OF 1200mm (4'0) BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. FOOTINGS EXPOSED TO FROST ACTION DURING CONSTRUCTION SHALL BE PROTECTED BY A MINIMUM OF 1500mm (4'-0") OF EARTH OR ITS EQUIVALENT UNTIL THE BUILDING IS HEATED.
4.2. THE USE OF SLOPE OR TRENCH EXCAVATION CONSTRUCTION METHODS AS ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10, MAXIMUM STEP APPROX. 600mm (2'-0")
4.3. PEATS, SILTS AND FOOTING EXCAVATIONS ARE TO BE INSPECTED BY THE STRUCTURAL CONSULTANT AS BASED UPON INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THE STRUCTURAL DRAWINGS.
4.4. WHERE SOIL CONDITIONS ARE FOUND TO BE UNSUITABLE, ALTERNATIVE FOUNDATION CORRECTIONS MUST BE OBTAINED FROM THE STRUCTURAL CONSULTANT BEFORE PROCEEDING WITH THE WORK
4.5. KEEP EXCAVATIONS CONTINUOUSLY DRY BEFORE CONCRETE IS PLACED. IF THE SOIL IS SOFTENED BY WATER, THE EXCAVATION SHALL BE EXTENDED BELOW THE SOFTENED MATERIAL AND TO THE BOTTOM OF THE FOOTINGS LOWERED TO SUIT.
5. FILL AND BACKFILL
5.1. SLAB-ON-GRADE AND ALL STRUCTURAL ELEMENTS FRAMING INTO WALLS WHICH RETAIN EARTH MUST BE IN PLACE BEFORE BACKFILLING.
5.2. AT FOUNDATION WALLS WITH GRADE BOTH SIDES, UNLESS ADEQUATELY SHORED, BACKFILL AND COMPACT EACH SIDE OF WALL SIMULTANEOUSLY.
5.3. ALL FILL MATERIAL SHALL BE FREE OF ROOTS, SPOTS, ORGANIC AND FOREIGN MATTER IN THE SUB-GRADE. WHERE SUB-GRADE CONSISTS OF COMPACTED GRANULAR FILL, AS NOTED ON THE DRAWINGS.
5.4. BACKFILL UNDER SLAB-ON-GRADE, IN FOOTING EXCAVATIONS AND IN TRENCHES ONLY WITH APPROVED MATERIAL, UNLESS SPECIFICALLY NOTED OTHERWISE, BACKFILL SHALL BE COMPACTED OUT IN MAXIMUM OF 200mm (8") THICK LIFTS OF LOOSE. FILL EACH COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
5.5. UNLESS OTHERWISE NOTED, PROVIDE IMMEDIATELY UNDER SLAB-ON-GRADE A MINIMUM 200mm (8") OF COMPACTED 3MTO GRANULAR 'B' MATERIAL, COMPACTION TO ACHIEVE A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.

CAST-IN-PLACE CONCRETE NOTES — T-A02

1. GENERAL
1.1. PROVIDE ALL LABOUR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED TO CARRY OUT THE WORK.
1.2. REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND SCHEDULES, TYPICAL DETAILS AND SPECIFICATIONS.
2. PRODUCTS
2.1. PORTLAND CEMENT, WATER AND AGGREGATES SHALL CONFORM TO CSA STANDARD A23.1.
2.2. PROVIDE AN APPROVED WATER REDUCING ADDITIVE IN ALL CONCRETE. PROVIDE AN APPROVED AIR ENTRAINING ADDITIVE IN ALL CONCRETE WHICH WILL BE EXPOSED TO A FREEZE/THAW CYCLE AND/OR DE-ICING SALTS. AIR CONTENT SHALL BE AS SPECIFIED IN CSA STANDARD A23.1.
2.3. FORMWORK SHALL CONFORM TO CSA STANDARD A23.1, CSA STANDARD S269.3 AND FALSEWORK SHALL CONFORM TO CSA S269.1
2.4. IF SO INSTRUCTED, THE DESIGN FOR THE FORMWORK SHALL BE SUBMITTED FOR REVIEW BEFORE CONSTRUCTION. FORMWORK DRAWINGS AND DESIGN SHALL BEAR THE STAMP OF A LICENSED PROFESSIONAL ENGINEER.
2.5. UNLESS OTHERWISE NOTED PROVIDE SLAB AND BEAM FORMS WITH A CAMBER OF 2 mm/1000 mm (1/4" PER 10'-0") OF SPAN, AND UPLIFT ENDS OF CANTILEVERED SLAB AND BEAM FORMS 3 mm/ 1000 mm (1/4" PER 10'-0") OF CANTILEVER LENGTH.
2.6. PROVIDE STANDARD ADJUSTABLE MASONRY ANCHOR SLOTS FOR ALL MASONRY FACING OR ABUTTING MASONRY WALLS.
2.7. PROVIDE AND/OR INSTALL STANDARD ADJUSTABLE INSERTS AND ALL OTHER CAST-IN INSERTS AS REQUIRED BY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATION.
2.8. REINFORCING STEEL USED SPECIFICALLY NOTED, SHALL BE DEFORMED BARS CONFORMING TO DAN/CSA -G30.18-M GRADE 400 (60ksi) RS).
2.9. REINFORCING STEEL SHALL BE SUPPLIED IN FLAT SHEETS ONLY, UNLESS APPROVED OTHERWISE.
2.10. REINFORCING SHALL BE DETAILED, BENT, PLACED AND SUPPORTED TO CONFORM TO ACI DETAILING MANUAL AND THE MANUAL OF STANDARD PRACTICE PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF CANADA.
2.11. DRY-PACK GROUT TO BE 1 PART PORTLAND CEMENT TO 2 1/2 PARTS SAND TO 2 PARTS OF 8 mm PEA GRAVEL OR CRUSHED STONE MIXED WITH ENOUGH WATER TO PRODUCE A CONSISTENCY AT 28 DAYS.
2.12. NON-SHRINK GROUT TO BE AN APPROVED, PRE-MIXED PROPRIETARY PRODUCT.
2.13. PROVIDE APPROVED EXTRUDED PVC WATERSTOPS OF SIZE AND STYLE INDICATED, WITH PRE-MILLED CORNERS AND INTERSECTIONS. SEE ALSO TYPICAL DETAILS.
2.14. CURING AND SEALING COMPOUNDS WHERE APPROVED FOR USE TO CONFORM TO ASTM STANDARD C309, TYPE 1, CLASS A, COLOURLESS. APPLY AT A RATE OF 200 SQ.FT/GAL UNLESS NOTED OTHERWISE. COMPOUNDS ADD TO BE COMPATIBLE WITH APPLIED FINISHES.
2.15. SHEAR REINFORCEMENT AT SLAB CONNECTION AS SHOWN ON DRAWINGS AND DETAILS, SHALL BE STUDRAILS OR MANUFACTURED BY DECORE. THE COMPLETE AND FINISHED STUDRAILS SHALL BE FCC ES EVALUATED AND WELDING SHALL TAKE PLACE IN A CCE ES APPROVED AND AUDITED FACILITY. DESIGN SHALL CONFORM TO THE LATEST UPDATE OF ASTM A 1044.
3. EXECUTION
3.1. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE @ 28 DAYS SHALL BE AS NOTED ON THE DRAWINGS (28MPa MINIMUM).
3.2. SLUMP AT THE POINT OF DISCHARGE SHALL BE CONSISTENT AT 80 mm ±30mm (3" AT 1 1/8") UNLESS NOTED OTHERWISE. SLUMP TO BE TESTED TO ASTM C143.
3.3. CONCRETE MIXING, TRANSPORTATION, HANDLING AND PLACING SHALL CONFORM TO CSA STANDARD A23.1
3.4. CONSTRUCTION JOINTS FOR WALLS ARE BASED UPON VERTICAL JOINTS AT A MAXIMUM SPACING OF 15000mm (20'-0"), UNLESS SPECIFICALLY NOTED, SHALL BE DETERMINED BASED CONFORMING TO DAN/CSA -G30.18-M GRADE 400 (60ksi) RS).
3.5. REINFORCING SHALL BE DETAILED, BENT, PLACED AND SUPPORTED TO CONFORM TO ACI DETAILING MANUAL AND THE MANUAL OF STANDARD PRACTICE PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF CANADA.
3.6. WELDING OF REINFORCING STEEL SHALL CONFORM TO CSA STANDARD W186.
3.7. WELDED WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS.
3.8. REINFORCING SHALL BE CLEAN OF LOOSE MILL SCALE, DIRT, OIL OR OTHER COATINGS WHICH WILL REDUCE BOND. REINFORCING WITH EXCESSIVE RUST, PITTING OR FLAKING SHALL NOT BE USED.
3.9. CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON DRAWINGS OR AS APPROVED BY THE STRUCTURAL CONSULTANT. CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE CONSTRUCTION.
3.10. PROCESSING
3.11. SHALL HOLES TO SIZE AND DEPTHS INDICATED. INSTALL PLUGS AND TO LINE.
3.12. POUR SPECIFIED CONCRETE TO BE SHOVELLED TO PREVENT THE CONCRETE FROM SEGREGATING, BENDING OR DISPLACEMENT OF THE REINFORCING OTHER THAN AS SHOWN ON THE TYPICAL DETAILS.
3.13. ELECTRICAL CONDUIT SHALL NOT PASS THROUGH A COLUMN, UNLESS SPECIFICALLY SHOWN IN OUTSIDE DIAMETER THAN 1/3 SLAB THICKNESS OR WALL OR BEAM IN WHICH IT IS EMBEDDED. SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTRES. ALUMINUM CONDUIT SHALL NOT BE EMBEDDED IN CONCRETE UNLESS SPECIFICALLY PERMITTED OTHERWISE. SHALL NOT RUN HORIZONTALLY IN A CONCRETE WALL.
3.14. GROUNDING AND DRIVEN FASTENERS REQUIRED IN THE CONCRETE AFTER THE CONCRETE IS PLACED SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE PROCEEDING.
3.15. FINISHING, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FINISH TO EXPOSED CONCRETE SURFACES. WHERE NOT SPECIFICALLY NOTED, FINISH SHALL BE AS NOTED IN CSA STANDARD A23.1. FOR THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND SHALL CONFORM TO CSA STANDARD A23.1 CLASS A CONVENTIONAL SMOOTH CLASSIFICATION.
3.16. TOLERANCES FOR PLACING CONCRETE, REINFORCING STEEL, CAST-IN HARDWARE AND FOR FLOOR AND ROOF FINISHES SHALL BE AS SPECIFIED IN CSA STANDARD A23.1.
3.17. DO NOT DRILL REINFORCING FOR ANY CONCRETE WALL TO BE AS SHOWN ON TYPICAL DETAIL FOR CONCRETE WALLS.
3.18. MINIMUM REINFORCING FOR ANY SUSPENDED SLAB SHALL BE TEMPERATURE BARS BOTTOM EACH WAY PLUS 10M @ 400 (15") CENTRES BEAMED 2'-0" x 2'-0" TOP AROUND PERIMETER. REFER TO TYPICAL DETAIL OF ONE WAY SLABS.
4. CONCRETE PROTECTION
4.1. FOR INSPECTION AND TESTING, SEE GENERAL NOTES AND/OR SPECIFICATION.

STRUCTURAL STEEL NOTES — T-A03A

1. GENERAL
1.1. STRUCTURAL STEEL DESIGN DETAILS AND CONNECTIONS SHALL CONFORM TO CSA STANDARD S16 AND THE ONTARIO BUILDING CODE. ALL STRUCTURAL WELDING SHALL CONFORM TO CSA STANDARD W59.
1.2. REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND TO THE SPECIFICATION.
1.3. WELDING SHALL CONFORM TO CSA STANDARD W59 AND BE PERFORMED BY A FABRICATOR CERTIFIED TO CSA-W47.1.
1.4. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 50% OF THE BEAM SHEAR CAPACITY UNLESS OTHERWISE NOTED. AND IN NO CASE BE LESS THAN THAT SHOWN ON OR IMPLIED BY THE DRAWINGS.
2. PRODUCTS
2.1. STRUCTURAL STEEL SECTIONS SHALL CONFORM TO CSA-G40.20/G40.21
2.11. WW SHAPES, S SHAPES, CHANNELS, ANGLES, PLATES AND RODS - GRADE 300 W
2.12. HSS - ROUND HSS - GRADE 350W CLASS C (+H)
2.13. W SHAPES - GRADE 350W
2.2. BOLTS FOR CONNECTIONS TO CONFORM TO ASTM A325 UNLESS NOTED.
2.3. ANCHOR RODS FOR BASE PLATES, BEARING PLATES AND RODS, PLATES TO CONFORM TO ASTM F1554 UNLESS NOTED.
2.4. HIGH STRENGTH BOLTS AND NUTS TO CONFORM TO ASTM A490 AND ASTM F436.
2.5. SHEAR STUDS WHERE REQUIRED TO CONFORM TO ASTM A108, WELDING TO CONFORM TO CSA W59.
2.6. WELDING MATERIALS TO CONFORM TO CSA W48
2.7. PRIMER PAINT TO CONFORM TO CAN/CGSB-1.40 OR CISCP/PA 1 OR CISCP/PA 2.
2.8. HOT DIP GALVANIZING WITH A MINIMUM ZINC COATING OF 600g/sq.m
2.9. OTHER AS OTHERWISE SPECIFIED.
3. EXECUTION
3.1. FABRICATION, HANDLING AND ERECTION TO CONFORM TO CAN/ CSA - S16.
3.2. PROVIDE A MINIMUM OF 3.2 mm (1/8") DIAMETER BY 200 LONG WALL ANCHORS FOR ALL BEAM AND JOIST WALL PLATES ON MASONRY, OR AS APPROVED EQUAL, UNLESS OTHERWISE NOTED. BEAMS AND JOISTS TO BE WELDED TO ANCHORS WHERE NOTED.
3.3. PROVIDE ADJUSTABLE ANCHORS TO ALL STEEL TO BE BUILT INTO, ABUTTING BY, OR FACED WITH MASONRY (REFER ALSO TO TYPICAL DETAILS IF SHOWN). SPACING OF ANCHORS TO BE:
FOR VERTICAL SPACING ..... 600 (24") MAX. CENTRES
FOR HORIZONTAL SPACING ..... 10 TIMES WALL THICKNESS' (MAX. 2000 (6'-0") CENTRES)
3.4. WHERE STEEL IS TO BE BUILT INTO CONCRETE, PROVIDE 50 mm (2") CLEARANCE.
3.5. WHERE STEEL PROVIDES LATERAL BRACING ONLY TO MASONRY LET, DOES NOT SUPPORT MASONRY, ANCHORS SHALL PERMIT DIFFERENTIAL VERTICAL MOVEMENT BETWEEN STRUCTURAL MEMBERS AND MASONRY.
3.5. CLEAN, PREPARE SURFACES AND SHOP PRIME STRUCTURAL STEEL WITH ONE COAT OF SPECIFIED PRIMER PAINT IN ACCORDANCE WITH CAN/CSA - S16, EXCEPT WHERE MEMBERS ARE TO BE ENCASED IN CONCRETE, OR WHERE SURFACES ARE TO BE WELDED OR FIRE PROOFING. FIELD TOUCH-UP TO ALL WELDS, BURNED OR SCRAPED SURFACES AFTER ERECTION.
3.6. PROVIDE ALL NECESSARY TEMPORARY BRACING TO KEEP STRUCTURE SAFE AND PLUMB. BRACING SHOWN ON STRUCTURAL DRAWINGS IS PERMANENT FOR FINISHED BUILDING ONLY.
3.7. COORDINATE WITH MECHANICAL AND ELECTRICAL CONSULTANTS AND SUB-TRADES WHOSE WORK MAY EFFECT THE STEEL WORK. REFER TO THEIR DRAWINGS FOR ALL OPENINGS.
3.8. TOLERANCES - VARIATION FROM PLUMB AND LEVEL EXTERIOR COLUMNS, COLUMNS AT ELEVATOR SHAFTS, AND SPANDREL BEAMS INCLUDING ANGLES ..... 1:1000 MAX. 25 mm (1/8" IN 10'-0" MAX. 1")
OTHER PIECES ..... 1:500 (1/4" IN 10'-0")
3.9. NO HOLES OTHER THAN THOSE SHOWN ON REVIEWED SHOP DRAWINGS SHALL BE MADE IN ANY STEEL MEMBER WITHOUT THE APPROVAL OF THE STRUCTURAL CONSULTANT.
4. QUALITY CONTROL
4.1. SEE GENERAL NOTES, NOTES UNDER PLANS, AND/OR SPECIFICATION FOR INSPECTION AND TESTING REQUIREMENTS.

LINTEL NOTES — T-A06

UNLESS OTHERWISE SHOWN OR NOTED ON THE STRUCTURAL DRAWINGS, PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS, AS FOLLOWS:
1. FOR OPENINGS UP TO 2100mm (7'-0") CLEAR:
1.1. ONE ANGLE 89 x 89 x 9 (3 1/2" x 3 1/2" x 1/4") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF -
OR
1.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-15M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF -
2. FOR OPENINGS FROM 1050mm (4'-0") CLEAR TO 1800mm (6'-0") CLEAR:
2.1. ONE ANGLE 125 x 90 x 8 LONG LEG VERTICAL (5"x 3 1/2" x 5/16") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF -
OR
2.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-15M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF -
3. ALL LINTELS TO BEAR 150mm (6") MINIMUM AT EACH END ON SOLID MASONRY, UNLESS SHOWN OTHERWISE.
4. PAIRS OF LINTEL ANGLES ARE TO BE BOLTED OR WELDED TOGETHER, PRIOR TO SHIPMENT, AT MAXIMUM 600mm (19") CENTRES.
5. LINTELS OVER STEEL BLOCKS MAY ONLY BE USED IN CLAD-BEARING WALLS WITH PERMISSION AND MUST BE FILLED WITH 20 MPA CONCRETE. MATERIAL IS NOT ACCEPTABLE AND WILL BE REJECTED.
6. STEEL LINTELS ARE TO BE SUPPLIED BY STEEL CONTRACTOR BUT PLACED BY GENERAL CONTRACTOR OR MASONRY SUB CONTRACTOR.
7. STEEL CONTRACTOR TO SUPPLY ALL NECESSARY DIRECTIONS REQUIRED FOR PLACING STEEL LINTELS.
8. ALL EXPOSED STEEL LINTELS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. ALL EXPOSED STEEL OVER DOORS, MECHANICAL AND ELECTRICAL SERVICES, RECESSES AND POCKETS TO BE TWICE HOT-DIP GALVANIZED.
9. MASONRY WALLS, IF IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CO-ORDINATE AND SUPPLY ALL LINTELS REQUIRED THROUGH ALL WALLS, DESIGN, WHETHER SHOWN ON THE DRAWINGS OR NOT, UNLESS SPECIFICALLY NOTED OTHERWISE, LINTELS SHALL CONFORM TO THE ABOVE REQUIREMENTS.
10. REFER ALSO TO TYPICAL DETAILS

STANDARD ABBREVIATIONS — T-A11

@	- At	H.(HOR) - Horizontal
ADJ	- Adjustable	HEF - Horizontal Each Face
APB	- Asphalt Impregnated Board	HF - Horizontal Inside Face
	- Anchor Rod	HOF - Horizontal Outside Face
ALT	- Alternate	HSC - Horizontally Slotted
ARCH	- Architectural	Connection
A.R.(OR.R.)	- As Required	HSS - Hollow Structural Section
ASL	- Accumulated Snow	
B	- Loading	IF - Inside Face
		INT - Interior
B (BOT)	- Bottom	INV - Invert
BEF	- Bottom Each Way	
BLDG	- Building	JT - Joint
BLF	- Bottom Lower Layer	
BM	- Beam	- Kilogram
BML	- Bottom Middle Layer	kN.m - Kilo Newton Metres
BNT	- Bottom	kN/m - Kilo Newton per Square
Nominal Thickness		Metre
BOF	- Bottom of Footing	kPa - Kilo Newton per Metre
BP	- Base Plate	KN - Kilo Pascals
BSMT	- Basement	
BUL	- Bottom Upper Layer	- Angle
		- Pounds
C	- Standard Channel	- Long Leg
CA	- Column Above	- Long Leg Lower Layer
CANT	- Cantilever	- Long Leg Horizontal
CC (m)	- Centre to Centre	- Long Leg Vertical
CJ	- Control Joint	- Long Span Steel Joists
CL	- Column Line	- Laminated Veneer
COL	- Column	Lumber
COMP	- Compressible	
CONC	- Concrete	m - Metre
CONST	- Construction	MAX - Maximum
CONST JT (CJT)	- Construction Joint	MECH - Mechanical
CONT (CONTN)	- Continuous	MEZZ - Mezzanine
CW	- Complete With	MIN - Minimum
		MISC - Miscellaneous
D.TYP	- Douglas Fir	ML - Middle Layer
DBL	- Double	MO - Masonry Opening
DIAG	- Diagonal	- Millimetre
Ø (DIA)	- Diameter	MOM. (M) - Moment
DN	- Down	- Mega Pascals
DJ	- Double Joist	MUL - Middle Upper Layer
DL	- Dead Load	
DO	- Ditto	N - Newton
DWG	- Drawing	N/S - North-South
DWL	- Dowel	NF - Near Face
DT	- Double Tee	NIC - Not in Contract
		NO. - Number
E-W	- East-West	NTS - Not to Scale
EA	- Each	
EF	- Each End	OWSJ - Open Web Steel Joist
EW	- Each Face	
ELECT	- Electrical	Pa - Pascal
ELEV (EL)	- Elevation /	PC - Precast
Elevator	- Each	PL - Plate
EN	- Each Way	PLF - Pounds per Lineal Foot
EQ	- Equal	PREQ. - Preferred
EW	- Each Way	PSF - Pounds per Square Foot
EXIST	- Expansion Joint	PSI - Pounds per Square Inch
EXT. JT.	- Exterior	PSL - Parallel Strand Lumber
EXT		- Pressure Treated
FDN	- Foundation	
FF	- Far Face	STANDARD LAP ABBREVIATIONS
FIN	- Finished	- Compression Lap Splice
FL	- Floor	CSA -
FMC	- Full Moment	Development
FR (Reaction)		Length
FT	- Foot / Feet	- Hook Embedment
FTG	- Footing	Length
		- Tension Lap Splice
GA	- Gauge	TEN - Tension Development
GALV	- Galvanized	Length
GEN	- General	

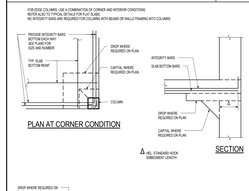
SHORING NOTES — T-A13

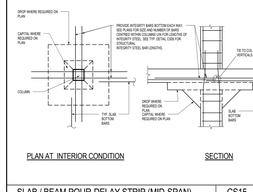
1.0 DESIGN
1.1. MATERIAL EARTH PRESSURE EXERTED ON SHORING SYSTEM P = K (h -h-o)
WHERE: K = .25 (PILES) 3 (TIE BACKS)
h = 21.0mNm²
o = 10.0kNm²
h = DEPTH OF EXCAVATION
1.2. SHORING DESIGN REPORT #_____ DATED:_____
1.3. TIE BACK DESIGN BASED ON AN ANCHORAGE COEFFICIENT H/1.5 AND THE CANADIAN FOUNDATION REINFORCEMENT MANUAL 3rd EDITION.
1.4. DESIGN CONFORMS WITH THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE AND THE ONTARIO HIGHWAY BRIDGE DESIGN CODE.
2.0 MATERIALS
2.1. STRUCTURAL STEEL SHALL BE NEW OR SOUND USED MATERIAL CONFORMING TO C.S.A. G40.21, GRADE 300.
2.2 ALTERNATIVE SECTIONS OR GRADES OF EQUIVALENT STRENGTH, MAY BE SUBSTITUTED SUBJECT TO APPROVAL OF ENGINEER.
2.3 CONCRETE STRENGTH TO BE AS FOLLOWS:
(a) FOOTINGS ..... 20 MPa
(b) CAISSONS EXPOSED TO FREEZING ..... 20 MPa
(c) BACKFILL TO GRADE ..... 4 MPa
(d) SLABS ..... REINFORCE GROUT
2.4 TIMBER LAGGING TO BE 75 mm MIN. (TRUE THICKNESS) HARDWOOD UNLESS NOTED OTHERWISE.
2.5 CONCRETE LAGGING, CONFORM TO C.S.A. A165 AND BE PERFORMED BY QUALIFIED PERSONNEL.
3.0 PROCEDURES
3.1. SHALL HOLES TO SIZE AND DEPTHS INDICATED. INSTALL PLUGS AND TO LINE.
3.2. POUR SPECIFIED CONCRETE TO BE SHOVELLED TO PREVENT THE CONCRETE FROM SEGREGATING, BENDING OR DISPLACEMENT OF THE REINFORCING OTHER THAN AS SHOWN ON THE TYPICAL DETAILS.
3.3. ELECTRICAL CONDUIT SHALL NOT PASS THROUGH A COLUMN, UNLESS SPECIFICALLY SHOWN IN OUTSIDE DIAMETER THAN 1/3 SLAB THICKNESS OR WALL OR BEAM IN WHICH IT IS EMBEDDED. SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTRES. ALUMINUM CONDUIT SHALL NOT BE EMBEDDED IN CONCRETE UNLESS SPECIFICALLY PERMITTED OTHERWISE. SHALL NOT RUN HORIZONTALLY IN A CONCRETE WALL.
3.4. GROUNDING AND DRIVEN FASTENERS REQUIRED IN THE CONCRETE AFTER THE CONCRETE IS PLACED SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE PROCEEDING.
3.5 FINISHING, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FINISH TO EXPOSED CONCRETE SURFACES. WHERE NOT SPECIFICALLY NOTED, FINISH SHALL BE AS NOTED IN CSA STANDARD A23.1. FOR THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND SHALL CONFORM TO CSA STANDARD A23.1 CLASS A CONVENTIONAL SMOOTH CLASSIFICATION.
3.6 TOLERANCES FOR PLACING CONCRETE, REINFORCING STEEL, CAST-IN HARDWARE AND FOR FLOOR AND ROOF FINISHES SHALL BE AS SPECIFIED IN CSA STANDARD A23.1.
3.7 DO NOT DRILL REINFORCING FOR ANY CONCRETE WALL TO BE AS SHOWN ON TYPICAL DETAIL FOR CONCRETE WALLS.
3.8 MINIMUM REINFORCING FOR ANY SUSPENDED SLAB SHALL BE TEMPERATURE BARS BOTTOM EACH WAY PLUS 10M @ 400 (15") CENTRES BEAMED 2'-0" x 2'-0" TOP AROUND PERIMETER. REFER TO TYPICAL DETAIL OF ONE WAY SLABS.
4.0 CONCRETE PROTECTION
4.1. FOR INSPECTION AND TESTING, SEE GENERAL NOTES AND/OR SPECIFICATION.

TYPICAL CONCRETE COVER TABLE — C01

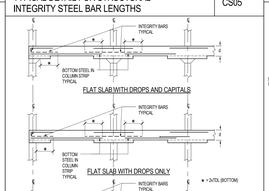
VERTICAL ELEMENTS	PROJECT SPECIFIC COMMENTS	BAR SIZE	CONCRETE EXPOSURE									
			CHLORIDES WITH/ WITHOUT FREEZE THAW COVER TO ALL FACES (mm)			NO CHLORIDES WITH FREEZE THAW COVER TO ALL FACES (mm)			NO CHLORIDES OR FREEZE THAW COVER TO ALL FACES (mm)		
			FIRE RATING			FIRE RATING			FIRE RATING		
			≤ 2 HR	3 HR	4 HR	≤ 2 HR	3 HR	4 HR	≤ 2 HR	3 HR	4 HR
WALLS	ANY WALLS EXPOSED TO FIRE ON ONE SIDE ONLY (FOUNDATION, ELEVATOR AND STAIRS, DEMISING WALLS)	Ø < 25M	40	60*	60	40	40	40	25	25	25
		30M	40	60*	60	40	40	40	30	30	30
		35M	55	70*	70	55	55	55	35	35	35
		45M	70	70*	70	70	70	70	45	45	45
		55M	85	110*	110	85	85	85	55	55	55
	INTERIOR WALLS EXPOSED TO FIRE BOTH SIDES SIMULTANEOUSLY	Ø < 25M	40	60*	60	40	40	40	25	25	25
		30M	40	60*	60	40	40	40	30	30	30
		35M	55	70*	70	55	55	55	35	35	35
		45M	70	70*	70	70	70	70	45	45	45
		55M	85	110*	110	85	85	85	55	55	55
COLUMNS	COLUMNS EXPOSED TO FIRE BOTH SIDES SIMULTANEOUSLY	Ø < 25M	40	60*	60	40	40	40	25	25	25
		30M	40	60*	60	40	40	40	30	30	30
		35M	55	70*	70	55	55	55	40	40	55
		45M	70	70*	70	70	70	70	45	45	55
		55M	85	110*	110	85	85	85

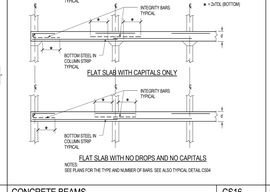
INTEGRITY BARS IN FLAT SLABS — CS04

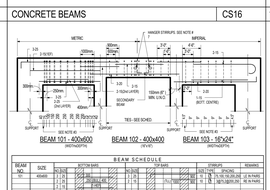


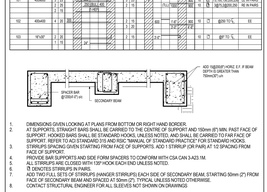


TYPICAL DETAIL FOR STRUCTURAL INTEGRITY STEEL BAR LENGTHS — CS05



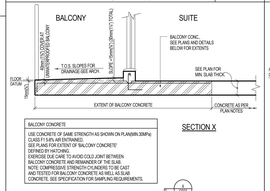






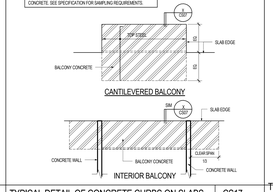
NOTES:
1. SEE PLANS FOR THE TYPE AND NUMBER OF BARS. SEE ALSO TYPICAL DETAIL CS04

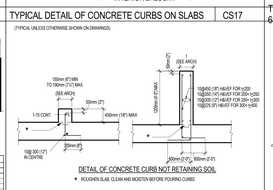
TYPICAL DETAIL OF BALCONIES (WITH CURB) NOT WATERPROOFED — CS07



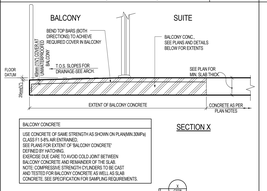
BALCONY CONCRETE

USE CONCRETE OF SAME STRENGTH AS SHOWN ON PLAN/MIN 35MPa CLASS F1 5.8% AIR ENTRAINED.
PROTECT EXPOSED FACES OF 'BALCONY CONCRETE' DEFINED BY HATCHING.
EXERCISE DUE CARE TO AVOID COLD JOINT BETWEEN BALCONY CONCRETE AND REMAINDER OF THE SLAB.
NOTE: COMPRESSIVE STRENGTH CYLINDERS TO BE CAST AND TESTED FOR BALCONY CONCRETE AS WELL AS SLAB CONCRETE. SEE SPECIFICATION FOR SAMPLING REQUIREMENTS.



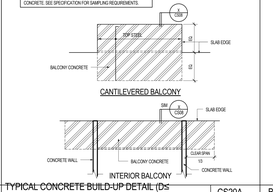


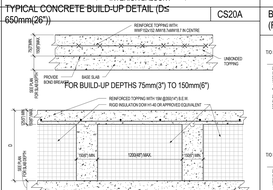
TYPICAL DETAIL OF BALCONIES (WITHOUT CURB) NOT WATERPROOFED — CS08



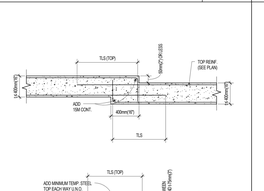
BALCONY CONCRETE

USE CONCRETE OF SAME STRENGTH AS SHOWN ON PLAN/MIN 35MPa CLASS F1 5.8% AIR ENTRAINED.
PROTECT EXPOSED FACES OF 'BALCONY CONCRETE' DEFINED BY HATCHING.
EXERCISE DUE CARE TO AVOID COLD JOINT BETWEEN BALCONY CONCRETE AND REMAINDER OF THE SLAB.
NOTE: COMPRESSIVE STRENGTH CYLINDERS TO BE CAST AND TESTED FOR BALCONY CONCRETE AS WELL AS SLAB CONCRETE. SEE SPECIFICATION FOR SAMPLING REQUIREMENTS.



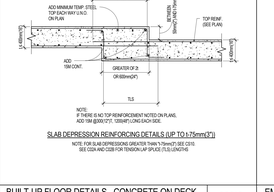


TYPICAL SLAB DEPRESSION REINFORCING DETAILS — CS09



TOP BARS (STEP ≥ t-7½"(3"min < 2x t)

2 BARS TO MATCH SLAB TOP REINFORCEMENT
IF NO TOP BARS ARE SPECIFIED ON PLAN, USE 15M@300 U27



NOTE:
IF THERE IS NO TOP REINFORCEMENT NOTED ON PLANS, ADD 15M @300(12"). 1200x8"LONG EACH SIDE.

BOTTOM BARS (STEP ≥ t-7½mm(3") < 2x t)

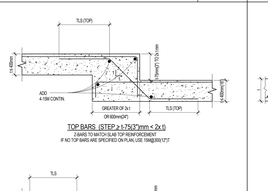
2 BARS TO MATCH SLAB BOTTOM REINFORCEMENT

NOTE:
IF THERE IS NO TOP REINFORCEMENT CALLED ON PLANS, ADD 15M @300(12"). 1200x8"LONG EACH SIDE.

SLAB DEPRESSION REINFORCING DETAILS (UP TO t-75mm(3"))

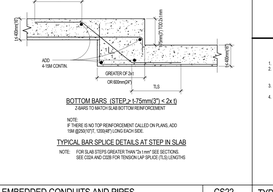
NOTE: FOR SLAB DEPRESSIONS GREATER THAN t-75mm(3") SEE C210 SEE CS2A AND CS2B FOR TENSION LAP SPLICE (TLS) LENGTHS

TYPICAL STEP IN SLAB REINFORCING DETAILS — CS10



TOP BARS (STEP ≥ t-7½(3")min < 2x t)

2 BARS TO MATCH SLAB TOP REINFORCEMENT
IF NO TOP BARS ARE SPECIFIED ON PLAN, USE 15M@300 U27

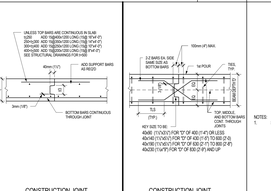


NOTE:
IF THERE IS NO TOP REINFORCEMENT NOTED ON PLANS, ADD 15M @300(12"). 1200x8"LONG EACH SIDE.

TYPICAL BARS SPLICE DETAILS AT STEP IN SLAB

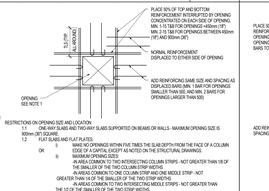
NOTE: FOR SLAB STEPS GREATER THAN "2x t min" SEE SECTIONS SEE CS2A AND CS2B FOR TENSION LAP SPLICE (TLS) LENGTHS

JOINTS IN SUSPENDED CONCRETE MEMBERS — CS11



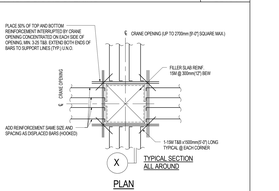
1. SUBMIT FOUR BREAK LAYOUTS FOR STRUCTURAL ENGINEERS REVIEW AND APPROVAL.
2. WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF THE SET CONCRETE IS TO BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER AND LAITANCE, SATURATED WITH WATER AND BE LEFT IN A DAMP CONDITION.
3. FOR FRAMED SLABS AND BEAMS, FORMS ARE DOWELED TO REMAIN IN PLACE ON BOTH SIDES OF JOINT UNTIL CONCRETE IN LAST POUR HAS ACHIEVED ITS SPECIFIED DESIGN STRENGTH.
4. FOR FRAMED SLABS AND BEAMS, FORMS ARE DOWELED TO REMAIN IN PLACE ON BOTH SIDES OF JOINT UNTIL CONCRETE IN LAST POUR HAS ACHIEVED ITS SPECIFIED DESIGN STRENGTH.
5. DIRECT CONCRETE OR OTHER COATINGS WHICH WOULD DESTROY OR REDUCE BOND.

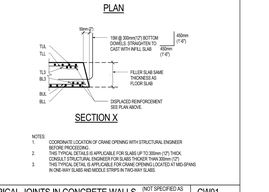
TYPICAL TRIMMING TO OPENINGS IN SLABS — CS12



NOTES:
1. RESTRICTIONS ON OPENING SIZE AND LOCATION:
   1.1 ONE WAY SLABS AND TWO WAY SLABS SUPPORTED ON BEAMS OR WALLS - MAXIMUM OPENING SIZE IS 300mm (30") SQUARE.
   1.2 FLAT SLABS AND FLAT PLATES
   a) OPENINGS WITHIN FIVE TIMES THE SLAB DEPTH FROM THE FACE OF A COLUMN EDGE OF A CAPITAL EXCEPT AS NOTED ON STRUCTURAL DRAWINGS
   OR
   b) MAXIMUM OPENING SIZES:
   -IN AREA COMMON TO TWO INTERSECTING COLUMN STRIPS - NOT GREATER THAN 1/8 OF THE SMALLER OF THE TWO COLUMN STRIP WIDTHS
   -IN AREA COMMON TO ONE COLUMN STRIP AND ONE MIDDLE STRIP - NOT GREATER THAN 1/4 OF THE SMALLER OF THE TWO STRIP WIDTHS
   -IN AREAS COMMON TO TWO INTERSECTING MIDDLE STRIPS - NOT GREATER THAN THE 1/2 OF THE SMALLER OF THE TWO STRIP WIDTHS.
2. SEE STRUCTURAL PLANS FOR APPROX. SIZES AND LOCATION OF OPENINGS AND ARCH. AND / OR MECH. AND ELECT. DRAWINGS FOR EXACT DIMENSIONS AND LOCATION.
3. IF OPENINGS LARGER THAN SIZES AS PER NOTE 1 ABOVE ARE REQUIRED AND ARE NOT SPECIFICALLY NOTED ON THE DRAWINGS THE ENGINEER MUST BE INFORMED SO PROPER DETAILS CAN BE SUPPLIED.
4. UNLESS OTHERWISE NOTED, OPENINGS SMALLER THAN 300x300 (12"x12") DO NOT REQUIRE TRIMMER BARS.
5. CONSULT STRUCTURAL ENGINEER FOR OPENINGS AND SLEEVES NOT COVERED BY THIS TYPICAL DETAIL FOR SPECIFICS ON STRUCTURAL DRAWINGS.

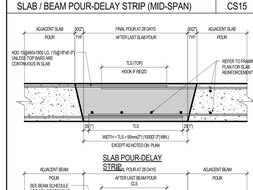
TYPICAL CRANE OPENING — CS13-R

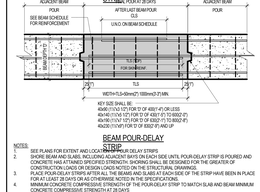




NOTES:
1. COORDINATE LOCATION OF CRANE OPENING WITH STRUCTURAL ENGINEER BEFORE PROCEEDING.
2. THIS TYPICAL DETAILS IS APPLICABLE FOR SLABS UP TO 350mm (12") THICK. CONSULT STRUCTURAL ENGINEER FOR SLABS THICKER THAN 350mm (12").
3. FOR CRANE OPENINGS IN SLABS WITH DROPS, REINFORCEMENT TO BE LOCATED AS SPACE IN ONE WAY SLABS AND MIDDLE STRIPS IN TWO WAY SLABS.

SLAB / BEAM POUR-DELAY STRIP (MID-SPAN) — CS15





NOTES:
1. SEE PLANS FOR EXTENT AND LOCATION OF POUR-DELAY STRIPS
2. SHORE BEAM AND SLABS, INCLUDING ADJACENT BAYS ON EACH SIDE UNTIL POUR-DELAY STRIP IS POURED AND ALL STRIPS ARE CLOSED WITH 72H CONCRETE. SHORING REMAINS FOR THE GREATER OF CONSTRUCTION LOADS OR DESIGN LOADS NOTED ON THE STRUCTURAL DRAWINGS.
3. PLACE POUR-DELAY STRIPS AFTER ALL THE BEAMS AND SLABS AT EACH SIDE OF THE STRIP HAVE BEEN IN PLACE FOR AT LEAST 28 DAYS OR AS OTHERWISE NOTED IN THE SPECIFICATIONS.
4. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF THE POUR-DELAY STRIP TO MATCH SLAB AND BEAM MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS.

CONCRETE BEAMS — CS16

BEAM SCHEDULE

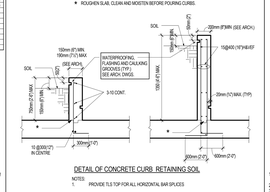
BEAM	SIZE	BOTTOM BARS			TOP BARS			STIRRUPS		REMARKS
NO.	w x h	NO.	SIZE	LAYERS	NO.	SIZE	LAYERS	SIZE	SPACING	
101	400x600	4	25	2	4	20	2	10	300	
		2	25	1						
102	400x400	4	25	2	4	20	2	10	300	
		2	25	1						
103	16"x24"	4	#8	2	4	#6	2	#3	12"	
		2	#8	1						

1. DIMENSIONS GIVEN LOOKING AT PLANS FROM BOTTOM OR RIGHT HAND BORDER.
2. AT SUPPORTS, STRAIGHT BARS SHALL BE CARRIED TO THE CENTRE OF SUPPORT AND 150mm (6") MIN. PAST FACE OF SUPPORT. HOOKED BARS SHALL BE STANDARD HOOKS, UNLESS NOTED, AND SHALL BE CARRIED TO FAR FACE OF SUPPORT, REFER TO ACI STANDARD 315 AND RSIC "MANUAL OF STANDARD PRACTICE" FOR STANDARD HOOKS.
3. STIRRUPS SHALL BE CLOSED STIRRUPS STARTING FROM FACE OF SUPPORTS. ADD 1 STIRRUP (OR PAIR) TO 1/2 SPACING FROM FACE OF SUPPORT.
4. PROVIDE BAR SUPPORTS AND SIDE FORM SPACERS TO CONFORM WITH CSA CAN 3.A23.1M.
5. ALL STIRRUPS ARE CLOSED WITH 72H HOOK END UNLESS NOTED.
6. ☒ CONCRETE STIRRUPS IN PAIRS.
7. ADD #10 TIES OR 10M STIRRUPS (HANGER STIRRUPS) EACH SIDE OF SECONDARY BEAM, STARTING 50mm (2") FROM FACE OF SECONDARY BEAM AND SPACED AT 50mm (2"). TYPICAL UNLESS NOTED OTHERWISE.
8. CONTACT STRUCTURAL ENGINEER FOR ALL SLEEVES NOT SHOWN ON DRAWINGS.

TYPICAL DETAIL OF CONCRETE CURBS ON SLABS — CS17

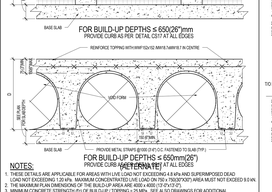
(TYPICAL UNLESS OTHERWISE SHOWN ON DRAWINGS)

★ ROUGHEN SLAB, CLEAN AND MOISTEN BEFORE POURING CURBS.



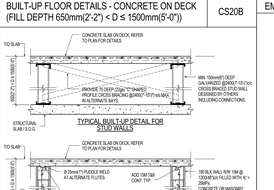
NOTES:
1. PROVIDE TILT OF FOR ALL HORIZONTAL BAR SPLICES

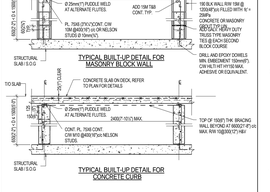
TYPICAL: CONCRETE BUILD-UP DETAIL (Ds 650mm(26")) — CS20A



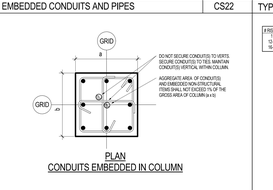
NOTES:
1. THESE DETAILS ARE APPLICABLE FOR AREAS WITH LIVE LOAD NOT EXCEEDING 4.8 kPa AND SUPERIMPOSED DEAD LOAD NOT EXCEEDING 1.2 kPa. FOR SUPERIMPOSED DEAD AND LIVE LOAD ON 150 x 750(30")OFF) AREA MUST NOT EXCEED 9.0 kN.
2. THE MAXIMUM PLAN DIMENSIONS OF THE BUILD-UP AREA ARE 4000 x 4000 (13'-0"x13'-0").
3. MINIMUM CONCRETE STRENGTH (f'c) OF BUILD-UP TOPPING = 25 MPa. SEE ALSO DRAWINGS FOR ADDITIONAL REQUIREMENTS DUE TO EXPOSED FROST OR DE-ICING CHEMICAL, IF APPLICABLE.

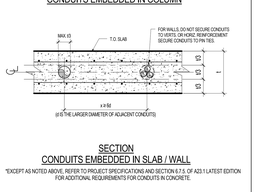
BUILT-UP FLOOR DETAILS - CONCRETE ON DECK (FILL DEPTH 650mm(2'-2") < D ≤ 1500mm(5'-0")) — CS20B





EMBEDDED CONDUITS AND PIPES — CS22

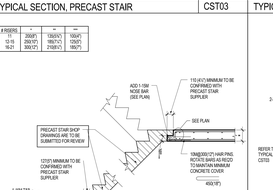




"EXCEPT AS NOTED ABOVE, REFER TO PROJECT SPECIFICATIONS AND SECTION 6.7.5. OF A23.1 LATEST EDITION FOR ADDITIONAL REQUIREMENTS FOR CONDUITS IN CONCRETE."

TYPICAL SECTION, PRECAST STAIR — CST03

# RISERS	300(9") TREAD	1350(5") TREAD	1500(6") TREAD
12-15	3300(13")	1950(7½")	1800(7")
16-21	3900(15")	2100(8½")	1950(7½")

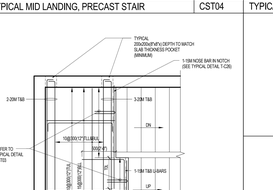


TYPICAL MID LANDING SECTION PRECAST CONCRETE STAIR

SEE CST04 FOR MID-LANDING SLAB REINFORCEMENT

MAX. STAIR LOADING
LL = 4.8 kPa
SDL = 1.5 kPa

TYPICAL MID LANDING, PRECAST STAIR — CST04

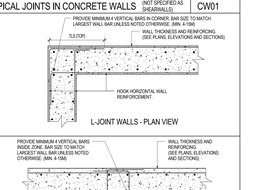


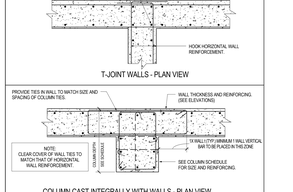
TYPICAL MID LANDING FRAMING PLAN PRECAST CONCRETE STAIR

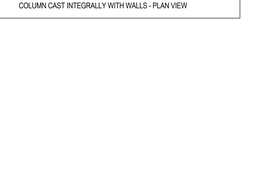
SEE CST03 FOR MID-LANDING SLAB THICKNESS BEARING DETAIL AND ADDED REINFORCEMENT IN MID-LANDING SLAB PRECAST CONCRETE STAIRS

# RISERS	L
13	6600"(7")
17	8001"(8")
21	9002"(7)

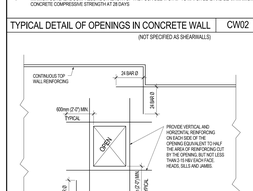
TYPICAL JOINTS IN CONCRETE WALLS — CW01





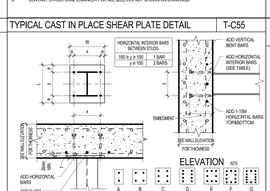


TYPICAL DETAIL OF OPENINGS IN CONCRETE WALL (NOT SPECIFIED AS SHEARWALLS) — CW02



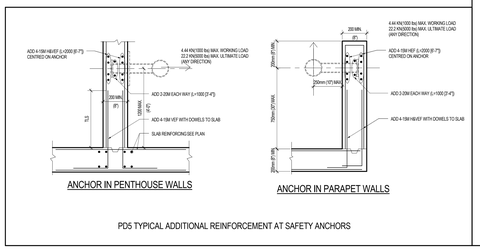
(TYPICAL UNLESS OTHERWISE SHOWN ON DRAWINGS)

TYPICAL CAST IN PLACE SHEAR PLATE DETAIL — T-C55

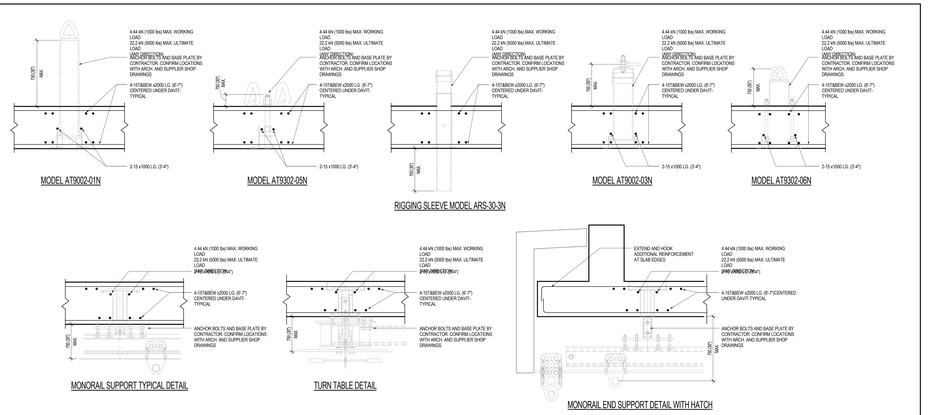


WALL PLATE	WALL PLATE DIMENSIONS				WALL PLATE TYPE	ANCHORS						ALLOWABLE BEAM SECTIONS
	W	x	t	t		#	Ø	EMBED	COL	ROW	x	y	
WP1	100	100	8	8	A	2	16	150	1	1	80	80	30, C75VC - C75VC
WP2	150	200	8	8	A	4	16	150	2	2	80	140	30, C150VT - C150VT
WP3	150	200	10	8	A	4	16	150	2	2	80	140	30, C150VC - C150VD
WP4					B	4	16	150	2	2	80	140	30,
WP5	150	300	10	8	A	4	19	150	2	2	80	250	35, C200VT - C200VD
WP6	150	300	10	8	C	6	19	150	2	3	80	250	35, C200VD - C200VD
WP7					C	6	19	200	2	3	80	140	35,
WP8					C	6	19	250	2	3	80	140	35,
WP9	200	250	10	8	B	4	19	150	2	2	130	180	35, W150x13 - W200x31
WP10	250	250	10	8	A	4	19	150	2	2	180	180	35, W200x26 - W200x46
WP11	250	300	10	8	C	6	19	150	2	3	180	210	35, W200x15 - W200x46
WP12	200	350	12	C	B	6	19	150	2	3	130	140	35, W310x21 - W310x52
WP13	250	350	12	C	B	6	19	150	2	3	180	140	35, W310x28 - W310x52
WP14					B	6	19	200	2	3	180	140	35,
WP15	250	450	16	D	B	9	19	150	2	4	180	125	35, W360x33 - W360x57
WP16	300	500	20	E	B	8	19	150	3	3	120	220	35, W360x33 - W460x68
WP17					B	8	19	200	3	3	120	220	35,
WP18					B	8	19	250	3	3	120	220	35,
WP19	300	600	16	F	B	10	19	250	3	4	160	165	40,
WP20	400	600	20	F	B	10	19	250	3	4	160	165	40,
(WP21)	400	800	20	G	B	12	19	250	3	5	160	120	40,

1. ASSUMED CONCRETE STRENGTH f'c = 25 MPa
2.



PD5 TYPICAL ADDITIONAL REINFORCEMENT AT SAFETY ANCHORS



PD6 - ADDITIONAL SLAB REINFORCEMENT
DETAILS AT ROOF ANCHORS

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Without The Consent Of The Architect Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2500 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T.tel.(416) 495 7976
www.stephenson-eng.com I info@stephenson-eng.com

No	Revision	Date

TORONTO Building
PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE
15 176396 FND 00
ZONING
O.B.C. Emanuela Gratarola 20/Jul/2016
FIRE SERVICES
O.B.C. (S)

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016

AQUAVISTA
AT BAYSIDE TORONTO

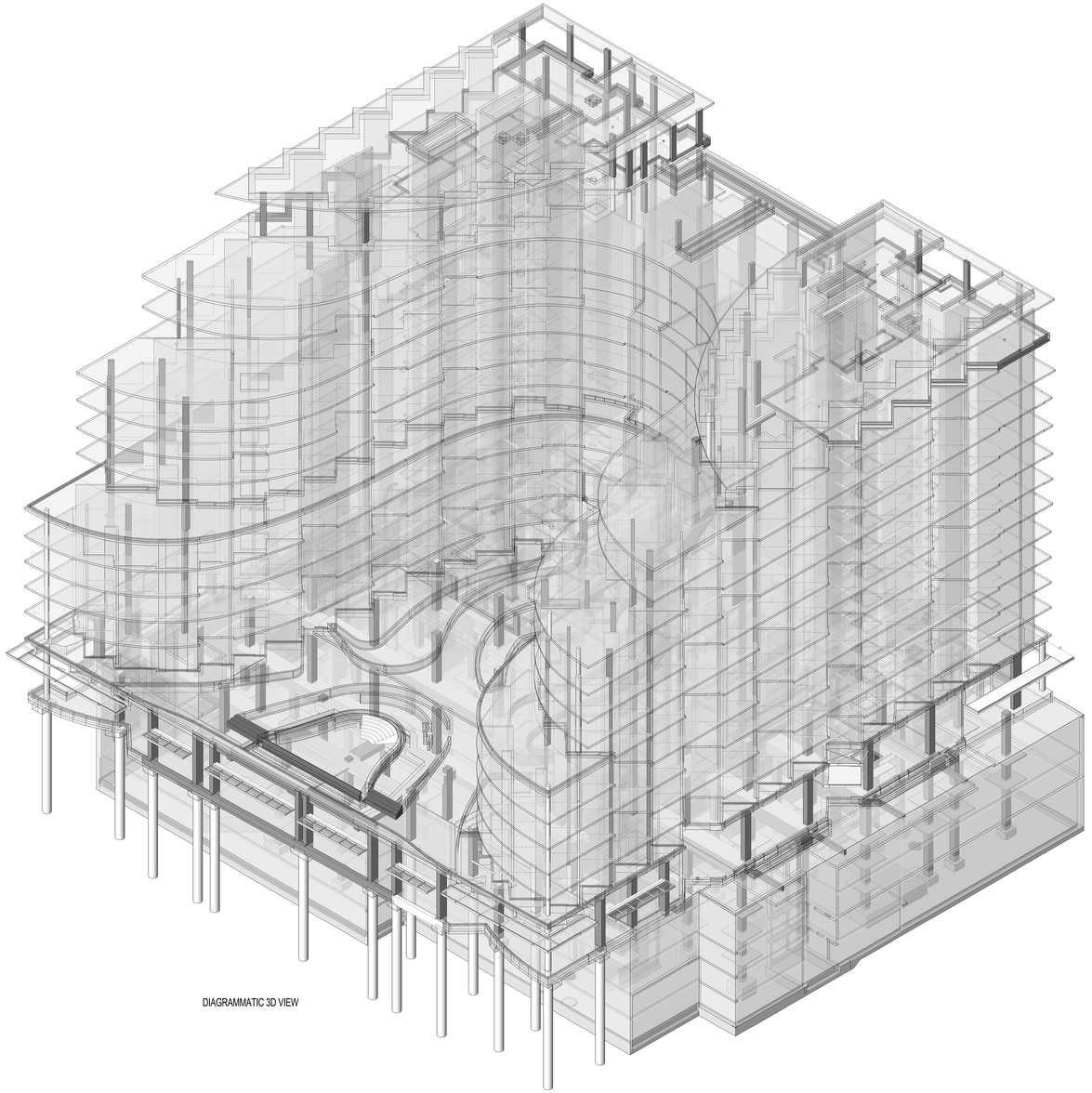
Drawing Title
TYPICAL AND PROJECT DETAILS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No: 20140031
Date: MAY 12,2016
Drawing No:
S8-03

TORONTO Building RECEIVED 14/Jul/2016

Plot Date: 5/12/2016 10:02:21 AM



DIAGRAMMATIC 3D VIEW

DRAWING LIST

Sheet Number	Sheet Name
S0 SERIES - COVER SHEET	
S0-01	COVER SHEET
S1 SERIES - PLANS	
S1-01	FOUNDATION PLAN
S1-02	LEVEL P3 FLOOR FRAMING PLAN
S1-03	LEVEL P2 FLOOR FRAMING PLAN
S1-04	LEVEL P1 FLOOR FRAMING PLAN
S1-05	LEVEL P1 MEZZANINE FRAMING PLAN
S1-06	LEVEL 1-GROUND FLOOR FRAMING PLAN - WITH TOP REINFORCEMENT AND DETAILS
S1-07	LEVEL 1-GROUND FLOOR FRAMING PLAN - WITH BOTTOM REINFORCEMENT AND SCHEDULES
S1-08	LEVEL L1 MEZZANINE FRAMING PLAN
S1-09	LEVEL 2 FLOOR FRAMING PLAN
S1-10	LEVEL 3 FLOOR FRAMING PLAN
S1-11	LEVEL 4 FLOOR FRAMING PLAN
S1-12	LEVEL 5 FLOOR FRAMING PLAN
S1-13	LEVEL 6 FLOOR FRAMING PLAN
S1-14	LEVEL 7 FLOOR FRAMING PLAN
S1-15	LEVEL 8 FLOOR FRAMING PLAN
S1-16	LEVEL 9 FLOOR FRAMING PLAN
S1-17	LEVEL 10 FLOOR FRAMING PLAN
S1-18	LEVEL 11 FLOOR FRAMING PLAN
S1-19	LEVEL 12 / PH1 FLOOR FRAMING PLAN
S1-20	LEVEL 13/PH2/ MECH. FLOOR FRAMING PLAN
S1-21	ROOF FRAMING PLANS
S1-22	WIND UPLIFT PLAN
S2 SERIES - SCHEDULES	
S2-01	COLUMN SCHEDULES - LEVEL 2 AND BELOW
S2-02	COLUMN SCHEDULE - LEVEL 2 ABOVE AND CONNECTION PLATE SCHEDULE
S2-03	BEAM SCHEDULES
S3 SERIES - WALL ELEVATIONS	
S3-01	WALL ELEVATIONS AND NOTES
S3-02	WALL ELEVATIONS
S3-03	WALL ELEVATIONS
S3-04	WALL ELEVATIONS
S3-05	WALL ELEVATIONS
S3-06	WALL ELEVATIONS
S3-07	WALL ELEVATIONS
S3-08	WALL ELEVATIONS
S3-09	WALL ELEVATIONS
S3-10	WALL ELEVATIONS
S4 SERIES - FOUNDATION ELEVATION AND SECTIONS	
S4-01	FOUNDATION ELEVATIONS
S4-02	FOUNDATION SECTIONS
S4-03	FOUNDATION SECTIONS
S4-04	FOUNDATION SECTIONS
S5 SERIES - GROUND FLOOR SECTIONS	
S5-01	GROUND FLOOR SECTIONS
S6 SERIES - FLOOR SECTIONS	
S6-01	FLOOR SECTIONS
S6-02	FLOOR SECTIONS
S6-03	FLOOR SECTIONS
S7 SERIES - ROOF SECTIONS	
S7-01	ROOF SECTIONS
S8 SERIES - TYPICAL NOTES & DETAILS	
S8-01	GENERAL NOTES & TYPICAL DETAILS
S8-02	TYPICAL DETAILS
S8-03	TYPICAL AND PROJECT DETAILS

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Any Form Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date

stephenson ENGINEERING

2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 1975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR IMT REVIEW	MAY 21,2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
COVER SHEET

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale

Drawn by
DC

Checked by
BBS

Project No
20140031

Date
MAY 12,2016

Drawing No
S0-01

DESIGN CRITERIA NOTES

1. GENERAL
   - 1.1. THE PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 OBC
   - 1.2. THE PARKING GARAGE HAS BEEN DESIGNED IN ACCORDANCE TO THE STRUCTURAL REQUIREMENTS OF CSA-S413-07 PARKING STRUCTURES. SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING, SEALERS, ETC., DETAILED IN ACCORDANCE WITH CSA-S413-07. SEE ALSO MECHANICAL DRAWINGS FOR COMPLIANCE WITH THE MECHANICAL REQUIREMENTS OF CSA-S413-07.
   - 1.3. THE ROOF SLABS AND THE SLAB ON GRADE HAVE BEEN DESIGNED FOR CLAUSES 4.1.5.5., 4.1.5.10. APPENDIX A OF THE OBC AND WHERE APPLICABLE GARAGE ROOF SLABS HAVE BEEN DESIGNED FOR THE REQUIREMENTS OF THE CITY OF TORONTO GUIDELINES FOR GARBAGE TRUCK AND FIRE TRUCK WHEEL LOADING.
   - 1.4. ALL REINFORCED CONCRETE SLABS, BEAMS, COLUMNS, AND SHEAR WALLS HAVE BEEN DESIGNED TO CSA-A23.3-04 AND ARE DETAILED ACCORDINGLY.
   - 1.5. MISCELLANEOUS METAL, PRECAST AND STAIR FABRICATORS SHALL:
     - 1.5.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
     - 1.5.2. DESIGN ALL GUARDS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.15.
     - 1.5.3. DESIGN ALL STAIRS TO MEET LIVE LOADS DESCRIBED IN OBC 4.1.5.15.
     - 1.5.4. DESIGN ALL STAIRS TO SUPPORT A MINIMUM DEAD LOAD OF 0.5kPa.
   - 1.6. ARCHITECTURAL PRECAST FABRICATOR SHALL:
     - 1.6.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
     - 1.6.2. DESIGN ALL PRECAST ELEMENTS TO SUPPORT DESIGN LOADS AND CONNECTIONS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.15.
   - 1.7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO IS SUPPLYING AND INSTALLING EQUIPMENT, THAT ALL ELEMENTS OF STRUCTURES LISTED IN TABLE 4.1.8.7 OF THE OBC 2012 ARE DESIGNED IN ACCORDANCE WITH CLAUSE 4.1.8.17.
   - 1.8. THE BUILDING IS DESIGNED FOR SNOW, WIND, AND EARTHQUAKE IS NORMAL (s=1.0)
   - 1.9. STAIR ELEMENTS NOT PART OF SFRS SHALL BE SEPARATED FROM THE STRUCTURE AS PER OBC CLAUSE 4.1.8.9 (6). EXAMPLES INCLUDE, BUT NOT LIMITED TO MASONRY PARTITIONS, BRICK VENEER, PRECAST CLADDING ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER DEMONSTRATING COMPLIANCE. PROVIDE MINIMUM 25mm SEPARATION UNLESS NOTED OTHERWISE ON DRAWINGS AND SPECIFICATION.

2. LATERAL LOADS ON STRUCTURE
   - 2.1. WIND
     - $q_{1/50}$ = 0.44 kPa
     - C_e = (H/10)^0.2 BUT LESS THAN 1.0 AND NOT GREATER THAN 2.5(2%AMVC APPROACH)
     - C_g = 1.0
     - C_p = AS PER FIGURE I-3 OF USER'S GUIDE - NBC 2005 STRUCTURAL COMMENTARIES (PART 4 OF DIVISION B)

     BASED ON MWFRS (MAIN WIND SHEAR SHEAR Y=3512kN, MAX. INTERSTOREY DRIFT=0.0056, SHEAR X=3512kN, MAX. INTERSTOREY DRIFT=0.0056)
   - 2.2. EARTHQUAKE
     - $S_a(0.2)$ = 0.122 — PGA = 0.12 — F_a = 1.0
     - $S_a(0.5)$ = 0.12 — SITE CLASS = C — F_v = 1.0
     - $S_a(1.0)$ = 0.067 — R_d = 1.5 — I_E = 1.0
     - $S_a(2.0)$ = 0.033 — R_o = 1.3

     SFRS CONSISTS OF CONCRETE SHEAR WALLS.
     STRUCTURAL IRREGULARITIES CONSIDERED IN THE DESIGN PER CLAUSE 4.1.8.6. CONSIST OF:
     TYPES 1, 2, 4, 5 & 6
     METHOD OF ANALYSIS: - DYNAMIC
     BASE SHEAR: V=3756kN, SHEAR FORCE DISTRIBUTION: F_t=0kN, V_x=1837kN, V_y=1837kN, M_t=0 kNm, T_a=1.05s, T_d=2.26s
3. FOUNDATION WALLS
   - 3.1. WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND HORIZONTAL EARTH AND HYDROSTATIC PRESSURE (P=K (YH+YW+q)+PWD).
     WHERE
     K = 0.5
     YW = 22kN/m³
     q = 12kPa (LIVE LOAD SURCHARGE)
     YH = DEPTH TO GRADE/ WATER TABLE, IN METRES
     YW = DEPTH BELOW GROUND WATER TABLE, IN METRES
     PWD = 10kPa (HYDROSTATIC)
     Y = (Y-YW)(SUBMERGED SOIL UNIT WEIGHT) + YW(WATER UNIT WEIGHT)

	STRENGTH AT 28 DAYS (Mpa)	SLUMP AT DELIVERY (mm)	AIR ENTRAINMENT	MAXIMUM W/C RATIO	EXPOSURE CLASSIFICATION
GENERAL (NON-EXPOSED) CONCRETE INTERIOR SLABS, WALLS, COLUMNS, BEAMS AND FOUNDATIONS (SEE PLAN & SCHEDULE FOR STRENGTH)	25 30 35 40 45	80 ± 20	·····	TO SUIT	N
EXTERIOR (EXPOSED) CONCRETE WALLS AND OR COLUMNS, EXCEPT PARKING STRUCTURE	25 30 35 40 45	80 ± 20	4 - 7 %	0.55	F - 2
(1) GENERAL INTERIOR SLAB - ON - GRADE	25	80 ± 20	·····	TO SUIT	N
EXTERIOR SLABS-ON-GRADE, SIDEWALKS, CURBS AND GUTTERS (UNREINFORCED)	32	80 ± 20	5 - 8 %	0.45	C - 2
(2) PARKING STRUCTURE (SLAB, COLUMNS, BEAMS WALLS GRADE BEAMS/CAPS AND FOOTINGS)	35 40 45	80 ± 20	5 - 8 %	0.40	C - 1
(2) EXTERIOR GARAGE ROOF, POOL (PROVIDE DCI AT A DOSAGE OF 30L/M³)	35	80 ± 20	5 - 8 %	0.40	C - 1
(2) PARKING SLABS-ON-GRADE	32	80 ± 20	5 - 8 %	0.45	C - 2
NON WATER PROOFED EXPOSED BALCONY SLAB	30	80 ± 20	5 - 8 %	0.50	F - 1
LEAN MIX CONCRETE	15	80 ± 20	·····	TO SUIT	N

1) REINFORCED WITH SYNTHETIC FIBRES ADDED AT BATCHING PLANT - SEE SPECIFICATION.
2) CHLORIDE ION PENETRABILITY REQUIREMENTS < 1500 COULOMBS WITHIN 56 DAYS.

CAISSON SCHEDULE

CAISSON NUMBER	CAISSON DIA.	UPPER SHAFT REINFORCEMENT	UPPER SHAFT STIRRUPS ZONE	UPPER SHAFT REMAINING STIRRUPS	EMBEDMENT INTO SOUND BEDROCK, m	CONCRETE STRENGTH	LOAD ULS kN
C1	915Ø	11-25 V + 10@150 TIES	2750	10@300	2.0	25MPa	3700
C2	915Ø	16-25 V + 10@150 TIES	2750	10@300	3.0	25MPa	5500

FOOTING SCHEDULE

FOOTING NUMBER	FOOTING NUMBER AND SIZE	FOOTING REINF. LG. (HOOKED EE)	FOOTING REINF. TR. (HOOKED EE)	LOAD ULS KN
F1	1000x1200x600 DP.	10-20B	11-20B	4400
F1a	1000x1350x600 DP.	10-20B	11-20B	4400
F2	1300x1400x600 DP.	13-20B	14-20B	7300
F3	1600x1700x1100 DP.	12-25B	13-25B	10900
F4	1900x2100x1400 DP.	19-25B	21-25B	16000
F5	900x1300x650 DP.	9-20B	13-20B	4700

CAISSON CAP SCHEDULE

CAP #	CAP SIZE	REINF. HOOKED EE	CONCRETE STRENGTH
CP1	1300x1300x800 DP	6-20 BEW	25 MPa
CP2	1300WD*1%x800DP, LENGTH TO SUIT	6-20 BEW	25 MPa
CP3	2310WD*1%x800DP, LENGTH TO SUIT	6-20 T&B LG. 3-20 T&B TR.	25 MPa

FOUNDATION PLAN NOTES:

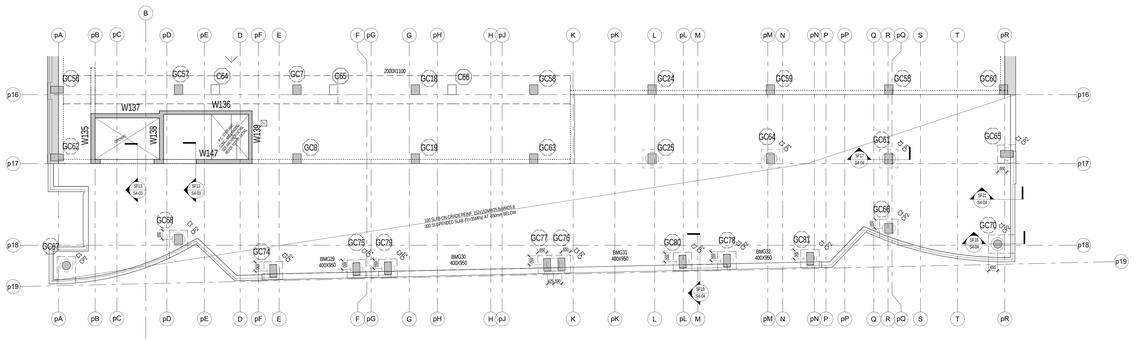
1. TOP OF SLAB VARIES IN PARKING LEVEL AND IS TO BE SLOPED TO SUIT DRAINAGE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
2. PROVIDE SLAB DEPRESSIONS 200mm THICK WITH SAW CUTS @3000 c/c EACH WAY. SEE SPECIFICATIONS.
3. PROVIDE SLAB STEPPING AS REQUIRED, OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS, AS REQUIRED BY ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
4. SLAB-ON-GRADE TO BE PLACED ON A 150 mm MINIMUM LAYER OF COMPACTED 19mm MAXIMUM SIZE CLEAR CRUSHED STONE.
5. ALL FOOTINGS TO BE CARRIED DOWN TO SOUND BEDROCK WITH A FACTORED GEOTECHNICAL RESISTANCE @ULS OF 5000 kPa.
   ALL SPREAD AND STRIP FOOTINGS TO BE CAST AGAINST SIDES OF EXCAVATION.
6. FRICTION CAISSONS HAVE BEEN DESIGNED FOR 1/3 BEND STRENGTH OF 70MPa BETWEEN CONCRETE AND SOUND SHALE.
7. THE BEDROCK SURFACE HAS VALUE IS ASSUMED TO BE FOUND AT THE ELEVATIONS SHOWN. ANY VARIATIONS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
8. REFER TO SOIL REPORT BRH BAUTECH P.N. JA 2015 PREPARED BY EXP. AND MEMORANDUM DATED APRIL 24,2015.
9. BEDROCK AT THE UNDERSIDE OF ALL FOOTINGS IS TO BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE SOILS CONSULTANT. NO CONCRETE SHALL BE PLACED UNTIL APPROVAL HAS BEEN GIVEN. CONCRETE IN FOOTINGS TO BE PLACED ON BEDROCK IMMEDIATELY AFTER EXCAVATION AND INSPECTION IS COMPLETED.
10. TOP OF FOOTINGS TO BE AT ELEVATIONS AS NOTED ON PLAN (TOF +).
11. IOF = STATION FOOTING STEPS IN ANY FOOTING SHALL BE 300mm HIGH AND 2/1=DIRECTION OF 1 VERT. UNLESS OTHERWISE NOTED. ALL WALL FOOTINGS TO BE 350 mm DEEP WITH 150 mm PROJECTION EACH SIDE, UNLESS NOTED OTHERWISE ON DRAWINGS.
12. ALL INTERIOR FOUNDATION WALL FOOTINGS TO BE WITH 125 mm PROJECTION.
    PROTECT FOOTING BASE BY 50mm CONCRETE IF CONCRETE PLACEMENT NOT OCCUR ON THE SAME DAY.
13. DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH UNTIL FLOOR AT TOP AND BOTTOM OF WALLS ARE PLACED AND HAVE ATTAINED SPECIFIED DESIGN STRENGTH (4).
14. ALL CONCRETE SHALL BE AIR ENTRAINED AND SHALL CONTAIN AN APPROVED ADMIXTURE CONTAINING 0.3% CHLORIDES BY WEIGHT OF CEMENT TO EQUALIZE SOIL PRESSURE.
15. CO-ORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER AND ARCHITECT PRIOR TO PROCEEDING WITH ANY WORK.
16. CENTRE LINES OF COLUMNS, WALLS, CAPS, CAISSONS AND FOOTINGS ARE CONCIDENT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
17. CONCRETE FOR FOUNDATION WALLS AND ALL FOOTINGS SHALL BE CLASS C-1 WITH A MINIMUM CONCRETE STRENGTH AT 28 DAYS OF 35 MPa (4).
18. ALL CONCRETE WALLS POURED MONOLITHICALLY WITH COLUMNS AND/OR SHEAR WALLS SHALL HAVE THE SAME CONCRETE STRENGTH AS INDICATED FOR THE COLUMNS AND/OR SHEAR WALLS WHICHEVER IS GREATER.
19. THE GENERAL CONTRACTOR IS TO SUBMIT FOR REVIEW PROPOSED SLAB-ON-GRADE SAWCUT LAYOUT SEE TYPICAL DETAILS.
20. THE PROJECT SUPERINTENDENT MUST CONTACT THE OFFICE 24 HOURS PRIOR TO PouRING STRUCTURAL CONCRETE.
21. REFER TO COLUMN SCHEDULES AND SHEAR WALL ELEVATIONS.
22. SEE ALSO GENERAL NOTES AND TYPICAL DETAILS.
23. SEE TYPICAL CONCRETE MIX CHART DRAWING S1-03.
24. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR UNDER SLAB-ON-GRADE WEEPING TILE SYSTEM.
25. PROVIDE DCI AT A DOSAGE OF 30L/M³ CONCRETE IN THE FRAMED RAMP SLAB AND ALL TURNING AREAS.
26. C - ON PLAN INDICATES CAISSON, SEE SCHEDULE ON THIS DRAWING.
27. CP - ON PLAN INDICATES CAISSON CAP. SEE SCHEDULE ON THIS DRAWING.
28. REFER TO SOIL REPORT RECOMMENDATIONS REGARDING HEAVE WELLS, BOND STRENGTH FOR CAISSONS.

SITE PREPARATION NOTES FOR SLAB-ON-GRADE (WITHIN BUILDING ENVELOPE)

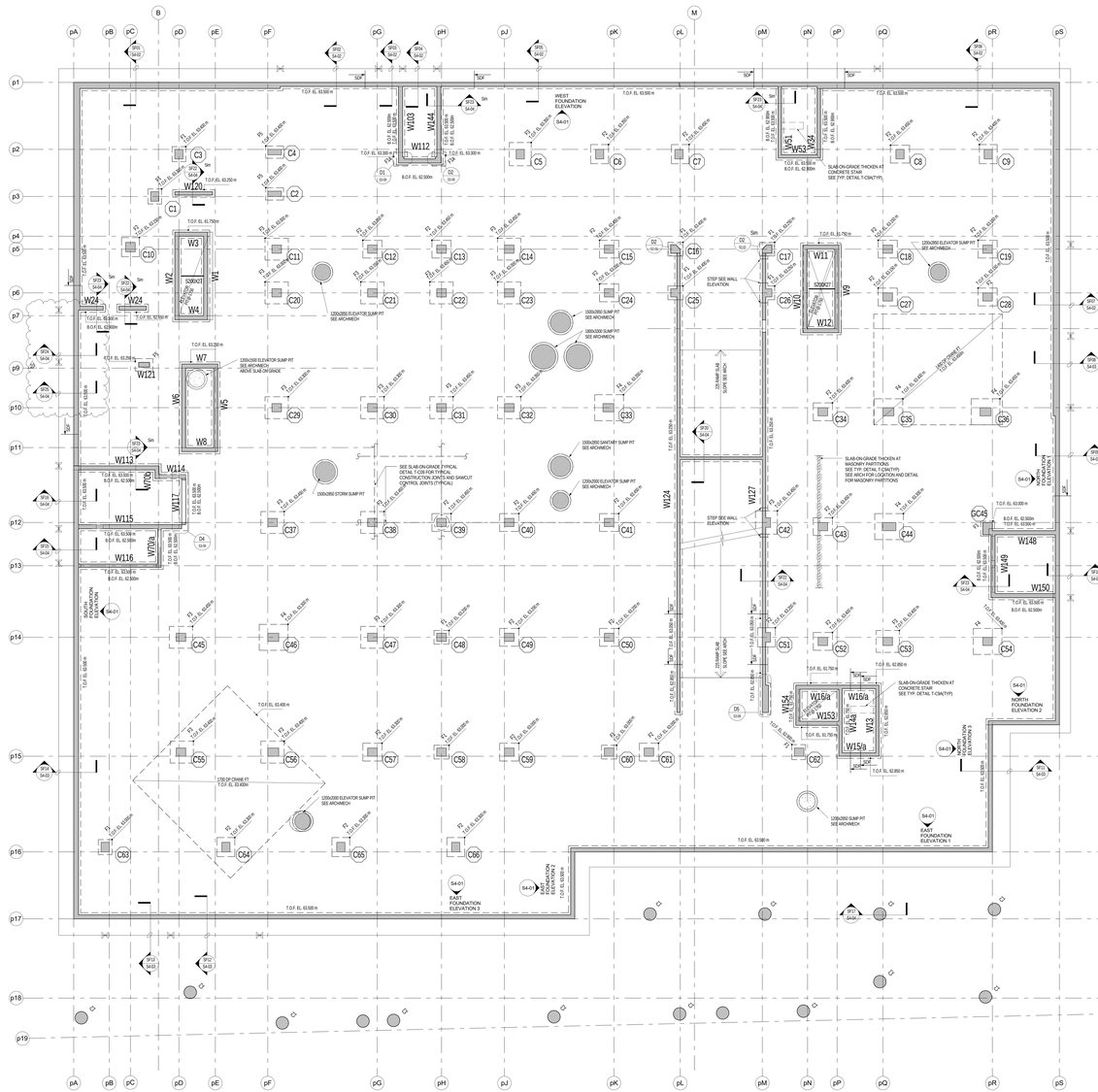
1. THE AREA WITHIN THE BUILDING SHALL BE STRIPPED OF THE UPPER LAYER SOIL, FILL, ORGANICALLY CONTAMINATED MATERIAL AND RUBBLE AND TO A MINIMUM OF 200mm (8") BELOW THE UNDERSIDE OF THE SLAB ON GRADE.
2. THE EXPOSED SUB-GRADE SHALL BE EXAMINED AND APPROVED BY THE SOIL CONSULTANT.
3. THE ENTIRE AREA SHALL BE PROOF ROLLED USING A VIBRATORY COMPACTOR TO A MINIMUM OF 98% STANDARD PROCTOR MAX. DRY DENSITY AND TO THE APPROVAL OF THE SOIL CONSULTANT.
4. ANY SOFT OR LOOSE SPOTS ENCOUNTERED SHALL BE SUB-EXCAVATED AND BACKFILLED WITH COMPACTED APPROVED MATERIAL.
5. FILL REQUIRED TO RAISE THE GRADES SHALL BE COMPRISED OF APPROVED GRANULAR 'B' TYPE I CONFORMING TO OPSS.1010, PLACED IN SUCCESSIVE LOOSE 200mm(8") LAYERS EACH COMPACTED TO AT LEAST 95% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY.
6. THE TOP 150mm (6") OF GRANULAR FILL UNDER SLAB-ON-GRADE SHALL BE 200mm (8") OF GRANULAR 'A' COMPACTED TO 98% STANDARD PROCTOR MAX. DRY DENSITY. MIN.
7. ALL PROCEDURES, EQUIPMENT AND MATERIALS SHALL BE APPROVED BY THE SOIL CONSULTANT WHO SHALL CONDUCT SUFFICIENT TESTS TO ENSURE THAT THE SPECIFIED MATERIALS AND PROCEDURES ARE ACHIEVED.
8. THE CONTRACTOR SHALL CO-ORDINATE WITH THE SOIL CONSULTANT AND ARRANGE A SUITABLE PROGRAM FOR TESTING AND INSPECTION. SEE SPECIFICATIONS FOR FURTHER DETAILS.
9. EXISTING ON-SITE MATERIAL SHALL NOT BE USED WITHIN THE BUILDING AREA FOR BACKFILLING IN TRENCHES AGAINST FOUNDATION WALLS OR UNDER SLABS-ON-GRADE.
10. REFER TO THE SPECIFICATIONS AND THE SOIL REPORT FOR PREPARATION OF AREAS OUTSIDE THE BUILDING ENVELOPE.

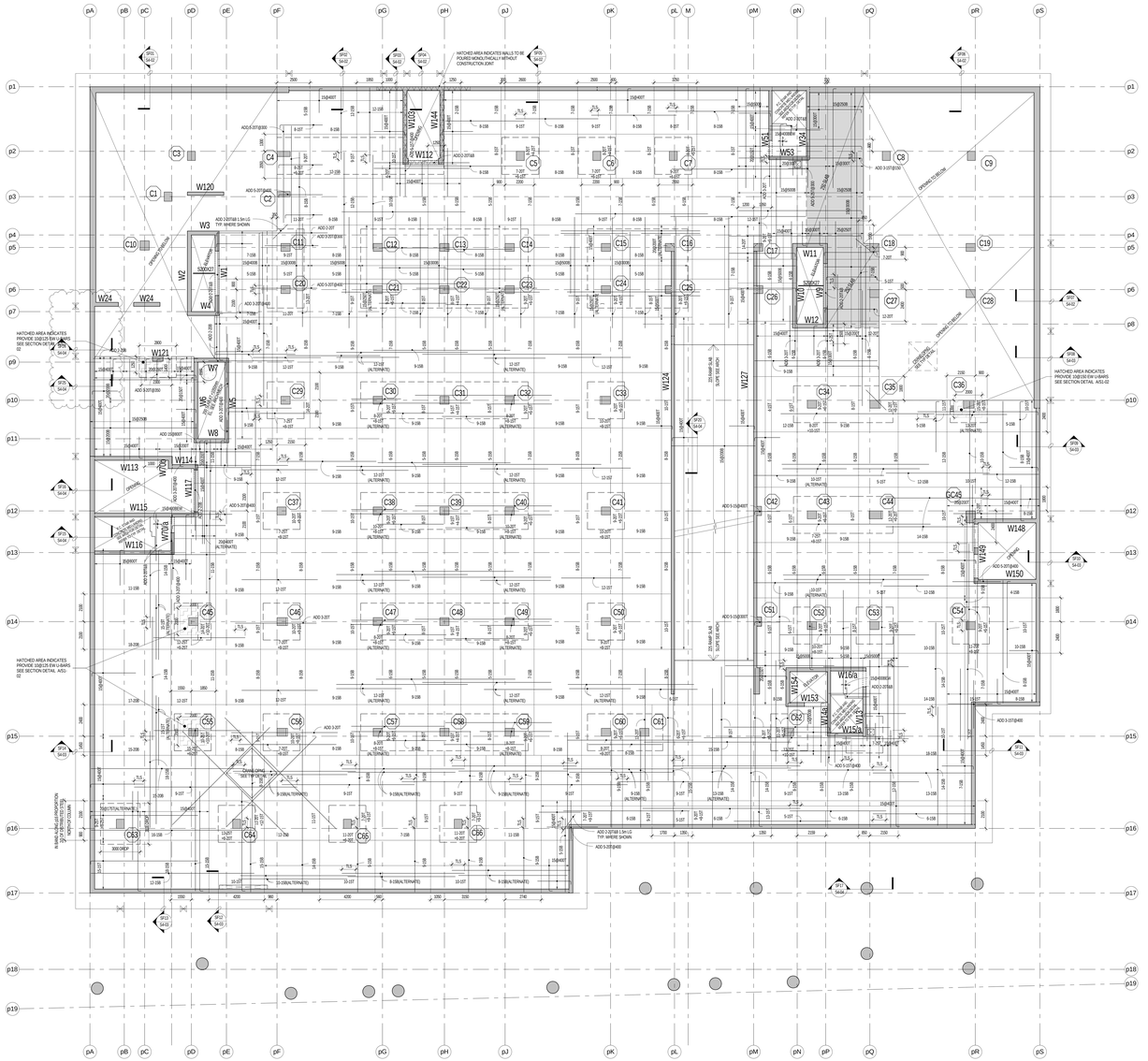
LEGEND

- WALLS AND COLUMN SHADED AS THUS INDICATE WALL AND COLUMN BELOW SLAB
- WALLS AND COLUMN SHADED AS THUS INDICATE WALL AND COLUMN ABOVE SLAB
- - INDICATES COLUMN NUMBER OF BELOW SLAB. REFER TO COLUMN SCHEDULE
- - INDICATES COLUMN NUMBER OF ABOVE SLAB. REFER TO COLUMN SCHEDULE



FOUNDATION PLAN AT GROUND LEVEL
1 : 100


B M
pA pB pC pD pE pF pG pH pJ pK pL pM pN pP pR pS
p1 p2 p3 p4 p5 p6 p7 p8 p9 p10 p11 p12 p13 p14 p15 p16 p17 p18 p19
WEST FOUNDATION ELEVATION
SA-01
EAST FOUNDATION ELEVATION 1
EAST FOUNDATION ELEVATION 2
NORTH FOUNDATION ELEVATION 1
NORTH FOUNDATION ELEVATION 2
SLAB-ON-GRADE THICKEN AT CONCRETE STAIR SEE TYP. DETAIL T-CAN(TYP)
SLAB-ON-GRADE THICKEN AT MASONRY PARTITIONS SEE TYP. DETAIL T-CAN(TYP) SEE ARCH FOR LOCATION AND DETAIL FOR MASONRY PARTITIONS
STEP SEE WALL ELEVATION
1350x2050 ELEVATOR SUMP PIT SEE ARCH/MECH
1050x1050 SUMP PIT SEE ARCH/MECH
1500x2500 SANITARY SUMP PIT SEE ARCH/MECH
1200x2000 ELEVATOR SUMP PIT SEE ARCH/MECH
1350x1500 ELEVATOR SUMP PIT ABOVE SLAB-ON-GRADE
1500x3050 STORM SUMP PIT
DEPRESSED SLAB 200MM
SLOPE SEE ARCH
SAWCUT CONTROL JOINTS (TYPICAL)
SEE SLAB-ON-GRADE TYPICAL DETAIL S1-03 FOR TYP. CONSTRUCTION JOINTS AND SAWCUT CONTROL JOINTS (TYPICAL)
T.O.F. EL. 63.500m
T.O.F. EL. 63.300 m
T.O.F. EL. 63.050 m
T.O.F. EL. 62.800m
T.O.F. EL. 62.700 m
T.O.F. EL. 62.550m
T.O.F. EL. 62.500m
T.O.F. EL. 62.450m
T.O.F. EL. 62.400m
T.O.F. EL. 62.350m
T.O.F. EL. 62.300m
T.O.F. EL. 62.250m
T.O.F. EL. 62.200m
T.O.F. EL. 62.150m
T.O.F. EL. 62.100m
T.O.F. EL. 62.050m
T.O.F. EL. 62.000m
T.O.F. EL. 61.950m
T.O.F. EL. 61.900m
T.O.F. EL. 61.850m
T.O.F. EL. 61.800m
T.O.F. EL. 61.750m
T.O.F. EL. 61.700m
T.O.F. EL. 61.650m
T.O.F. EL. 61.600m
T.O.F. EL. 61.550m
T.O.F. EL. 61.500m
T.O.F. EL. 61.450m
T.O.F. EL. 61.400m
T.O.F. EL. 61.350m
T.O.F. EL. 61.300m
T.O.F. EL. 61.250m
T.O.F. EL. 61.200m
T.O.F. EL. 61.150m
T.O.F. EL. 61.100m
T.O.F. EL. 61.050m
T.O.F. EL. 61.000m
T.O.F. EL. 60.950m
T.O.F. EL. 60.900m
T.O.F. EL. 60.850m
T.O.F. EL. 60.800m
T.O.F. EL. 60.750m
T.O.F. EL. 60.700m
T.O.F. EL. 60.650m
T.O.F. EL. 60.600m
T.O.F. EL. 60.550m
T.O.F. EL. 60.500m
T.O.F. EL. 60.450m
T.O.F. EL. 60.400m
T.O.F. EL. 60.350m
T.O.F. EL. 60.300m
T.O.F. EL. 60.250m
T.O.F. EL. 60.200m
T.O.F. EL. 60.150m
T.O.F. EL. 60.100m
T.O.F. EL. 60.050m
T.O.F. EL. 60.000m
T.O.F. EL. 59.950m
T.O.F. EL. 59.900m
T.O.F. EL. 59.850m
T.O.F. EL. 59.800m
T.O.F. EL. 59.750m
T.O.F. EL. 59.700m
T.O.F. EL. 59.650m
T.O.F. EL. 59.600m
T.O.F. EL. 59.550m
T.O.F. EL. 59.500m
T.O.F. EL. 59.450m
T.O.F. EL. 59.400m
T.O.F. EL. 59.350m
T.O.F. EL. 59.300m
T.O.F. EL. 59.250m
T.O.F. EL. 59.200m
T.O.F. EL. 59.150m
T.O.F. EL. 59.100m
T.O.F. EL. 59.050m
T.O.F. EL. 59.000m
T.O.F. EL. 58.950m
T.O.F. EL. 58.900m
T.O.F. EL. 58.850m
T.O.F. EL. 58.800m
T.O.F. EL. 58.750m
T.O.F. EL. 58.700m
T.O.F. EL. 58.650m
T.O.F. EL. 58.600m
T.O.F. EL. 58.550m
T.O.F. EL. 58.500m
T.O.F. EL. 58.450m
T.O.F. EL. 58.400m
T.O.F. EL. 58.350m
T.O.F. EL. 58.300m
T.O.F. EL. 58.250m
T.O.F. EL. 58.200m
T.O.F. EL. 58.150m
T.O.F. EL. 58.100m
T.O.F. EL. 58.050m
T.O.F. EL. 58.000m
T.O.F. EL. 57.950m
T.O.F. EL. 57.900m
T.O.F. EL. 57.850m
T.O.F. EL. 57.800m
T.O.F. EL. 57.750m
T.O.F. EL. 57.700m
T.O.F. EL. 57.650m
T.O.F. EL. 57.600m
T.O.F. EL. 57.550m
T.O.F. EL. 57.500m
T.O.F. EL. 57.450m
T.O.F. EL. 57.400m
T.O.F. EL. 57.350m
T.O.F. EL. 57.300m
T.O.F. EL. 57.250m
T.O.F. EL. 57.200m
T.O.F. EL. 57.150m
T.O.F. EL. 57.100m
T.O.F. EL. 57.050m
T.O.F. EL. 57.000m
T.O.F. EL. 56.950m
T.O.F. EL. 56.900m
T.O.F. EL. 56.850m
T.O.F. EL. 56.800m
T.O.F. EL. 56.750m
T.O.F. EL. 56.700m
T.O.F. EL. 56.650m
T.O.F. EL. 56.600m
T.O.F. EL. 56.550m
T.O.F. EL. 56.500m
T.O.F. EL. 56.450m
T.O.F. EL. 56.400m
T.O.F. EL. 56.350m
T.O.F. EL. 56.300m
T.O.F. EL. 56.250m
T.O.F. EL. 56.200m
T.O.F. EL. 56.150m
T.O.F. EL. 56.100m
T.O.F. EL. 56.050m
T.O.F. EL. 56.000m
T.O.F. EL. 55.950m
T.O.F. EL. 55.900m
T.O.F. EL. 55.850m
T.O.F. EL. 55.800m
T.O.F. EL. 55.750m
T.O.F. EL. 55.700m
T.O.F. EL. 55.650m
T.O.F. EL. 55.600m
T.O.F. EL. 55.550m
T.O.F. EL. 55.500m
T.O.F. EL. 55.450m
T.O.F. EL. 55.400m
T.O.F. EL. 55.350m
T.O.F. EL. 55.300m
T.O.F. EL. 55.250m
T.O.F. EL. 55.200m
T.O.F. EL. 55.150m
T.O.F. EL. 55.100m
T.O.F. EL. 55.050m
T.O.F. EL. 55.000m
T.O.F. EL. 54.950m
T.O.F. EL. 54.900m
T.O.F. EL. 54.850m
T.O.F. EL. 54.800m
T.O.F. EL. 54.750m
T.O.F. EL. 54.700m
T.O.F. EL. 54.650m
T.O.F. EL. 54.600m
T.O.F. EL. 54.550m
T.O.F. EL. 54.500m
T.O.F. EL. 54.450m
T.O.F. EL. 54.400m
T.O.F. EL. 54.350m
T.O.F. EL. 54.300m
T.O.F. EL. 54.250m
T.O.F. EL. 54.200m
T.O.F. EL. 54.150m
T.O.F. EL. 54.100m
T.O.F. EL. 54.050m
T.O.F. EL. 54.000m
T.O.F. EL. 53.950m
T.O.F. EL. 53.900m
T.O.F. EL. 53.850m
T.O.F. EL. 53.800m
T.O.F. EL. 53.750m
T.O.F. EL. 53.700m
T.O.F. EL. 53.650m
T.O.F. EL. 53.600m
T.O.F. EL. 53.550m
T.O.F. EL. 53.500m
T.O.F. EL. 53.450m
T.O.F. EL. 53.400m
T.O.F. EL. 53.350m
T.O.F. EL. 53.300m
T.O.F. EL. 53.250m
T.O.F. EL. 53.200m
T.O.F. EL. 53.150m
T.O.F. EL. 53.100m
T.O.F. EL. 53.050m
T.O.F. EL. 53.000m
T.O.F. EL. 52.950m
T.O.F. EL. 52.900m
T.O.F. EL. 52.850m
T.O.F. EL. 52.800m
T.O.F. EL. 52.750m
T.O.F. EL. 52.700m
T.O.F. EL. 52.650m
T.O.F. EL. 52.600m
T.O.F. EL. 52.550m
T.O.F. EL. 52.500m
T.O.F. EL. 52.450m
T.O.F. EL. 52.400m
T.O.F. EL. 52.350m
T.O.F. EL. 52.300m
T.O.F. EL. 52.250m
T.O.F. EL. 52.200m
T.O.F. EL. 52.150m
T.O.F. EL. 52.100m
T.O.F. EL. 52.050m
T.O.F. EL. 52.000m
T.O.F. EL. 51.950m
T.O.F. EL. 51.900m
T.O.F. EL. 51.850m
T.O.F. EL. 51.800m
T.O.F. EL. 51.750m
T.O.F. EL. 51.700m
T.O.F. EL. 51.650m
T.O.F. EL. 51.600m
T.O.F. EL. 51.550m
T.O.F. EL. 51.500m
T.O.F. EL. 51.450m
T.O.F. EL. 51.400m
T.O.F. EL. 51.350m
T.O.F. EL. 51.300m
T.O.F. EL. 51.250m
T.O.F. EL. 51.200m
T.O.F. EL. 51.150m
T.O.F. EL. 51.100m
T.O.F. EL. 51.050m
T.O.F. EL. 51.000m
T.O.F. EL. 50.950m
T.O.F. EL. 50.900m
T.O.F. EL. 50.850m
T.O.F. EL. 50.800m
T.O.F. EL. 50.750m
T.O.F. EL. 50.700m
T.O.F. EL. 50.650m
T.O.F. EL. 50.600m
T.O.F. EL. 50.550m
T.O.F. EL. 50.500m
T.O.F. EL. 50.450m
T.O.F. EL. 50.400m
T.O.F. EL. 50.350m
T.O.F. EL. 50.300m
T.O.F. EL. 50.250m
T.O.F. EL. 50.200m
T.O.F. EL. 50.150m
T.O.F. EL. 50.100m
T.O.F. EL. 50.050m
T.O.F. EL. 50.000m
T.O.F. EL. 49.950m
T.O.F. EL. 49.900m
T.O.F. EL. 49.850m
T.O.F. EL. 49.800m
T.O.F. EL. 49.750m
T.O.F. EL. 49.700m
T.O.F. EL. 49.650m
T.O.F. EL. 49.600m
T.O.F. EL. 49.550m
T.O.F. EL. 49.500m
T.O.F. EL. 49.450m
T.O.F. EL. 49.400m
T.O.F. EL. 49.350m
T.O.F. EL. 49.300m
T.O.F. EL. 49.250m
T.O.F. EL. 49.200m
T.O.F. EL. 49.150m
T.O.F. EL. 49.100m
T.O.F. EL. 49.050m
T.O.F. EL. 49.000m
T.O.F. EL. 48.950m
T.O.F. EL. 48.900m
T.O.F. EL. 48.850m
T.O.F. EL. 48.800m
T.O.F. EL. 48.750m
T.O.F. EL. 48.700m
T.O.F. EL. 48.650m
T.O.F. EL. 48.600m
T.O.F. EL. 48.550m
T.O.F. EL. 48.500m
T.O.F. EL. 48.450m
T.O.F. EL. 48.400m
T.O.F. EL. 48.350m
T.O.F. EL. 48.300m
T.O.F. EL. 48.250m
T.O.F. EL. 48.200m
T.O.F. EL. 48.150m
T.O.F. EL. 48.100m
T.O.F. EL. 48.050m
T.O.F. EL. 48.000m
T.O.F. EL. 47.950m
T.O.F. EL. 47.900m
T.O.F. EL. 47.850m
T.O.F. EL. 47.800m
T.O.F. EL. 47.750m
T.O.F. EL. 47.700m
T.O.F. EL. 47.650m
T.O.F. EL. 47.600m
T.O.F. EL. 47.550m
T.O.F. EL. 47.500m
T.O.F. EL. 47.450m
T.O.F. EL. 47.400m
T.O.F. EL. 47.350m
T.O.F. EL. 47.300m
T.O.F. EL. 47.250m
T.O.F. EL. 47.200m
T.O.F. EL. 47.150m
T.O.F. EL. 47.100m
T.O.F. EL. 47.050m
T.O.F. EL. 47.000m
T.O.F. EL. 46.950m
T.O.F. EL. 46.900m
T.O.F. EL. 46.850m
T.O.F. EL. 46.800m
T.O.F. EL. 46.750m
T.O.F. EL. 46.700m
T.O.F. EL. 46.650m
T.O.F. EL. 46.600m
T.O.F. EL. 46.550m
T.O.F. EL. 46.500m
T.O.F. EL. 46.450m
T.O.F. EL. 46.400m
T.O.F. EL. 46.350m
T.O.F. EL. 46.300m
T.O.F. EL. 46.250m
T.O.F. EL. 46.200m
T.O.F. EL. 46.150m
T.O.F. EL. 46.100m
T.O.F. EL. 46.050m
T.O.F. EL. 46.000m
T.O.F. EL. 45.950m
T.O.F. EL. 45.900m
T.O.F. EL. 45.850m
T.O.F. EL. 45.800m
T.O.F. EL. 45.750m
T.O.F. EL. 45.700m
T.O.F. EL. 45.650m
T.O.F. EL. 45.600m
T.O.F. EL. 45.550m
T.O.F. EL. 45.500m
T.O.F. EL. 45.450m
T.O.F. EL. 45.400m
T.O.F. EL. 45.350m
T.O.F. EL. 45.300m
T.O.F. EL. 45.250m
T.O.F. EL. 45.200m
T.O.F. EL. 45.150m
T.O.F. EL. 45.100m
T.O.F. EL. 45.050m
T.O.F. EL. 45.000m
T.O.F. EL. 44.950m
T.O.F. EL. 44.900m
T.O.F. EL. 44.850m
T.O.F. EL. 44.800m
T.O.F. EL. 44.750m
T.O.F. EL. 44.700m
T.O.F. EL. 44.650m
T.O.F. EL. 44.600m
T.O.F. EL. 44.550m
T.O.F. EL. 44.500m
T.O.F. EL. 44.450m
T.O.F. EL. 44.400m
T.O.F. EL. 44.350m
T.O.F. EL. 44.300m
T.O.F. EL. 44.250m
T.O.F. EL. 44.200m
T.O.F. EL. 44.150m
T.O.F. EL. 44.100m
T.O.F. EL. 44.050m
T.O.F. EL. 44.000m
T.O.F. EL. 43.950m
T.O.F. EL. 43.900m
T.O.F. EL. 43.850m
T.O.F. EL. 43.800m
T.O.F. EL. 43.750m
T.O.F. EL. 43.700m
T.O.F. EL. 43.650m
T.O.F. EL. 43.600m
T.O.F. EL. 43.550m
T.O.F. EL. 43.500m
T.O.F. EL. 43.450m
T.O.F. EL. 43.400m
T.O.F. EL. 43.350m
T.O.F. EL. 43.300m
T.O.F. EL. 43.250m
T.O.F. EL. 43.200m
T.O.F. EL. 43.150m
T.O.F. EL. 43.100m
T.O.F. EL. 43.050m
T.O.F. EL. 43.000m
T.O.F. EL. 42.950m
T.O.F. EL. 42.900m
T.O.F. EL. 42.850m
T.O.F. EL. 42.800m
T.O.F. EL. 42.750m
T.O.F. EL. 42.700m
T.O.F. EL. 42.650m
T.O.F. EL. 42.600m
T.O.F. EL. 42.550m
T.O.F. EL. 42.500m
T.O.F. EL. 42.450m
T.O.F. EL. 42.400m
T.O.F. EL. 42.350m
T.O.F. EL. 42.300m
T.O.F. EL. 42.250m
T.O.F. EL. 42.200m
T.O.F. EL. 42.150m
T.O.F. EL. 42.100m
T.O.F. EL. 42.050m
T.O.F. EL. 42.000m
T.O.F. EL. 41.950m
T.O.F. EL. 41.900m
T.O.F. EL. 41.850m
T.O.F. EL. 41.800m
T.O.F. EL. 41.750m
T.O.F. EL. 41.700m
T.O.F. EL. 41.650m
T.O.F. EL. 41.600m
T.O.F. EL. 41.550m
T.O.F. EL. 41.500m
T.O.F. EL. 41.450m
T.O.F. EL. 41.400m
T.O.F. EL. 41.350m
T.O.F. EL. 41.300m
T.O.F. EL. 41.250m
T.O.F. EL. 41.200m
T.O.F. EL. 41.150m
T.O.F. EL. 41.100m
T.O.F. EL. 41.050m
T.O.F. EL. 41.000m
T.O.F. EL. 40.950m
T.O.F. EL. 40.900m
T.O.F. EL. 40.850m
T.O.F. EL. 40.800m
T.O.F. EL. 40.750m
T.O.F. EL. 40.700m
T.O.F. EL. 40.650m
T.O.F. EL. 40.600m
T.O.F. EL. 40.550m
T.O.F. EL. 40.500m
T.O.F. EL. 40.450m
T.O.F. EL. 40.400m
T.O.F. EL. 40.350m
T.O.F. EL. 40.300m
T.O.F. EL



LEVEL P3 FRAMING PLAN

1 : 100

1. TOP OF STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED PARKING LEVEL DATUM ELEVATION 99.60m AT CENTRAL ELEVATOR CORE. TOP OF SLAB ELEVATION VARIES AND IS TO BE SLOPED TO SUIT DRAINAGE AS SHOWN. ON THE ARCHITECTURAL DRAWINGS.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT.

	LL	SDL
PARKING AND BIKE	2.4 kPa	0.5 kPa
STORAGE	4.8 kPa	0.5 kPa
STAIRS AND ELEVATOR LOBBIES	4.8 kPa	0.5 kPa

3. CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS C1 EXPOSURE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'C OF 35 MPA AT 28 DAYS. REFER ALSO TO COLUMN AND WALL SCHEDULES. SEE ALSO CONCRETE MIX SCHEDULE ON SS-01.
4. CONCRETE COVER FOR TOP BARS IN SLABS TO BE 40 mm, CONCRETE COVER FOR BOTTOM BARS IN SLABS TO BE 30mm.
5. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
6. THE CONTRACTOR SHALL COORDINATE WITH THE CONCRETE SUBCONTRACTOR THEIR CONCRETE PLACE SEQUENCE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
7. SEE TYPICAL DETAIL FOR LINTELS IN NON-LOAD BEARING MASONRY WALLS.
8. SEE ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR CURBS, REINFORCE AS PER TYPICAL DETAIL.
9. SEE COLUMN AND WALL SCHEDULES.
10. SEE ARCHITECTURAL AND MECHANICAL DETAIL DRAWINGS.
11. REFER TO BEAM SCHEDULES.
12. AT SLEEVES THROUGH THE SLAB, HOOK BARS AT OPENING AND ADD BARS OF SAME SIZE ON EACH SIDE OF THE OPENING, EQUAL TO 1/2 THE NUMBER OF BARS HOOKED.
13. PROVIDE 20mm CHAMFER ON ALL EXPOSED EDGES OF COLUMNS, WALLS, BEAMS AND DROPS.
14. TRANSFER SLABS TO BE THICKENED AS REQUIRED TO MAINTAIN SLAB. SEE PLAN FOR THICKNESS.
15. TRANSFER SLABS TO BE THICKENED ACTUAL MINIMUM STRENGTH BEFORE SHORING SHOULD NOT BE SUPPORTED ON BUILDING SLABS.
16. PROVIDE DO AT A DOSAGE OF 10 L/M CONCRETE IN THE FRAMED RAMP SLAB AND ALL TURNING AREAS.
17. SLAB SOFFIT TO FOLLOW TOP OF SLAB SLOPES TO MAINTAIN SLAB THICKNESS AS NOTED.
18. WHERE BOTTOM STEEL NOT SHOWN, PROVIDE CONTINUOUS TEMPERATURE STEEL, HOOKED AT EDGE OF SLAB AND OPENINGS.

TLX = TOP UPPER LAYER
TLY = TOP LOWER LAYER
BLX = BOTTOM UPPER LAYER
BLY = BOTTOM LOWER LAYER

REINFORCEMENT PLACEMENT DIAGRAM

SLAB	200 MIN. s/h
INTEGRITY BARS	2-20M BEW
TEMP. STEEL	15@400
DROP	250(D)/(L)/200P. s/h
CONCRETE STRENGTH:	35 MPa CLASS C1
SLAB	225 RAMP SLAB
INTEGRITY BARS	3-20M BEW
TEMP. STEEL	15@400
CONCRETE STRENGTH:	35 MPa CLASS C1
SLAB	250 MIN.
INTEGRITY BARS	3-20M BEW
TEMP. STEEL	15@400
CONCRETE STRENGTH:	35 MPa CLASS C1
SLAB	300 MIN.
INTEGRITY BARS	3-20M BEW
TEMP. STEEL	15@300
CONCRETE STRENGTH:	35 MPa CLASS C1

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Nor Is Turnabout Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:
7. TAVASLIEVA 100161855 PROFESSIONAL ENGINEER PROVINCE OF ONTARIO JULY 20,2016
S. SHROWAH 100161855 PROFESSIONAL ENGINEER PROVINCE OF ONTARIO JULY 20,2016
stephenson ENGINEERING
2550 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 T 647-317-4949 TF 1-800-361-1964
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date
10	RESSUED FOR PERMIT	JULY 20,2016
9	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 23,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

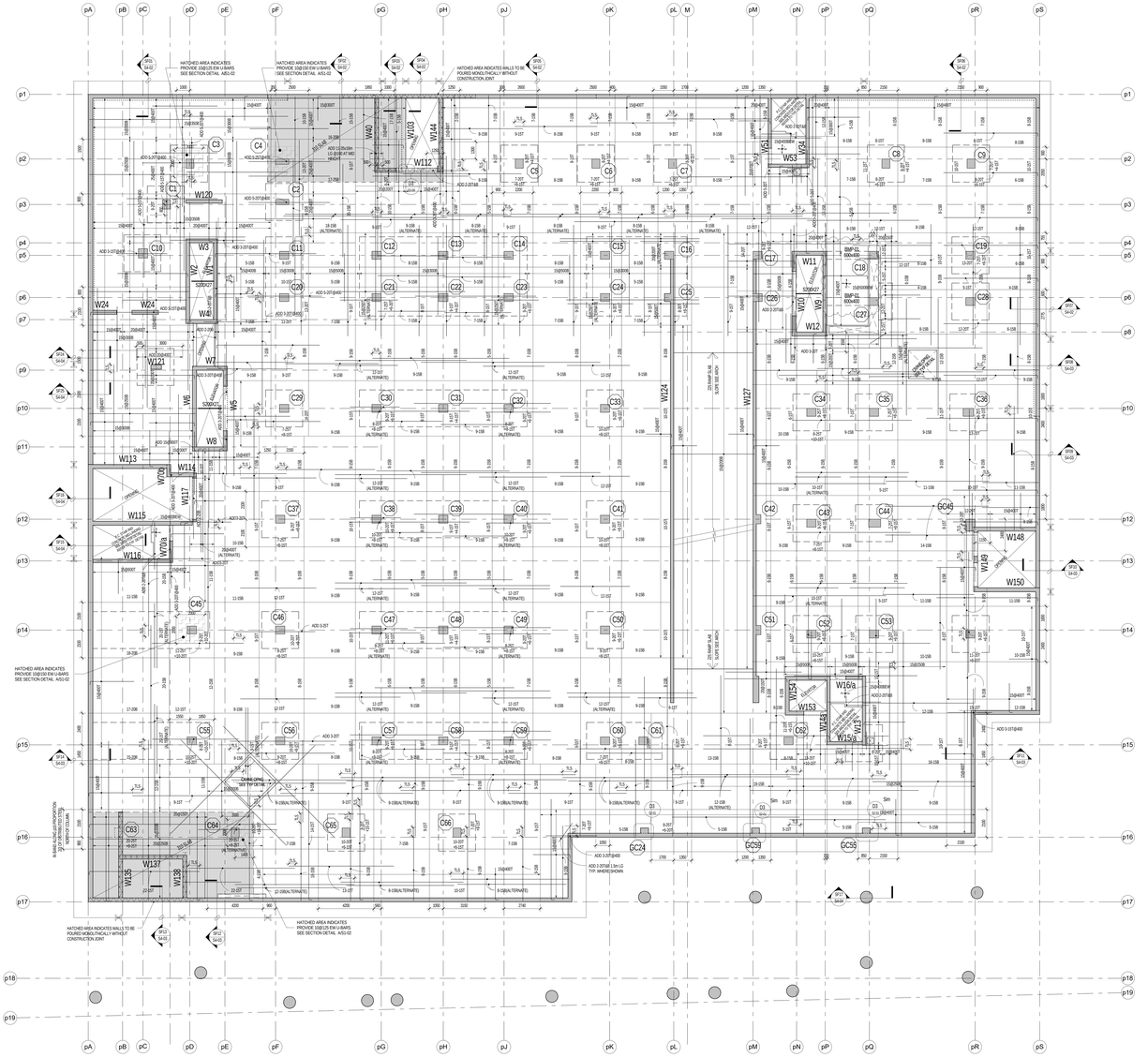
No.	Issued For	Date

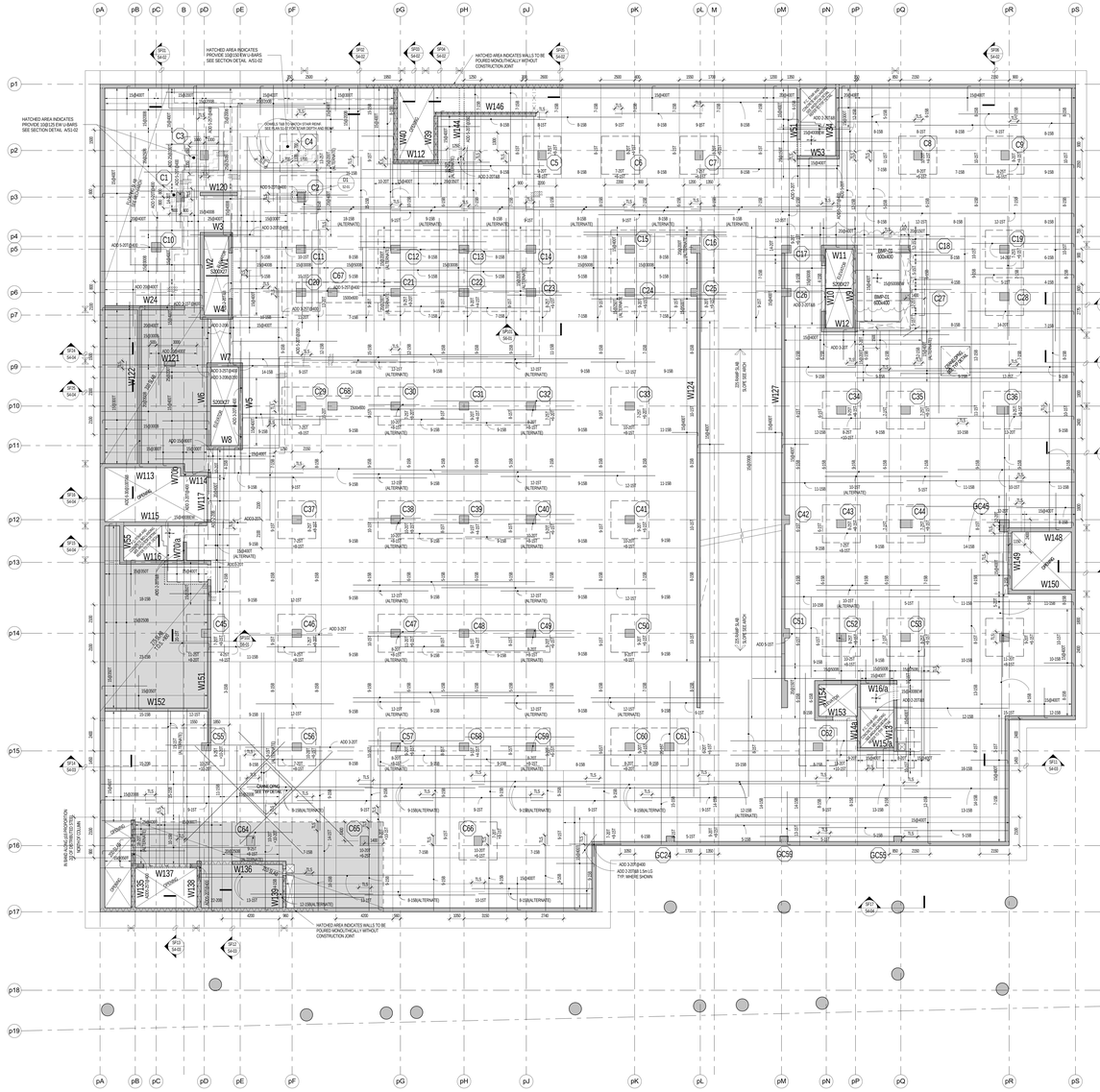
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL P3 FLOOR FRAMING PLAN

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	PC/BBS
Project No.	2014-00031
Date	JULY 20,2016
Drawing No.	S1-02


HATCHED AREA INDICATES PROVIDE 10@125 EW U-BARS SEE SECTION DETAIL A/S1-02
HATCHED AREA INDICATES PROVIDE 10@100 EW U-BARS SEE SECTION DETAIL A/S1-02
HATCHED AREA INDICATES WALLS TO BE POURED MONOLITHICALLY WITHOUT CONSTRUCTION JOINT
HATCHED AREA INDICATES PROVIDE 10@125 EW U-BARS SEE SECTION DETAIL A/S1-02
HATCHED AREA INDICATES WALLS TO BE POURED MONOLITHICALLY WITHOUT CONSTRUCTION JOINT
HATCHED AREA INDICATES PROVIDE 10@125 EW U-BARS SEE SECTION DETAIL A/S1-02
W103
W144
W112
W120
W24
W4
W7
W6
W5
W8
W113
W114
W121
W117
W115
W116
W70A
W70B
W137
W138
W135
W124
W127
W53
W54
W10
W11
W12
W148
W149
W150
W153
W154
W155
W156
W15A
W16A
W16B
GC40
GC24
GC59
GC58
SW6027
SW6028
SW6030
SW6031
SW6032
SW6033
SW6034
SW6035
SW6036
SW6037
SW6038
SW6039
SW6040
SW6041
SW6042
SW6043
SW6044
SW6045
SW6046
SW6047
SW6048
SW6049
SW6050
SW6051
SW6052
SW6053
SW6054
SW6055
SW6056
SW6057
SW6058
SW6059
SW6060
SW6061
SW6062
SW6063
SW6064
SW6065
SW6066
SW6067
SW6068
SW6069



LEVEL P1 FRAMING PLAN

1 : 100

1. TOP OF STRUCTURAL SLAB VARIES FROM FINISHED PARKING LEVEL DATUM ELEVATION TO 200m AT ELEVATOR CORE. TOP OF SLAB ELEVATION VARIES AND IS TO BE SLOPED TO SUIT DRAINAGE AS SHOWN ON ARCHITECTURAL DRAWINGS.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT.

	LL	SDL
PARKING	2.4 kPa	0.5 kPa
STORAGE AND LOCKERS	7.3 kPa	0.5 kPa
STAIRS, AND ELEVATOR LOBBIES	4.8 kPa	0.5 kPa
MECHANICAL AND ELECTRICAL	7.3 kPa	1.0 kPa
AMENITY	4.8 kPa	1.5 kPa
WATER TANK	10 kN/m²	1.0 kPa
WHIRLPOOL (SPA AREA	2kPa	2.5 kPa

3. CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS C1 EXPOSURE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 35 MPa AT 28 DAYS. REFER ALSO TO COLUMN AND WALL SCHEDULES. SEE ALSO CONCRETE MIX SCHEDULE ON FOUNDATION PLAN.
4. PROVIDE 30 mm COVER FOR TOP BARS IN SLABS TO BE 40 mm. CONCRETE COVER FOR BOTTOM BARS IN SLABS TO BE 20mm.
5. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
6. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BEARING MASONRY WALLS.
7. SEE ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR CURBS. REINFORCE AS PER TYPICAL DETAIL.
8. SEE COLUMN AND WALL SCHEDULES.
9. SEE ALSO TYPICAL NOTE AND DETAIL DRAWINGS.
10. REFER TO BEAM SCHEDULES.
11. ALL BEAMS TO BE DOWEL FILLED, INSTALL HOOK BARS AT OPENING AND ADD BARS OF SAME SIZE ON EACH SIDE OF THE OPENING, EQUAL TO 1/2 THE NUMBER OF BARS HOOKED.
12. PROVIDE 25mm CHAMFER ON ALL EXPOSED EDGES OF COLUMNS, WALLS, BEAMS AND DROPS.
13. AREAS NOTED THUS ▨ IN PLAN, INDICATE THICKENED SLAB. SEE PLAN FOR THICKNESS.

AREAS NOTED THUS ▨ IN PLAN, ARE BUILT-UP CONCRETE. SEE TYPICAL DETAILS.

14. TRANSFER SLABS TO BE SHORED UNTIL REACH SPECIFIED 28 DAYS CONCRETE STRENGTH.

SHORING SHOULD NOT BE SUPPORTED ON BUILDING SLABS.

15. PROVIDE 600 AT A DEGREE OF 30 MM CONCRETE IN THE FRAMED RAMP SLAB AND ALL TURNING AREAS.
16. SLAB SLOPE AT A DEGREE OF 2F SLAB SLOPES TO MAINTAIN SLAB THICKNESS AS NOTED.
17. WHERE BOTTOM STEEL NOT SHOWN, PROVIDE CONTINUOUS TEMPERATURE STEEL.

TLS = TOP UPPER LAYER
TLL = TOP LOWER LAYER
BLS = BOTTOM UPPER LAYER
BLL = BOTTOM LOWER LAYER

REINFORCEMENT PLACEMENT DIAGRAM	
SLAB:	200 MIN. s/n
INTEGRITY BARS:	3-20M BEW
TEMP. STEEL:	15@300
DROP:	2900x3800x1200P s/n
CONCRETE STRENGTH	35 MPa CLASS C1
SLAB:	225 RAMP SLAB
INTEGRITY BARS:	3-20M BEW
TEMP. STEEL:	15@400
CONCRETE STRENGTH	35 MPa CLASS C1
SLAB:	175 MIN.
INTEGRITY BARS:	3-20M BEW
TEMP. STEEL:	15@400
CONCRETE STRENGTH	35 MPa CLASS C1
SLAB:	310 MIN.
INTEGRITY BARS:	3-30M BEW
TEMP. STEEL:	15@300
CONCRETE STRENGTH	35 MPa CLASS C1

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Any Fashion Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed ByThe Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 | Tel.(416) 499 9775
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

10	REISSUED FOR PERMIT	JULY 20,2016
9	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL P1 FLOOR FRAMING PLAN

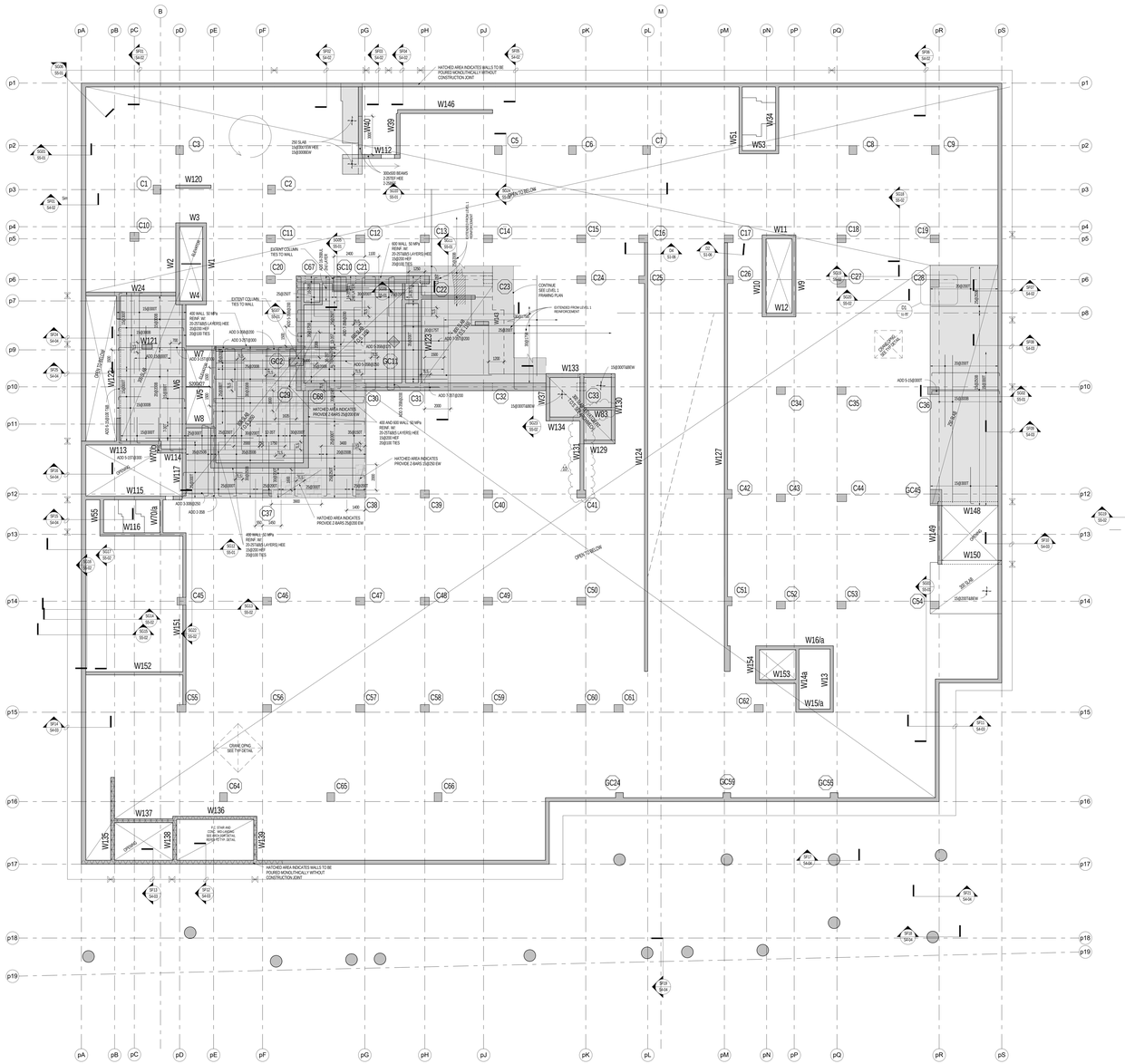
Project

Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	PC/BBS
Project No.	2014003?
Date	JULY 20,2016
Drawing No.	S1-04

Plot Date: 7/20/2016 11:15:22 AM



1. TOP OF LEVEL 1 MEZZANINE FLOOR STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED GROUND FLOOR DATUM ELEVATION 76.85m. THE STRUCTURAL SLAB STEPS AT THE EDGE OF GROUND FLOOR. SEE PLAN AND DETAILS FOR ELEVATION CHANGES. SEE ALSO ARCHITECTURAL DRAWINGS AND LANDSCAPE DRAWINGS FOR GARAGE ROOF ELEVATIONS AND SLOPES TO DRAINS.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO SELF WEIGHT:

	LL kPa	SDL kPa
STAIRS / MEZZANINE	4.8 kPa	0.5 kPa

3. CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS C2 EXPOSURE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 35 MPa AT 28 DAYS. REFER ALSO TO COLUMN AND WALL SCHEDULES. SEE ALSO CONCRETE MIX SCHEDULE ON FOUNDATION PLAN.
4. CONCRETE COVER FOR TOP BARS IN SLABS TO BE 25 mm. CONCRETE COVER FOR BOTTOM BARS IN SLABS TO BE 20 mm.
5. NO OPENINGS MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
6. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 48 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
7. SEE TYPICAL DETAIL FOR LINTELS IN NON-LOAD BEARING MASONRY WALLS.
8. SEE ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR CURBS, REINFORCE AS PER TYPICAL DETAILS.
9. SEE COLUMN AND WALL SCHEDULES.
10. SEE ALSO TYPICAL NOTE AND DETAIL DRAWINGS.
11. REFER TO BEAM SCHEDULES.
12. ALL CORNER BARS SHALL BE ALL EXPOSED EDGES OF COLUMNS, WALLS, BEAMS & DROPS.
13. WHERE BOTTOM STEEL NOT SHOWN, PROVIDE CONTINUOUS TEMPERATURE STEEL, HOOKED AT EDGE OF SLAB AND OPENINGS.

TLL = TOP LAYER LAYER
TUL = TOP UPPER LAYER
BLL = BOTTOM LOWER LAYER
BUL = BOTTOM UPPER LAYER

REINFORCEMENT PLACEMENT DIAGRAM

SLAB INTEGRITY BARS CONCRETE STRENGTH TEMP. STEEL	250 MIN. 3.0M BEW 35 MPa 2@400 c/c
SLAB INTEGRITY BARS CONCRETE STRENGTH TEMP. STEEL	250 MIN. 3.0M BEW 35 MPa 2@400 c/c
SLAB INTEGRITY BARS CONCRETE STRENGTH TEMP. STEEL	300 MIN. 3.0M BEW 35 MPa 2@300 c/c
SLAB INTEGRITY BARS CONCRETE STRENGTH TEMP. STEEL	800 MIN. 5.0M BEW 45 MPa 25@300 c/c

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Whole Or Part Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

PROFESSIONAL ENGINEER JULY 20,2016 T. TAVASLIEV

PROFESSIONAL ENGINEER JULY 20,2016 S. SHROWAH-SHAD

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

10	REISSUED FOR PERMIT	JULY 20,2016
9	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

No	Issued For	Date

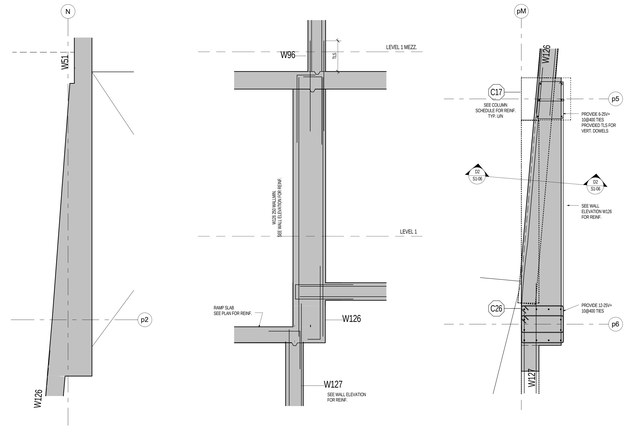
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL P1 MEZZANINE FRAMING PLAN

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	PC/BBS
Project No.	20140031
Date	JULY 20,2016
Drawing No.	S1-05

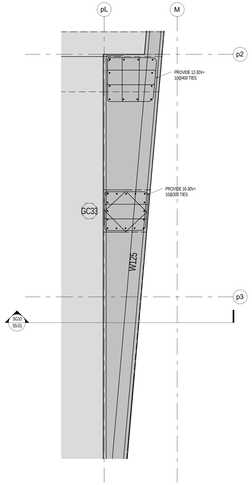
Plot Date: 7/20/2016 11:15:24 AM



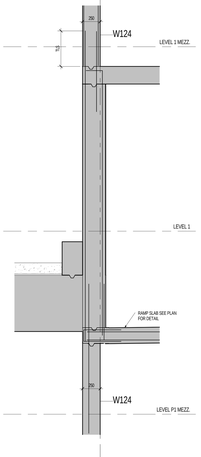
D5 PLAN DETAIL
S1-06 1 : 20

D2 ELEVATION DETAIL
S1-06 1 : 20

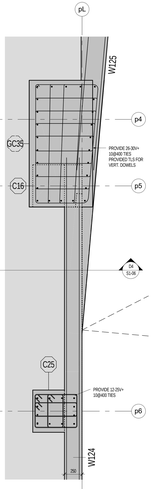
D1 PLAN DETAIL
S1-06 1 : 20



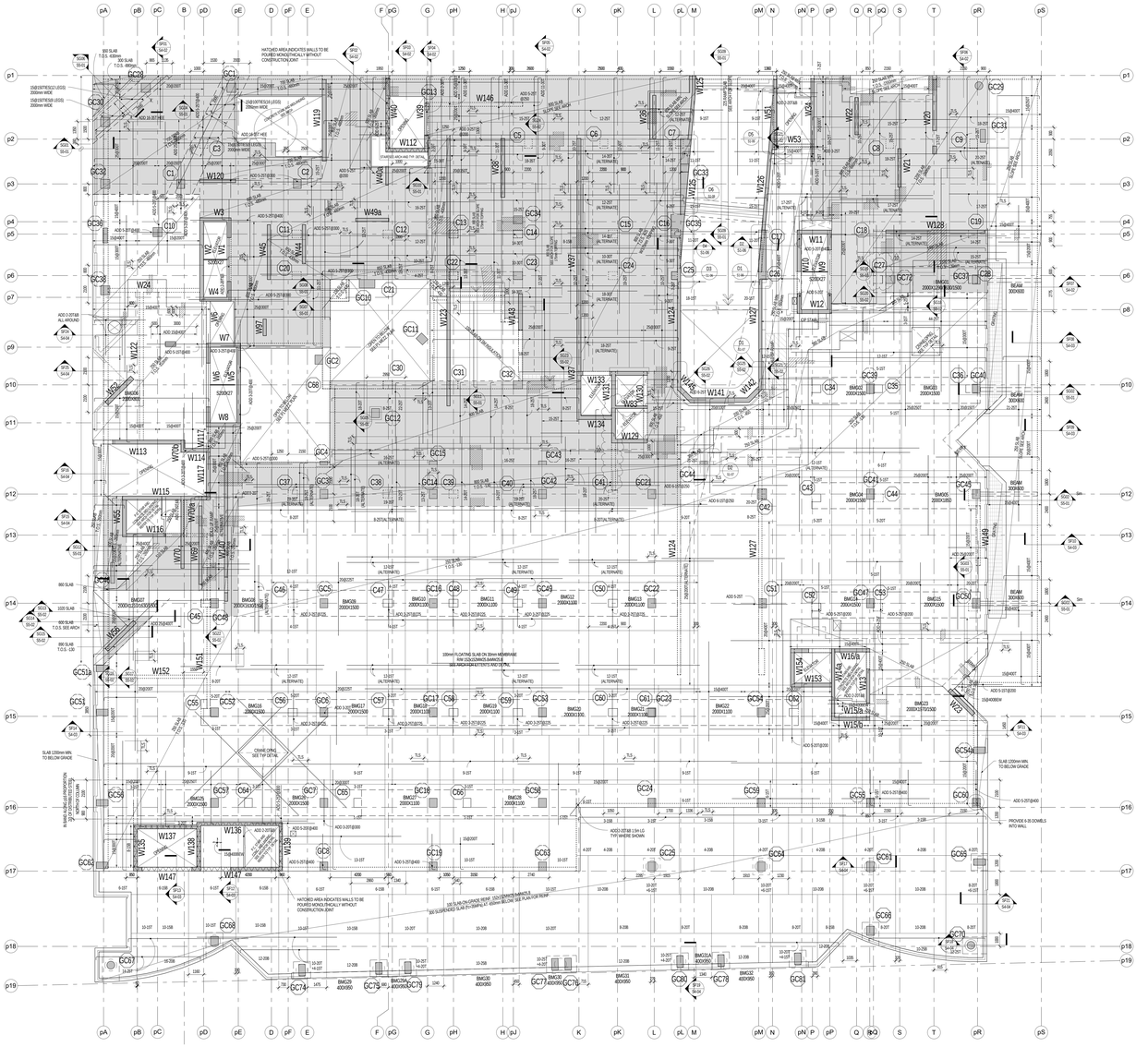
D6 PLAN DETAIL
S1-06 1 : 20



D4 PLAN DETAIL
S1-06 1 : 20



D3 PLAN DETAIL
S1-06 1 : 20



LEVEL 1 FRAMING PLAN WITH TOP REINFORCEMENT

1 : 100

1. TOP OF GROUND FLOOR STRUCTURAL SLAB VARIES FROM FINISHED GROUND FLOOR DATUM ELEVATION (T/SB)N. THE STRUCTURAL SLAB STEPS AT THE DOOR OF GROUND FLOOR. SEE PLAN AND DETAILS FOR ELEVATION CHANGES. SEE ALSO ARCHITECTURAL DRAWINGS AND LANDSCAPE DRAWINGS FOR GARAGE ROOF ELEVATIONS AND SLOPES TO DRAINS.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO SELF WEIGHT AND TOPPING LOADS AS SHOWN ON PLAN.

	LL	SDL
RETAIL SPACE	4.8 kPa	1.5 kPa
LOBBY / LOUNGE AMENITY SPACES	4.8 kPa	1.5 kPa
STAIRS	4.8 kPa	1.5 kPa
LOCKERS / STORAGE	4.8 kPa	2.1 kPa
MECHANICAL ROOF AND MOVING ROOM	7.2 kPa	2.1 kPa
PARKING RAMP	2.4kPa	0.5kPa
RETAIL CHILLER/GARAGE ROOM	6.0kPa	0.6kPa
LOADING RAMP	12.0kPa	0.5kPa

3. CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS C1 EXPOSURE AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 35 MPa AT 28 DAYS, KEYED ALSO TO COLUMN AND WALL SCHEDULES. SEE ALSO CONCRETE STRENGTH SCHEDULE ON FOUNDATION PLAN.
4. CONCRETE COVER FOR TOP BARS IN SLABS TO BE 25 mm, CONCRETE COVER FOR BOTTOM BARS IN SLABS TO BE 30mm
5. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
6. PROVIDE 28mm CHAMFER ON ALL EXPOSED EDGES OF COLUMNS, WALLS, BEAMS AND DROPS.
7. CONCRETE FOR A REVIEW OF PREPARATIONS.
8. SEE TYPICAL DETAIL FOR LINTELS IN NON-LOAD BEARING MASONRY WALLS.
9. SEE ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR CURBS, REINFORCE AS PER TYPICAL DETAIL.
10. SEE COLUMN AND WALL SCHEDULES.
11. SEE ALSO TYPICAL NOTE AND DETAIL DRAWINGS.
12. REFER TO BEAM SCHEDULES.
13. PROVIDE 20mm CHAMFER ON ALL EXPOSED EDGES OF COLUMNS, WALLS BEAMS & DROPS.
14. WHERE BOTTOM STEEL NOT SHOWN, PROVIDE CONTINUOUS TEMPERATURE STEEL, HOOKED AT EDGE OF SLAB AND OPENINGS.
15. PROVIDE TLS FOR ALL TRANSFER SLAB REINFORCEMENT.

TLA = TOP UPPER LAYER
TLL = TOP LOWER LAYER
BLA = BOTTOM UPPER LAYER
BLL = BOTTOM LOWER LAYER

REINFORCEMENT PLACEMENT DIAGRAM

SLAB	250 MIN. up	SLAB	225 RAMP
INTEGRITY BARS	3-20M BBW	INTEGRITY BARS	3-20M BBW
CONCRETE STRENGTH	35 MPa CLASS C1	CONCRETE STRENGTH	35 MPa CLASS C1
TEMP. STEEL	15@400 o/n	TEMP. STEEL	15@400 o/n
SLAB	300 MIN.	SLAB	600 MIN.
INTEGRITY BARS	3-20M BBW	INTEGRITY BARS	5-20M BBW
CONCRETE STRENGTH	35 MPa CLASS C1	CONCRETE STRENGTH	45 MPa CLASS C1
TEMP. STEEL	15@300 o/n	TEMP. STEEL	20@250 o/n
SLAB	750 MIN.	SLAB	850 MIN.
INTEGRITY BARS	3-30M BBW	INTEGRITY BARS	5-30M BBW
CONCRETE STRENGTH	45 MPa CLASS C1	CONCRETE STRENGTH	45 MPa CLASS C1
TEMP. STEEL	25@200 o/n	TEMP. STEEL	25@200 o/n
SLAB	1,120 MIN.	SLAB	1300 MIN.
INTEGRITY BARS	5-30M BBW	INTEGRITY BARS	5-30M BBW
CONCRETE STRENGTH	45 MPa CLASS C1	CONCRETE STRENGTH	45 MPa CLASS C1
TEMP. STEEL	25@200 o/n	TEMP. STEEL	25@200 o/n

GARAGE ROOF PLAN NOTES

1. TOP OF GARAGE ROOF SLAB ELEVATION VARIES AND IS TO BE SLOPED TO SUIT DRAINAGE AND RAMPING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT.

	LL	SDL
LANDSCAPED EMERGENCY VEHICLE ACCESSIBLE AREAS	12.0 kPa	2.5 kPa

3. CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS C1 EXPOSURE AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 35 MPa AT 28 DAYS, KEYED ALSO TO COLUMN AND WALL SCHEDULES. SEE TYPICAL CONCRETE MIX SCHEDULE ON FOUNDATION PLAN.
4. CONCRETE COVER FOR TOP BARS IN SLABS TO BE 40 mm, CONCRETE COVER FOR BOTTOM BARS IN SLABS TO BE 30mm.
5. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
6. PROVIDE 20mm CHAMFER ON ALL EXPOSED EDGES OF COLUMNS, WALLS, BEAMS, AND DROPS.
7. CONCRETE FOR A REVIEW OF PREPARATIONS.
8. SEE TYPICAL DETAIL FOR LINTELS IN NON-LOAD BEARING MASONRY WALLS.
9. SEE ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR CURBS, REINFORCE AS PER TYPICAL DETAIL.
10. SEE COLUMN AND WALL SCHEDULES.
11. SEE ALSO TYPICAL NOTE AND DETAIL DRAWINGS.
12. REFER TO BEAM SCHEDULES.
13. AT SLEEVES THROUGH THE SLAB, HOOK BARS AT OPENING AND ADD BARS OF SAME SIZE ON EACH SIDE OF THE OPENING, EQUAL TO 1/2 THE NUMBER OF BARS HOOKED.
14. PROVIDE 20mm CHAMFER ON ALL EXPOSED EDGES OF COLUMNS, WALLS, BEAMS, AND DROPS.
15. AREAS NOTED THUS [▨] ON PLAN, ARE BUILT-UP CONCRETE. SEE TYPICAL DETAILS.
16. AREAS NOTED THUS [▨] ON PLAN, INDICATE THICKENED SLAB. SEE PLAN FOR THICKNESS.
17. TRANSFER SLABS TO BE SHORED UNTIL REACH SPECIFIED 28 DAYS CONCRETE STRENGTH. SHORING SHOULD NOT BE SUPPORTED ON BUILDING SLABS.
18. PROVIDE DO AT A DOUBLE OF 150x1P CONCRETE IN THE VIA VELO. BICYCLE PARKING AREA AND RAMPS (ALL EXTERIOR AREAS).
19. REFER TO ARCHITECTURAL DRAWINGS FOR PLANTER WALLS AND PILLARS. REINFORCE AS PER TYPICAL DETAILS.
20. WHERE BOTTOM STEEL NOT SHOWN, PROVIDE CONTINUOUS TEMPERATURE STEEL, HOOKED AT EDGE OF SLAB AND OPENINGS.
21. PROVIDE TLS FOR ALL TRANSFER SLAB REINFORCEMENT.
22. IN TRANSFER SLABS, HOOK BOTTOM BARS AND EXTEND ALL TOP BARS INTO ADJACENT SLABS BY 2000mm (TYP)

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Nor Is It Loanable Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2500 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 T 647-426-1678
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

10	REISSUED FOR PERMIT	JULY 20,2016
9	BUILDING PERMIT RESUBMISSION	MAY 12,2016
8	ISSUED FOR STEEL TENDER	DEC 18,2015
7	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
6	BUILDING PERMIT RESUBMISSION	JULY 22,2015
5	BUILDING PERMIT SUBMISSION	JUNE 12,2015
4	ISSUED FOR WT REVIEW	MAY 01,2015
3	ISSUED FOR STEEL TENDER	MAR 31,2015
2	ISSUED FOR PERMIT	FEB 27,2015
1	ISSUED FOR WT REVIEW	JAN 30,2015

No.	Issued For	Date

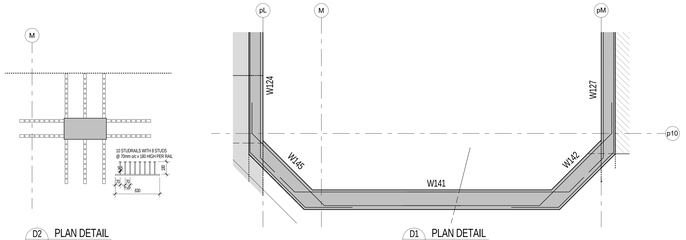
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 1-GROUND FLOOR FRAMING PLAN - WITH TOP REINFORCEMENT AND DETAILS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

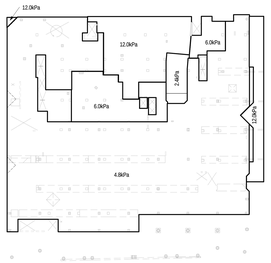
Scale	As indicated
Drawn by	DC
Checked by	PC/BBS
Project No.	2014-0031
Date	JULY 20,2016
Drawing No.	S1-06

Plot Date: 7/20/2016 11:15:37 AM

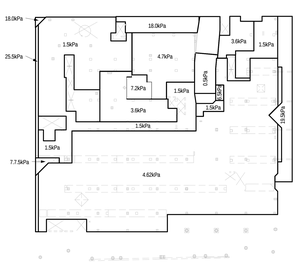


D2 PLAN DETAIL
S1-07 1 : 20

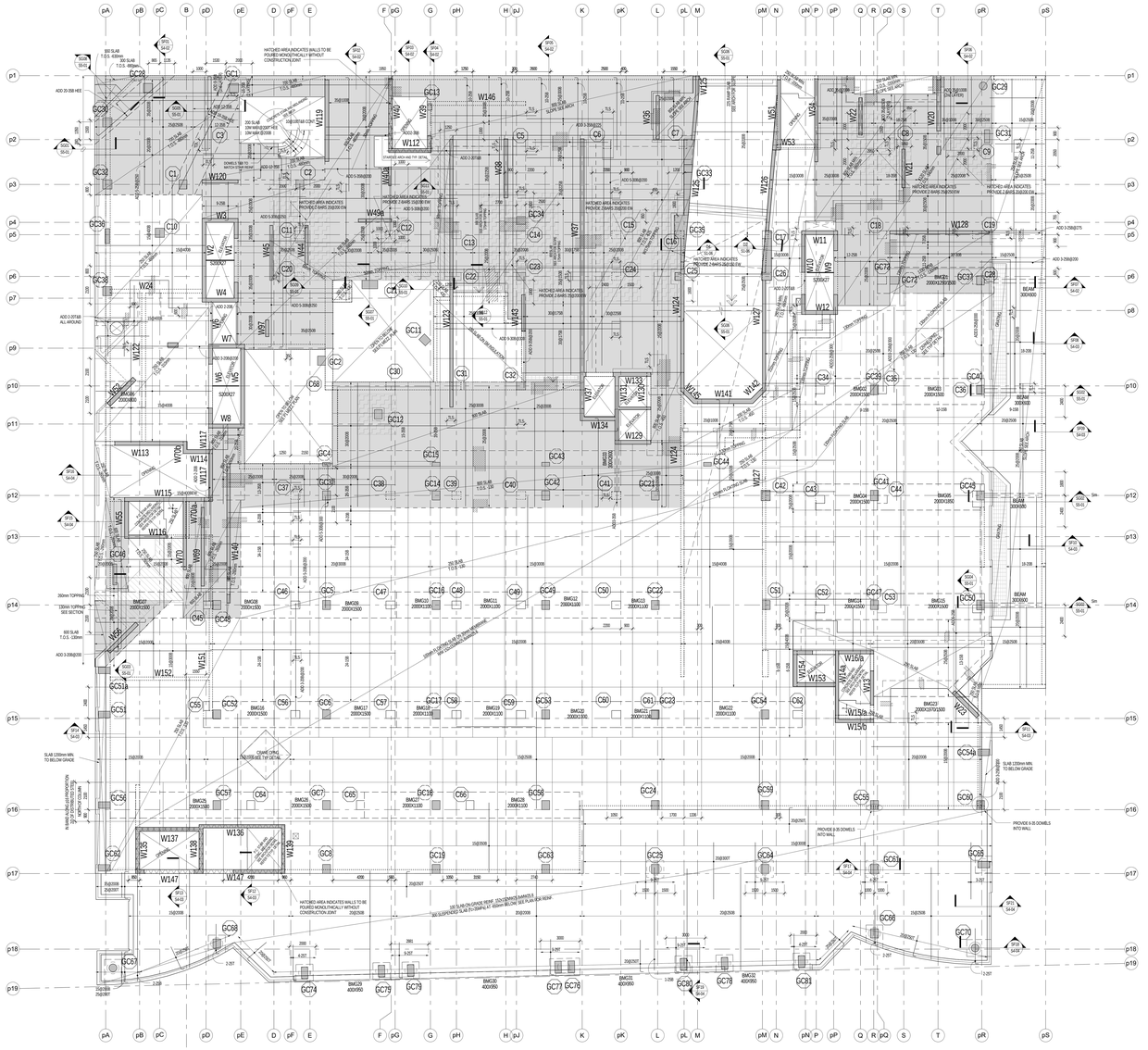
D1 PLAN DETAIL
S1-07 1 : 25



LIVE LOAD DIAGRAM
1 : 400



SUPERIMPOSED DEAD LOAD DIAGRAM
1 : 400



Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Nor Is It Loanable Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

PROFESSIONAL ENGINEER MAY 12,2016 J. TANASIJEVIC

PROFESSIONAL ENGINEER MAY 12,2016 S. SHROWSHI-SHAD

stephenson ENGINEERING
2500 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.:(416) 495 7676
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

No	Issued For	Date

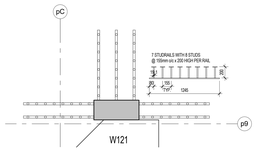
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 1-GROUND FLOOR FRAMING PLAN - WITH BOTTOM REINFORCEMENT AND SCHEDULES

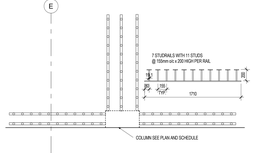
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	Author
Checked by	PC/BBS
Project No	20140031
Date	MAY 12,2016
Drawing No	S1-07

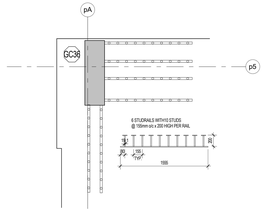
Plot Date: 5/12/2016 10:55:34 AM



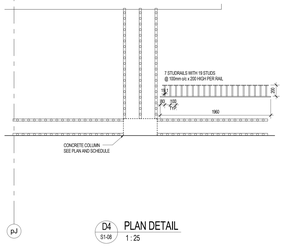
D1 PLAN DETAIL
S1-08 1 : 25



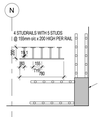
D2 PLAN DETAIL
S1-08 1 : 25



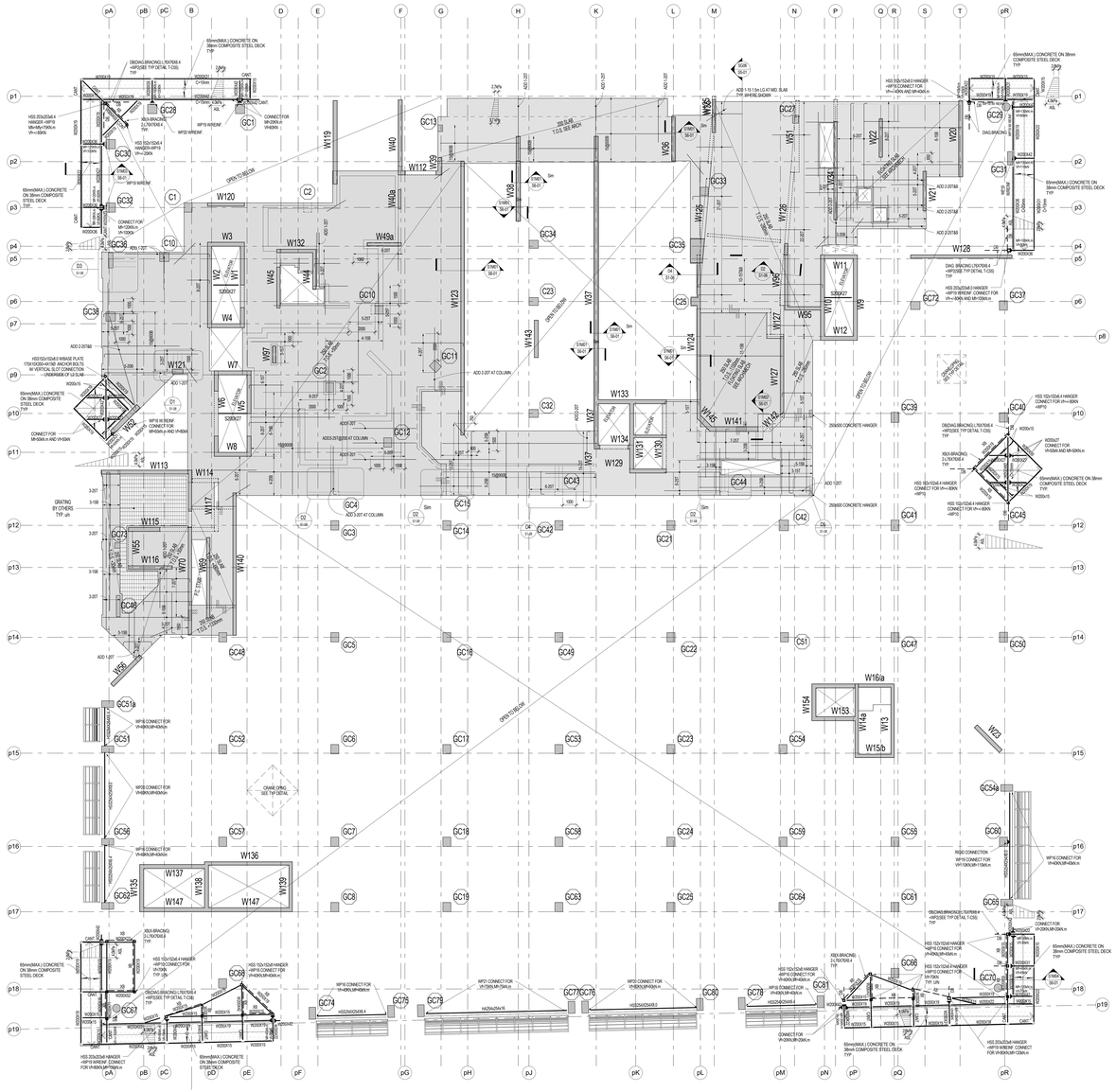
D3 PLAN DETAIL
S1-08 1 : 25



D4 PLAN DETAIL
S1-08 1 : 25



D5 PLAN DETAIL
S1-08 1 : 25



Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Whether In Whole Or In Parts Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

No.	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR IST REVIEW	MAY 01,2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL L1 MEZZANINE FRAMING PLAN

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale
As indicated

Drawn by
Author

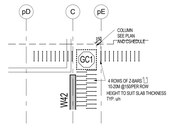
Checked by
IA/BBS

Project No.
2014-0003

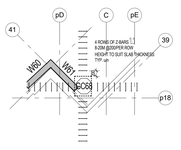
Date
MAY 12,2016

Drawing No.
S1-08

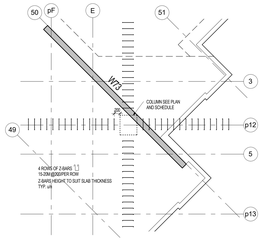
Plot Date: 5/12/2016 9:58:21 AM



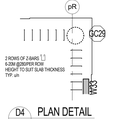
D1 PLAN DETAIL
S1-09 1 : 50



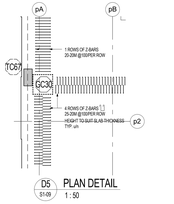
D2 PLAN DETAIL
S1-09 1 : 50



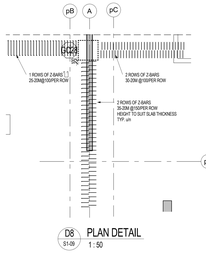
D3 PLAN DETAIL
S1-09 1 : 50



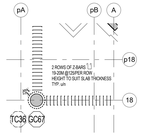
D4 PLAN DETAIL
S1-09 1 : 50



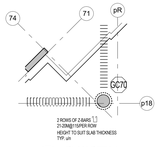
D5 PLAN DETAIL
S1-09 1 : 50



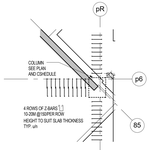
D8 PLAN DETAIL
S1-09 1 : 50



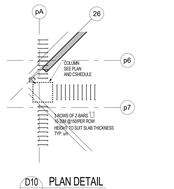
D6 PLAN DETAIL
S1-09 1 : 50



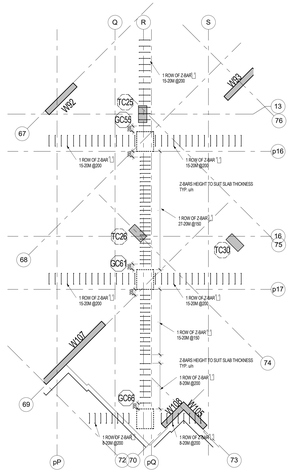
D7 PLAN DETAIL
S1-09 1 : 50



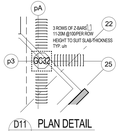
D9 PLAN DETAIL
S1-09 1 : 50



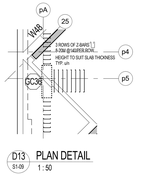
D10 PLAN DETAIL
S1-09 1 : 50



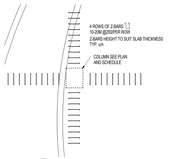
D12 PLAN DETAIL
S1-09 1 : 50



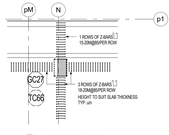
D11 PLAN DETAIL
S1-09 1 : 50



D13 PLAN DETAIL
S1-09 1 : 50

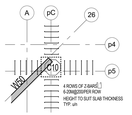


D14 PLAN DETAIL
S1-09 1 : 50

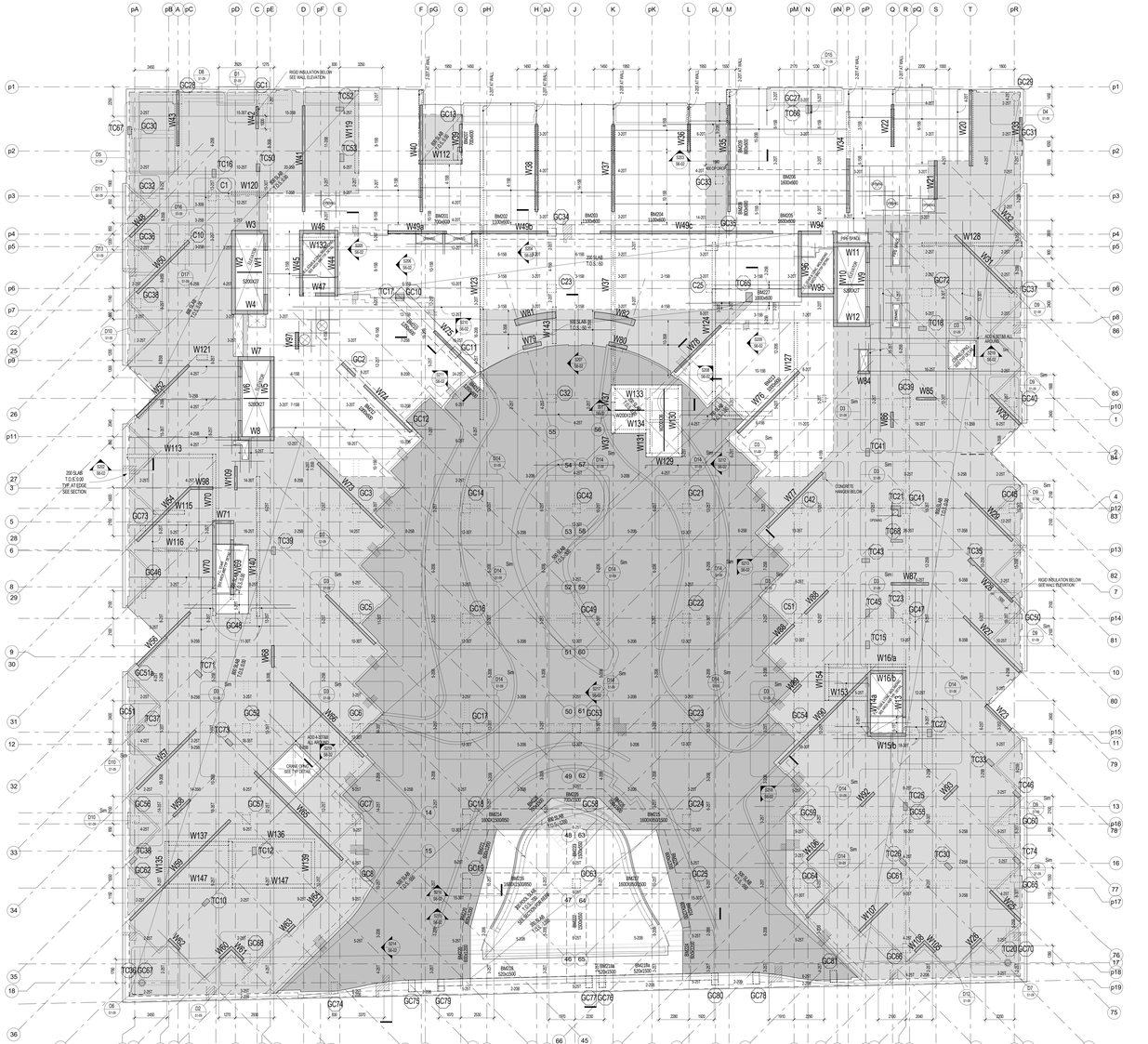


D15 PLAN DETAIL
S1-09 1 : 50

D16 PLAN DETAIL
S1-09 1 : 50



D17 PLAN DETAIL
S1-09 1 : 50



LEVEL 2 FRAMING PLAN
1 : 100

1. TOP OF STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED FLOOR DATUM ELEVATION EXCEPT AS CROSSED AND NOTED. SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATION.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL), IN ADDITION TO THE SELF WEIGHT:

	LL	SDL
SUITES	1.9 kPa	1.25 kPa
CORRIDOR	4.8 kPa*	2.5 kPa
TERRACE/BALCONIES/HALLOWAY	4.8 kPa*	2.5 kPa
CANOPY	2.4 kPa*	2.5 kPa

* INCLUDES ALLOWANCE FOR SLOPES AND ROOFING MATERIALS
** 4KN ALLOWANCE FOR SNOW LOAD OF 1.0 kPa HAS BEEN CONSIDERED
SEE PLAN FOR ADDITIONAL SNOW LOAD

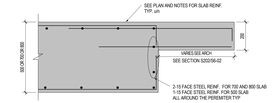
3. CONCRETE COVER FOR TOP AND BOTTOM BARS IN SLABS TO BE 25 mm.
4. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
5. THE CONCRETE SUB-CONTRACTOR MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
6. SEE TYPICAL DETAIL DRAWING FOR LINTELS IN NON-LOAD BEARING BLOCK WALLS.
7. SEE ALSO TYPICAL NOTES AND DETAILS.
8. REFER TO BEAM AND COLUMN SCHEDULES, WALL ELEVATIONS.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND DETAILS.
10. PROVIDE CONTINUOUS TOP AND BOTTOM TEMPERATURE STEEL HOOKED AT EDGE OF SLAB AND OPENINGS IN ADDITION TO REINFORCEMENT SHOWN ON PLAN.
11. IN TOWNHOUSE SLABS, HOOK BOTTOM BARS AND EXTEND ALL TOP BARS INTO ADJACENT SLABS BY 2000mm (TYP.)
12. TRANSFER SLABS TO BE SHORED UNTIL REACH SPECIFIED 28 DAYS CONCRETE STRENGTH.
13. SHORING SHOULD NOT BE SUPPORTED ON BUILDING SLABS.
14. ADD 2-20TAB CONT. AT PERIMETER BEND BARS TO SUIT SLAB EDGE. SEE SECTION FOR DETAIL.

T/L = TOP LAYER
B/L = BOTTOM LAYER
T/LL = TOP LAYER
B/LL = BOTTOM LAYER

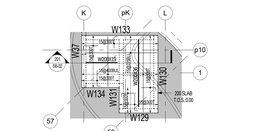
REINFORCEMENT PLACEMENT DIAGRAM

SLAB	200 MIN. s/n
INTEGRITY BARS	3-20M OEW
CONCRETE STRENGTH	40 MPa
TEMPERATURE STEEL	
BOTTOM STEEL	15@300OEW s/n
TOP STEEL	15@300TOR s/n
SLAB	250 MIN.
INTEGRITY BARS	3-20M OEW
CONCRETE STRENGTH	40 MPa
TEMPERATURE STEEL	
BOTTOM STEEL	15@300OEW s/n
TOP STEEL	15@300TOR s/n
SLAB	600 MIN.
INTEGRITY BARS	4-20M OEW
CONCRETE STRENGTH	40 MPa
TEMPERATURE STEEL	
BOTTOM STEEL	2x@300OEW s/n
TOP STEEL	2x@300TOR s/n
FACE STEEL	2-15M HEF
SLAB	650 MIN.
INTEGRITY BARS	3-25M OEW
CONCRETE STRENGTH	40 MPa
TEMPERATURE STEEL	
BOTTOM STEEL	25@300OEW s/n
TOP STEEL	25@300TOR s/n
SLAB	700 AND 800 MIN.
INTEGRITY BARS	4-25M OEW
CONCRETE STRENGTH	40 MPa
TEMPERATURE STEEL	
TOP STEEL	25@300TOR s/n
BOTTOM STEEL	25@300OEW s/n
FACE STEEL	2-15M HEF

SEE PLAN FOR ADDITIONAL REINFORCEMENT



SLAB EDGE FACE BARS DETAIL LEVEL 2
1 : 10



LEVEL 2 ELEVATOR ROOF FRAMING PLAN
1 : 100

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Without The Consent Of The Architect Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

PROFESSIONAL ENGINEER — MAY 12,2016 — J. TANSLEY — POWER OF ONTARIO

PROFESSIONAL ENGINEER — MAY 12,2016 — J. SHADRON — POWER OF ONTARIO

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T 647.343.4478
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR INT REVIEW	MAY 01,2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title:
LEVEL 2 FLOOR FRAMING PLAN

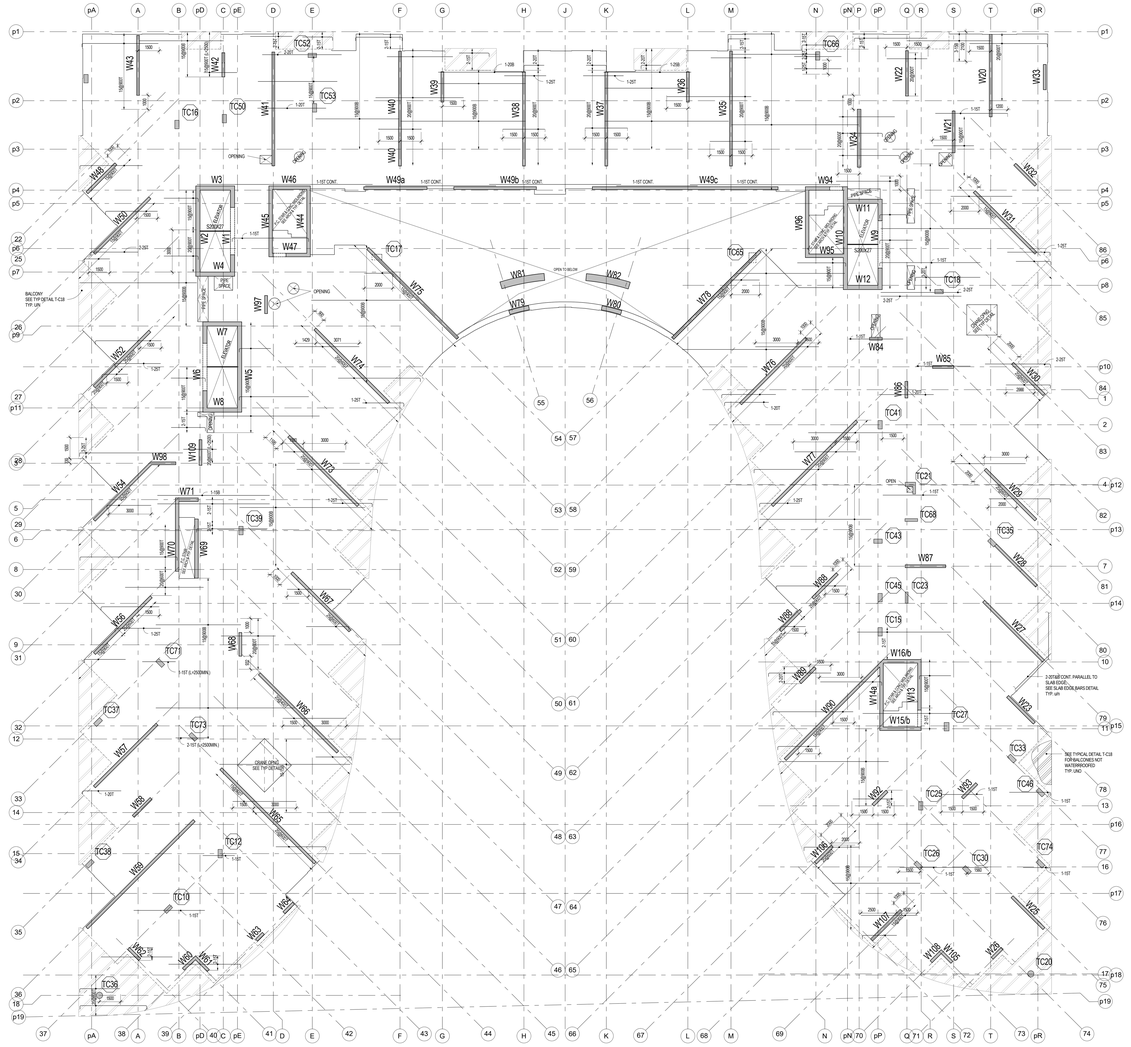
Project:
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale:	As indicated
Drawn by:	DC
Checked by:	IA/BBS
Project No:	20140031
Date:	MAY 12,2016
Drawing No:	S1-09

Plot Date: 5/12/2016 9:58:59 AM

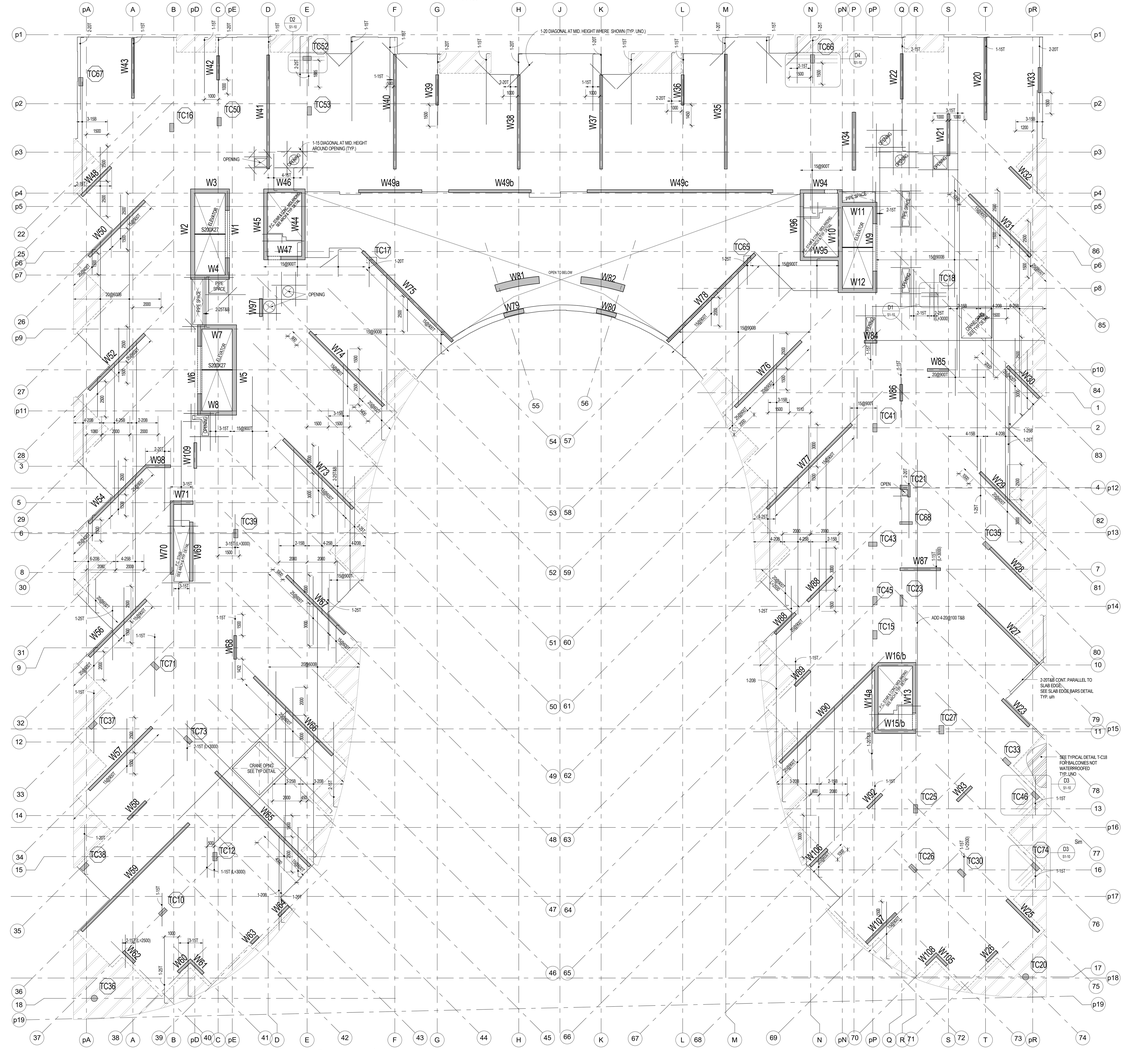
LEVEL 3 FRAMING PLAN - WITH BUL AND TLL

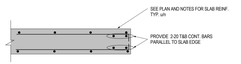
1 : 100



LEVEL 3 FRAMING PLAN WITH - BLL AND TUL

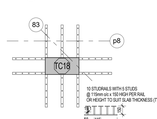
1 : 100





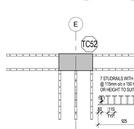
SLAB EDGE BARS DETAIL

1 : 10



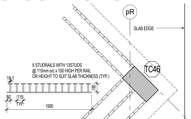
D1 PLAN DETAIL

S1-10 1 : 25



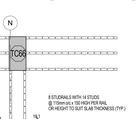
D2 PLAN DETAIL

S1-10 1 : 25



D3 PLAN DETAIL

S1-10 1 : 25



D4 PLAN DETAIL

S1-10 1 : 25

SEE PLAN FOR ADDITIONAL REINFORCEMENT

NOTES:

1. TOP OF STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED FLOOR DATUM ELEVATION EXCEPT AS NOTED OTHERWISE AND NOTED SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATIONS.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT:

	LL	SDL
SUITES	1.9 kPa	1.25 kPa
TERRACE	4.8 kPa*	5.7 kPa*
MECH. PENTHOUSE	7.2 kPa	1.5 kPa
BALCONIES	4.8 kPa	1.0 kPa

* INCLUDES ALLOWANCE FOR SLOPES AND ROOFING MATERIALS
** 6th ALLOWANCE FOR SNOW LOAD OF 1.28 kPa HAS BEEN CONSIDERED.

3. CONCRETE COVER FOR TOP AND BOTTOM BARS IN SLABS TO BE 25 mm.
4. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
5. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
6. SEE ALSO TYPICAL NOTES AND DETAILS.
7. SEE REBAR AND COLUMN SCHEDULES, WALL ELEVATIONS.
8. ALL CONCRETE EXPOSED TO WEATHER TO BE 32 MPa 5-8% AIR. BOTTOM, HOOKED AT EDGE OF SLAB AND OPENINGS, IN ADDITION TO REINFORCEMENT SHOWN ON PLAN.
9. PROVIDE TLS FOR ALL SLAB REINFORCEMENT.
10. ADD 2-20TB8 CONT. AT PERIMETER BEND BARS TO SUIT SLAB EDGE. SEE SLAB EDGE BARS DETAIL.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Any Form Whatsoever Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR KT REVIEW	MAY 21,2015

No	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title:

LEVEL 3 FLOOR FRAMING PLAN

Project:

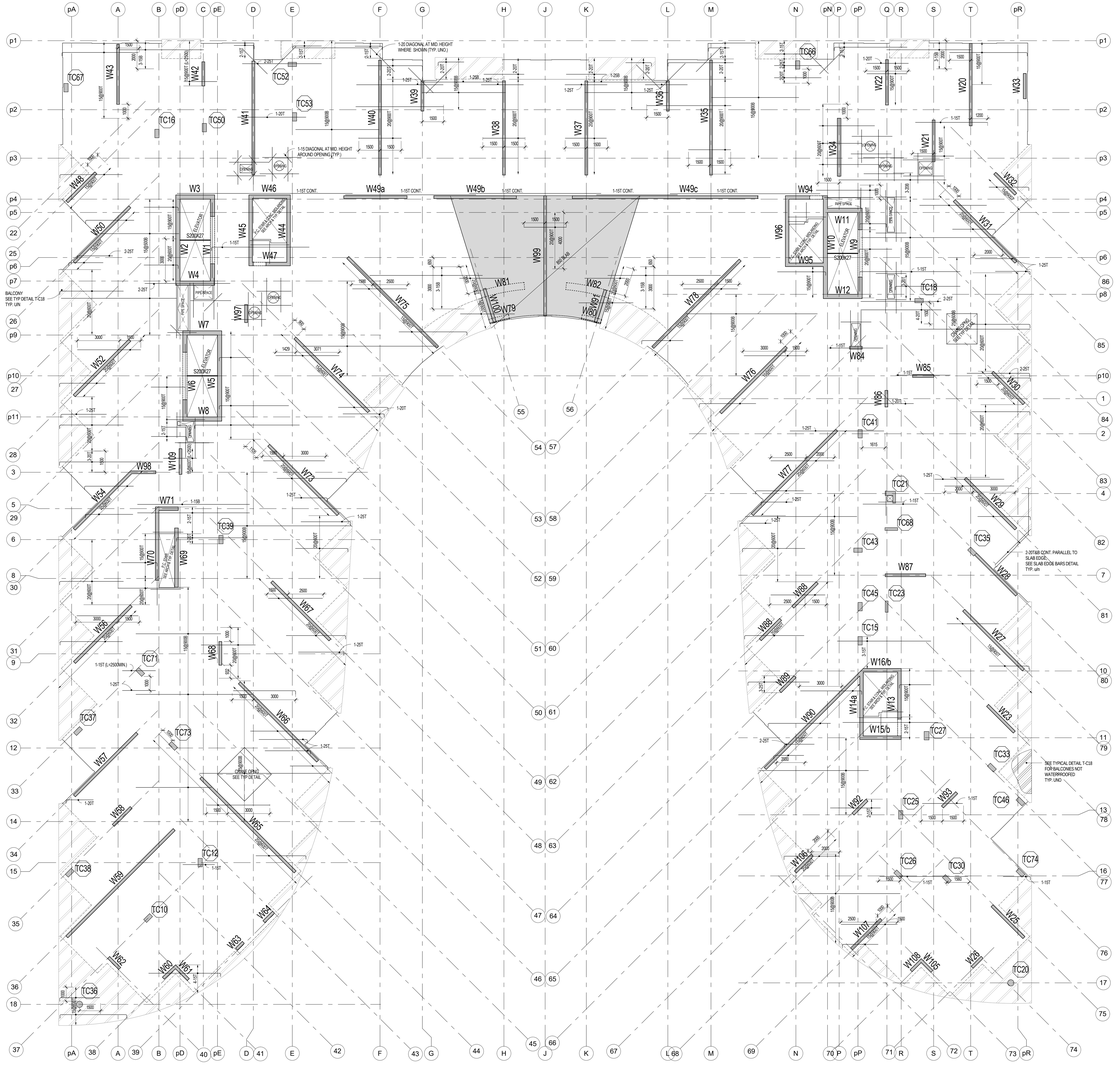
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale:	As indicated
Drawn by:	DC
Checked by:	IA/BBS
Project No:	20140031
Date:	MAY 12,2016
Drawing No:	S1-10

Plot Date: 5/12/2016 9:59:02 AM

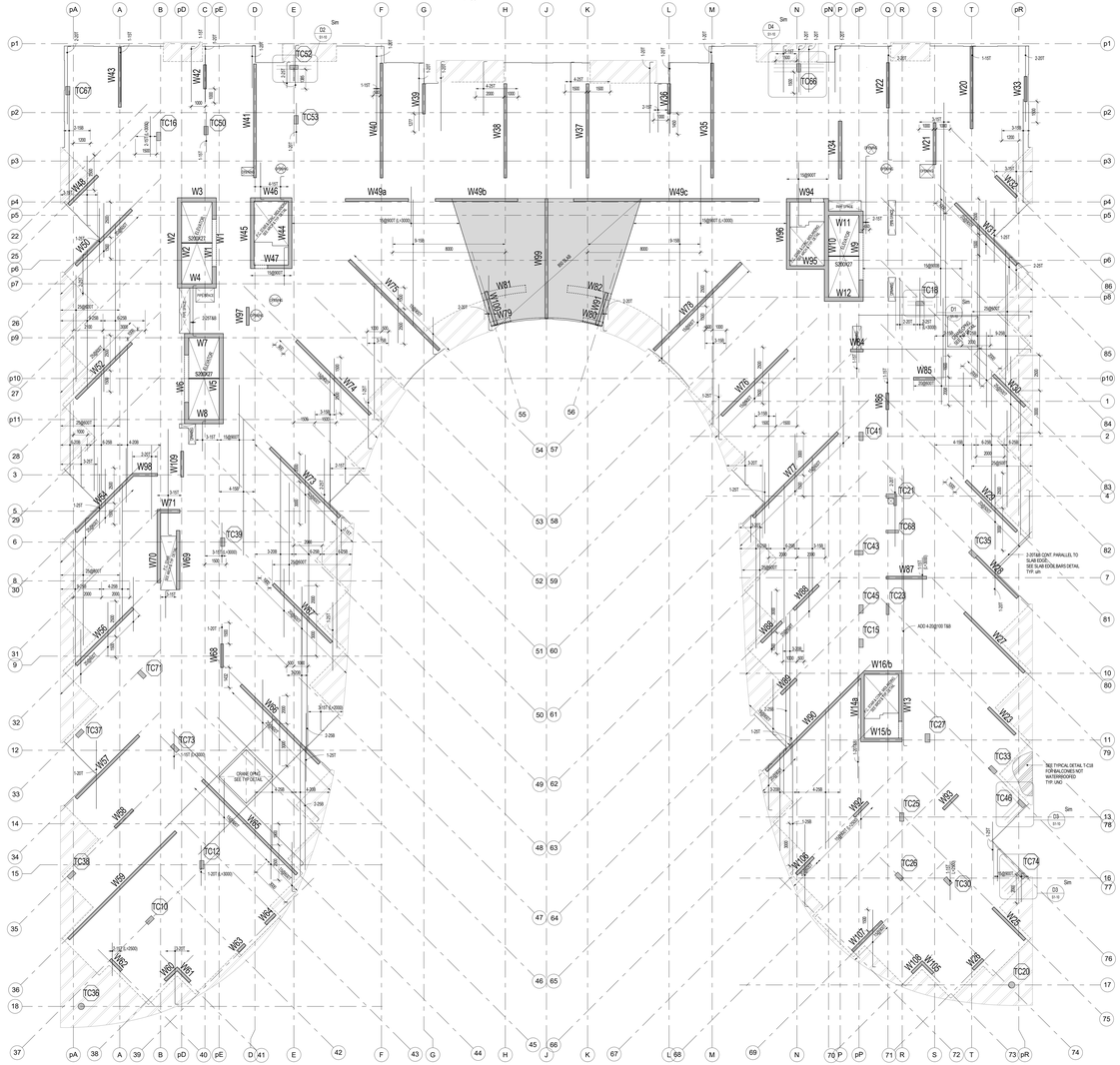
LEVEL 4 FRAMING PLAN - WITH BUL AND TLL

1 : 100



LEVEL 4 FRAMING PLAN - WITH BLL AND TUL

1 : 100



REINFORCEMENT PLACEMENT DIAGRAM

SLAB:	20 MIN. c/c
INTEGRITY BARS:	3-20M BEW
CONCRETE STRENGTH:	35 MPa
TEMP. STEEL:	15@300 TSB EW
SLAB:	800 MIN.
INTEGRITY BARS:	3-20M BEW
CONCRETE STRENGTH:	35 MPa
TEMP. STEEL:	20@175 TSB EW

SEE PLAN FOR ADDITIONAL REINFORCEMENT

SLAB EDGE BARS DETAIL

1 : 10

NOTES:

1. TOP OF STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED FLOOR DATUM ELEVATION EXCEPT AS DESIGNED AND NOTED. SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATION.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT.

	LL	SDL
SLOTS	1.9 kPa	1.25 kPa
TERRACE	4.8 kPa*	2.0 kPa
CORRIDORS	4.8 kPa	2.0 kPa
BALCONIES	4.8 kPa	2.0 kPa

* INCLUDES ALLOWANCE FOR SLOPES AND ROOFING MATERIALS
** 4kPa ALLOWANCE FOR SNOW LOAD OF 1.28 kPa HAS BEEN CONSIDERED.

3. CONCRETE COVER FOR TOP AND BOTTOM BARS IN SLABS TO BE 25 mm.
4. DO NOT CUT ANY SLAB OPENING FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
5. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
6. SEE ALSO TYPICAL NOTES AND DETAILS.
7. SEE ARCHITECTURAL DRAWINGS FOR WALL ELEVATIONS.
8. PROVIDE CONTINUOUS TEMPERATURE STEEL TOP AND BOTTOM, HOOKED AT EDGE OF SLAB AND OPENINGS, IN ADDITION TO REINFORCEMENT SHOWN ON PLAN.
9. PROVIDE TLS FOR ALL SLAB REINFORCEMENT.
10. ADD 2-20TSB CONT. AT PERIMETER BEND BARS TO SUIT SLAB EDGE. SEE SLAB EDGE BARS DETAIL.

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Or Any Portions Are Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

7 TAWSLEY
MAY 12,2016
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

2 BARCHARA SYED
MAY 12,2016
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR KT REVIEW	MAY 21,2015

No	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 4 FLOOR FRAMING PLAN

Project

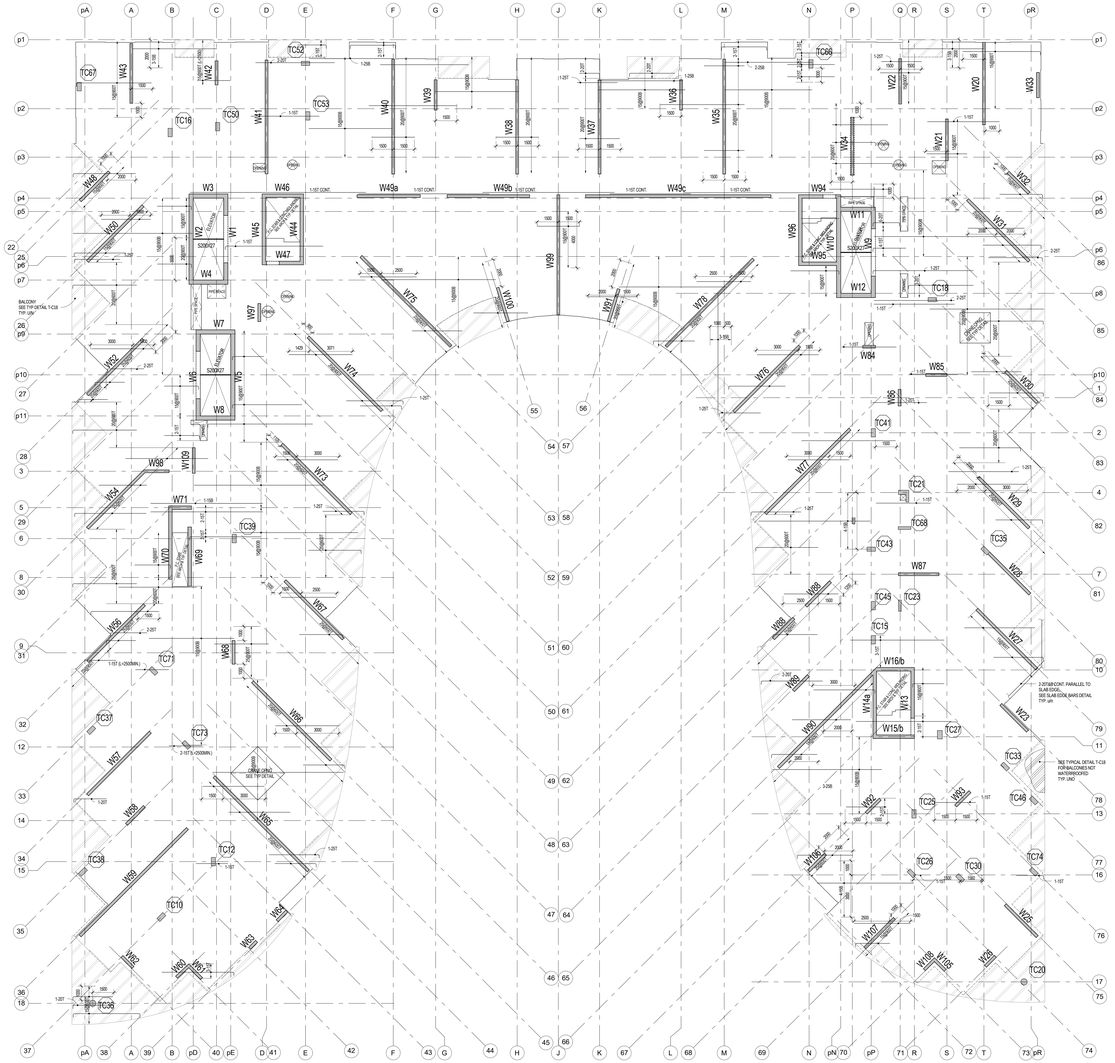
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No	20140031
Date	MAY 12,2016
Drawing No	S1-11

Plot Date: 5/12/2016 9:59:07 AM

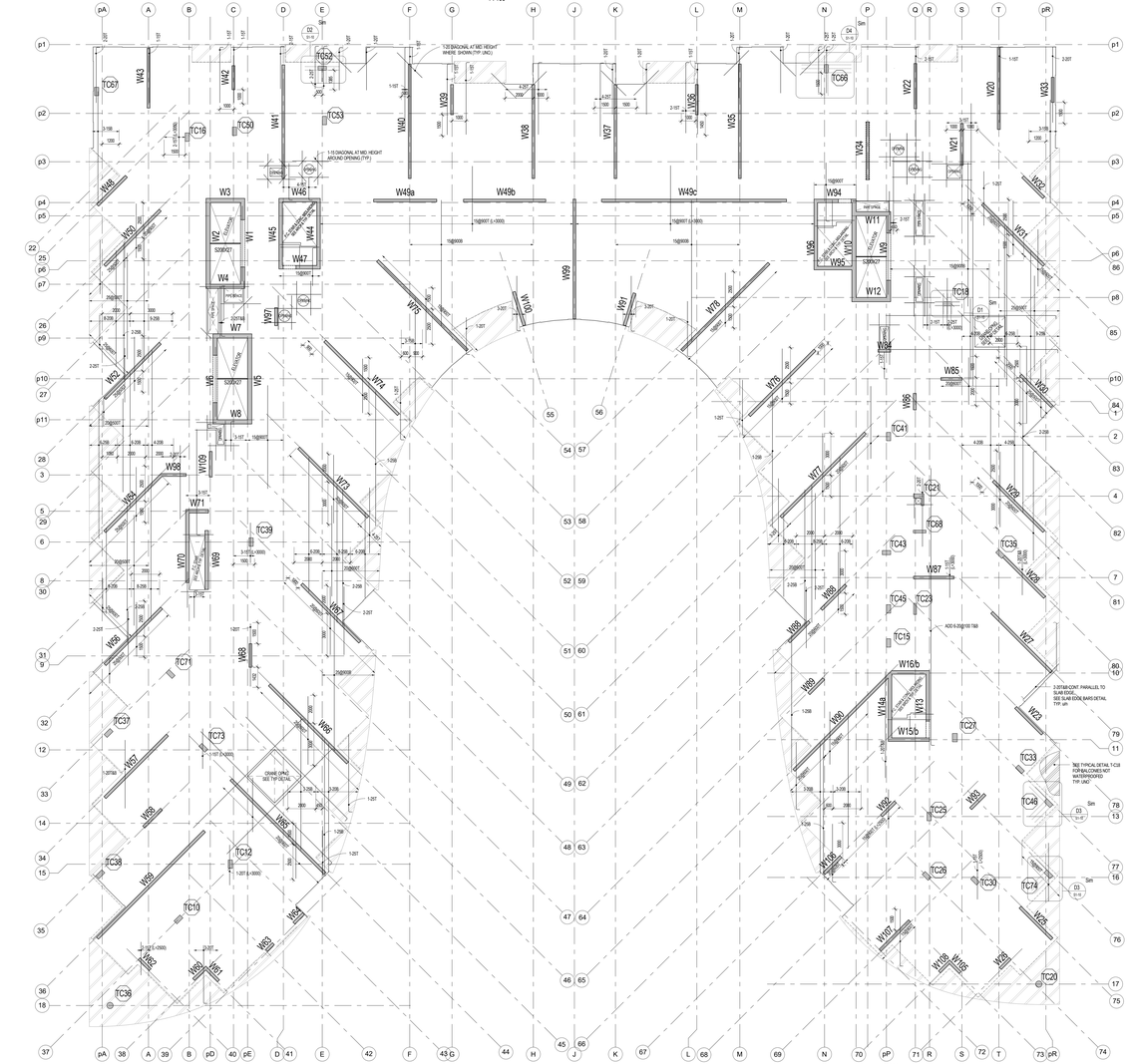
LEVEL 5 FRAMING PLAN - WITH BUL AND TLL

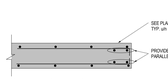
1 : 100



LEVEL 5 FRAMING PLAN WITH BLL AND TUL

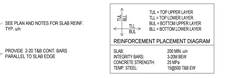
1 : 100





SLAB EDGE BARS DETAIL

1 : 10



REINFORCEMENT PLACEMENT DIAGRAM

SLAB:	200 MPa y/o
INTEGRITY BARS	3.33M BEW
CONCRETE STRENGTH	25 MPa
TEMP. STEEL:	10@508 TBB EW

SEE PLAN FOR ADDITIONAL REINFORCEMENT

NOTES:

1. TOP OF STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED FLOOR DATUM ELEVATION EXCEPT AS CROSSED AND NOTED. SEE ARCHITECTURAL DRAWING FOR DATUM ELEVATION.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT.

	LL	SDL
SUITES	1.9 kPa	1.25 kPa
CORRIDORS	4.8 kPa	1.5 kPa
STAIRS/LOBBY	4.8 kPa	1.5 kPa
BALCONIES	4.8 kPa*	0.5 kPa

* INCLUDES ALLOWANCE FOR SLOPES AND ROOFING MATERIALS.
ADDITIONAL ALLOWANCE FOR SNOW LOAD OF 1.35 kPa HAS BEEN CONSIDERED.

3. CONCRETE COVER FOR TOP AND BOTTOM BARS IN SLABS TO BE 20 mm.
4. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
5. THE PROJECT SUPERINTENDENT MUST CONTACT THE OFFICE 24 HOURS PRIOR TO CONCRETE PLACEMENT TO ARRANGE A REVIEW OF PREPARATIONS.
6. SEE ALSO TYPICAL NOTES AND DETAILS.
7. SEE BEAM AND COLUMN SCHEDULES, WALL ELEVATIONS.
8. PROVIDE CONTINUOUS TEMPERATURE STEEL TOP AND BOTTOM HOOKED AT EDGE OF SLAB AND OPENINGS. IN ADDITION TO REINFORCEMENT SHOWN ON PLAN.
9. PROVIDE TLS FOR ALL SLAB REINFORCEMENT.
10. ADD 2-20TAB CONT. AT PERIMETER BEND BARS TO SUIT SLAB EDGE. SEE SLAB EDGE BARS DETAIL.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Not To Be Undertaken Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING

2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR IRT REVIEW	MAY 21,2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title:

LEVEL 5 FLOOR FRAMING PLAN

Project:

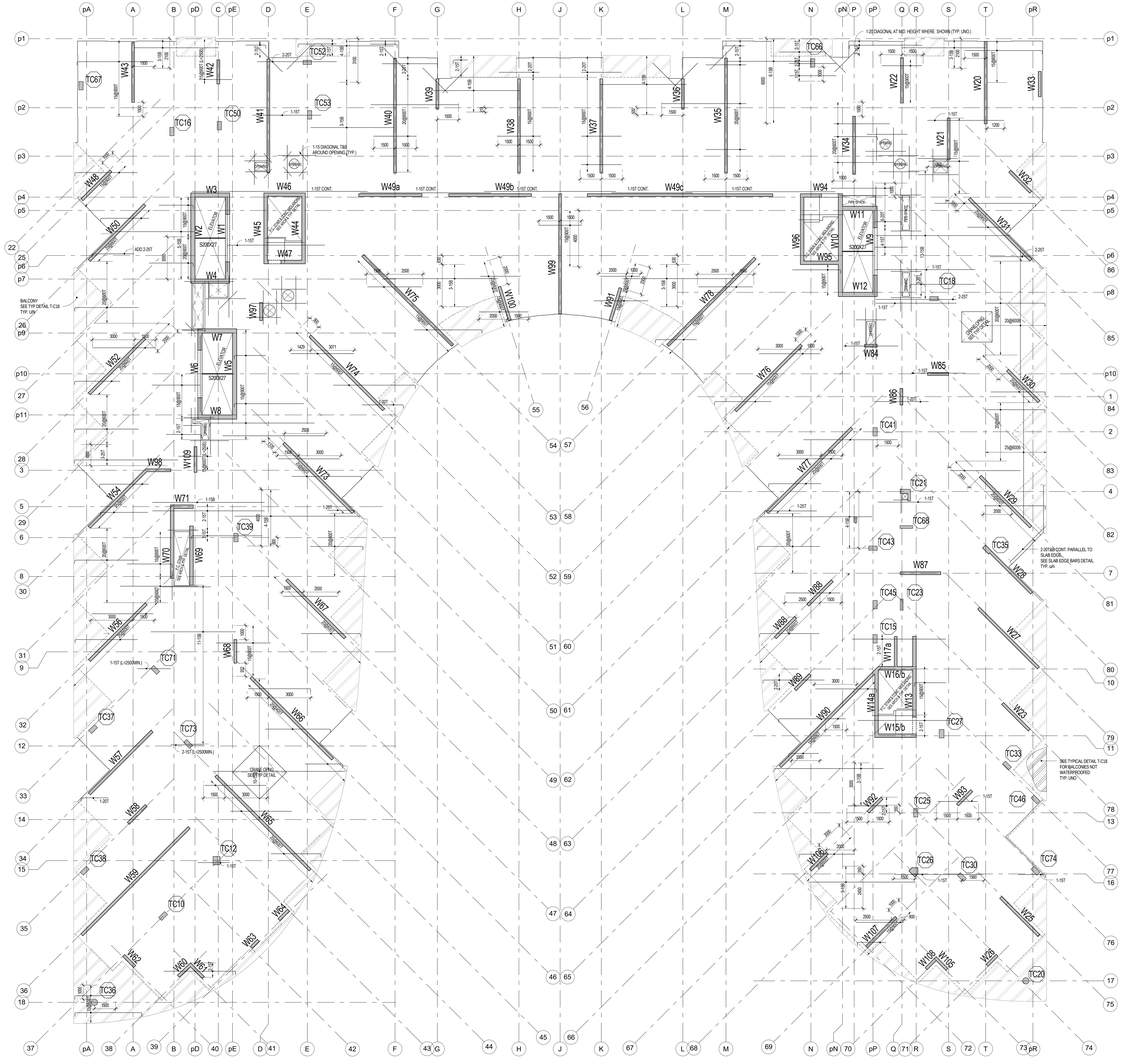
Hines TRIDEL

AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale:	As indicated
Drawn by:	DC
Checked by:	IA/BBS
Project No:	20140031
Date:	MAY 12,2016
Drawing No:	S1-12

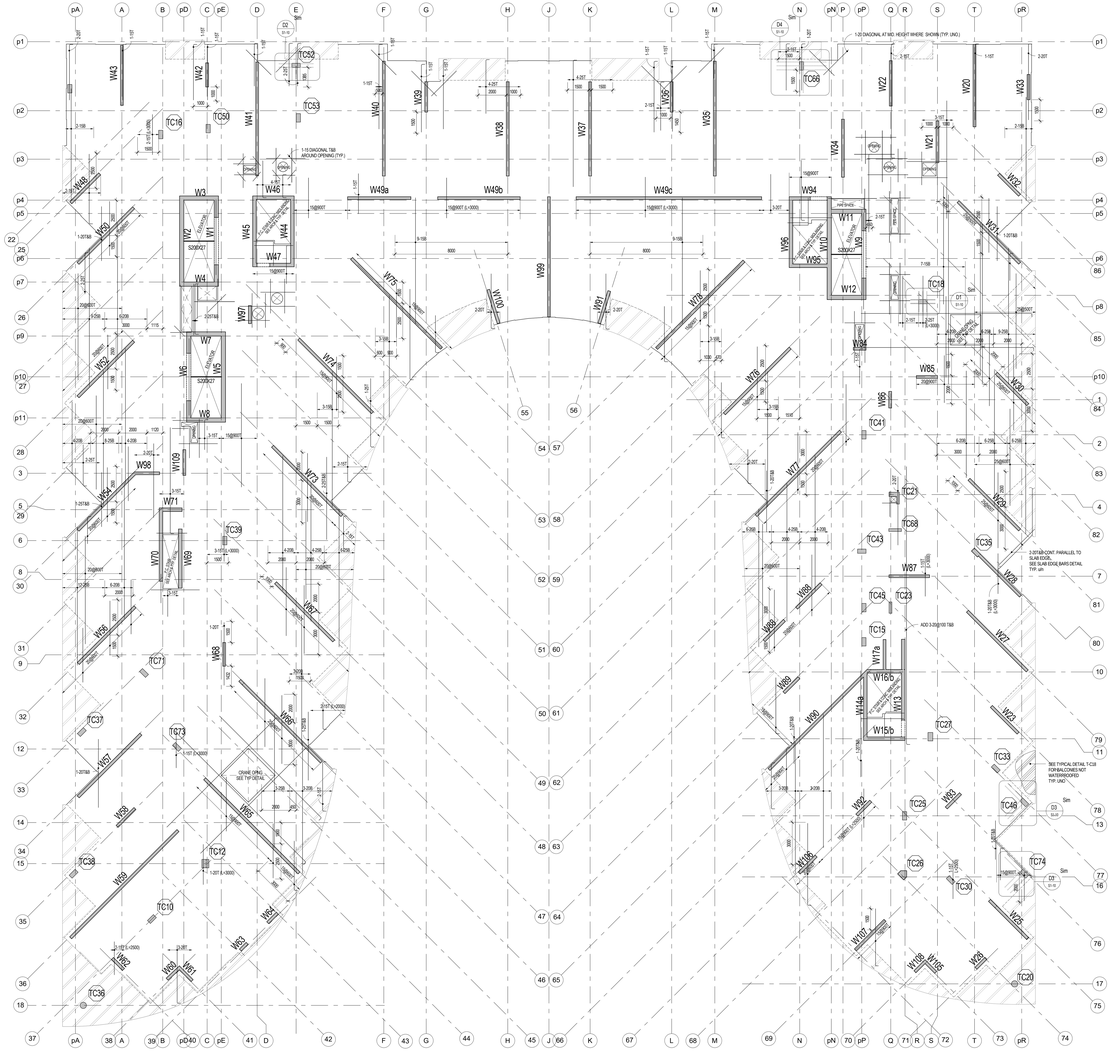
LEVEL 6 FRAMING PLAN - WITH BUL AND TLL

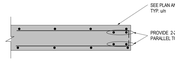
1 : 100



LEVEL 6 FRAMING PLAN - WITH BLL AND TUL

1 : 100





SLAB EDGE BARS DETAIL

1 : 10

REINFORCEMENT PLACEMENT DIAGRAM

SLAB:	200 MPa u/n
INTEGRITY BARS:	3-20M BEW
CONCRETE STRENGTH:	25 MPa
TEMP. STEEL:	1@600 T&B EW

SEE PLAN FOR ADDITIONAL REINFORCEMENT

NOTES:

1. TOP OF STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED FLOOR DATUM ELEVATION EXCEPT AS CROSSED AND NOTED. SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATION.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT.

	LL	SDL
SUITES	1.9 kPa	1.25 kPa
CORRIDOR	4.8 kPa*	0.5 kPa
STAIRS/LOBBY	4.8 kPa	0.5 kPa
BALCONIES	4.8 kPa*	0.5 kPa

* INCLUDES ALLOWANCE FOR SLOPES AND ROOFING MATERIALS
** 4% ALLOWANCE FOR SNOW LOAD OF 1.28 kPa HAS BEEN CONSIDERED.

3. CONCRETE COVER FOR TOP AND BOTTOM BARS IN SLABS TO BE 25 mm.
4. ALL OPENINGS TO BE COORDINATED FROM ENGINEER FOR ALL OPENINGS OVER THAN THOSE SHOWN ON PLAN.
5. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF REINFORCING.
6. SEE ALSO TYPICAL NOTES AND DETAILS.
7. SEE ARCHITECTURAL DRAWINGS FOR ALL ELEVATIONS.
8. PROVIDE CONTROLLED TEMPERATURE STEEL TOP AND BOTTOM, HOOKED AT EDGE OF SLAB AND OPENINGS, IN ADDITION TO REINFORCEMENT SHOWN ON PLAN.
9. PROVIDE TLS FOR ALL SLAB REINFORCEMENT.
10. ADD 2-20T&B CONT. AT PERIMETER BEND BARS TO SUIT SLAB EDGE. SEE SLAB EDGE BARS DETAIL.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Without Written Permission Is Forbidden Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING

2550 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 | Tel.(416) 495 7676
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR IXT REVIEW	MAY 21,2015

No	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 6 FLOOR FRAMING PLAN

Project

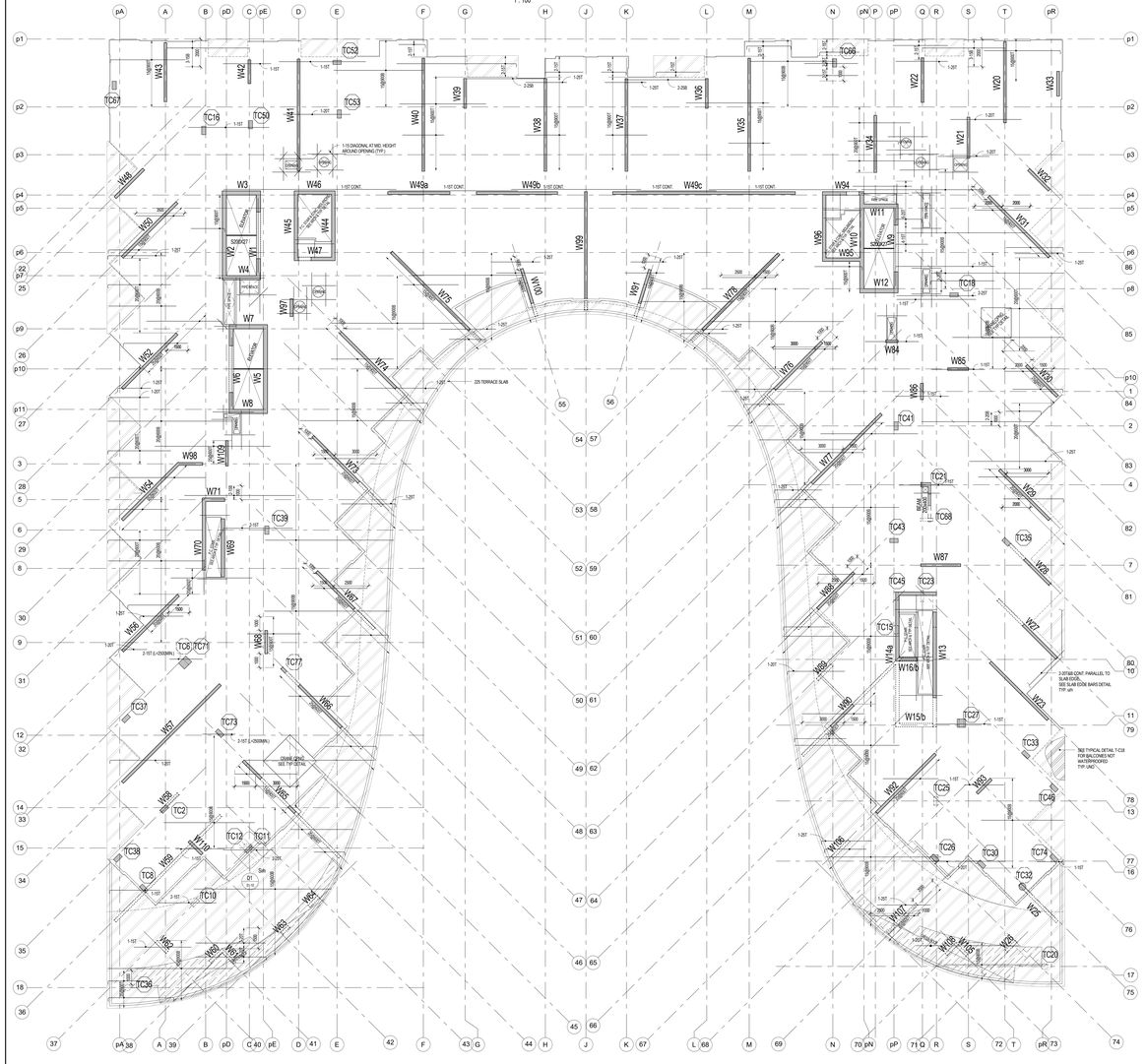
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No.	20140031
Date	MAY 12,2016
Drawing No.	S1-13

Plot Date: 5/12/2016 9:59:15 AM

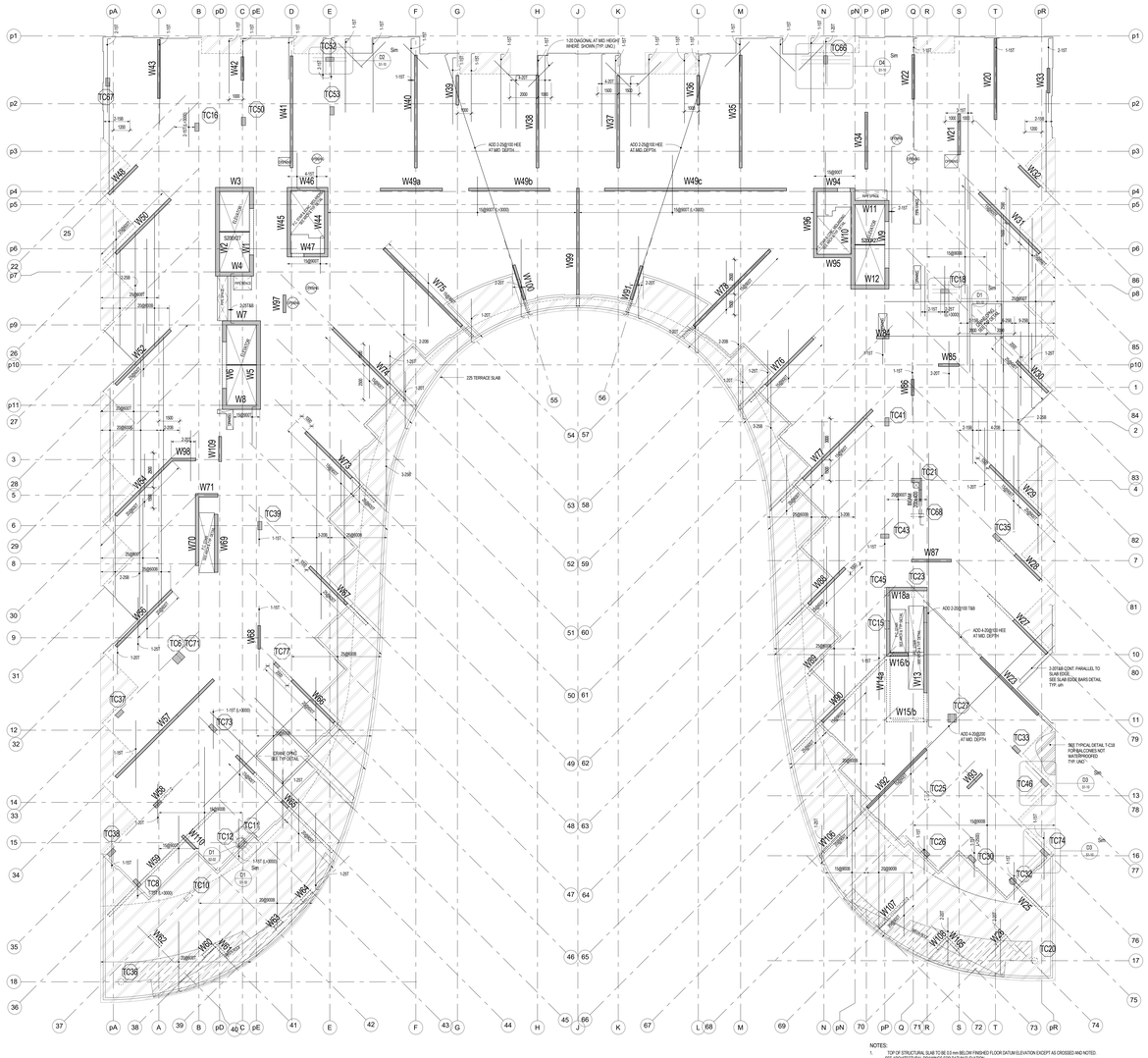
LEVEL 7 FRAMING PLAN - WITH BUL AND TLL

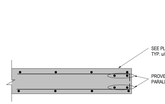
1 : 100



LEVEL 7 FRAMING PLAN - WITH BLL AND TUL

1 : 100





SLAB EDGE BARS DETAIL

1 : 10

REINFORCEMENT PLACEMENT DIAGRAM

SLAB	200 MIN. o/h
INTEGRITY BARS	3-20M BEW
TEMP. STEEL LENGTH	1500mm
TEMP. STEEL	1@450 T&B EW
TERRACE SLAB	225 MIN. o/h
INTEGRITY BARS	3-20M BEW
TEMP. STEEL LENGTH	1500mm
TEMP. STEEL	1@450 T&B EW

SEE PLAN FOR ADDITIONAL REINFORCEMENT

NOTES:

1. TOP OF STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED FLOOR DATUM ELEVATION EXCEPT AS CROSSED AND NOTED.
2. SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATION.
   THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT.

	LL	SDL
SUITES	1.9 kPa	1.25 kPa
CORRIDOR	4.8 kPa	0.5 kPa
LOUNGE/LOBBY	4.8 kPa	0.5 kPa
TERRACE SLAB	4.8kPa*	1.5kPa
GREEN ROOF	4.8kPa*	1.7 kPa

   * INCLUDES ALLOWANCE FOR SLOPES AND ROOFING MATERIALS
   ** AN ALLOWANCE FOR SNOW LOAD OF 1.28 kPa HAS BEEN CONSIDERED.
   INCLUDES ALLOWANCE FOR 3.3 kPa GREEN ROOF DEAD LOAD.
3. CONCRETE TO BE NORMAL DENSITY, 35 MPa @ 28 DAYS.
4. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
5. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
6. SEE ALSO TYPICAL NOTES AND DETAILS.
7. SEE ARCHITECTURAL DRAWINGS FOR WALL ELEVATIONS.
8. PROVIDE CONTINUOUS TEMPERATURE STEEL TOP AND BOTTOM, HOOKED AT EDGE OF SLAB AND OPENINGS, IN ADDITION TO REINFORCEMENT SHOWN ON PLAN.
9. PROVIDE TLT FOR ALL SLAB REINFORCEMENT.
10. ADD 2-20TAB CONT. AT PERIMETER BEND BARS TO SUIT SLAB EDGE. SEE SLAB EDGE BARS DETAIL

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Unless It Is Forwarded Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

PROFESSIONAL ENGINEER — MAY 12,2016 — J. TANASIJEVIC

PROFESSIONAL ENGINEER — MAY 12,2016 — S. BARGHAN

stephenson ENGINEERING

2500 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 | Tel.(416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date
9	GREEN ROOF LOAD REVISION	NOV.16,2015

8	BUILDING PERMIT RESUBMISSION	MAY.12,2016
7	ISSUED FOR STEEL TENDER	DEC.18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT.21,2015
5	BUILDING PERMIT RESUBMISSION	JULY.22,2015
2	BUILDING PERMIT SUBMISSION	JUNE.12,2015
1	ISSUED FOR ART REVIEW	MAY.01,2015

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title:

LEVEL 7 FLOOR FRAMING PLAN

Project:

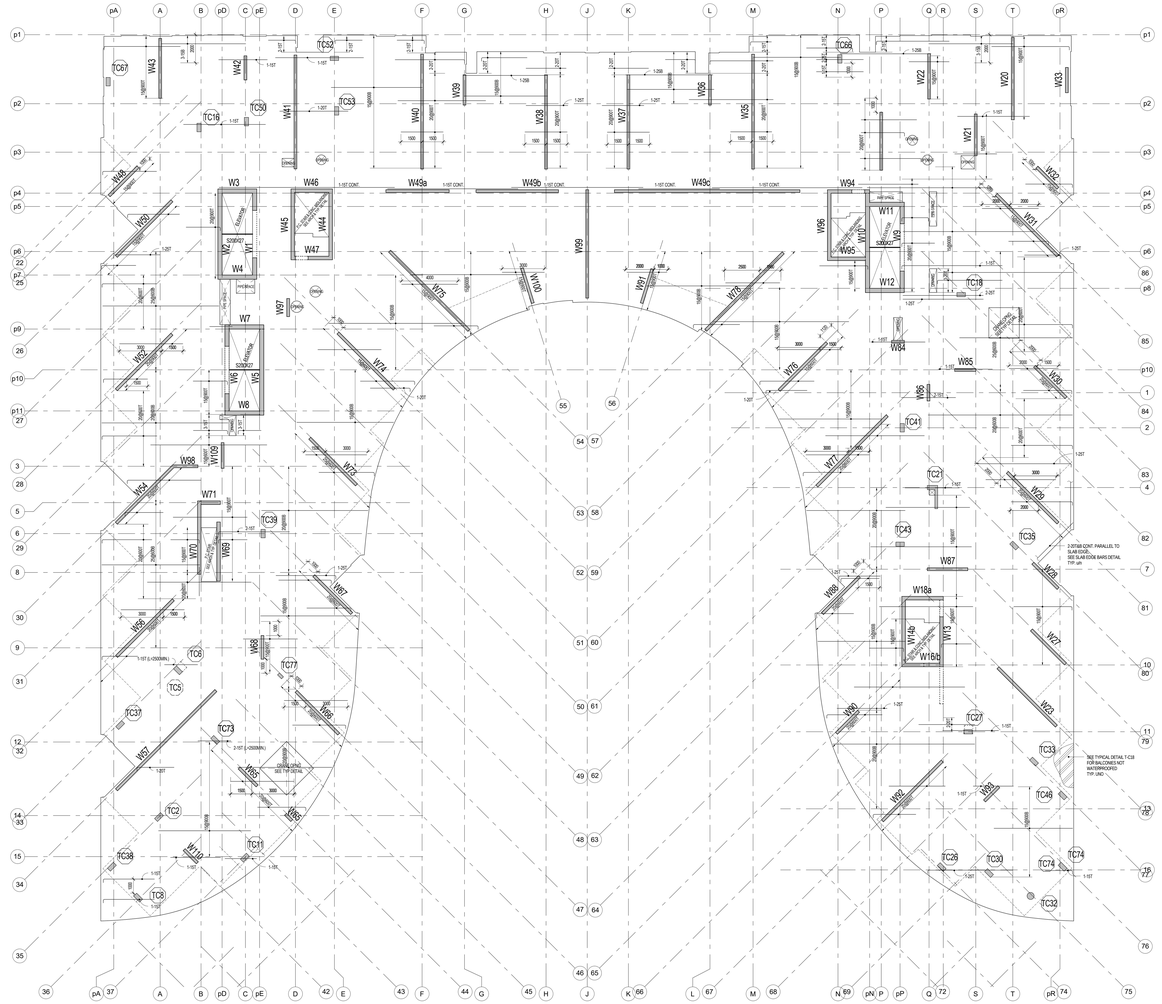
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale:	As indicated
Drawn by:	DC
Checked by:	IA/BBS
Project No:	20140031
Date:	MAY.12.2016
Drawing No:	S1-14

Plot Date: 5/12/2016 9:59:29 AM

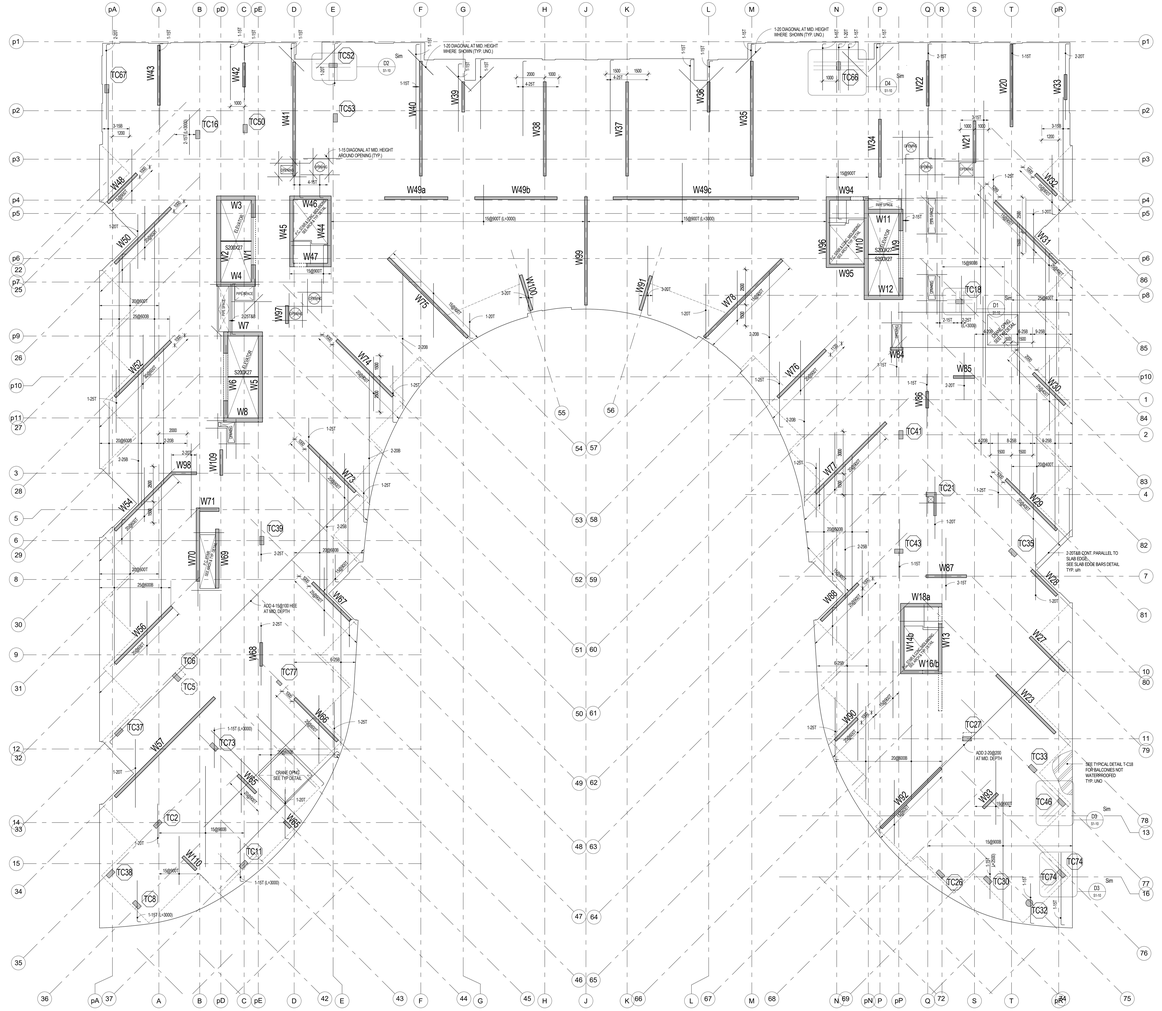
LEVEL 8 FRAMING PLAN - WITH BUL AND TLL

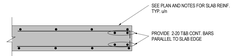
1 : 100



LEVEL 8 FRAMING PLAN - WITH BLL AND TUL

1 : 100





SLAB EDGE BARS DETAIL

1 : 10

REINFORCEMENT PLACEMENT DIAGRAM

SLAB	200 MPa u/n
INTEGRITY BARS:	3-20M BEW
CONCRETE STRENGTH:	25 MPa
TEMP. STEEL:	Ingleton T&B EW

SEE PLAN FOR ADDITIONAL REINFORCEMENT

NOTES:

1. TOP OF STRUCTURAL SLAB TO BE 5.0 mm BELOW FINISHED FLOOR DATUM ELEVATION EXCEPT AS CROSSED AND NOTED. SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATIONS.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT:

	LL	SDL
SUITES	1.9 kPa	1.25 kPa
CORRIDOR	4.8 kPa*	0.5 kPa*
STAIRS/LOBBY	4.8 kPa	1.5 kPa
BALCONIES	4.8 kPa*	1.5 kPa

* INCLUDES ALLOWANCE FOR SLOPE AND ROOFING MEMBRANE
** AN ALLOWANCE FOR SHOW LOAD OF 1.28 kPa HAS BEEN CONSIDERED.

3. CONCRETE COVER FOR TOP AND BOTTOM BARS IN SLABS TO BE 25 mm.
4. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
5. THE CONCRETE SUPPLIER / CONTRACTOR MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
6. SEE ALSO TYPICAL NOTES AND DETAILS.
7. SEE BEAM AND COLUMN SCHEDULES, WALL ELEVATIONS.
8. PROVIDE CONTINUOUS TEMPERATURE STEEL TOP AND BOTTOM, HOOKED AT EDGE OF SLAB AND OPENINGS UNLESS OTHERWISE DEPENDENT SHOWN ON PLAN.
9. PROVIDE T&B EW IN ALL SLAB REINFORCEMENT.
10. ADD 2-20TAB CONT. AT PERIMETER BEND BARS TO BUT SLAB EDGE. SEE SLAB EDGE BARS DETAIL.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Parts Is Forbidden Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed ByThe Architect.

Date:

stephenson ENGINEERING

2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 7676
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR IMT REVIEW	MAY 21,2015

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 8 FLOOR FRAMING PLAN

Project

Hines TRIDEL

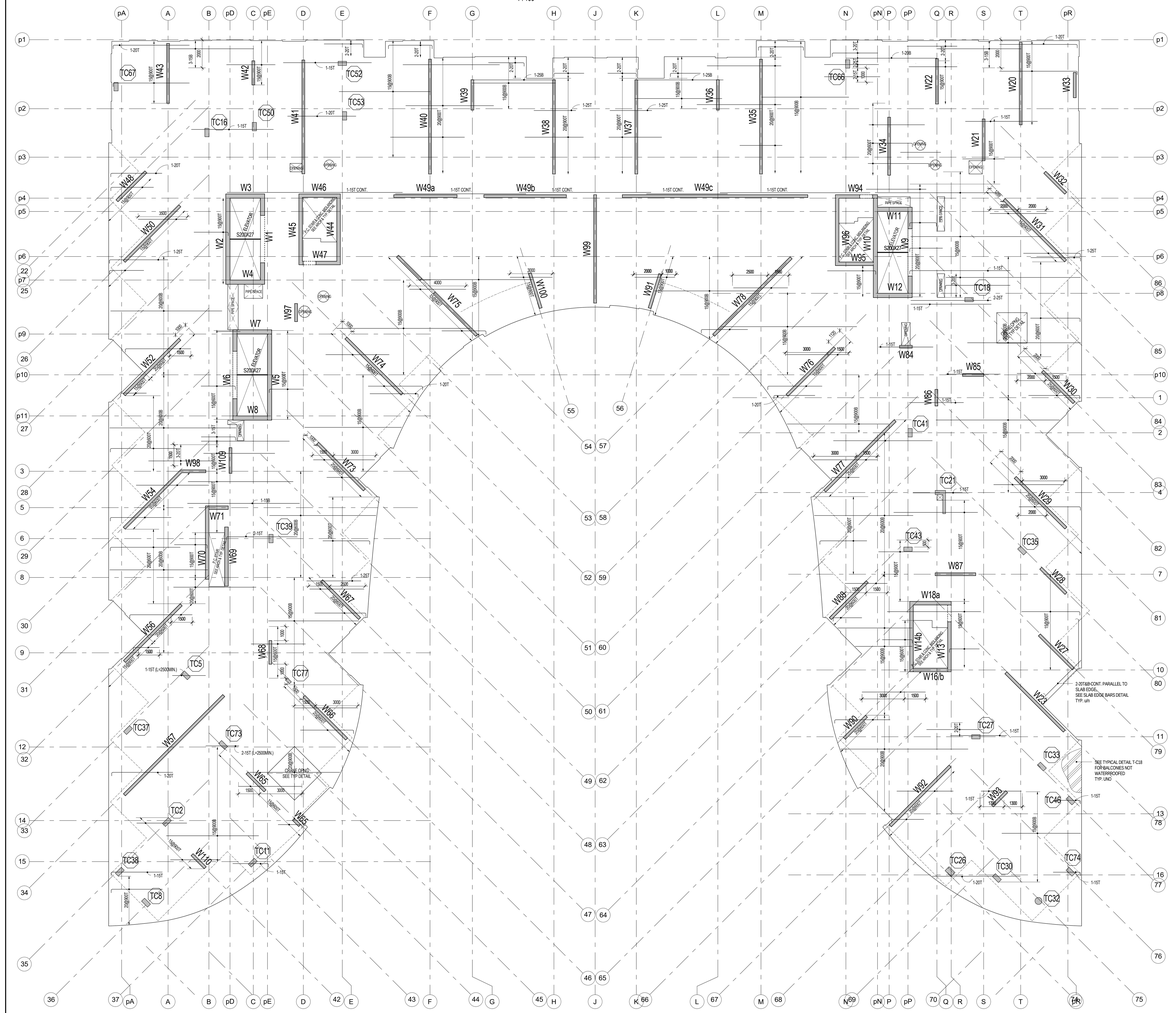
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No.	2014003I
Date	MAY 12,2016
Drawing No.	S1-15

Plot Date: 5/12/2016 9:59:31 AM

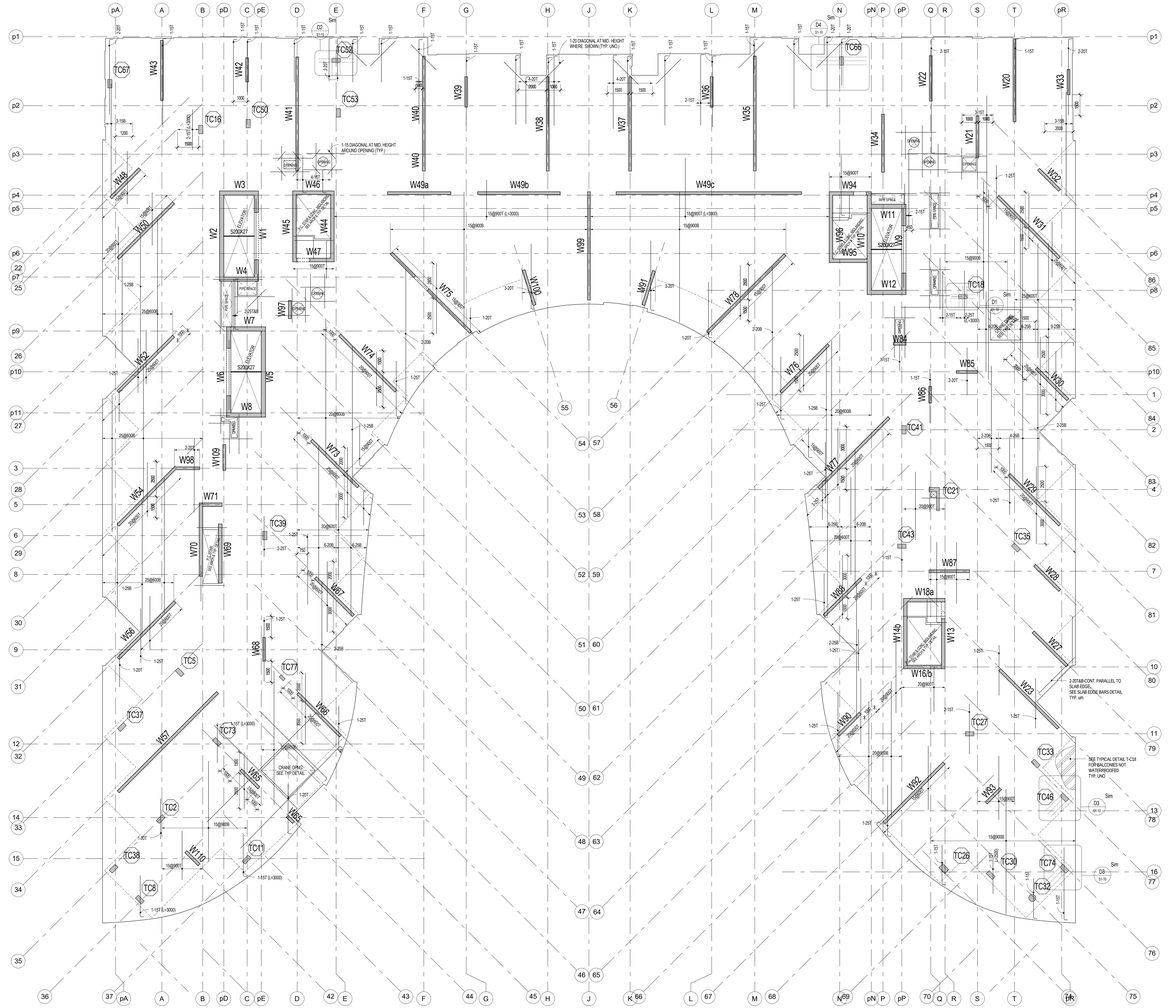
LEVEL 9 FRAMING PLAN - WITH BUL AND TLL

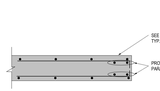
1 : 100



LEVEL 9 FRAMING PLAN - WITH BLL AND TUL

1 : 100





SLAB EDGE BARS DETAIL

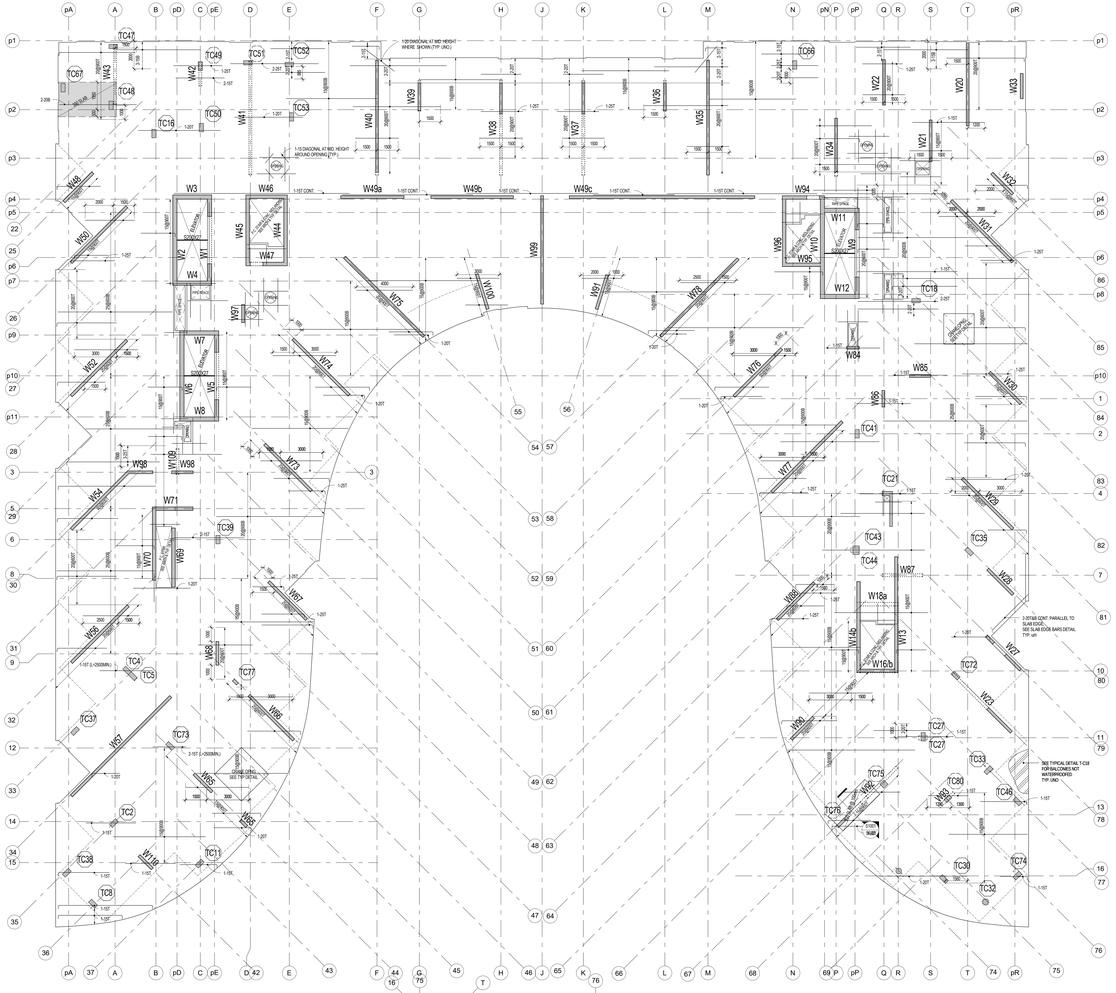
1 : 10

SEE PLAN AND NOTES FOR SLAB REINF. TYP. u/n

PROVIDE 2-20 T&B CONT. BARS PARALLEL TO SLAB EDGE

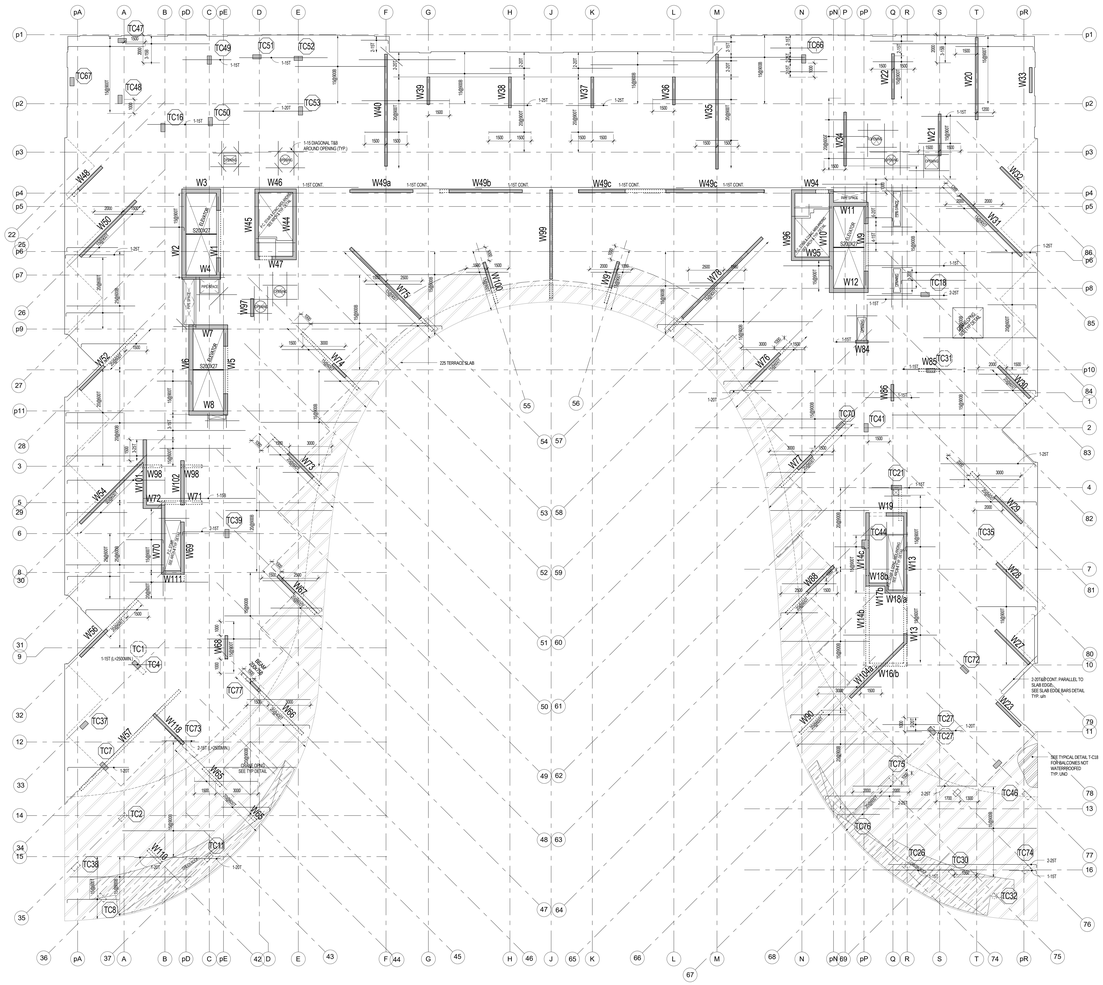
LEVEL 10 FRAMING PLAN - WITH BUL AND TLL

1 : 100



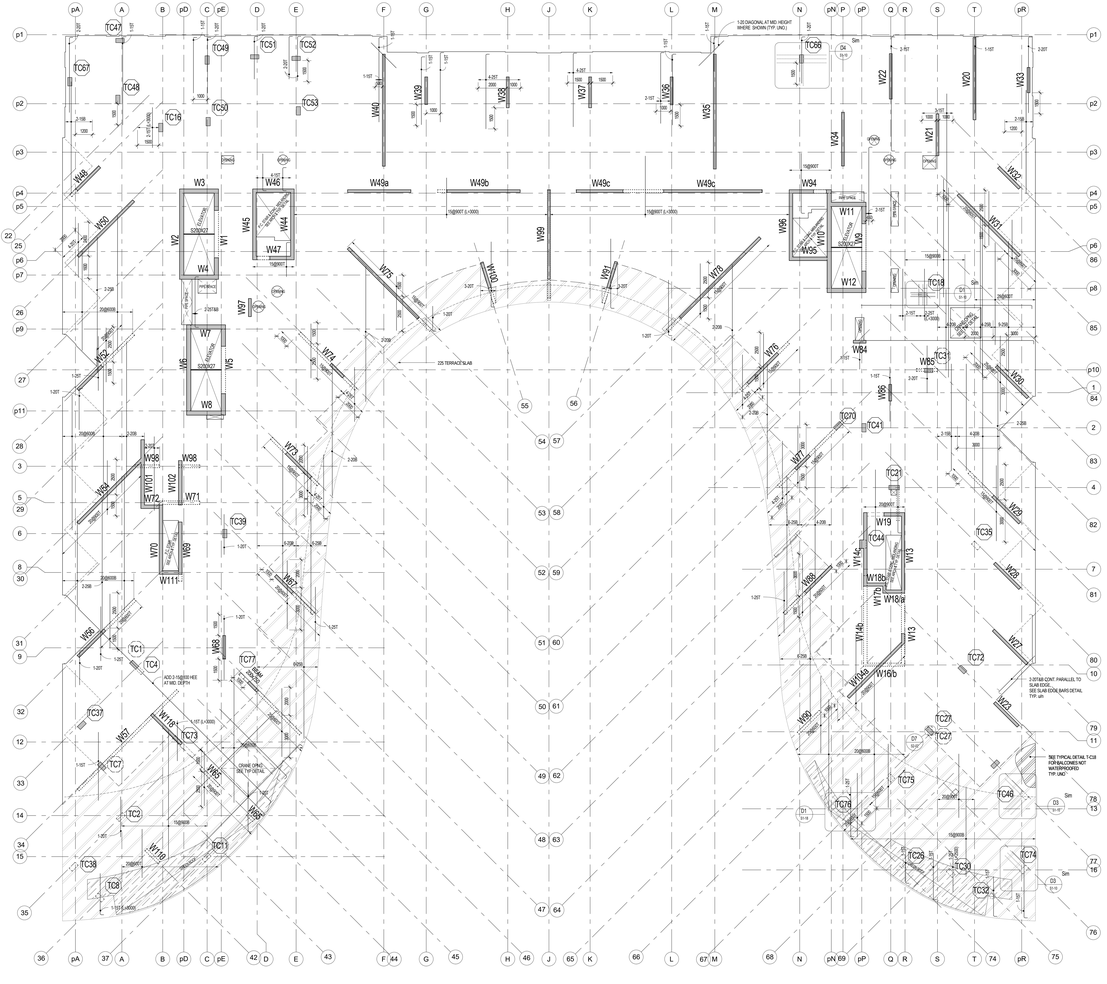
LEVEL 11 FRAMING PLAN - WITH BUL AND TLL

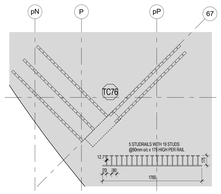
1 : 100



LEVEL 11 FRAMING PLAN WITH BLL AND TUL

1 : 100





SLAB EDGE BARS DETAIL

1 : 10

REINFORCEMENT PLACEMENT DIAGRAM	
SLAB:	300 MIN. u/n
ACCURITY BARS:	1-20M BOM
CONCRETE STRENGTH:	35 MPa
TOMF STEEL:	1kg/sqM TIB ER
TERRACE SLAB:	225 MIN. u/n
ACCURITY BARS:	1-20M BOM
CONCRETE STRENGTH:	35 MPa C1
TOMF STEEL:	1kg/sqM TIB ER

TLL = TOP UPPER LAYER
TLL = TOP LOWER LAYER
BLL = BOTTOM UPPER LAYER
BLL = BOTTOM LOWER LAYER

SEE PLAN FOR ADDITIONAL REINFORCEMENT

NOTES:

1. TOP OF STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED FLOOR DATUM ELEVATION EXCEPT AS CROSSED AND NOTED. SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATION.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT:

	LL	SDL
SUITES	1.9 kPa	1.25 kPa
PATIO	4.8 kPa *	2.0 kPa
CORRIDORS	4.8 kPa	1.5 kPa
BALCONIES	4.8 kPa *	2.1 kPa
MECHANICAL	7.2 kPa	1.5 kPa

* INCLUDES ALLOWANCE FOR SLOPE AND ROOFING MATERIALS
** AN ALLOWANCE FOR SNOW LOAD OF 1.28 kPa HAS BEEN CONSIDERED.
*** INCLUDES ALLOWANCE FOR 0.5 kPa GREEN ROOF DEAD LOAD.

3. CONCRETE COVER FOR TOP AND BOTTOM BARS IN SLABS TO BE 25 mm.
4. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
5. THE CONCRETE CONTRACTOR MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
6. SEE ALSO TYPICAL NOTES AND DETAILS.
7. SEE BEAM AND COLUMN SCHEDULES, WALL ELEVATIONS.
8. PROVIDE CONTINUOUS TEMPERATURE STEEL TOP AND BOTTOM, HOOKED AT EDGE OF SLAB WHERE SLAB EDGE IS EXPOSED, UNLESS NOTED OTHERWISE SHOWN ON PLAN.
9. PROVIDE TLL/TUR ALL SLAB REINFORCEMENT.
10. ADD 2-20TAB CONT. AT PERIMETER BEND BARS TO SUIT SLAB EDGE. SEE SLAB EDGE BARS DETAIL.
11. AREAS NOTED THUS [ ] ON PLAN, INDICATE THICKENED SLAB. SEE PLAN FOR THICKNESS.
12. PROVIDE C1 CONCRETE WHERE EXPOSURE EXISTS.

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Parts Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

PROFESSIONAL ENGINEER — MAY 12,2016 — J. TANSLEY — POWER OF ONTARIO
PROFESSIONAL ENGINEER — MAY 12,2016 — S. BARDHAN GHOSH — POWER OF ONTARIO

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date
9	GREEN ROOF LOAD REVISION	NOV.16.2015

No.	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY.12.2016
7	ISSUED FOR STEEL TENDER	DEC.18.2015
6	BUILDING PERMIT RESUBMISSION	SEPT.21.2015
5	BUILDING PERMIT RESUBMISSION	JULY.22.2015
2	BUILDING PERMIT SUBMISSION	JUNE.12.2015
1	ISSUED FOR MT REVIEW	MAY.01.2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 11 FLOOR FRAMING PLAN

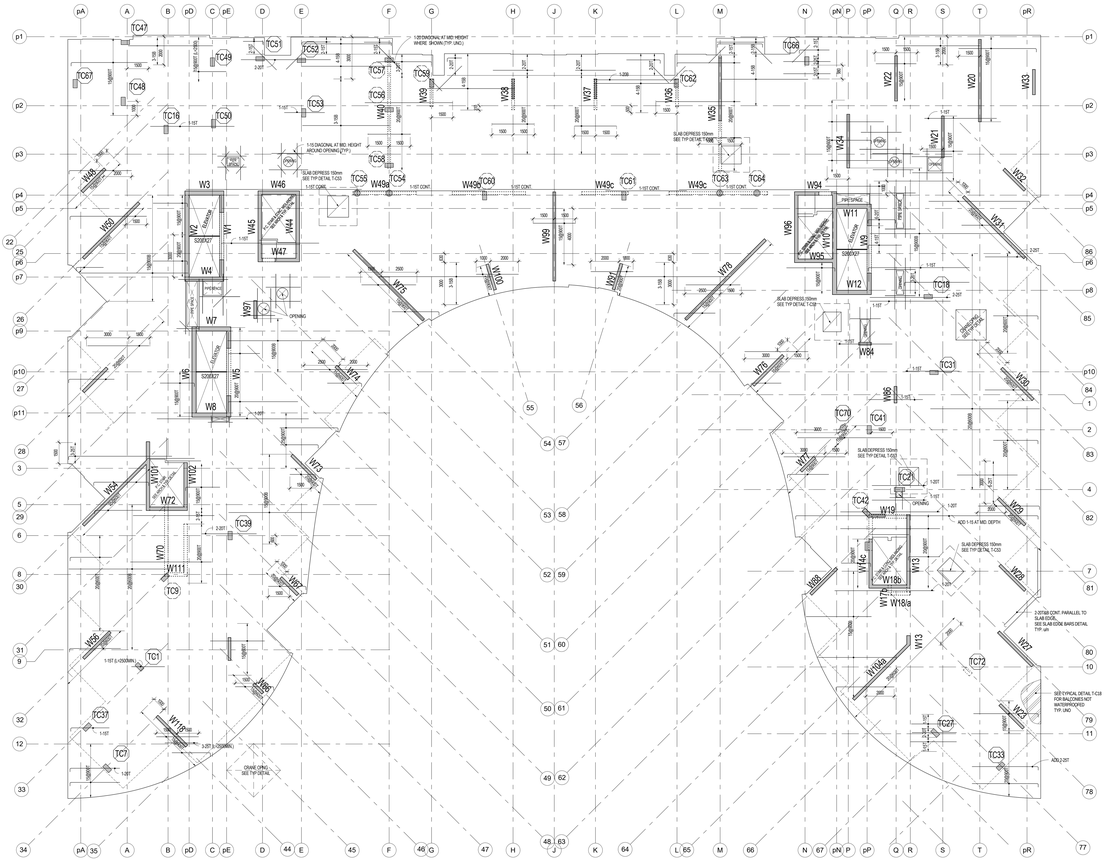
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No.	20140031
Date	MAY.12.2016
Drawing No.	S1-18

Plot Date: 5/12/2016 9:59:47 AM

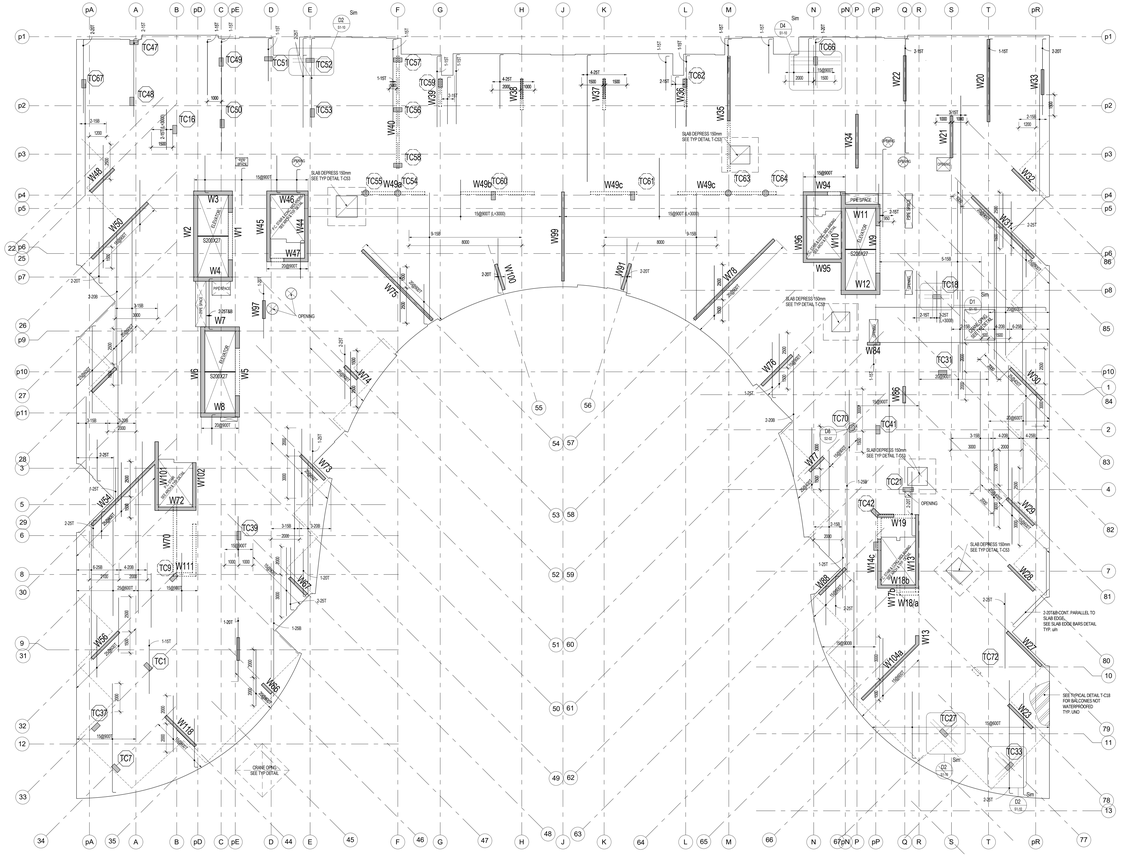
LEVEL 12 FRAMING PLAN - WITH BLL AND TUL

1 : 100



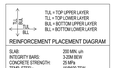
LEVEL 12 FRAMING PLAN - WITH BUL AND TLL

1 : 100



SLAB EDGE BARS DETAIL

1 : 10



REINFORCEMENT PLACEMENT DIAGRAM

SLAB:	200 MIN. u/n
INTEGRITY BARS:	3-20M BOX
CONCRETE STRENGTH:	25 MPa
TEMP. STEEL:	152X305 TEW 152X305 BOX

SEE PLAN FOR ADDITIONAL REINFORCEMENT

NOTES:

1. TOP OF STRUCTURAL SLAB TO BE 0.0 mm BELOW FINISHED FLOOR DATUM ELEVATION EXCEPT AS CROSSED AND NOTED. SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATION.
2. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL) IN ADDITION TO THE SELF WEIGHT:

	LL	SDL
SUITES	1.9 kPa	1.2 kPa
CORRIDORS	4.8 kPa	1.2 kPa
STAIRS/LOBBY	4.8 kPa	0.5 kPa
BALCONIES	4.8 kPa*	0.5 kPa

* INCLUDES ALLOWANCE FOR SLOPES AND ROOFING MATERIALS.

3. CONCRETE CLEAR COVER FOR REBAR (UNO) OF 1.25 kPa HAS BEEN CONSIDERED.
4. CONCRETE COVER FOR TOP AND BOTTOM BARS IN SLABS TO BE 25 mm.
5. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS LOCATED OTHER THOSE SHOWN ON PLAN.
6. THE PROJECT SUPERINTENDENT MUST CONTACT THE OFFICE 24 HOURS PRIOR TO PLACING CONCRETE IN ORDER FOR A REVIEW OF PREPARATIONS.
7. SEE ARCHITECTURAL NOTES AND DETAILS.
8. SEE REAR AND COLUMN SCHEDULES, WALL ELEVATIONS.
9. PROVIDE CONTINUOUS TEMPERATURE STEEL TOP AND BOTTOM, HOOKED AT EDGE OF SLAB AND OPENINGS, IN ADDITION TO REINFORCEMENT SHOWN ON PLAN.
10. PROVIDE TLS FOR ALL SLAB REINFORCEMENT.
11. ADD 2-20TAB CONT. AT PERIMETER BEND BARS TO SUIT SLAB EDGE. SEE SLAB EDGE BARS DETAIL.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Part Is Forbidden Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

PROFESSIONAL ENGINEER — MAY 12,2016 — J. TANASIJEVIC — PROVINCE OF ONTARIO

PROFESSIONAL ENGINEER — MAY 12,2016 — S. BARGHAN SYED — PROVINCE OF ONTARIO

stephenson ENGINEERING

2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
4	BUILDING PERMIT SUBMISSION	JUNE 12,2015
3	ISSUED FOR MT REVIEW	MAY 21,2015

No	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 12 / PH1 FLOOR FRAMING PLAN

Project

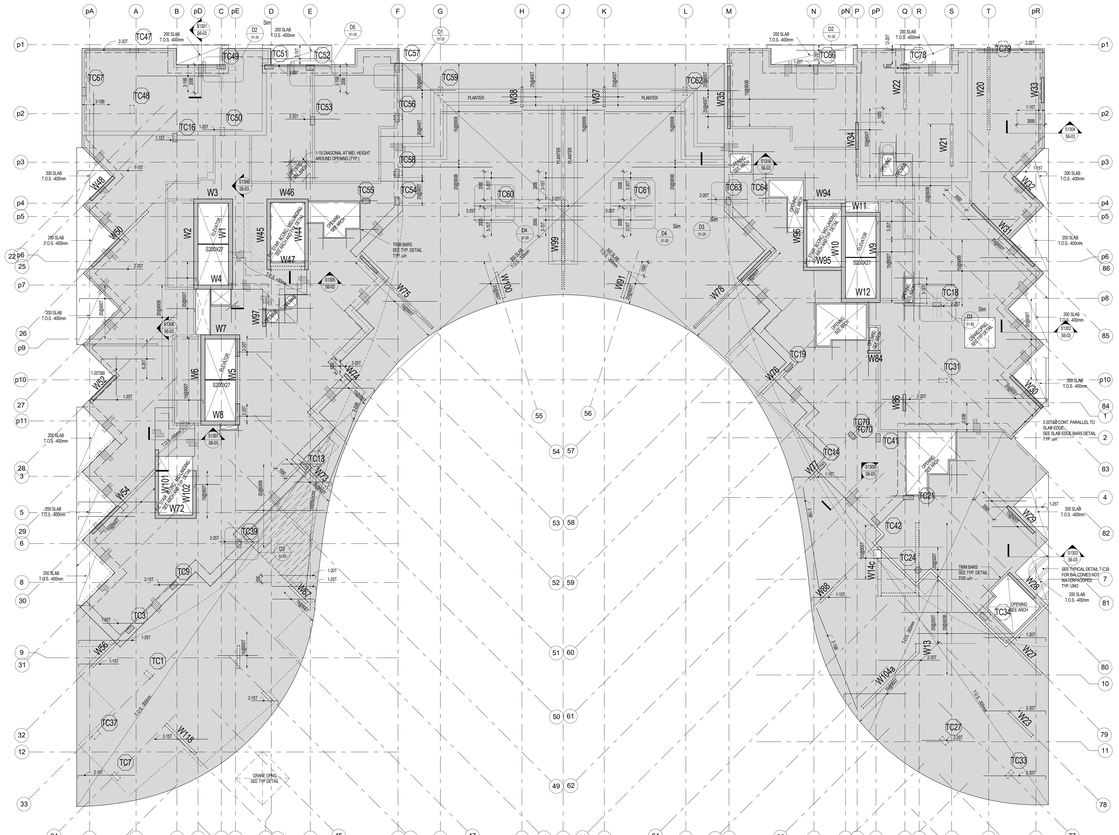
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No.	2014003?
Date	MAY 12,2016
Drawing No.	S1-19

Plot Date: 5/12/2016 9:59:49 AM

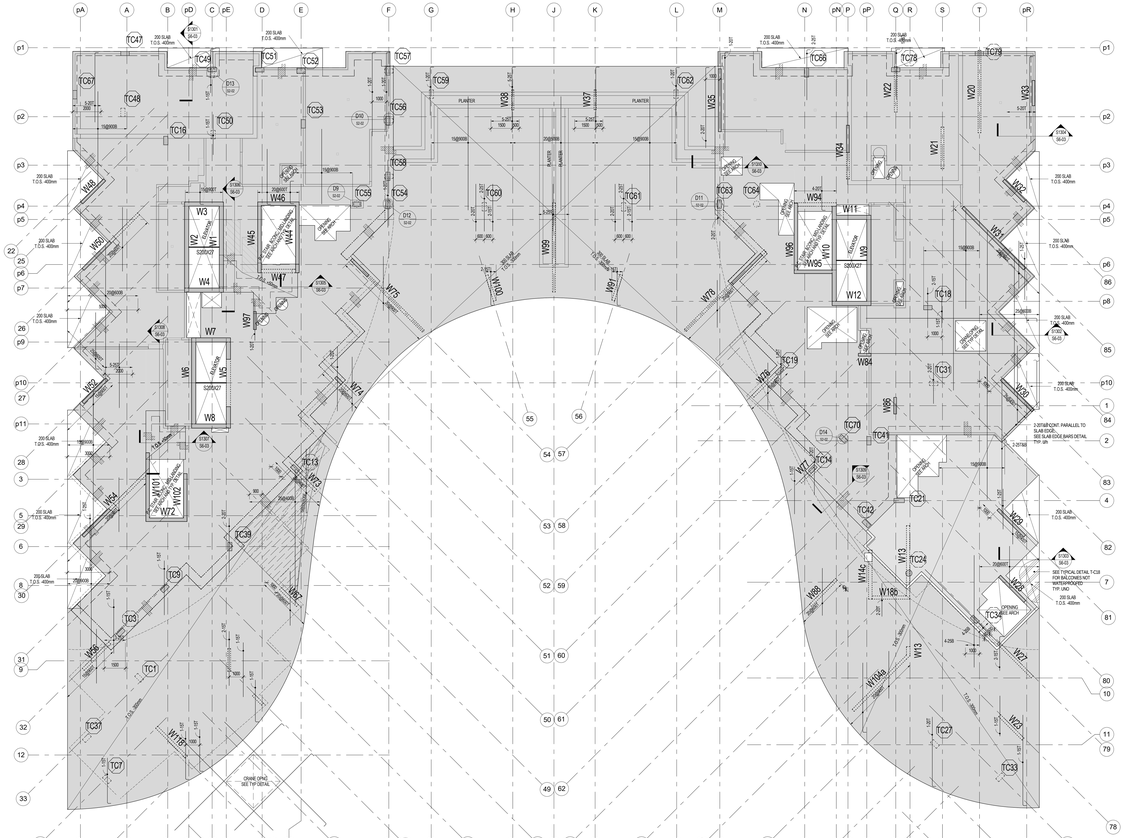
LEVEL 13 FRAMING PLAN - WITH BLL AND TUL

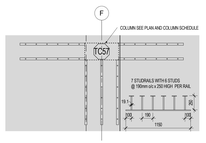
1 : 100



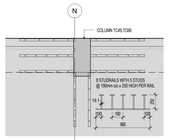
LEVEL 13 FRAMING PLAN - WITH BUL AND TLL

1 : 100

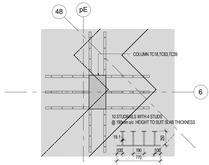




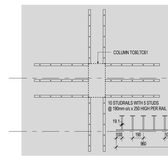
D1 PLAN DETAIL
S1-20 1 : 25



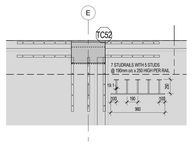
D2 PLAN DETAIL
S1-20 1 : 25



D3 PLAN DETAIL
S1-20 1 : 25

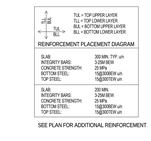


D4 PLAN DETAIL
S1-20 1 : 25



D5 PLAN DETAIL
S1-20 1 : 25

SLAB EDGE BARS DETAIL
1 : 10



SEE PLAN FOR ADDITIONAL REINFORCEMENT

NOTES

1. TOP OF STRUCTURAL SLAB TO BE 0.5 mm BELOW FINISHED FLOOR DATUM ELEVATION WITHIN THE MECHANICAL ROOM AND AT SLAB HIGH POINTS. TOP OF SLAB IS IS DEPED TO DRAINS AS SHOWN ON ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATION.
2. TOP OF STRUCTURAL SLAB TO BE 50.0 mm BELOW FINISHED FLOOR DATUM ELEVATION WITHIN THE MECHANICAL ROOM AND AT SLAB HIGH POINTS. TOP OF SLAB IS IS DEPED TO DRAINS AS SHOWN ON ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATION.
3. THE ROOF SLAB IS TO BE ACHIEVED BY SLOPING THE TOP OF THE SLAB. NOTE THAT THE BOTTOM OF SLAB IS FLAT.
4. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) SUPERIMPOSED DEAD LOADS (SDL) AND SNOW LOADS (S) IN ADDITION TO THE SELF WEIGHT.

	LL	SDL
GENERATOR/COOLING TOWER/MECHANICAL PENTHOUSE	6.0 kPa	2.5 kPa
STAIRS/HALL/LOBBY	4.8 kPa	2.5 kPa
PENTHOUSE SUITES	1.9 kPa	1.25 kPa
ROOF DECK*	4.8kPa*	2.5 kPa
GREEN ROOF*	4.8kPa*	11 kPa
PLANTERS	1.15kPa	20 kPa*
MECHANICAL/ELECTRICAL ROOM	3.6 kPa	2.5 kPa
TERRACE	4.8 kPa**	6.0 kPa*

* INCLUDES ALLOWANCE FOR SLOPES AND ROOFING MATERIALS
** 4% ALLOWANCE FOR SNOW LOAD OF 1.15 kPa HAS BEEN CONSIDERED.
SEE PLAN FOR ADDITIONAL SNOW LOAD
*** 4% ALLOWANCE FOR 0.9% GREEN ROOF DEAD LOAD

5. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 35MPa REFER ALSO TO WALL SCHEDULE.
6. CONCRETE COVER FOR TOP AND BOTTOM BARS IN SLABS TO BE 25 mm.
7. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
8. THE PROJECT ENVIRONMENT MUST CONTACT THE SITE FOR 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
9. SEE TYPICAL DETAIL DRAWING FOR UNTIES IN NON-LOAD BEARING BLOCK WALLS.
10. SEE COLUMN AND BEAM SCHEDULES, WALL ELEVATIONS.
11. SEE ALSO TYPICAL NOTES AND DETAILS.
12. SEE ARCHITECTURAL DRAWINGS FOR EXTENT, SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. REINFORCE ALL RE'S TYPICAL DETAIL
13. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR LOCATION, EXTENT AND SIZE OF HOUSEKEEPING PADS. REINFORCE PADS WITH 6M# 102x102 MW1.5xMW1.5 PLUS 10M @ 460 ON CENTRE DOWELS x 300 LONG
14. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR LOCATION, EXTENT AND SIZE OF FLOATING FLOOR. REINFORCE SLABS WITH 15M@300 EW (CL EPOXY COATED)
15. PROVIDE TLS FOR ALL SLAB REINFORCEMENT
16. PROVIDE CONTINUOUS TEMPERATURE STEEL TOP AND BOTTOM, HOOKED AT EDGE OF SLAB AND OPENINGS, IN ADDITION TO REINFORCEMENT SHOWN ON PLAN.
17. ADD 2-20TAB CONT. AT PERIMETER BEND BARS TO SUIT SLAB EDGE. SEE SLAB EDGE BARS DETAIL.

REINFORCEMENT PLACEMENT DIAGRAM

TUL = TOP UPPER LAYER
TLL = TOP LOWER LAYER
BUL = BOTTOM UPPER LAYER
BLL = BOTTOM LOWER LAYER

SLAB:	300 MIN. TYP. u/n
INTEGRITY BARS:	3-25M BEW
CONCRETE STRENGTH:	35 MPa
BOTTOM STEEL:	15@300TEW u/n
TOP STEEL:	15@300TEW u/n
SLAB:	200 MIN.
INTEGRITY BARS:	3-25M BEW
CONCRETE STRENGTH:	35 MPa
BOTTOM STEEL:	15@300TEW u/n
TOP STEEL:	15@300TEW u/n

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

7 TANSLEY
MAY 12,2016
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

2 SARDANA SYED
MAY 12,2016
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

stephenson ENGINEERING
2500 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 | Tel.(416) 495 7676
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date
9	GREEN ROOF LOAD REVISION	NOV.16,2015

8	BUILDING PERMIT RESUBMISSION	MAY.12,2016
7	ISSUED FOR STEEL TENDER	DEC.18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT.21,2015
5	BUILDING PERMIT RESUBMISSION	JULY.22,2015
2	BUILDING PERMIT SUBMISSION	JUNE.12,2015
1	ISSUED FOR MT REVIEW	MAY.01,2015

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 13/PH2/ MECH. FLOOR FRAMING PLAN

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale
As indicated

Drawn by
DC

Checked by
IA/BBS

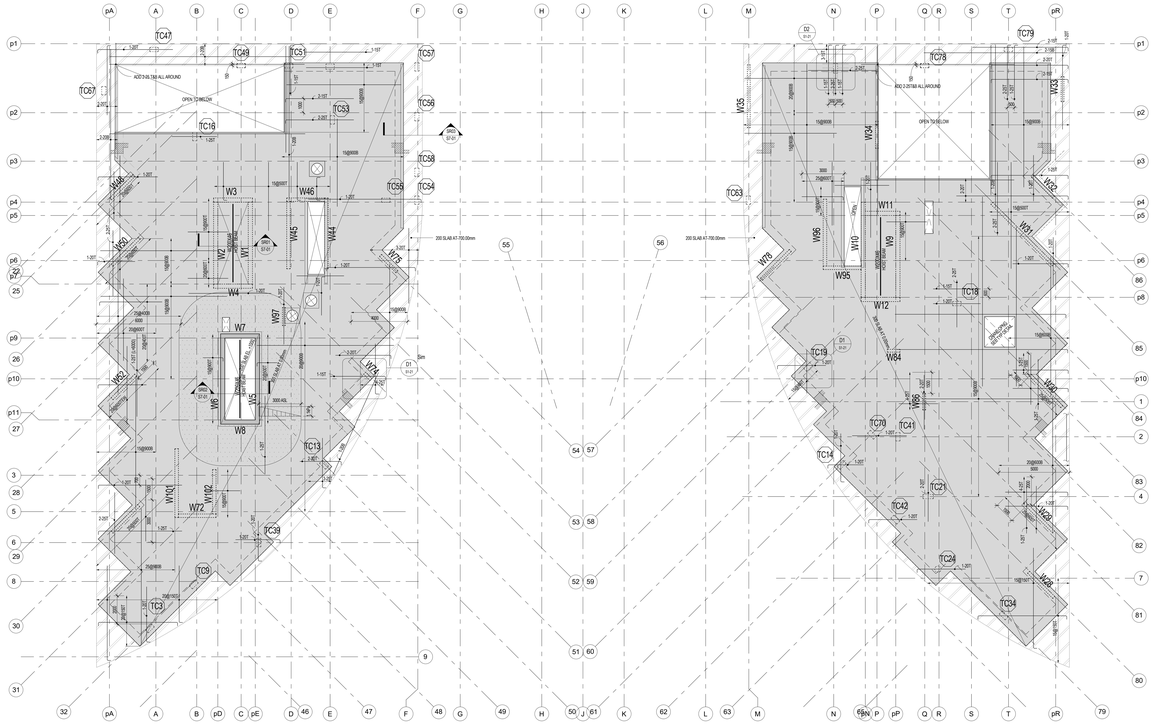
Project No.
20140031

Date
MAY.12.2016

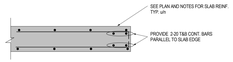
Drawing No.
S1-20

Plot Date: 5/12/2016 10:00:01 AM

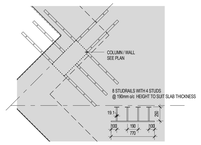
LEVEL 14 FRAMING PLAN
1 : 100



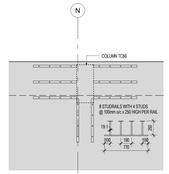
SLAB EDGE BARS DETAIL
1 : 10



D1 PLAN DETAIL
S1-21 1 : 25



D2 PLAN DETAIL
S1-21 1 : 25



1. TOP OF STRUCTURAL SLAB TO BE 0.0 mm ABOVE ROOF DATUM ELEVATION EXCEPT AS CROSSED AND NOTED AND AS SLOPED TO DRAINS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DATUM ELEVATION.
2. ROOF DRAINAGE SLOPES ARE TO BE ACHIEVED BY SLOPING THE TOP OF THE SLAB. NOTE THAT THE SOFFIT OF SLAB IS FLAT.
3. THE STRUCTURAL SLAB HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (LL) AND SUPERIMPOSED DEAD LOADS (SDL), AND SNOW LOADS (S) IN ADDITION TO THE SELF WEIGHT.

	LL	SDL
ROOF AREA	1.12 kPa=AL	2.2 kPa *
GREEN ROOF **	1.12 kPa=AL	1.5 kPa*
PLYWELL ROOF	1.12 kPa=AL	1.5 kPa*

* INCLUDES ALLOWANCE FOR SLOPES AND ROOFING MATERIALS
** INCLUDES ALLOWANCE FOR 0.2 kPa GREEN ROOF DEAD LOAD.

4. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa AT 28 DAYS. REFER ALSO TO COLUMN AND WALL ELEVATION DRAWINGS.
5. PROVIDE CLOSED TIES AROUND BOTTOM BARS IN SLABS TO BE 25 mm. REINFORCING TO BE CHAIRED TO MINIMUM PROPER COVER.
6. APPROVAL MUST BE OBTAINED FROM ENGINEER FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON PLAN.
7. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING CONCRETE TO ARRANGE FOR REVIEW OF CONDITIONS.
8. SEE ALSO TYPICAL NOTES AND DETAIL DRAWINGS.
9. REFER TO BEAM AND COLUMN SCHEDULES, WALL ELEVATIONS.
10. PROVIDE CONTINUOUS TEMPERATURE STEEL TOP AND BOTTOM, HOOKED AT EDGE OF SLAB AND OPENINGS, IN ADDITION TO REINFORCEMENT SHOWN ON PLAN.
11. PROVIDE TLS FOR ALL SLAB REINFORCEMENT.
12. ADD 2-20TB6 CONT. AT PERIMETER BEND BARS TO SUIT SLAB EDGE. SEE SLAB EDGE BARS DETAIL.

TLL = TOP LOWER LAYER
TUL = TOP UNDER LAYER
BUL = BOTTOM UPPER LAYER
BLL = BOTTOM LOWER LAYER

REINFORCEMENT PLACEMENT DIAGRAM

SLAB	300 MN
INTEGRITY BARS:	3-20M BEW
CONCRETE STRENGTH:	25 MPa
BOTTOM STEEL:	15@400EW u/n
TOP STEEL:	15@400EW u/n
SLAB	300 MN BALCONY
INTEGRITY BARS:	3-20M BEW
CONCRETE STRENGTH:	25 MPa
BOTTOM STEEL:	15@400EW u/n
TOP STEEL:	15@400TOP u/n

SEE PLAN FOR ADDITIONAL REINFORCEMENT

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Whole Or Part Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 7676
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date
9	GREEN ROOF LOAD REVISION	NOV 16,2015
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR WT REVIEW	MAY 01,2015

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
ROOF FRAMING PLANS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale
As indicated

Drawn by
DC

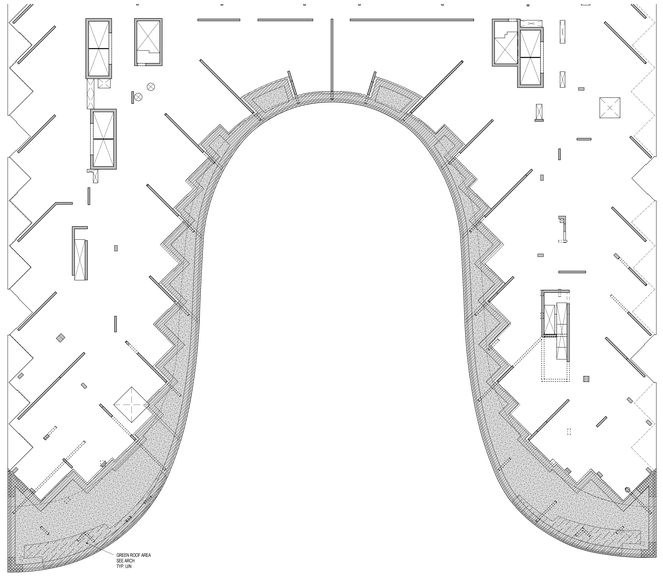
Checked by
IA/BBS

Project No.
20140031

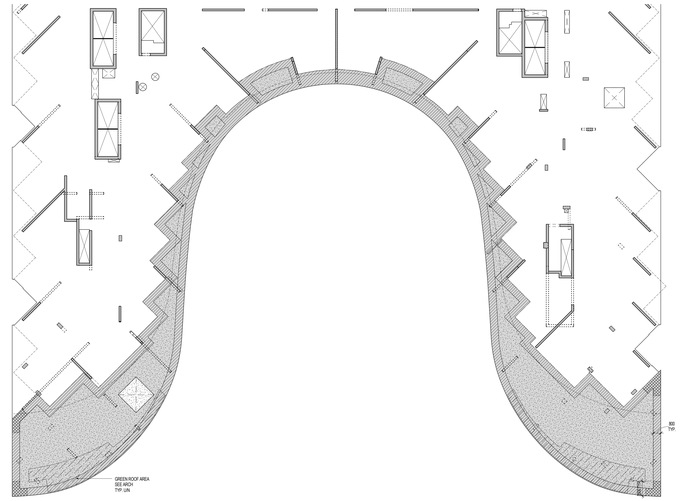
Date
MAY 12,2016

Drawing No.
S1-21

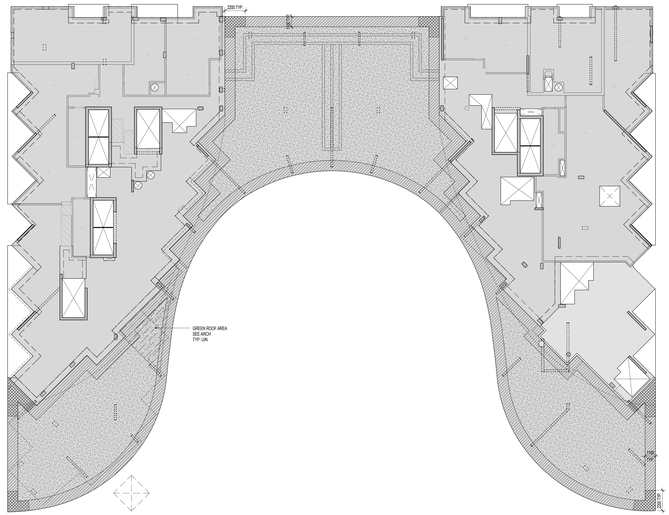
Plot Date: 5/12/2016 10:00:09 AM



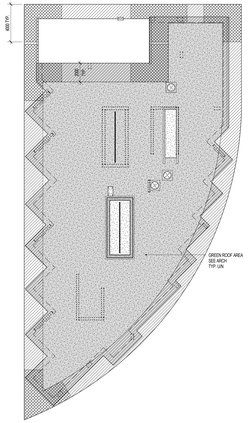
LEVEL 7 WIND UPLIFT PLAN
1 : 150



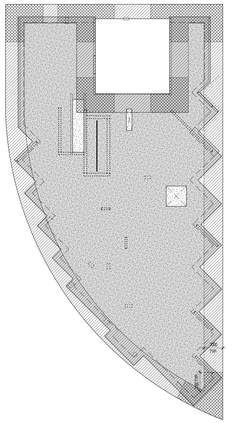
LEVEL 11 WIND UPLIFT PLAN
1 : 150



LEVEL 13 WIND UPLIFT PLAN
1 : 150



ROOF WIND UPLIFT PLAN
1 : 150



LEGEND:

1. LOADS NOTED ARE UNFACTORED WIND UPLIFT VALUES.

- 1.04 kPa
- 2.34 kPa
- 3.44 kPa

NOTE, REFER TO ARCH FOR GREEN ROOF EXTENT(TYP.)

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Nor Is It Lendable Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed ByThe Architect.

Date

stephenson
ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.(416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

No	Issued For	Date
6	BUILDING PERMIT RESUBMISSION	MAY 12,2016

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
WIND UPLIFT PLAN

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale
As indicated
Drawn by
Author
Checked by
Checker
Project No.
20140031
Date
MAY 12,2016
Drawing No.
S1-22

Plot Date: 5/12/2016 10:00:28 AM

CONCRETE COLUMN SCHEDULE (LEVEL 2 AND BELOW)

| COLUMN NUMBER | | | | GC1 | GC2 | GC3 | GC4 | GC5 | GC6 | GC7 | GC8 | GC10 | GC11 | GC12 | GC13 | GC14 | GC15 | GC18 | GC17 | GC18 | GC19 | GC21 | GC22 | GC23 | GC25 | GC24 | GC44 | GC28 | GC29 | GC30 | | | |

CONCRETE COLUMN SCHEDULE (LEVEL 2 ABOVE)

| | TC1 | TC2 | TC3 | TC4 | TC5 | TC6 | TC7 | TC8 | TC9 | TC10 | TC11 | TC12 | TC13 | TC14 | TC15 | TC16 | TC17 | TC18 | TC19 | TC20 | TC21 | TC23 | TC75 | TC24 | TC25 | TC26 | TC27 | TC30 | TC31 | TC32 | TC34 | TC35 | TC33 | TC36 | TC37 | TC38 | TC39 | TC41 | TC42 | TC43 | TC45 | TC44 | TC46 | TC47 | TC48 | TC50 | TC49 | TC51 | TC52 | TC53 | TC54 | TC55 | TC56 | TC57 | TC58 | TC59 | TC60 | TC61 | TC62 | TC63 | TC64 | TC65 | TC67 | TC68 | TC66 | TC70 | TC71 | TC72 | TC73 | TC74 | TC77 | TC78 | TC79 | TC80 | |
|---|---|---

LEVEL 1 BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS						TOP BARS						STIRRUPS			REMARKS
		No.	T1	T2				No.	T1	T2				T1	T2	T3	
BM01	2000X1250/1500/1500	12	35		BLL			6	30		TLL			15		10@100 RE	TRIPLES
		10	15		SHEF			5	35		TLA	2000		15		@300 REM	DOUBLES
								5	35		2000	TLA					
BM02	2000X1500	22	35		BLL			9	30		2600	TLA		15		@125	FIVE SETS
		22	35		BLA			6	35		1400	TLL					
		10	15		SHEF			12	30			TLA	3600	4900			
								8	35			TLA	2000	2000			
								6	30			TLL	2000	2000			
BM03	2000X1500	12	35		BLL			12	30	FROM BM02		TLA		15		5@125 RE	TRIPLES
		12	35		BLA			8	35	FROM BM02		TLA		15		6@100 LE	TRIPLES
		10	15		SHEF			6	30	FROM BM02		TLL		15		@300 REM	DOUBLES
								8	30			TLA	2600				
								9	35			TLA	2000				
BM04	2000X1500	22	35		BLL			6	35		2600	TLA		15		@100	FIVE SETS
		12	35		BLA			7	35		1400	TLA					
		12	15		SHEF			12	35			TLA	3400	4300			
								5	35			TLA	2000	2000			
								5	35			TLL	2000	2000			
BM05	2000X1850	14	35		BLL			12	35	FROM BM04		TLA		15		10@100 RE	FIVE SETS
		14	35		BLA			5	35	FROM BM04		TLA		15		@200 REM	FIVE SETS
		16	15		SHEF			5	35	FROM BM04		TLL					
								5	35			TLA	4000				
								5	35			TLL	2700				
BM06	2000X800	6	35		BLL			6	35		TLA		1	15		@125	FOUR SETS
		12	30		BLL			3	30		TLA		1				
		16	35		BLA												
		4	15		SHEF												
BM07	2000X1500	7	30		BLL			6	30		3700	TLA		10		@300	TRIPLES
		12	15		SHEF			8	30			TLA	3300	4000			
								7	30			TLL	2200	2200			
BM08	2000X1000/1500	16	30		BLL			8	30	FROM BM07		TOL		10		5@125 LE	TRIPLES
		12	15		SHEF			7	30	FROM BM03		TLL		10		@300 REM	TRIPLES
								17	35			TLA	4000	4300			
								17	35			TLL	2000	2200			
BM09	2000X1500	19	35		BLL			17	35	FROM BM08		TOL		15		@100	FIVE SETS
		14	35		BLA			17	35	FROM BM08		TLL					
		12	15		SHEF			11	35			TLA	4300	3100			
								8	35			TLL	2000	2200			
BM10	2000X1100	15	35		BLL			11	35	FROM BM08		TOL		10		@300	TRIPLES
		8	15		SHEF			8	35	FROM BM09		TLL					
								6	35			TLA	3100	3100			
								5	35			TLL	1400	1400			
BM11	2000X1100	6	25		BLL			6	35	FROM BM09		TLA		10		@300	TRIPLES
		8	15		SHEF			5	35	FROM BM10		TLL					
								7	35			TLA	3100	4300			
								7	30			TLL	2000	2200			
BM12	2000X1100	10	30		BLL			7	35	FROM BM10		TLA		10		8@200 RE	TRIPLES
		10	30		BLA			7	30	FROM BM11		TLL		10		10@150 LE	TRIPLES
		8	15		SHEF			8	35			TLA	4300	3700	10	@300 REM	TRIPLES
								7	30			TLL	2000	2200			
BM13	2000X1100	10	30		BLL			8	35	FROM BM12		TOL		10		@300	TRIPLES
		10	30		BLA			7	30	FROM BM12		TLL					
		8	15		SHEF			9	35			TLA	2600				
BM14	2000X1500	18	35		BLL			6	35		2600	TLA		15		5@100 RE	FIVE SETS
		14	35		BLL			5	35		1400	TLA		15		@200 REM	TRIPLES
		10	15		SHEF			16	35			TLA	3400	4900			
								9	35			TLL	2000	2000			
BM15	2000X1500	16	35		BLL			16	35	FROM BM12		TOL		15		10@100 RE	FIVE SETS
		12	35		BLA			9	35	FROM BM13		TLL		15		@300 REM	TRIPLES
		12	15		SHEF			12	35			TLA	3600				
								8	35			TLL	2000				
BM16	2000X1500	15	35		BLL			12	30		4100	TLA		15		@150	FOUR SETS
		11	30		BLA			10	25		2000	TLA					
		12	15		SHEF			15	35			TLA	4100	4400			
								12	35			TLL	2200	2100			

LEVEL 1 BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS						TOP BARS						STIRRUPS			REMARKS
		No.	T1	T2				No.	T1	T2				T1	T2	T3	
BM17	2000X1000	15	35		BLL			15	35	FROM BM16		TOL		15		8@100 LE	FOUR SETS
		11	30		BLA			12	35	FROM BM16		TLL		15		@150 REM	TRIPLES
		12	15		SHEF			15	35			TLA	4400	3100			
								12	35			TLL	2100	2100			
BM18	2000X1100	13	30		BLL			15	35	FROM BM17		TOL		10		@200	DOUBLES
		8	15		SHEF			12	35	FROM BM17		TLL					
								8	30			TLA	3000	3100			
								7	30			TLL	1400	1400			
BM19	2000X1100	10	30		BLL			8	30	FROM BM18		TOL		10		@200	DOUBLES
		8	15		SHEF			7	30	FROM BM18		TLL					
								9	35			TLA	3100	4300			
								8	30			TLL	1400	1400			
BM20	2000X1100	10	35		BLL			9	35	FROM BM19		TOL		10		25@150 LE	TRIPLES
		10	30		BLA			8	30	FROM BM19		TLL		10		@200 REM	TRIPLES
		8	15		SHEF			10	35			TLA	FROM BM21				
								6	30			TLL	FROM BM21				
BM21	2000X1100	6	25		BLL			10	35	4200		TLA		5800	10	@200	DOUBLES
		8	15		SHEF			6	30	1600		TLL		2800			
BM22	2000X1100	18	35		BLL			10	35	FROM BM23		TOL		15		25@125 RE	TRIPLES
		10	30		BLA			6	30	FROM BM23		TLL		15		25@125 LE	TRIPLES
		8	15		SHEF			10	35			TLA	4800	15		@200 REM	TRIPLES
								4	30			TLL	2700				
BM23	2000X1970/1500	20	35		BLL			7	35		4400	TLA		15		25@125 RE	DOUBLES
		17	35		BLA			5	30		2500	TLL		15		5@200 LE	DOUBLES
		10	15		SHEF			12	35			TLA	6400	5000	15	@300 REM	DOUBLES
								4	30			TLL	2800	2800			
BM24	2000X900	8	25		BLL			12	35	FROM BM23		TOL		15		5@200 RE	DOUBLES
		8	15		SHEF					DELETED				15		5@200 LE	DOUBLES
														15		@300 REM	DOUBLES
BM25	2000X1000	12	35		BLL			9	30		5000	TLA		10		15@200 RE	TRIPLES
		12	15		SHEF			12	35			TLA	4800	7200	10	10@200 LE	TRIPLES
								10	30			TLL	3000	3000	10	@300 REM	TRIPLES
BM26	2000X1000	14	35		BLL			12	35	FROM BM25		TOL		10		30@150 RE	TRIPLES
		10	30		BLA			10	30	FROM BM25		TLL		10		7@200 LE	TRIPLES
		10	15		SHEF			12	35			TLA	4800	4400	10	@300 REM	TRIPLES
								10	30			TLL	2300	2300			
BM27	2000X1100	13	35		BLL			12	35	FROM BM25		TOL		10		7@200 RE	TRIPLES
		8	15		SHEF			10	30	FROM BM26		TLL		10		7@200 LE	TRIPLES
								8	35			TLA	4800	4400	10	@300 REM	TRIPLES
								8	30			TLL	2300	2300			
BM28	2000X1100	15	35		BLL			8	35	FROM BM27		TOL		10		40@100 RE	TRIPLES
		8	15		SHEF			8	30	FROM BM27		TLL		10		7@200 LE	TRIPLES
								8	35			TLA	4800	10		@300 REM	TRIPLES
								8	30			TLL	2300				
BM29	4000X900	5	20		BLL			3	25		5000	TLA		10		@300	
		8	15		SHEF			2	15		2300	TLA					
								2	15		2300	TLL					
								3	25			TLA	5100	6800			
								2	25			TLA	2300	3200			
								5	25			TLL	2300	3200			
BM29A	4000X900	3	20		BLL			3	25	FROM BM29		TLA		10		@300	
		8	15		SHEF			2	15	FROM BM29		TLA					
								5	25	FROM BM29		TLL					
BM30	4000X900	3	20		BLL			3	25	FROM BM29		TLA		10		@300	
		2	25		BLL			2	25	FROM BM29		TLA					
		8	15		SHEF			5	25	FROM BM29		TLL					
								3	25		6800	TLA					
								3	25			TLA	4300	5100			
								2	25			TLA	3300	3800			
								5	25			TLL	3300	3800			
BM29A	4000X900	3	20		BLL			3	25	FROM BM29		TLA		10		@300	
		8	15		SHEF			2	25	FROM BM29		TLA					
								5	25	FROM BM29		TLL					

LEVEL 1 BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS						TOP BARS						STIRRUPS			REMARKS
		No.	T1	T2				No.	T1	T2				T1	T2	T3	
BM31	4000X950	3	20		BLL			3	25	FROM BM30		TLA		10		@300	
		2	25		BLA			2	25	FROM BM30		TLA					
		8	15		SHEF			5	25	FROM BM30		TLL					
								3	25		5200	TLA		7000			
								2	25		2700	TLA		5000			
								5	25		2700	TLL		5000			
BM31A	4000X950	3	20		BLL			3	25	FROM BM31		TLA		10		@300	
		8	15		SHEF			2	25	FROM BM31		TLA					
								5	25	FROM BM31		TLL					
BM32	4000X950	5	20		BLL			3	25	FROM BM31		TLA		10		@300	
		2	15		BLA			2	25	FROM BM31		TLA					
		8	15		SHEF			5	25	FROM BM31		TLL					
								3	25		6100	TLA					
								2	20		2500	TLA					
								2	20		2500	TLL					

LEVEL 2 BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS						TOP BARS						STIRRUPS			REMARKS
		No.	T1	T2				No.	T1	T2				T1	T2	T3	
BM01	700X900	6	45		BLL			6	25		5000	TLA		10		@125	IN TRIPLES
								6	45			TLA	3400	3100			
								6	45			TML	1350	1350			
								2	45			TLL	1350	1350			
BM02	1100X900	8	35		BLL			6	45			FROM BM01					
		8	30		BLA			6	45			FROM BM01					
								2	45			FROM BM01					
								5	45			TLA	2000	2850			
								3	45			TLA	1900	1500			
								3	45			TLL	1900	1900			
BM03	1100X900	8	30		BLL			5	45			FROM BM02		10		@150	IN DOUBLES
								3	45			FROM BM02					
								8	45			FROM BM02					
								5	45			TLA	2800	4200			
								3	45			TLA	1900	1900			
								3	45			TLL	1900	1900			
BM04	1100X900	8	35		BLL			5	45			FROM BM03		15		@100	IN TRIPLES
		8	30		BLA			3	45			FROM BM03					
								8	45			FROM BM03					
								5	45			TLA	4400	5400			
								3	45			TLA	2250	2250			
								8	45			TLL	2250	2250			
BM05	1600X900	5	35		BLL			5	45			FROM BM04		15		@100	IN TRIPLES
		5	30		BLL			3	45			FROM BM04					
		8	30		BLA			8	45			FROM BM04					
								4	35			TLA	3800				
								6	35			TLL	2250				
BM06	1600x900	7	35		BLL			7	30		7800	TLA		15		15@75RE	IN FOUR SETS
		10	30		BLA			6	35		2300	TLA		15		@300REM	IN DOUBLES
		8	30		BLA			18	30			TLA	3600				
								16	35			TLL	2200				
BM07	700X900	7	30		BLL			7	25	1500		TLA		1500	15	10@75LE	IN TRIPLES
		4	30		BLA			7	30			TLL			15	@100REM	IN TRIPLES
BM08	800X900	2	25		BLL			3	25		3100	TLA			10	@100	IN DOUBLES
		2	20		BLA			5	30			TLA	2900	3600			
								2	35			TLA	1700	1700			
								4	30			TLL	1700	1700			
BM09	800X900	8	35		BLL			5	30			FROM BM08		15		@150	IN TRIPLES
		8	35		BLA			2	35			FROM BM08					
								4	30			FROM BM08					
								4	35			TLA	4500	1			
								2	25			TLL	1900	1			
BM10	1200X900	6	35		BLL			4	35		3000	TLA			10	@100	IN TRIPLES
		4	30		BLA			2	35		2300	TLA					
								6	30			TLA	3900	2200			
								4	35			TLA	2300	1000			
								4	30			TLL	2300	1000			
BM11	1200X900	7	30		BLL			6	30			FROM BM10		10		@150	IN TRIPLES
								4	35			FROM BM10					
								4	30			FROM BM10					
								5	30			TLA	1800	1			
								2	30			TLL	1900	1			
BM12	1000X900	9	45		BLL			9	45	5000		TLA		1000	15	@150	IN FOUR SETS
		9	45		BLA			5	30	1000	2500	TLL		3500			
								5	35		1900	TLL		1900			
BM13	1000X900	9	45		BLL			9	45	2000		TLA			15	@100	IN FOUR SETS
		6	35		BLA			9	45	2000	2000	TLL					
BM14&BM216	1600X1000/850	10	30		BLL			6	30		4000	TLA			10	15@140RE	IN DOUBLES
								4	30		2300	TLA			10	15@140LE	IN TRIPLES
								8	30			TLA	5600	5600	10	@140REM	
								5	35			TLA	2300	2300			
								4	30			TLL	2300	2300			
BM15/BM217	1600X850/1500	10	30		BLL			8	30			FROM BM14/BM216		10		15@140LE	IN TRIPLES
								5	30			FROM BM14/BM216		10		15@140RE	IN DOUBLES
								4	30			FROM BM14/BM216		10		@140REM	
								6	30			TLA	4000	1			
								4	30			TLA	2300	1			
BM16	520X1500	6	30		BLL			3	30		7000	TLL		15		16@100 RE	IN DOUBLES
		4	30		BLA			2	35		2500	TLA		15		14@125 LE	
		10	15		SHEF			4	25		2500	TLL		15		@300 REM	
								3	30			TLL	5500	5500			
								3	30			TLA	2500	2500			
								6	30			TLL	2500	3500			
BM16a	520X1500	6	30					3	30			FROM BM16		10		@200	
		10	15		SHEF			3	30			FROM BM16					
								6	30			FROM BM16					

LEVEL 2 BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS						TOP BARS						STIRRUPS			REMARKS
		No.	T1	T2				No.	T1	T2				T1	T2	T3	
BM19	520X1500	6	30		BLL			3	30			TLA		15		@300	
		8	25		BLA			3	30			FROM BM18					
		10	15		SHEF			6	30			FROM BM18					
								3	30		4600	TLA					
								2	30		2300	TLA					
								7	25		2300	TLL					
BM22/BM225	600X1200	3	25		BLL			2	30			FROM BM22/BM224		10		@300	
		8	15		SHEF			2	30			FROM BM22/BM224					
								2	15			FROM BM22/BM224					
								2	15		4000	TLA					
BM22	1500X550	5	30		BLL			7	30		3400			10		15@125LE	IN DOUBLES
		6	35		BLL			2	30		1900			10		30@75RE	IN DOUBLES
								7	30			TLA	4600	3500	10	@175REM	IN DOUBLES
								4	35			TLA	1900	1900			
								3	35			TLL	1900	1900			
BM23	1500X550	7	30		BLL			7	30			FROM BM22		10		11@75LE	
								4	35			FROM BM22		10		@150REM	
								3	35			FROM BM22					
								4	30			TLA	2700				
								2	30			TLA	1500				
BM26	700X1300	5	30		CONT. BLL			9	20			CONT. TLA		10		@300	
		12	15		SHEF												
BM27	1000X600	8	35		BLL			8	35			TLA		15		@150	IN DOUBLES
		8	30		BLA			8	30			TLA					
		10	15		SHEF												

PARKING LEVEL BEAM SCHEDULE

BEAM NUMBER	SIZE	BOTTOM BARS						TOP BARS						STIRRUPS			REMARKS
		No.	T1	T2				No.	T1	T2				T1	T2	T3	
BMP-01	600X400	5	15		BLL			5	15			TLA		10		@200	
		5	15		BLA			5	15			TLL					

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Prohibited In Whole Or Part Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING

2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T 647.329.1426 TF 1.866.977.7473
www.stephenson-eng.com / info@stephenson-eng.com

No.	Revision	Date

No.	Issued For	Date
10	REISSUED FOR PERMIT	JULY 20,2016
8	BUILDING PERMIT ISSUED FOR TENDER	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC.15,2015

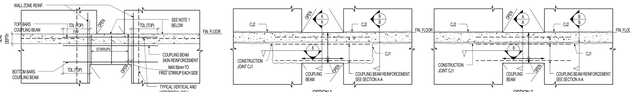
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
BEAM SCHEDULES

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 1
Drawn by	DC
Checked by	BK/BBS
Project No.	2014-0031
Date	JULY 20,2016
Drawing No.	S2-03

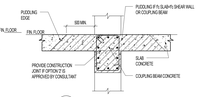
Plot Date: 7/20/2016 11:15:39 AM



1 TYPICAL COUPLING BEAM REINFORCEMENT DETAIL

NOTES:
1. OPTION 1
CONCRETE IS PLACED FIRST, WITH VERTICAL JOINT C/J1 BETWEEN THE WALLS AND THE COUPLING BEAM. FOUR COUPLING BEAM WITH THE SLAB DO HORIZONTAL JOINT BETWEEN THE SLAB AND THE TOP AND THE COUPLING BEAM. PUDDLE COUPLING BEAM AND PUDDLE WALLS AT SLAB FIN. SLAB IN COUPLING BEAM (SEE DETAIL A-A)
2. OPTION 2
IF APPROVED BY CONSULTANT, FOUR COUPLING BEAM TO UNDERSIDE OF SLAB WITH THE WALLS. HORIZONTAL C/J BETWEEN THE SLAB AND THE WEB OF COUPLING BEAM. PUDDLE SLAB IF FIN. SLAB = FIN. COUPLING BEAM (SEE DETAIL B-B)

1A TYPICAL SHEAR WALL AND COUPLING (LINTEL) BEAM CONSTRUCTION JOINT DETAIL



A TYPICAL COUPLING BEAM DETAIL OF PUDDLING AND CONSTRUCTION JOINT ARRANGEMENT

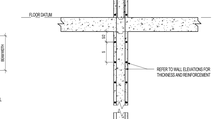
B TYPICAL SHEAR WALL DETAIL OF PUDDLING AND CONSTRUCTION JOINT ARRANGEMENT

3 TYPICAL ADDITIONAL REINFORCEMENT COUPLING BEAM SLEEVES UP TO H4

4 TYPICAL DETAIL AT TOP OF WALLS AND BELOW OPENINGS WHERE COUPLING BEAM IS NOT PROVIDED

5 TYPICAL DETAIL AT BOTTOM OF WALLS AND ABOVE OPENINGS WHERE COUPLING BEAM IS NOT PROVIDED

6 TYPICAL DETAIL AT WALL THICKNESS TRANSITIONS

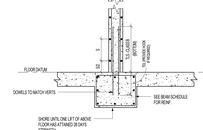


NOTE:
1. PROVIDE TIES TO DISTRIBUTED WALL REINFORCEMENT WITH VERTICAL SPACING AS PER TABLE 2 UNLESS NOTED OTHERWISE ON WALL ELEVATIONS.
2. WHEN CLEAR SPACE (S) BETWEEN VERTICAL DISTRIBUTED REINFORCEMENT IS LARGER THAN 150mm, PROVIDE TIES AT EVERY VERTICAL BAR. WHEN S≤150, TIES MAY BE PROVIDED AT EVERY OTHER VERTICAL BAR AS SHOWN ABOVE.
3. REFER TO ZONE REINFORCEMENT DETAILS FOR TIES IN THOSE AREAS.

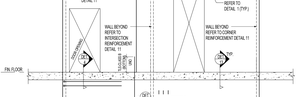
7 TYPICAL TIE DETAIL FOR DISTRIBUTED VERTICAL WALL REINFORCEMENT

NOTE:
1. COORDINATE WALL ZONE VERTICAL BAR PLACEMENT WITH BEAM HORIZONTAL REINFORCEMENT ARRANGEMENT.

8 TYPICAL COUPLING BEAM DETAIL PLAN DETAIL



10 TYPICAL DETAIL OF SHEAR WALL SUPPORTED BY BEAM



14 TYPICAL WALL ELEVATIONS

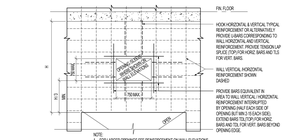
NOTES:
1. REFER TO WALL DETAILS WITH OR WITHOUT ZONE REINFORCEMENT SHADED ON WALL ELEVATIONS

NOTE:
1. SPACING OF VERTICAL DISTRIBUTED REINFORCEMENT SEE WALL ELEVATIONS.
1. REFER TO TABLE 2 TO DETERMINE # TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT ARE REQUIRED. SEE DETAIL 7 WHEN TIES ARE REQUIRED

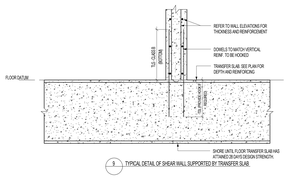
11 TYPICAL WALL DETAILS WITHOUT ZONE REINFORCEMENT

12 TYPICAL SHEAR WALL DOWELS AT FOUNDATION

13 TYPICAL SLAB TO SHEAR WALL CONNECTION WHERE SLAB IS BEARING ON ONE SIDE OF THE WALL ONLY



2 TYPICAL ADDITIONAL REINFORCEMENT FOR WALL OPENINGS UP TO 750mm/750mm SIZE



9 TYPICAL DETAIL OF SHEAR WALL SUPPORTED BY TRANSFER SLAB

SHEAR WALL NOTES:
1. SHEAR WALL ELEVATIONS SERVE THE PURPOSE OF DEFINING THE ZONE, DISTRIBUTED AND COUPLING BEAM REINFORCEMENT. THE ENGINEER OF RECORD (EOR) IS RESPONSIBLE FOR THE DESIGN OF THE SHEAR WALLS. SHEAR WALL ELEVATIONS SHOULD BE READ IN CONJUNCTION WITH SCHEDULES AND TYPICAL SHEAR WALL DETAILS. THE GRAVITY ELEMENTS (COLUMNS, SLABS, BEAMS, FOUNDATION SYSTEM, ETC.) ARE SHOWN CONCEPTUALLY FOR CLARIFICATION ONLY FOR SIZE, GEOMETRY, STEPS, ETC. OF THE GRAVITY ELEMENTS REFER TO THE APPROPRIATE PLANS, DETAILS AND SCHEDULES
2. FOR ALL CLASS A AND B WALLS, THE CONCRETE SHALL CONFORM TO THE LATEST EDITION OF FOR ALL GARAGE SLABS, WALLS AND COLUMNS, CONCRETE SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA-S413 AND MEET THE REQUIREMENTS FOR EXPOSURE CLASSIFICATION C-1 AS DEFINED IN TABLE 1A OF CSA STANDARD CAN/CSA-A23.1 LATEST EDITION. REFER TO THE SPECIFICATIONS.
3. PROVIDE WALL REINFORCEMENT IN ACCORDANCE WITH THE VALUES INDICATED ON THE WALL ELEVATIONS OR PLANS. WHERE THERE IS REQUESTED PROVIDE THE NOMINAL WALL REINFORCEMENT, AS SHOWN IN TABLE 1.

TABLE 1: NOMINAL WALL REINFORCEMENT (NWR)

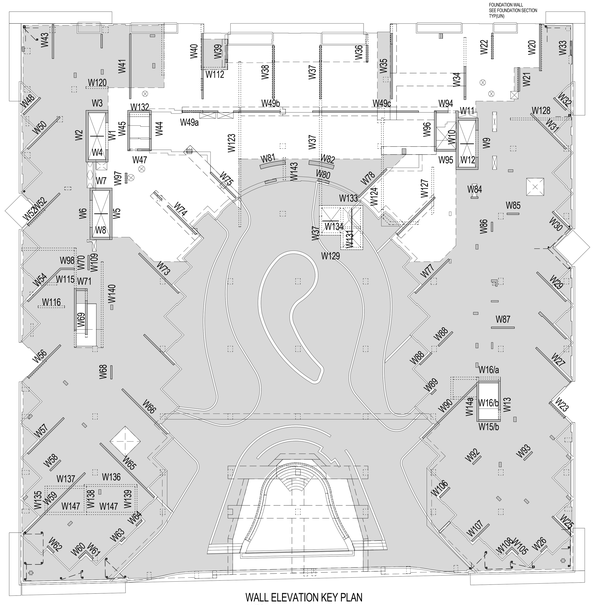
WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT		WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT	
	HORIZONTAL	VERTICAL		HORIZONTAL	VERTICAL
150	15@300 (CONTINUOUS)	15@400 (CENTERED)	400	15@400 HEF	15@400 HEF
200	15@400 HEF	15@400 HEF	450	15@400 HEF	15@400 HEF
250	15@400 HEF	15@400 HEF	500	15@300 HEF	15@400 HEF
300	15@400 HEF	15@400 HEF			
350	15@400 HEF	15@400 HEF			

5. WALL REINFORCEMENT IS VERTICAL AND HORIZONTAL EACH FACE (HALF/T) UNLESS NOTED OTHERWISE
6. PROVIDE TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT IF THE BAR SIZE IS LARGER THAN 20M OR IF BAR SPACING IS LESS THAN THAT OUTLINED IN TABLE 2. REFER TO DETAIL 7 FOR ADDITIONAL INFORMATION.
7. UNLESS OTHERWISE SHOWN PROVIDE DOWELS FROM SHEAR WALL CAPS, OR FOOTINGS INTO SHEAR WALLS TO MATCH VERTICAL WALL REINFORCEMENT ON EACH FACE.
8. UNLESS NOTED OTHERWISE AT TOP OF ALL SHEAR WALLS PROVIDE 15 @ 400 DOWELS FROM WALL TO SLAB. WHERE WALL IS CONTINUOUS ABOVE SLAB SEE DETAIL 16.
9. PROVIDE T.O.CLASS B (BOTTOM FOR ALL VERTICAL BARS)
REFER TO DETAIL C22B, fc = 40MPa OR C32B fc = 60MPa FOR LENGTHS
10. REFER TO DETAIL C22B, fc = 40MPa OR C32B fc = 60MPa FOR LENGTHS OF L1 AND L2
(REFER TO DETAIL C22B, fc = 40MPa OR C32B fc = 60MPa FOR LENGTHS)
11. MINIMUM DOWEL LENGTH SHALL BE 24"LD (BOTTOM)
12. PLACE HORIZONTAL REINFORCING TWO FACES OF WALL UNLESS NOTED OTHERWISE.
13. FOR WALLS THAT ARE UNBRACED FOR TWO STOREYS OR MORE PROVIDE EITHER CONTINUOUS VERTICAL REINFORCEMENT FOR THE FULL HEIGHT OF THE WALL OR SPLICE THE VERTICAL REINFORCEMENT AT EACH FLOOR LEVEL. WHERE SPLICES ARE PROVIDED TENSION LAP SPLICE (TOP FOR ALL HORIZONTAL WALL REINFORCEMENT. IF BARS OF DIFFERENT DIAMETER ARE SPLICED, USE THE SPLICE LENGTH OF THE LARGER BAR.
14. UNLESS NOTED OTHERWISE, REFER TO THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF WALL OPENINGS. THE CONTRACTOR SHALL PROVIDE, FOR THE ENGINEERS REVIEW, SHOP DRAWINGS SHOWING ALL OPENINGS AND ASSOCIATED REINFORCEMENT AT LEAST 4 WEEKS BEFORE THE WORKS ARE REQUIRED. FOR ALL SLEEVES 75mm DIAMETER AND LARGER, NO OPENINGS OTHER THAN THOSE WHICH ARE INDICATED ON PLAN OR ELEVATION SHALL BE MADE WITHOUT THE APPROVAL OF THE ENGINEER.
15. WHERE MASONRY VENEER FACES A WALL, PROVIDE STANDARD CORE TOOL ANCHOR SLOTS. REFER TO TYPICAL DETAILS.
16. CLEAR CONCRETE COVER SHALL BE 20mm FOR WALLS ABOVE GRADE AND 40mm FOR WALLS BELOW GRADE UNLESS NOTED OTHERWISE.

TABLE 2: TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT

WALL THICKNESS (mm)	TIE SPACING FOR DISTRIBUTED VERTICAL REINFORCEMENT fc = 60MPa							
	15M			20M			25M	
	VERTICAL BAR SPACING (mm)	TIE VERTICAL SPACING (mm)	HORIZONTAL BARS TIE SPACING (mm)	VERTICAL BAR SPACING (mm)	TIE VERTICAL SPACING (mm)	HORIZONTAL BARS TIE SPACING (mm)	TIE VERTICAL SPACING (mm)	TIE HORIZONTAL SPACING (mm)
150	n/a	n/a	n/a	200	400	200	n/a	n/a
200	n/a	n/a	n/a	200	400	200	250	250
250	n/a	n/a	n/a	200	400	200	300	300
300	n/a	n/a	n/a	200	400	200	300	300
350	n/a	n/a	n/a	200	400	200	300	300
400	n/a	n/a	n/a	200	400	200	400	400
450	n/a	n/a	n/a	200	400	200	400	400
500	n/a	n/a	n/a	200	400	200	400	400
600	n/a	n/a	n/a	200	400	200	400	400

NOTES:
1. TIES FOR DISTRIBUTED VERTICAL REINFORCEMENT ARE 10M.
2. THIS TABLE IS BASED ON fc = 60MPa. FOR fc = 50MPa REDUCE TIE VERTICAL SPACING IN TABLE BY MULTIPLYING BY 0.75.
3. DISTRIBUTED VERTICAL REINFORCEMENT WITH BAR SPACING LESS THAN THAT INDICATED FOR 10M, 15M AND 20M BARS SHALL BE TIED AT MINIMUM TIE VERTICAL SPACING INDICATED.
4. DISTRIBUTED VERTICAL REINFORCEMENT WITH BAR SIZES LARGER THAN 20M SHALL BE TIED AT MINIMUM TIE VERTICAL SPACING INDICATED.
5. SEE ALSO DETAIL 7



WALL ELEVATION KEY PLAN
1 : 175

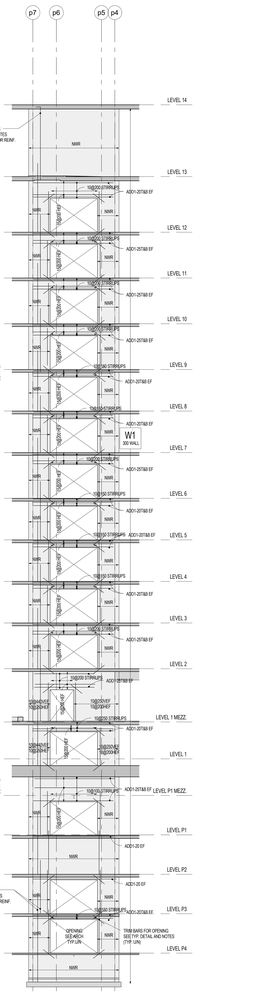
LEGEND

WALLS AND COLUMN SHADED AS THUS INDICATE WALL AND COLUMN BELOW SLAB

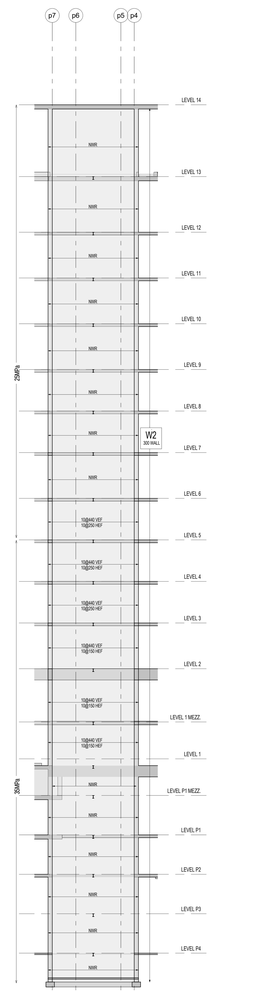
WALLS AND COLUMN SHADED AS THUS INDICATE WALL AND COLUMN ABOVE SLAB

- INDICATES COLUMN NUMBER OF BELOW SLAB. REFER TO COLUMN SCHEDULE

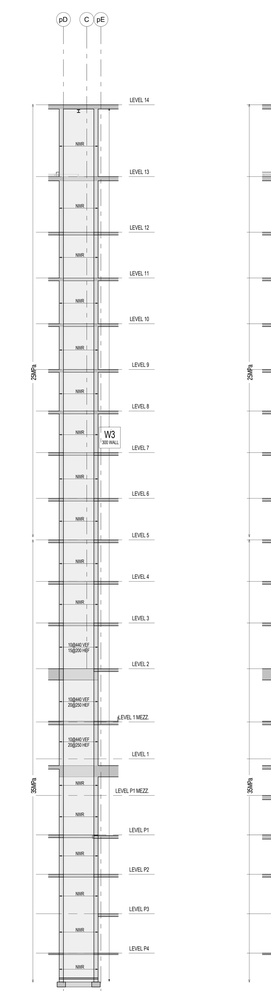
- INDICATES COLUMN NUMBER OF ABOVE SLAB. REFER TO COLUMN SCHEDULE



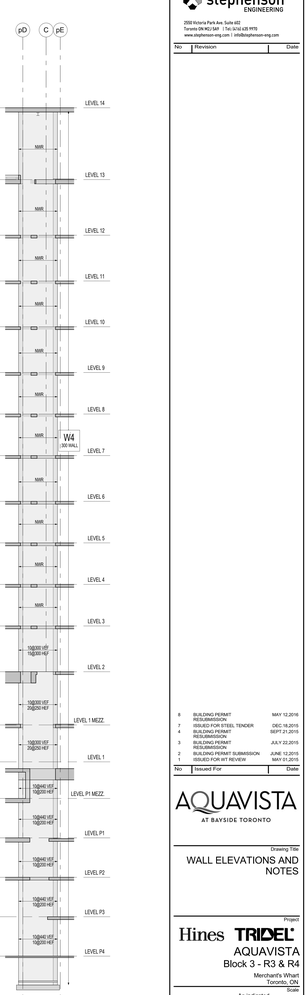
W1 WALL ELEVATION
S3-01 1 : 100



W2 WALL ELEVATION
S3-01 1 : 100



W3 WALL ELEVATION
S3-01 1 : 100



W4 WALL ELEVATION
S3-01 1 : 100

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Any Form Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2500 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 7676
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR ART REVIEW	MAY 01,2015

No.	Issued For	Date

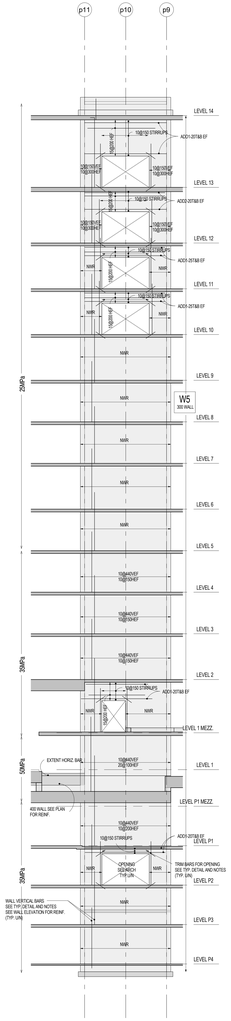
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title:
WALL ELEVATIONS AND NOTES

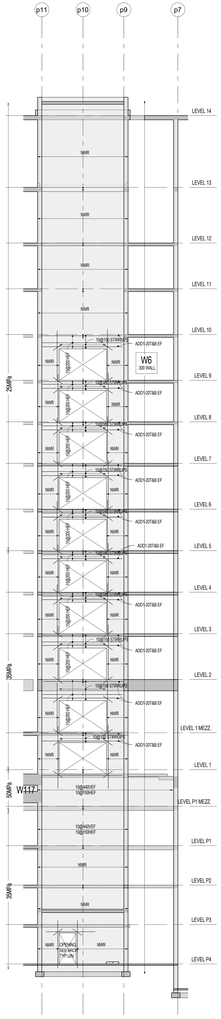
Project:
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale:	As indicated
Drawn by:	DC
Checked by:	BK/BBS
Project No:	20140031
Date:	MAY 12,2016
Drawing No:	S3-01

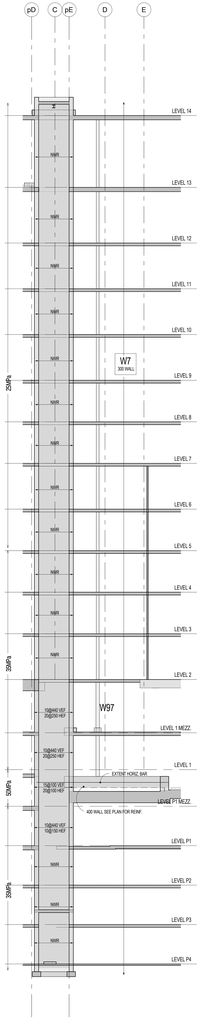
Plot Date: 5/12/2016 10:00:55 AM



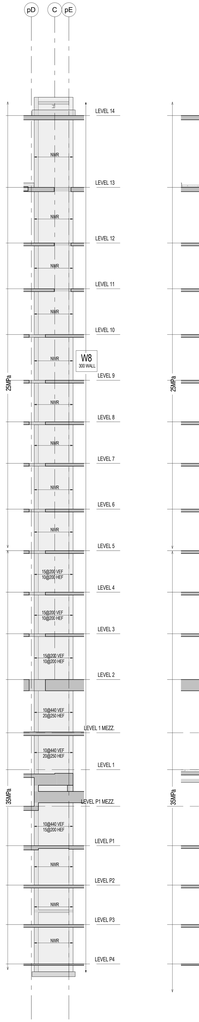
W5 WALL ELEVATION
S3-02 1 : 100



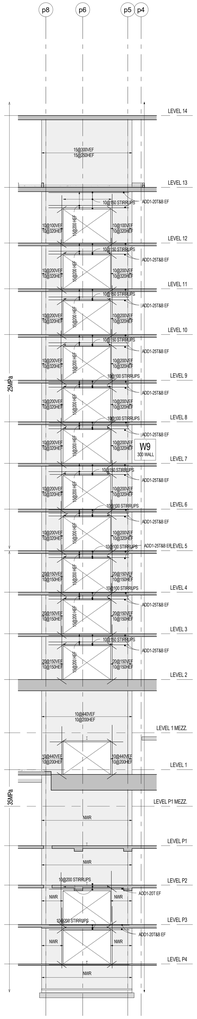
W6 WALL ELEVATION
S3-02 1 : 100



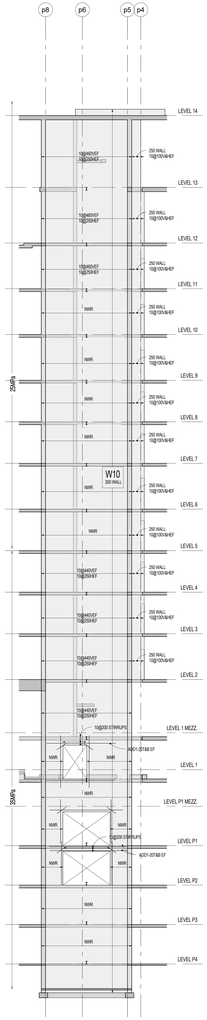
W7 WALL ELEVATION
S3-02 1 : 100



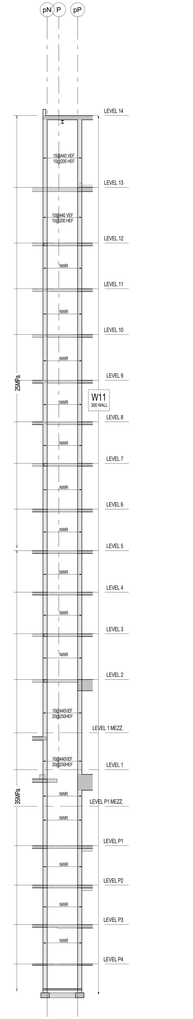
W8 WALL ELEVATION
S3-02 1 : 100



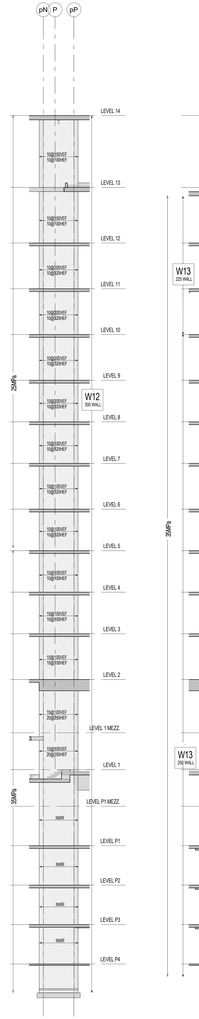
W9 WALL ELEVATION
S3-02 1 : 100



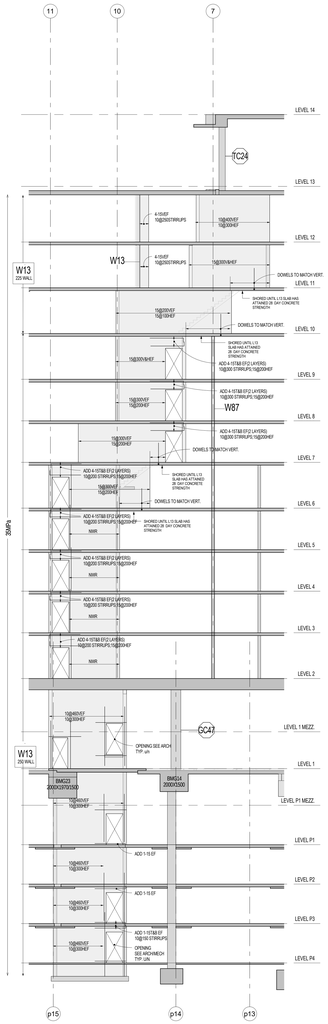
W10 WALL ELEVATION
S3-02 1 : 100



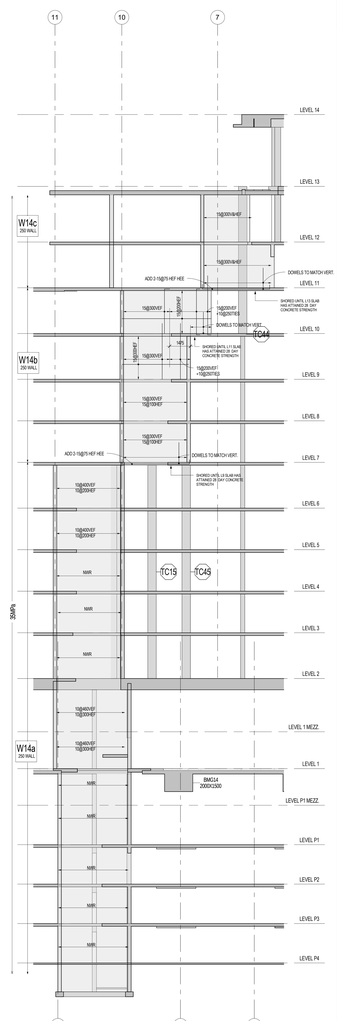
W11 WALL ELEVATION
S3-02 1 : 100



W12 WALL ELEVATION
S3-02 1 : 100



W13 WALL ELEVATION
S3-02 1 : 100



W14 WALL ELEVATION
S3-02 1 : 100

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Nor Is It Loanable Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2500 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 T 647.343.1478
www.stephenson-eng.com I info@stephenson-eng.com

No.	Revision	Date

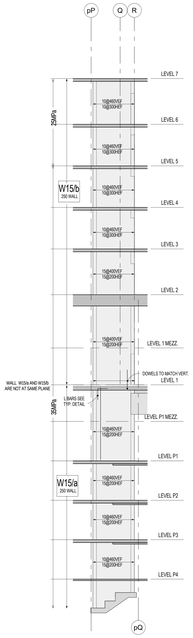
No.	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR INT REVIEW	MAY 01,2015

AQUAVISTA
AT BAYSIDE TORONTO

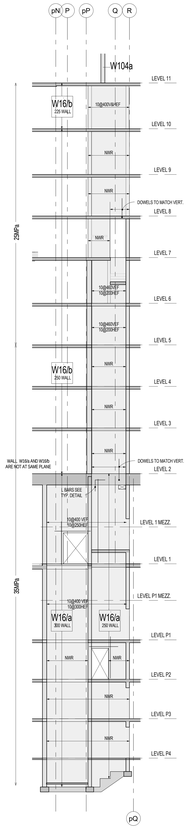
Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

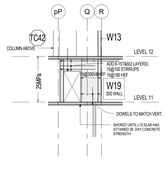
Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	2014-00031
Date	MAY 12,2016
Drawing No.	S3-02



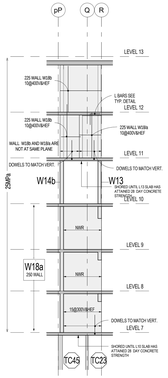
W15 WALL ELEVATION
S3-03 1 : 100



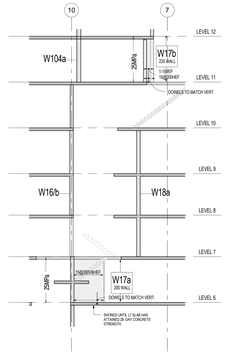
W16 WALL ELEVATION
S3-03 1 : 100



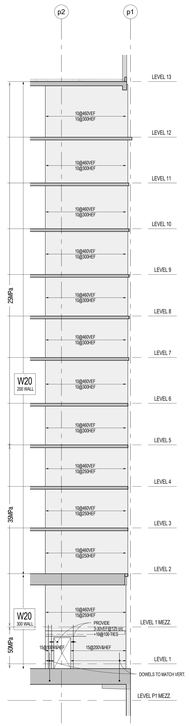
W19 WALL ELEVATION
S3-03 1 : 100



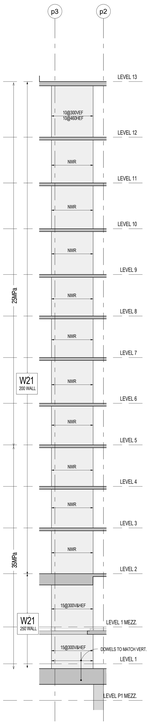
W18 WALL ELEVATION
S3-03 1 : 100



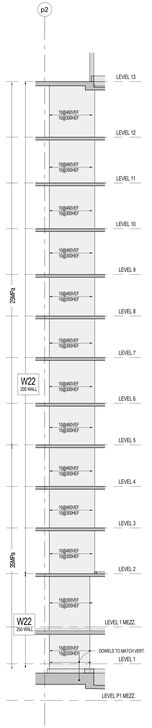
W17 WALL ELEVATION
S3-03 1 : 100



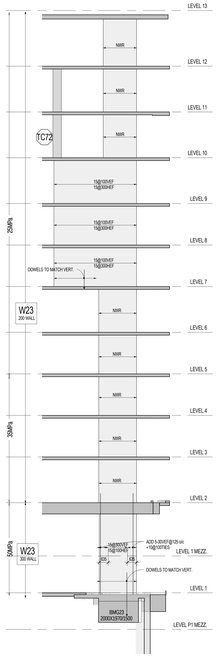
W20 WALL ELEVATION
S3-03 1 : 100



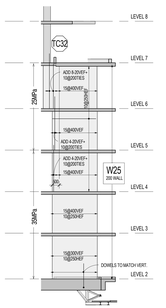
W21 WALL ELEVATION
S3-03 1 : 100



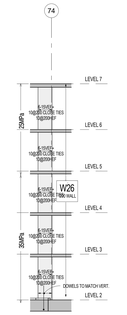
W22 WALL ELEVATION
S3-03 1 : 100



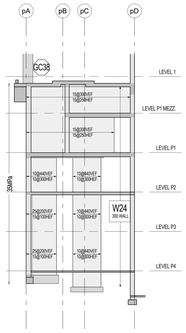
W23 WALL ELEVATION
S3-03 1 : 100



W25 WALL ELEVATION
S3-03 1 : 100



W26 WALL ELEVATION
S3-03 1 : 100



W24 WALL ELEVATION
S3-03 1 : 100

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Whole Or In Parts Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 1976
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

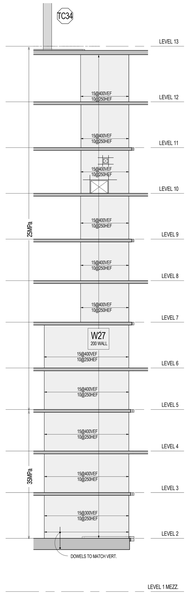
No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

AQUAVISTA
AT BAYSIDE TORONTO

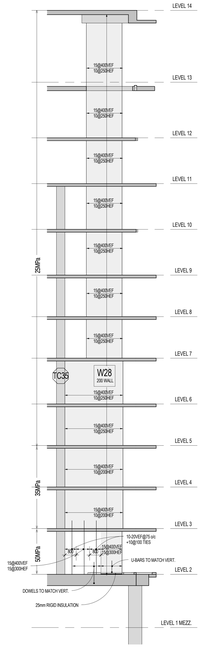
Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

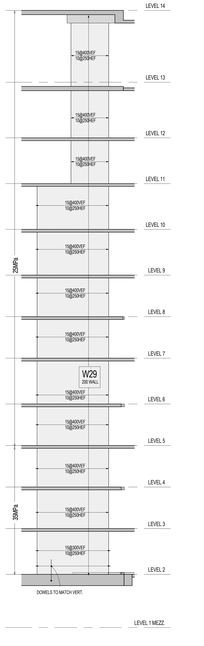
Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No	2014-0031
Date	MAY 12,2016
Drawing No	S3-03



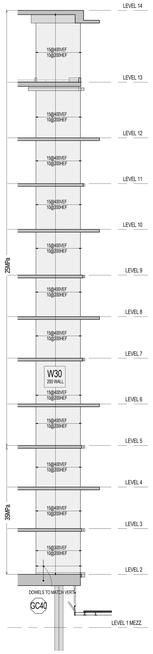
W27 WALL ELEVATION
S3-04 1 : 100



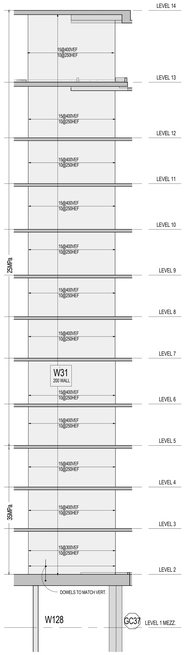
W28 WALL ELEVATION
S3-04 1 : 100



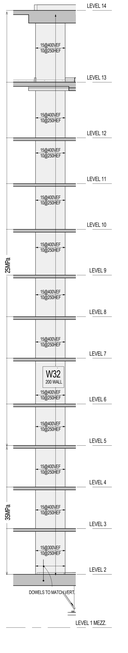
W29 WALL ELEVATION
S3-04 1 : 100



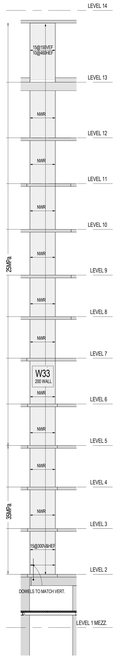
W30 WALL ELEVATION
S3-04 1 : 100



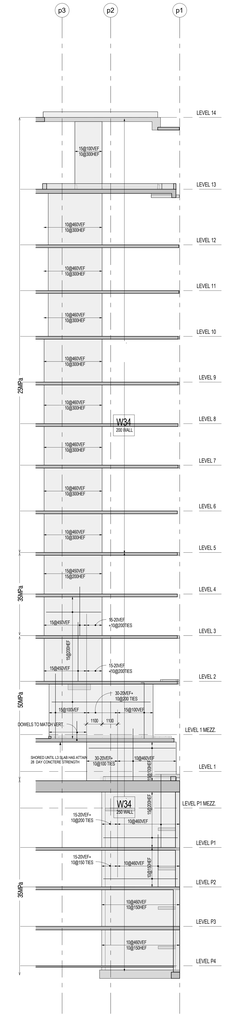
W31 WALL ELEVATION
S3-04 1 : 100



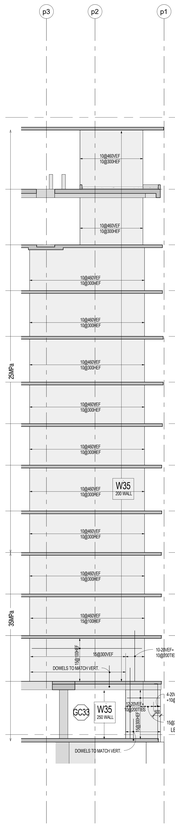
W32 WALL ELEVATION
S3-04 1 : 100



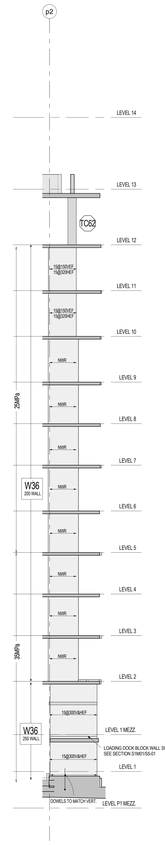
W33 WALL ELEVATION
S3-04 1 : 100



W34 WALL ELEVATION
S3-04 1 : 100



W35 WALL ELEVATION
S3-04 1 : 100



W36 WALL ELEVATION
S3-04 1 : 100

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed ByThe Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.(416) 495 1975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

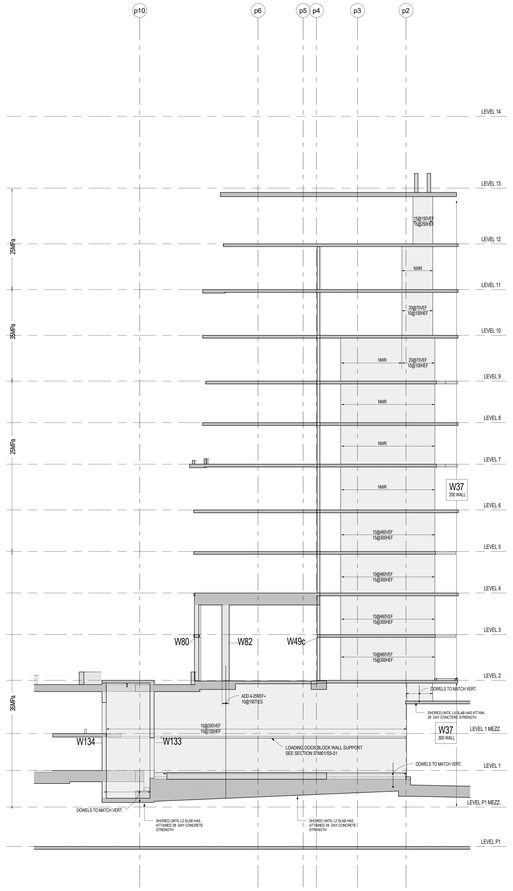
No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

AQUAVISTA
AT BAYSIDE TORONTO

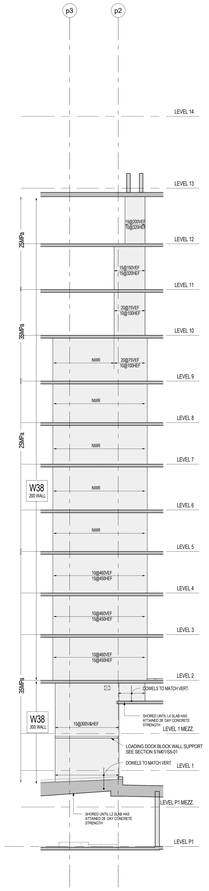
Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

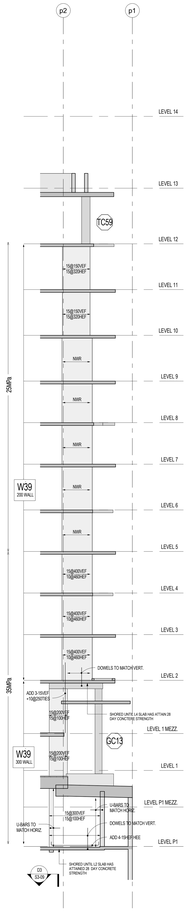
Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	2014-0031
Date	MAY 12,2016
Drawing No.	S3-04



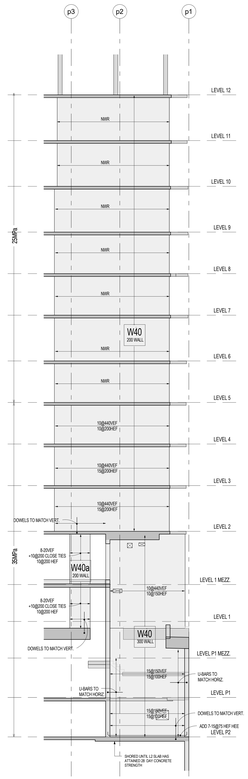
W37 WALL ELEVATION
S3-05 1 : 100



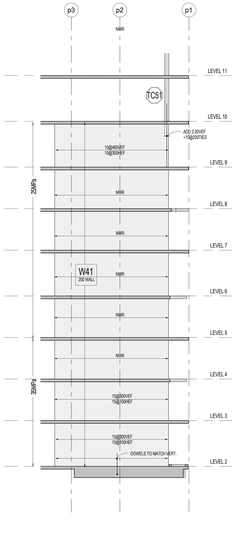
W38 WALL ELEVATION
S3-05 1 : 100



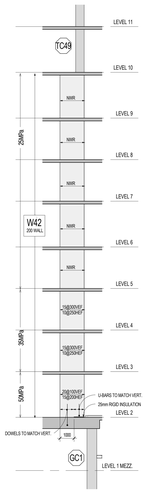
W39 WALL ELEVATION
S3-05 1 : 100



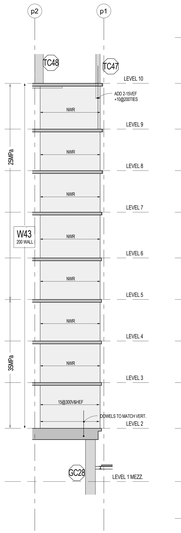
W40 WALL ELEVATION
S3-05 1 : 100



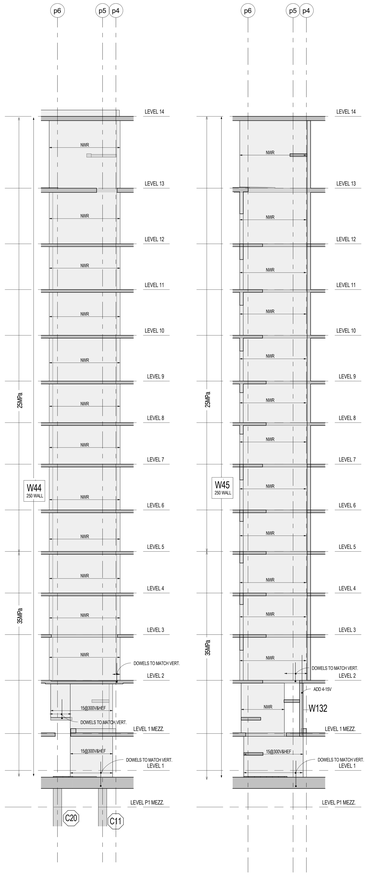
W41 WALL ELEVATION
S3-05 1 : 100



W42 WALL ELEVATION
S3-05 1 : 100

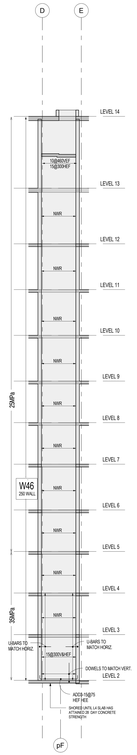


W43 WALL ELEVATION
S3-05 1 : 100



W44 WALL ELEVATION
S3-05 1 : 100

W45 WALL ELEVATION
S3-05 1 : 100



W46 WALL ELEVATION
S3-05 1 : 100

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not To Be Made Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 1975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

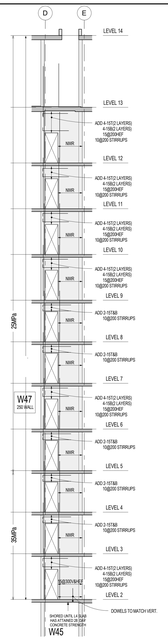
No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

AQUAVISTA
AT BAYSIDE TORONTO

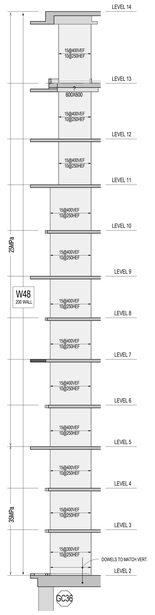
Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

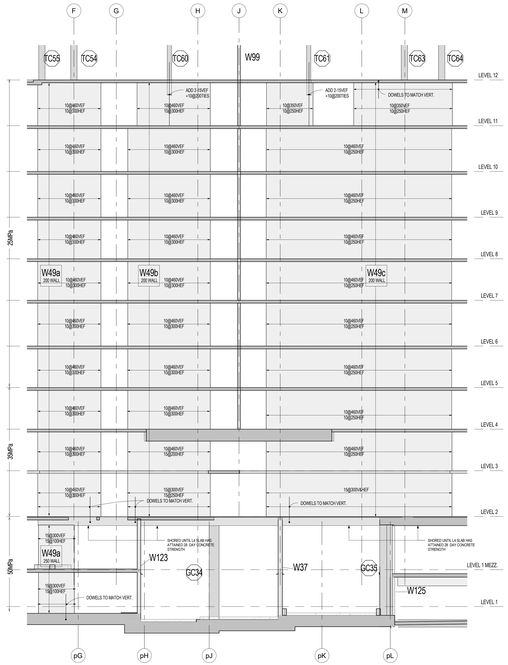
Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	2014-0031
Date	MAY 12,2016
Drawing No.	S3-05



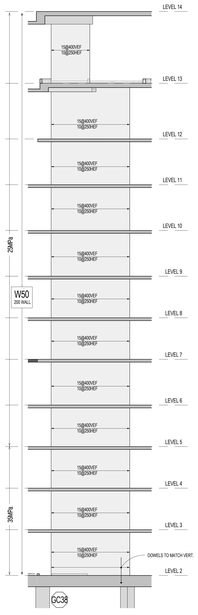
W47 WALL ELEVATION
S3-06 1 : 100



W48 WALL ELEVATION
S3-06 1 : 100

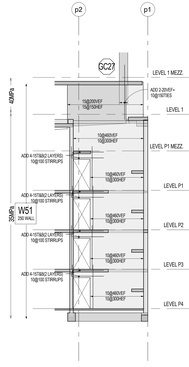


W49 WALL ELEVATION
S3-06 1 : 100

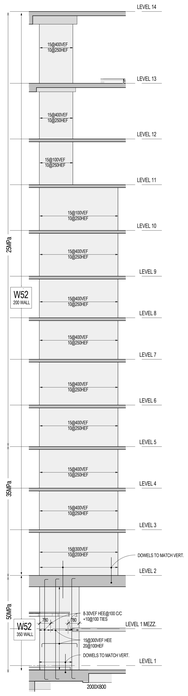


W50 WALL ELEVATION
S3-06 1 : 100

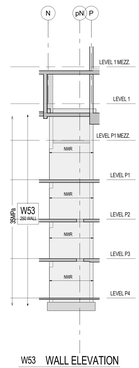
C10



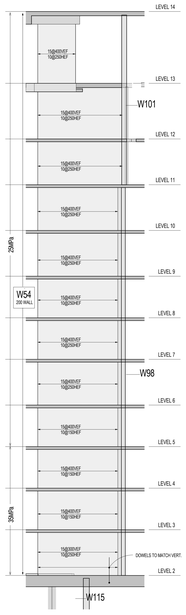
W51 WALL ELEVATION
S3-06 1 : 100



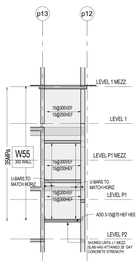
W52 WALL ELEVATION
S3-06 1 : 100



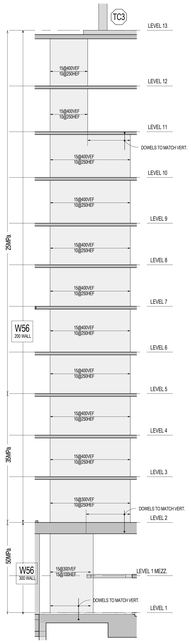
W53 WALL ELEVATION
S3-06 1 : 100



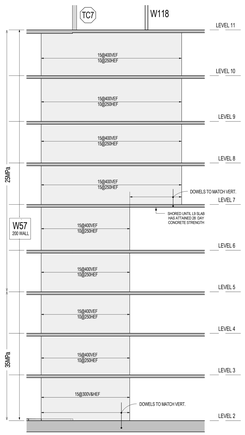
W54 WALL ELEVATION
S3-06 1 : 100



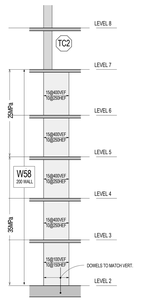
W55 WALL ELEVATION
S3-06 1 : 100



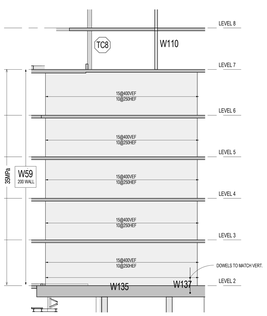
W56 WALL ELEVATION
S3-06 1 : 100



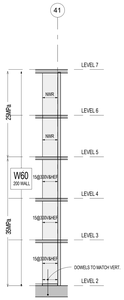
W57 WALL ELEVATION
S3-06 1 : 100



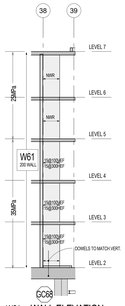
W58 WALL ELEVATION
S3-06 1 : 100



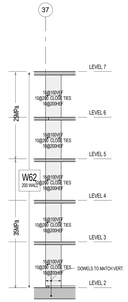
W59 WALL ELEVATION
S3-06 1 : 100



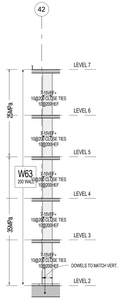
W60 WALL ELEVATION
S3-06 1 : 100



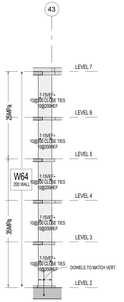
W61 WALL ELEVATION
S3-06 1 : 100



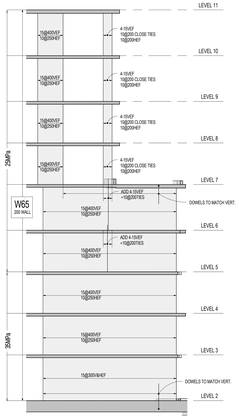
W62 WALL ELEVATION
S3-06 1 : 100



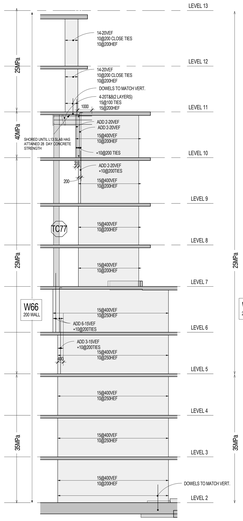
W63 WALL ELEVATION
S3-06 1 : 100



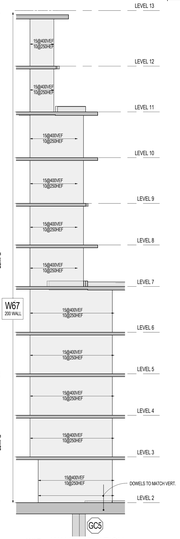
W64 WALL ELEVATION
S3-06 1 : 100



W65 WALL ELEVATION
S3-06 1 : 100



W66 WALL ELEVATION
S3-06 1 : 100



W67 WALL ELEVATION
S3-06 1 : 100

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Parts Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 499 9676
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

No	Issued For	Date

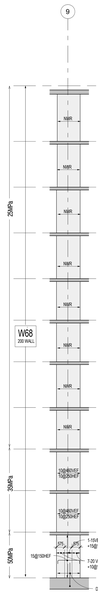
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
WALL ELEVATIONS

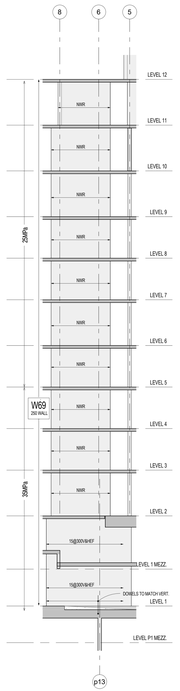
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	2014-0031
Date	MAY 12,2016
Drawing No.	S3-06

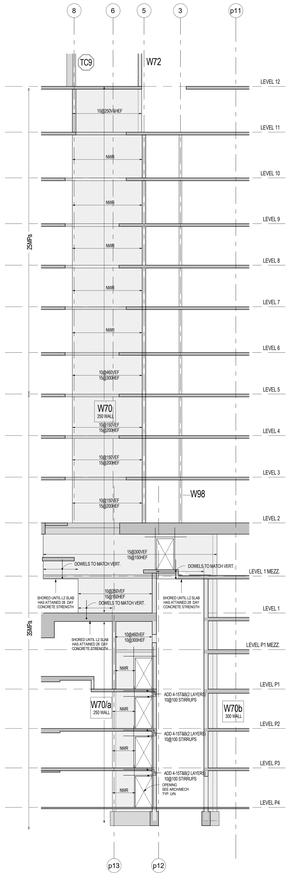
Plot Date: 5/12/2016 10:10:17 AM



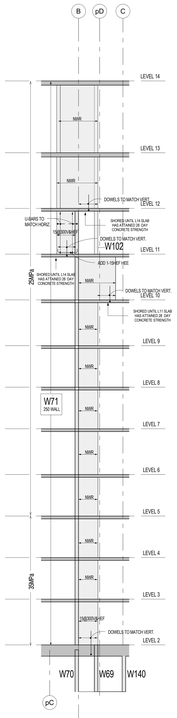
W68 WALL ELEVATION
S3-07 1 : 100



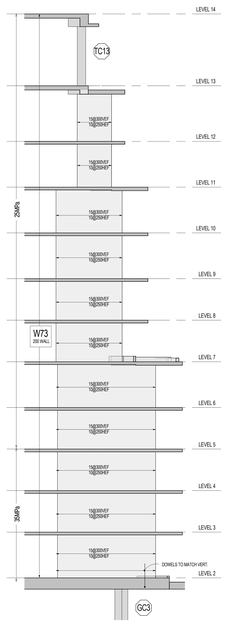
W69 WALL ELEVATION
S3-07 1 : 100



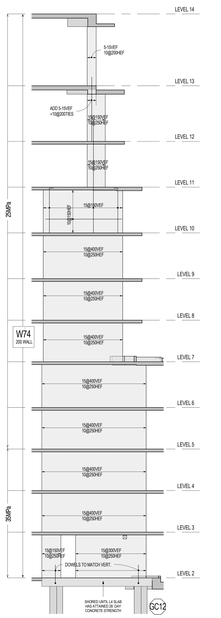
W70 WALL ELEVATION
S3-07 1 : 100



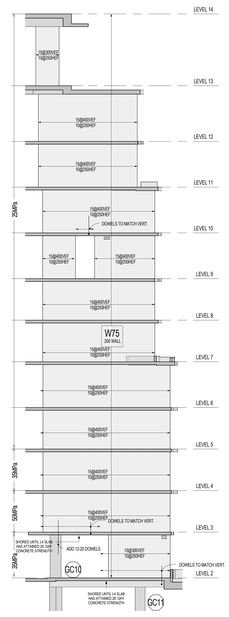
W71,W72 WALL ELEVATION
S3-07 1 : 100



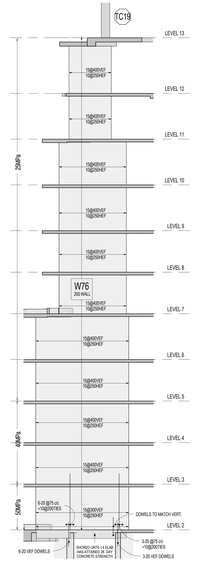
W73 WALL ELEVATION
S3-07 1 : 100



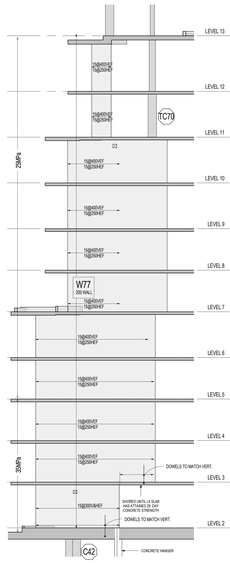
W74 WALL ELEVATION
S3-07 1 : 100



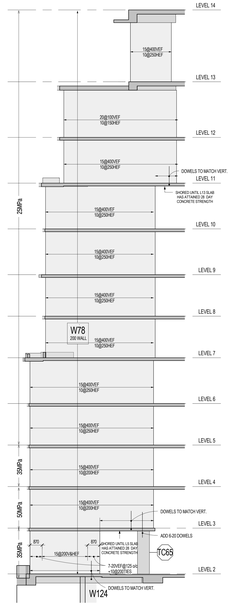
W75 WALL ELEVATION
S3-07 1 : 100



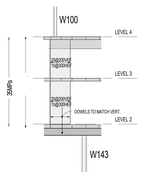
W76 WALL ELEVATION
S3-07 1 : 100



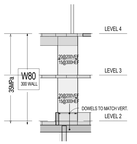
W77 WALL ELEVATION
S3-07 1 : 100



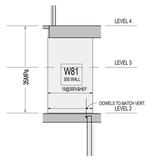
W78 WALL ELEVATION
S3-07 1 : 100



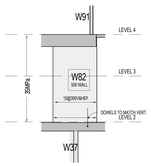
W79 WALL ELEVATION
S3-07 1 : 100



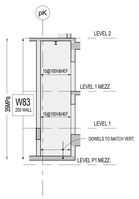
W80 WALL ELEVATION
S3-07 1 : 100



W81 WALL ELEVATION
S3-07 1 : 100



W82 WALL ELEVATION
S3-07 1 : 100



W83 WALL ELEVATION
S3-07 1 : 100

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Prohibited In Whole Or Partwithout Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 7676
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR WT REVIEW	MAY 21,2015

No	Issued For	Date

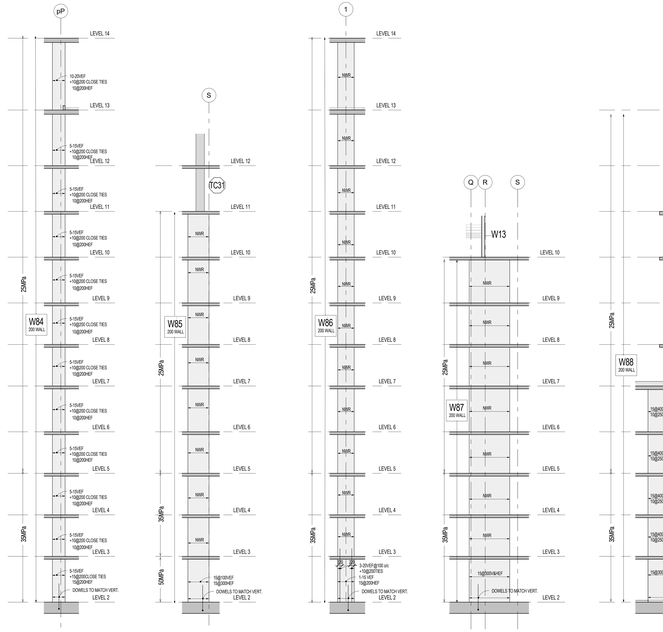
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No.	2014/0031
Date	MAY 12,2016
Drawing No.	S3-07

Plot Date: 5/12/2016 10:01:23 AM



W84 WALL ELEVATION
S3-08 1 : 100

W85 WALL ELEVATION
S3-08 1 : 100

W86 WALL ELEVATION
S3-08 1 : 100

W87 WALL ELEVATION
S3-08 1 : 100

W88 WALL ELEVATION
S3-08 1 : 100

W89 WALL ELEVATION
S3-08 1 : 100

W90 WALL ELEVATION
S3-08 1 : 100

W91 WALL ELEVATION
S3-08 1 : 100

W92 WALL ELEVATION
S3-08 1 : 100

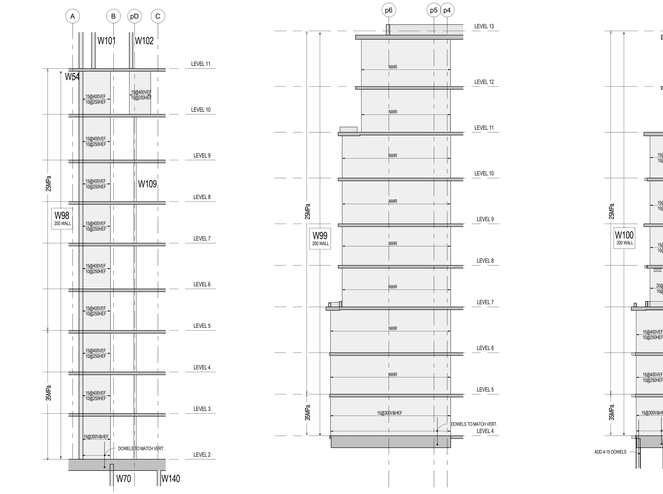
W93 WALL ELEVATION
S3-08 1 : 100

W94 WALL ELEVATION
S3-08 1 : 100

W95 WALL ELEVATION
S3-08 1 : 100

W96 WALL ELEVATION
S3-08 1 : 100

W97 WALL ELEVATION
S3-08 1 : 100



W98 WALL ELEVATION
S3-08 1 : 100

W99 WALL ELEVATION
S3-08 1 : 100

W100 WALL ELEVATION
S3-08 1 : 100

W101 WALL ELEVATION
S3-08 1 : 100

W102 WALL ELEVATION
S3-08 1 : 100

W103 WALL ELEVATION
S3-08 1 : 100

W104 WALL ELEVATION
S3-08 1 : 100

W105 WALL ELEVATION
S3-08 1 : 100

W106 WALL ELEVATION
S3-08 1 : 100

W107 WALL ELEVATION
S3-08 1 : 100

W108 WALL ELEVATION
S3-08 1 : 100

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Whole Or Part Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

PROFESSIONAL ENGINEER — MAY 12,2016 — J. TANASIEVIC — 100149857

PROFESSIONAL ENGINEER — MAY 12,2016 — S. SHROWAH SYED — 100149857

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 493 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

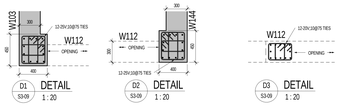
No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR WT REVIEW	MAY 01,2015

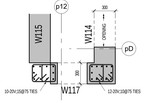
AQUAVISTA
AT BAYSIDE TORONTO

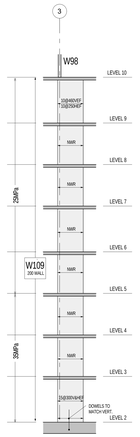
Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

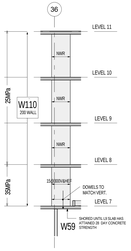
Scale	1 : 100
Drawn by	DC
Checked by	BK/BBS
Project No	2014003?
Date	MAY 12,2016
Drawing No	S3-08



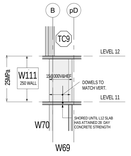




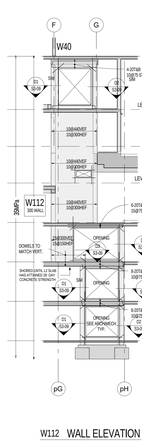
W109 WALL ELEVATION
S3-09 1 : 100



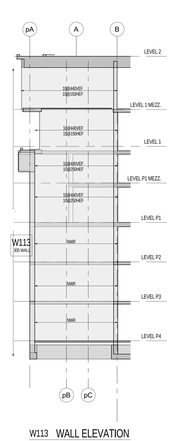
W110 WALL ELEVATION
S3-09 1 : 100



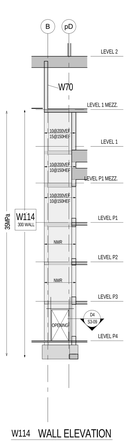
W111 WALL ELEVATION
S3-09 1 : 100



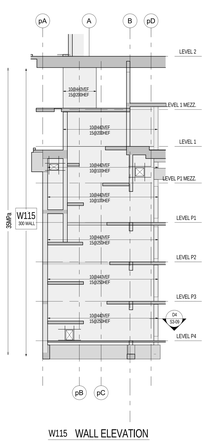
W112 WALL ELEVATION
S3-09 1 : 100



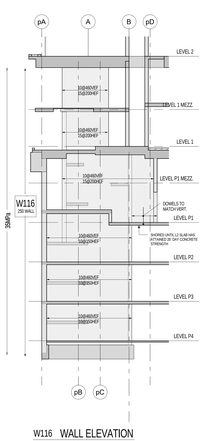
W113 WALL ELEVATION
S3-09 1 : 100



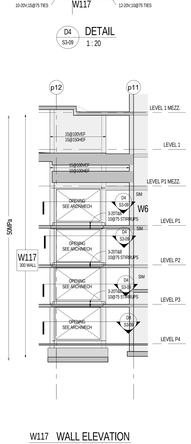
W114 WALL ELEVATION
S3-09 1 : 100



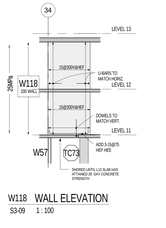
W115 WALL ELEVATION
S3-09 1 : 100



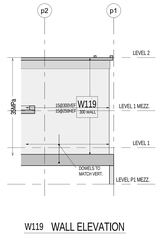
W116 WALL ELEVATION
S3-09 1 : 100



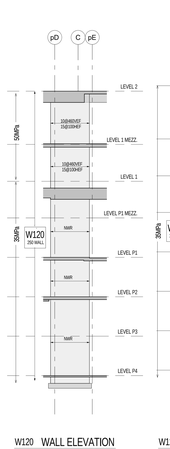
W117 WALL ELEVATION
S3-09 1 : 100



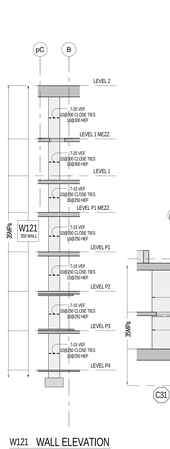
W118 WALL ELEVATION
S3-09 1 : 100



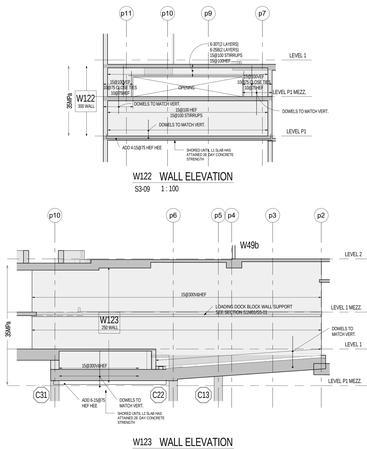
W119 WALL ELEVATION
S3-09 1 : 100



W120 WALL ELEVATION
S3-09 1 : 100

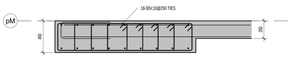


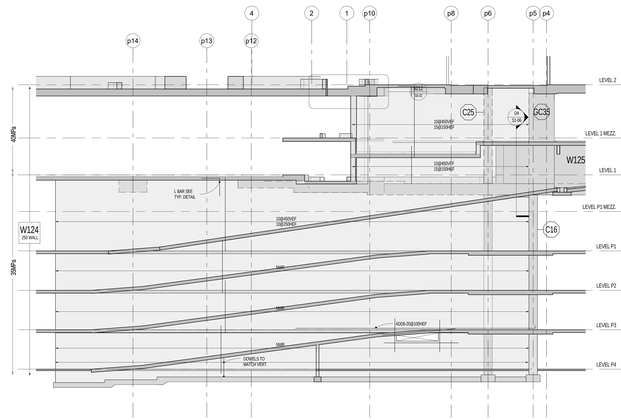
W121 WALL ELEVATION
S3-09 1 : 100



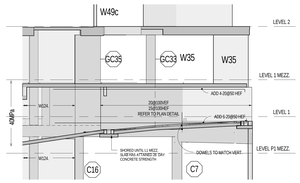
W122 WALL ELEVATION
S3-09 1 : 100

W123 WALL ELEVATION
S3-09 1 : 100

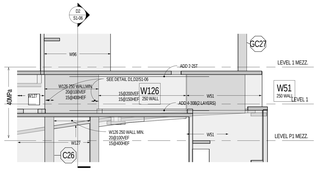




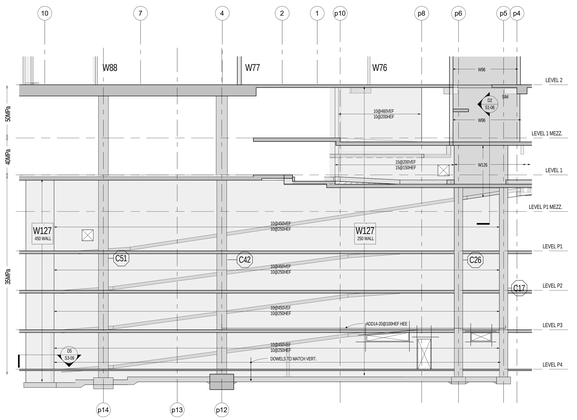
W124 WALL ELEVATION
S3-09 1 : 100



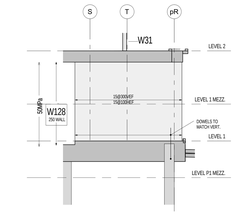
W125 WALL ELEVATION
S3-09 1 : 100



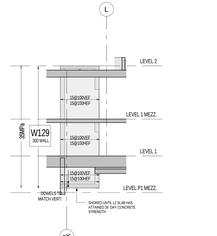
W126 WALL ELEVATION
S3-09 1 : 100



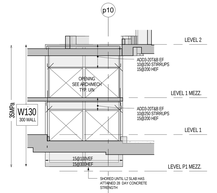
W127 WALL ELEVATION
S3-09 1 : 100



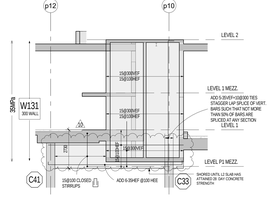
W128 WALL ELEVATION
S3-09 1 : 100



W129 WALL ELEVATION
S3-09 1 : 100



W130 WALL ELEVATION
S3-09 1 : 100



W131 WALL ELEVATION
S3-09 1 : 100

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Parts Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.(416) 499 7676
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

10	REISSUED FOR PERMIT	JULY 20,2016
9	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

No.	Issued For	Date

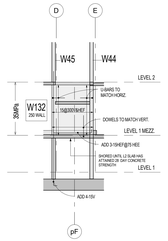
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
WALL ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

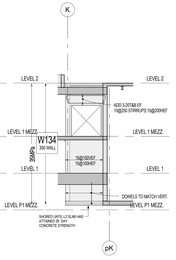
Scale	As indicated
Drawn by	DC
Checked by	BK/BBS
Project No.	20140031
Date	JULY 20,2016
Drawing No.	S3-09

Plot Date: 7/20/2016 11:15:48 AM

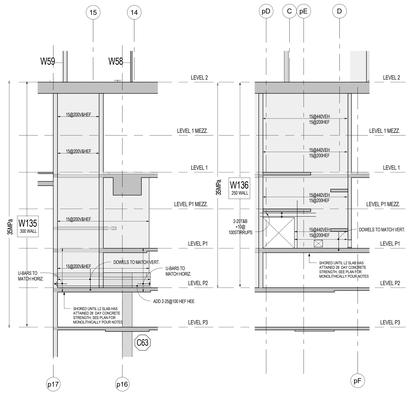


W132 WALL ELEVATION
S3-10 1 : 100

W133 WALL ELEVATION
S3-10 1 : 100

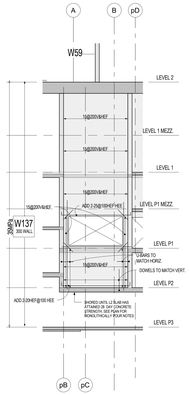


W134 WALL ELEVATION
S3-10 1 : 100

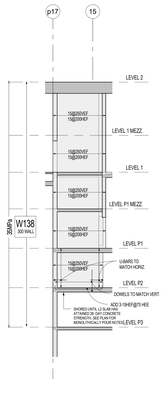


W135 WALL ELEVATION
S3-10 1 : 100

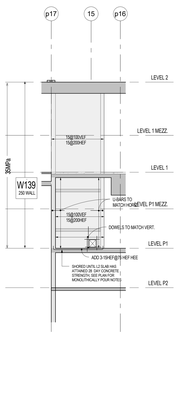
W136 WALL ELEVATION
S3-10 1 : 100



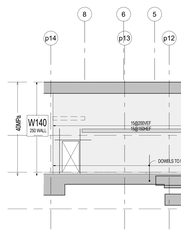
W137 WALL ELEVATION
S3-10 1 : 100



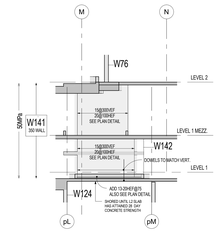
W138 WALL ELEVATION
S3-10 1 : 100



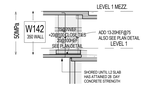
W139 WALL ELEVATION
S3-10 1 : 100



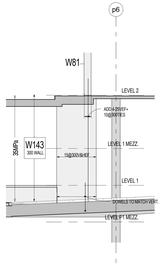
W140 WALL ELEVATION
S3-10 1 : 100



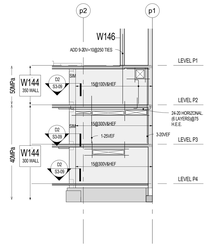
W141 WALL ELEVATION
S3-10 1 : 100



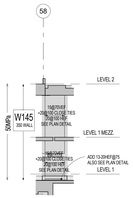
W142 WALL ELEVATION
S3-10 1 : 100



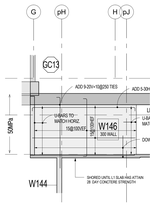
W143 WALL ELEVATION
S3-10 1 : 100



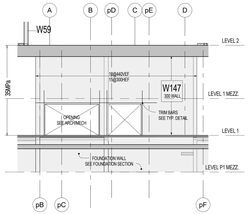
W144 WALL ELEVATION
S3-10 1 : 100



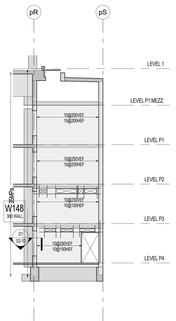
W145 WALL ELEVATION
S3-10 1 : 100



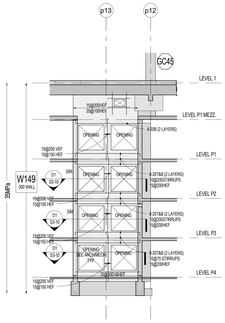
W146 WALL ELEVATION
S3-10 1 : 100



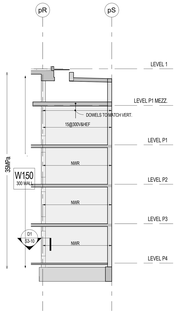
W147 WALL ELEVATION
S3-10 1 : 100



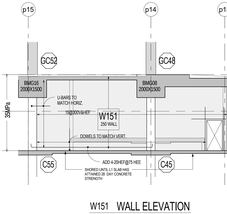
W148 WALL ELEVATION
S3-10 1 : 100



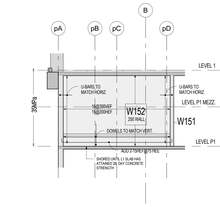
W149 WALL ELEVATION
S3-10 1 : 100



W150 WALL ELEVATION
S3-10 1 : 100

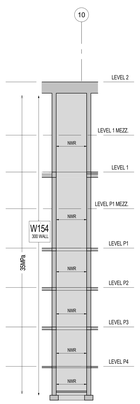


W151 WALL ELEVATION
S3-10 1 : 100

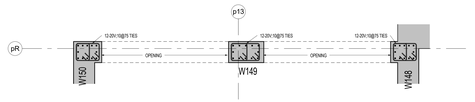


W152 WALL ELEVATION
S3-10 1 : 100

W153 WALL ELEVATION
S3-10 1 : 100



W154 WALL ELEVATION
S3-10 1 : 100



D1 DETAIL
S3-10 1 : 20

REFER TO NOTES ON SHEET S3-01

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Whole Or Part Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

PROFESSIONAL ENGINEER MAY 12,2016 J. TANGLEVE 100149744

PROFESSIONAL ENGINEER MAY 12,2016 S. BARDHAN-QUALLEN 100149744

stephenson ENGINEERING
2500 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 | Tel: (416) 499 9676
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

No.	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

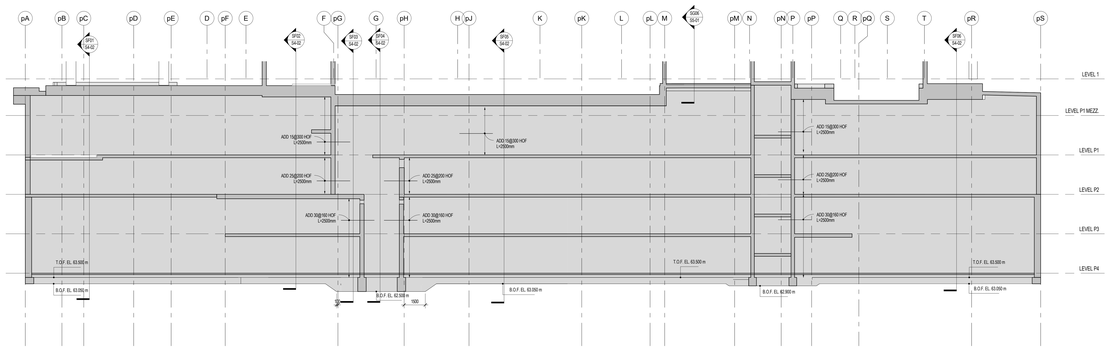
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
WALL ELEVATIONS

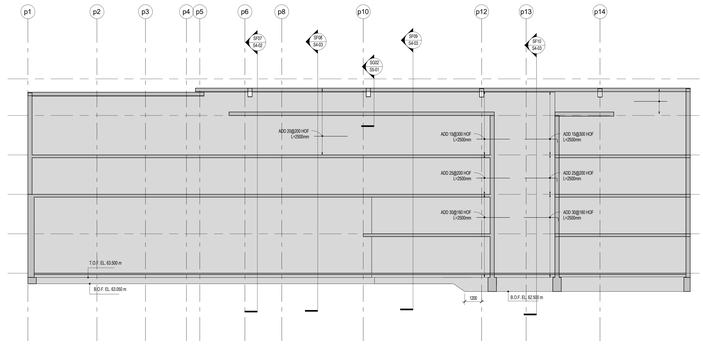
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	BK/BBS
Project No.	20140031
Date	MAY 12,2016
Drawing No.	S3-10

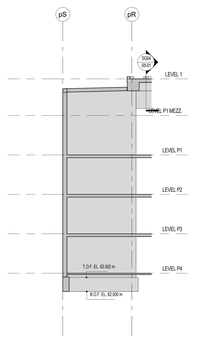
Plot Date: 5/12/2016 10:01:43 AM



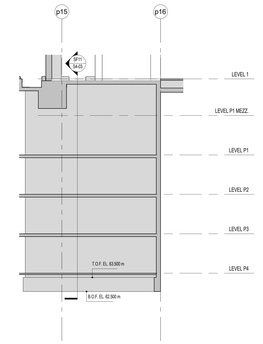
WEST FOUNDATION ELEVATION
1 : 100



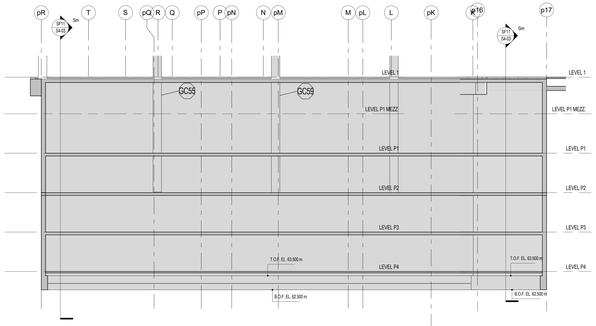
NORTH FOUNDATION ELEVATION 1
1 : 100



NORTH FOUNDATION ELEVATION 2
1 : 100

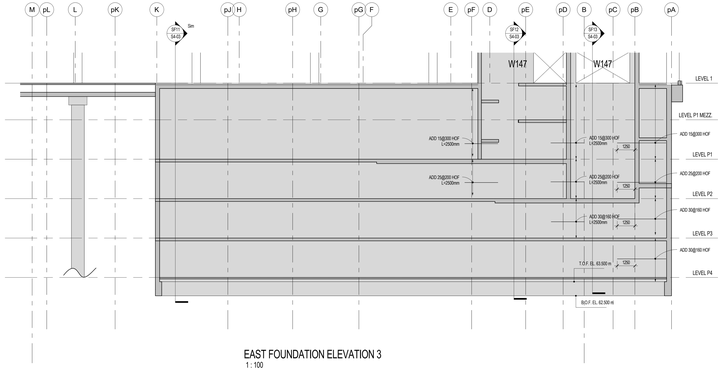


NORTH FOUNDATION ELEVATION 3
1 : 100

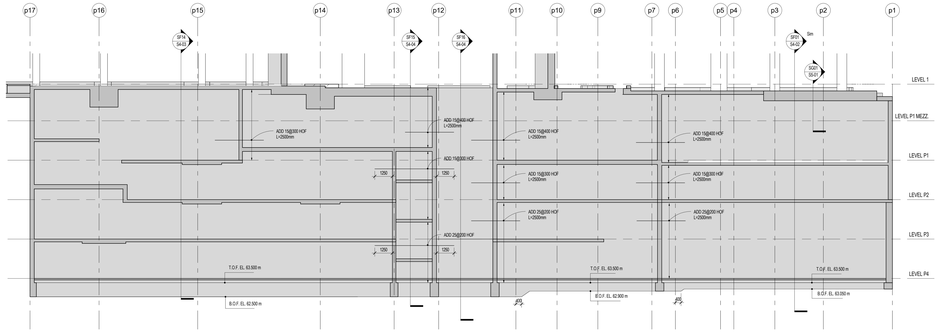


EAST FOUNDATION ELEVATION 1
1 : 100

EAST FOUNDATION ELEVATION 2
1 : 100



EAST FOUNDATION ELEVATION 3
1 : 100



SOUTH FOUNDATION ELEVATION
1 : 100

1. REFER TO TYPICAL DETAILS T-C56A AND TC56B FOR TLS (TENSION LAP SPLICE) AND CLS (COMPRESSION LAP SPLICE) LENGTHS.
2. OVERALL LENGTH OF REINFORCEMENT SHOULD ACCOUNT FOR VARIATIONS IN TOP OF FOOTING ELEVATION WHILE STILL MEETING THE MINIMUM LAP SPLICES INDICATED. VARIATIONS IN FOOTING ELEVATION DURING CONSTRUCTION WILL REQUIRE MODIFICATION TO REINFORCEMENT TO ACCOMMODATE ACCORDINGLY.

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not To Be Made Or Variables Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.(416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

No	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR IBT REVIEW	MAY 01,2015

AQUAVISTA
AT BAYSIDE TORONTO

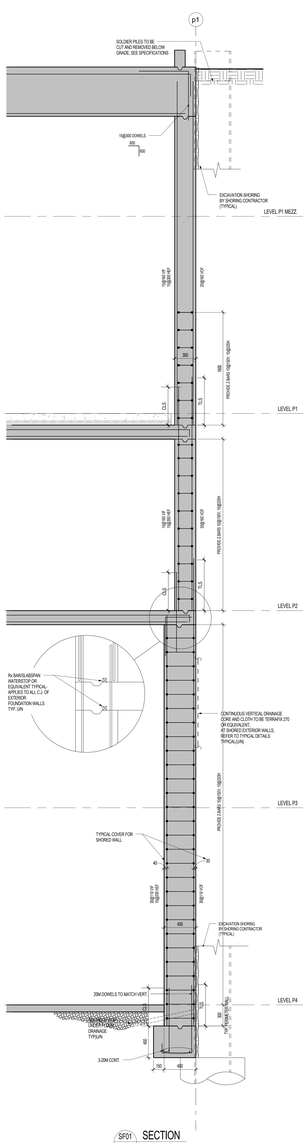
Drawing Title
FOUNDATION ELEVATIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

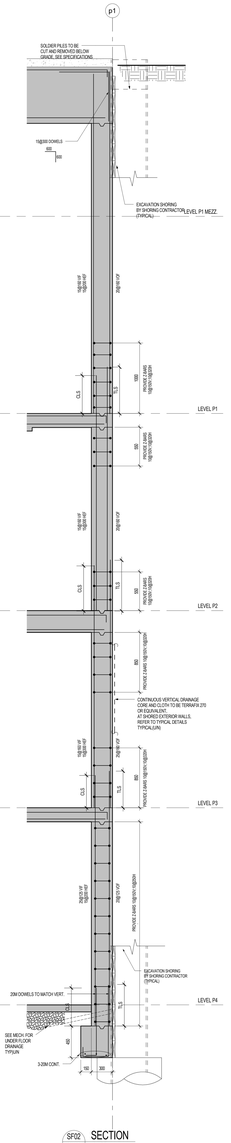
Scale	Drawn by
As indicated	DC
Checked by	Project No.
IA/BBS	20140031
Date	Drawing No.
MAY 12,2016	S4-01

Plot Date: 5/12/2016 10:01:46 AM

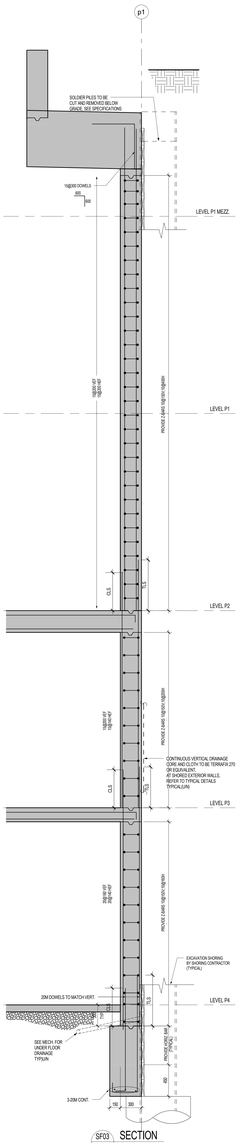
1. REFER TO TYPICAL DETAILS T-C06A AND TC06B FOR TLS (TENSION LAP SPLICE) AND CLS (COMPRESSION LAP SPLICE) LENGTHS.
2. OVERALL LENGTH OF REINFORCEMENT SHOULD ACCOUNT FOR VARIATIONS IN TOP OF FOOTING ELEVATION WHILE STILL MEETING THE MINIMUM LAP SPLICES INDICATED. VARIATIONS IN FOOTING ELEVATION DURING CONSTRUCTION WILL REQUIRE MODIFICATION TO REINFORCEMENT TO ACCOMMODATE ACCORDINGLY.



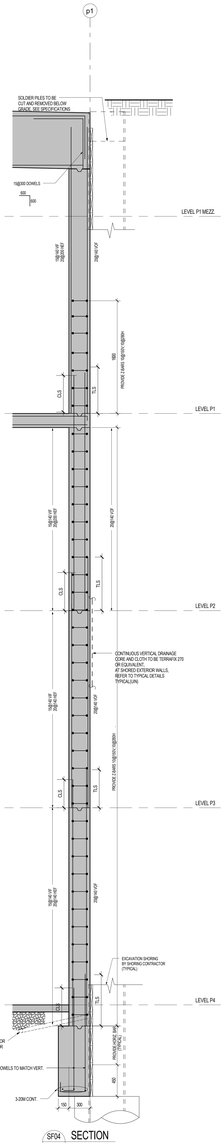
SF01 SECTION
S4-02 1 : 20



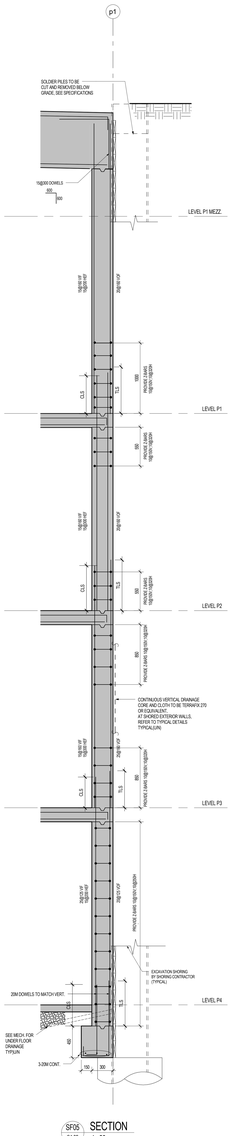
SF02 SECTION
S4-02 1 : 20



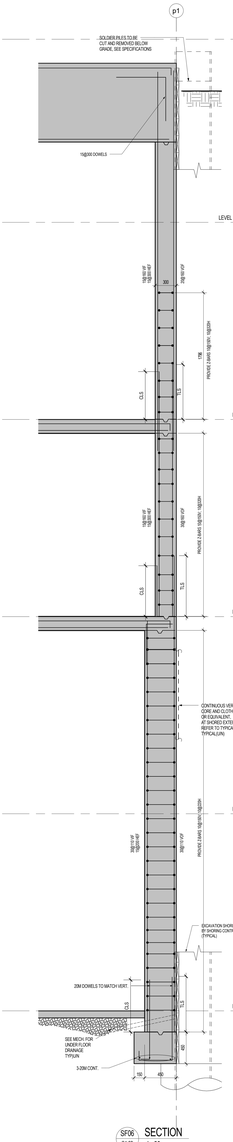
SF03 SECTION
S4-02 1 : 20



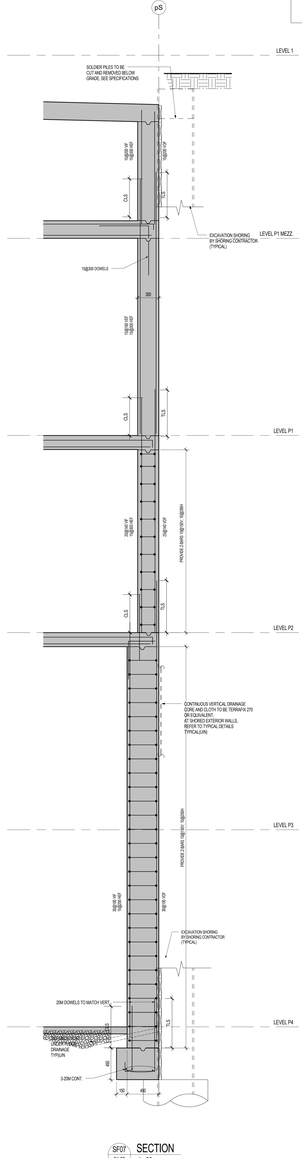
SF04 SECTION
S4-02 1 : 20



SF05 SECTION
S4-02 1 : 20



SF06 SECTION
S4-02 1 : 20



SF07 SECTION
S4-02 1 : 20

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Parts Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 1678
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR AIT REVIEW	MAY 01,2015

No	Issued For	Date

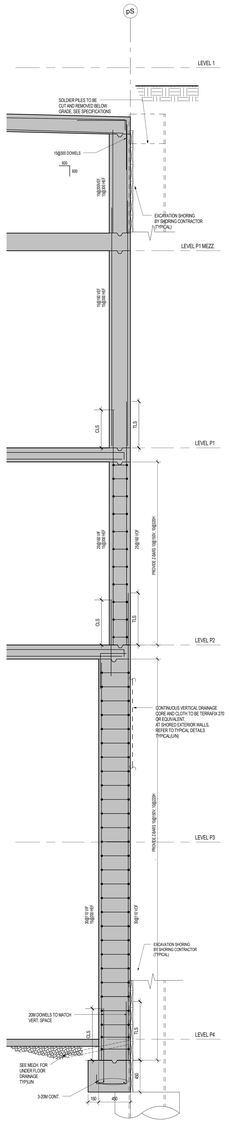
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
FOUNDATION SECTIONS

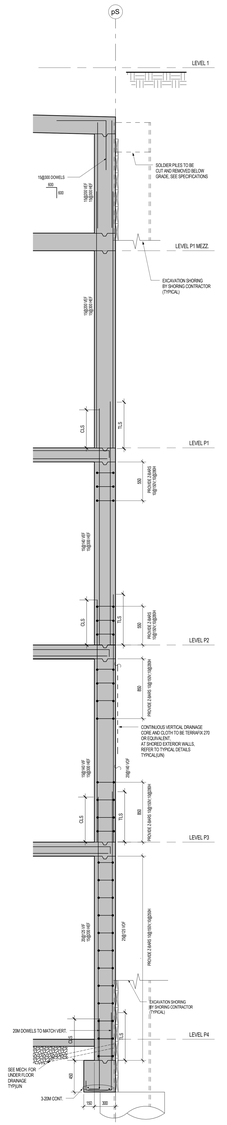
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No.	2014003?
Date	MAY 12,2016
Drawing No.	S4-02

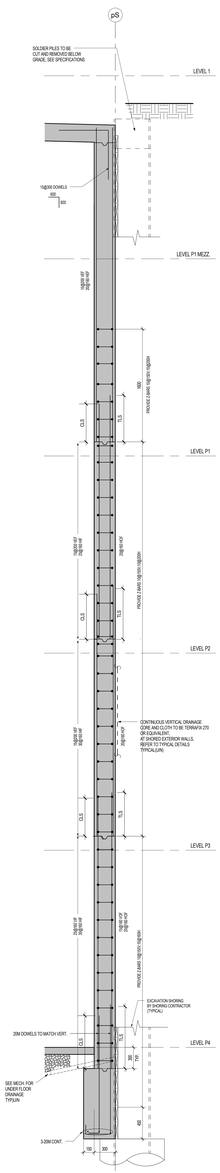
Plot Date: 5/12/2016 10:01:52 AM



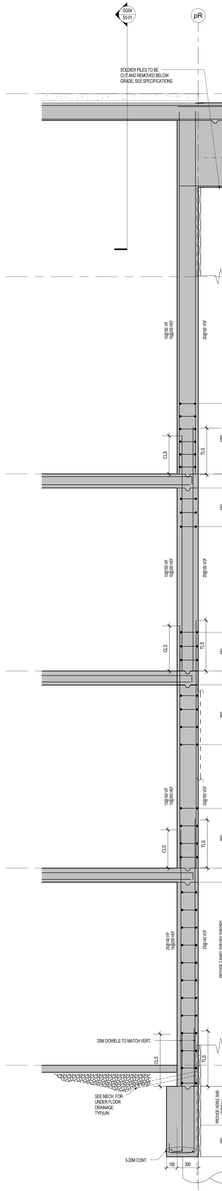
SF08 SECTION
S4-03 1 : 20



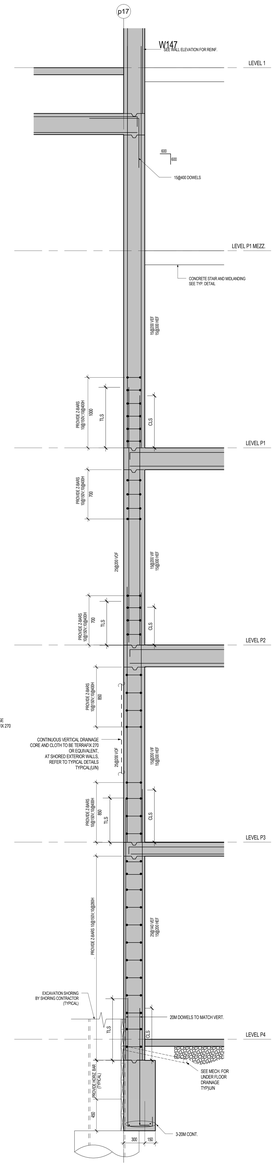
SF09 SECTION
S4-03 1 : 20



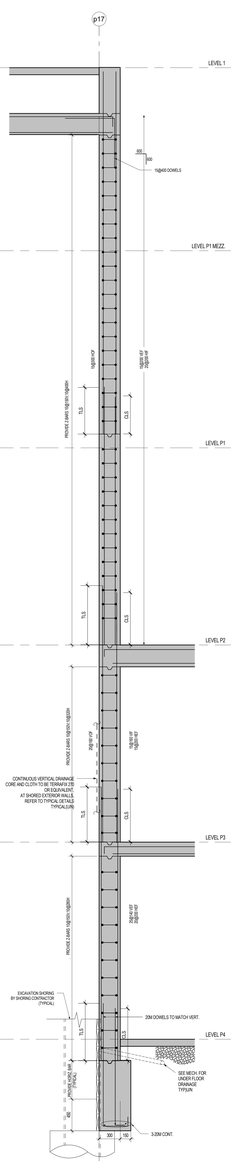
SF10 SECTION
S4-03 1 : 20



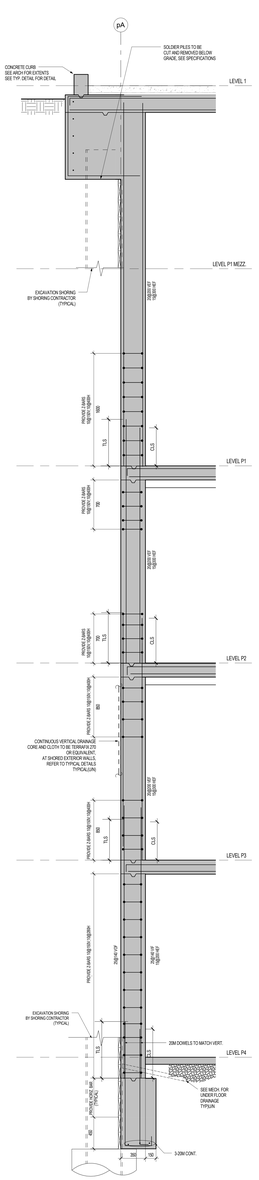
SF11 SECTION
S4-03 1 : 20



SF12 SECTION
S4-03 1 : 20



SF13 SECTION
S4-03 1 : 20



SF14 SECTION
S4-03 1 : 20

1. REFER TO TYPICAL DETAILS T-C56A AND TC56B FOR TLS (TENSION LAP SPLICE) AND CLS (COMPRESSION LAP SPLICE) LENGTHS.
2. OVERALL LENGTH OF REINFORCEMENT SHOULD ACCOUNT FOR VARIATIONS IN TOP OF FOOTING ELEVATION WHILE STILL MEETING THE MINIMUM LAP SPLICES INDICATED. VARIATIONS IN FOOTING ELEVATION DURING CONSTRUCTION WILL REQUIRE MODIFICATION TO REINFORCEMENT TO ACCOMMODATE ACCORDINGLY.

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Any Form Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 499 9676
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 01,2015

No	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

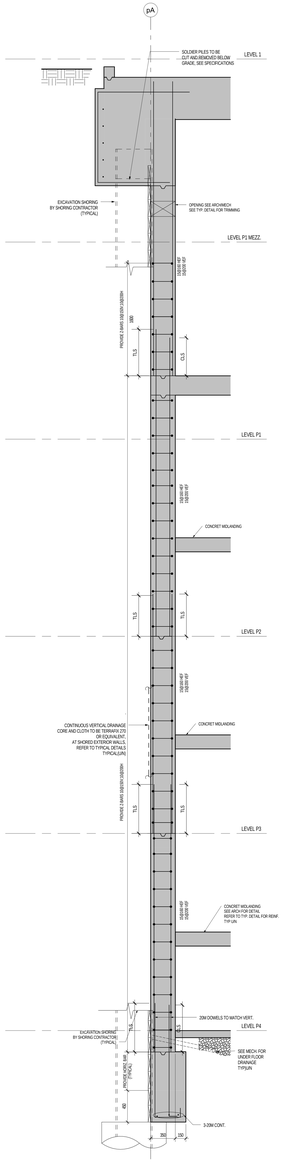
Drawing Title
FOUNDATION SECTIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

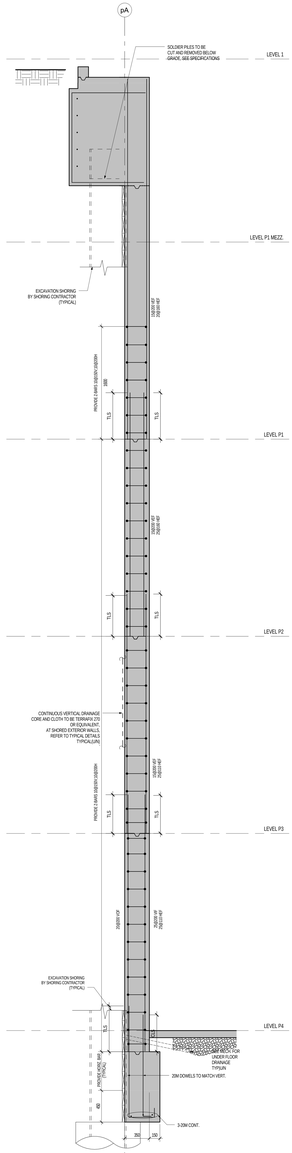
Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No.	2014003?
Date	MAY 12,2016
Drawing No.	S4-03

Plot Date: 5/12/2016 10:01:54 AM

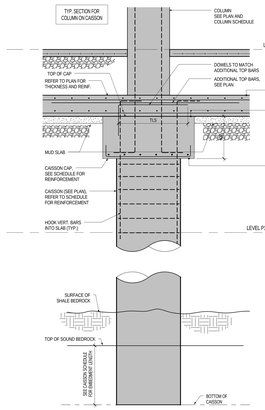
1. REFER TO TYPICAL DETAILS C-02 AND C-03 FOR TLS (TENSION LAP SPLICE) AND CLS (COMPRESSION LAP SPLICE) LENGTHS.
2. OVERALL LENGTH OF REINFORCEMENT SHOULD ACCOUNT FOR VARIATIONS IN TOP OF FOOTING ELEVATION WHILE STILL MEETING THE MINIMUM LAP SPLICES INDICATED. VARIATIONS IN FOOTING ELEVATION DURING CONSTRUCTION WILL REQUIRE MODIFICATION TO REINFORCEMENT TO ACCOMMODATE ACCORDINGLY.



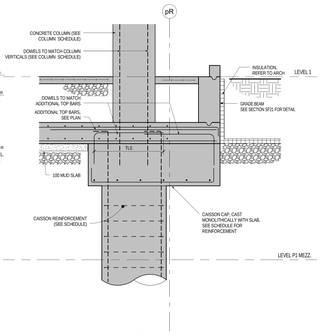
SF15 SECTION
S4-04 1 : 20



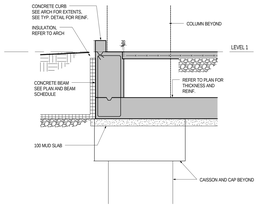
SF16 SECTION
S4-04 1 : 20



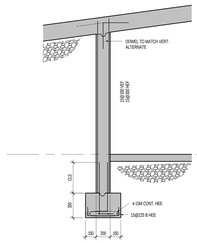
SF17 SECTION
S4-04 1 : 20



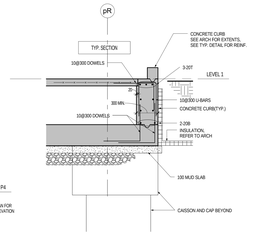
SF18 SECTION
S4-04 1 : 20



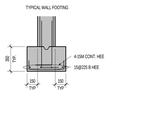
SF19 SECTION
S4-04 1 : 20



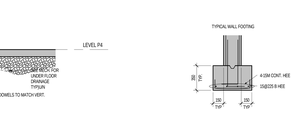
SF20 SECTION
S4-04 1 : 20



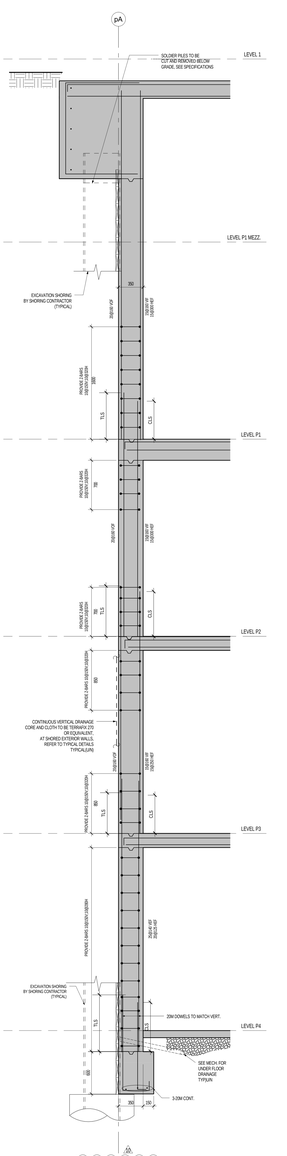
SF21 SECTION
S4-04 1 : 20



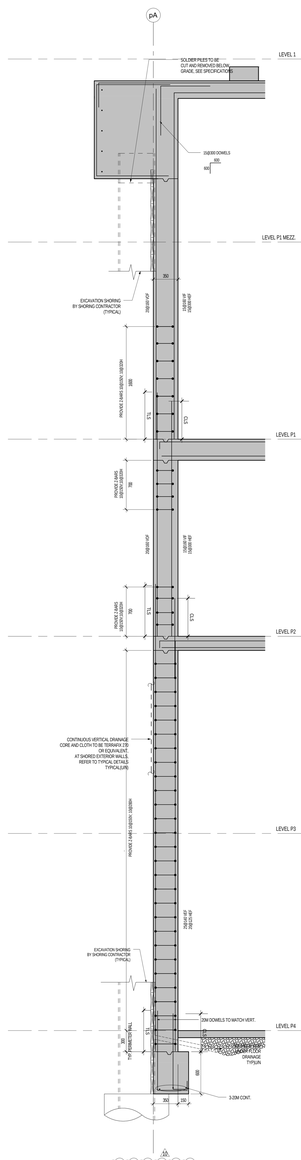
SF22 SECTION
S4-04 1 : 20



SF23 SECTION
S4-04 1 : 20



SF25 SECTION
S4-04 1 : 20



SF24 SECTION
S4-04 1 : 20

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Parts Is Forbidden Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

7 TRAVIS LEE 100147855 PROFESSIONAL ENGINEER JULY 20,2016

5 BARDWAN SYED 100147855 PROFESSIONAL ENGINEER JULY 20,2016

stephenson ENGINEERING

2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 495 7676
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

No	Issued For	Date
10	RESSUED FOR PERMIT	JULY 20,2016
9	RESSUED FOR PERMIT	JULY 15,2016
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	ISSUED FOR CAISSONS AND PILE CAPS ONLY	NOV 30,2015
4	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
3	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR MT REVIEW	MAY 21,2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

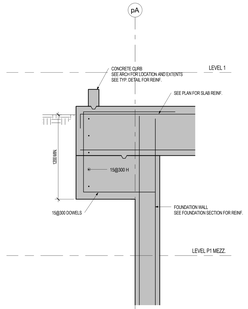
FOUNDATION SECTIONS

Project

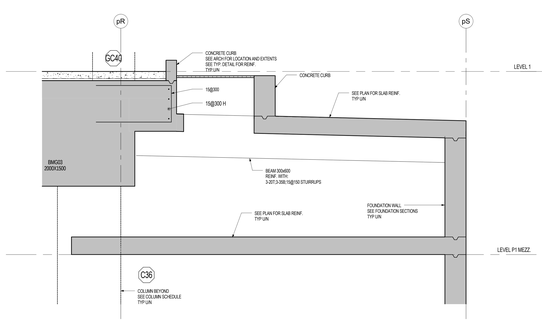
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	As indicated
Drawn by	DC
Checked by	IA/BBS
Project No.	2014-00031
Date	JULY 20,2016
Drawing No.	S4-04

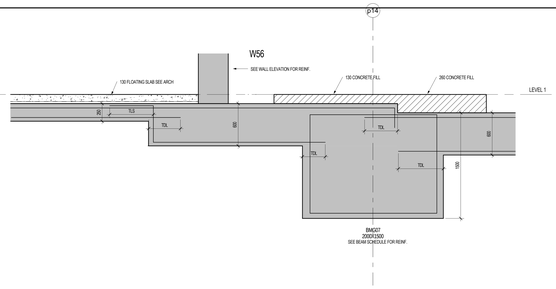
Plot Date: 7/20/2016 11:15:52 AM



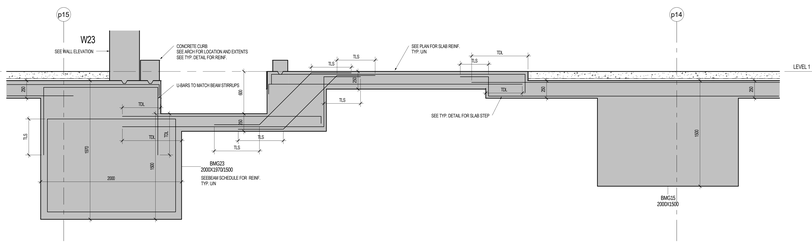
SG01 SECTION
SS-01 1 : 20



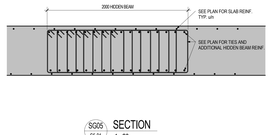
SG02 SECTION
SS-01 1 : 20



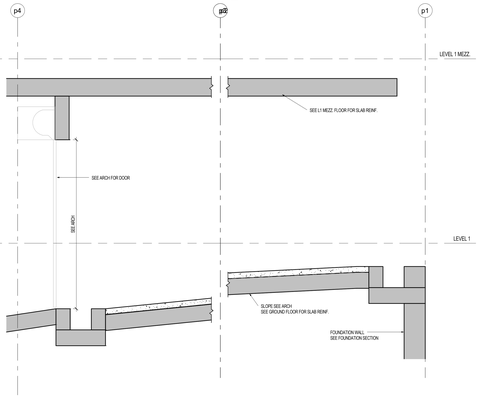
SG03 SECTION
SS-01 1 : 20



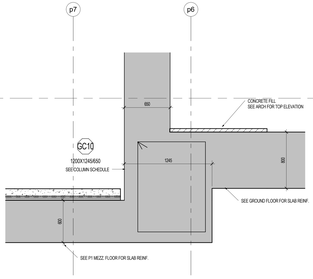
SG04 SECTION
SS-01 1 : 20



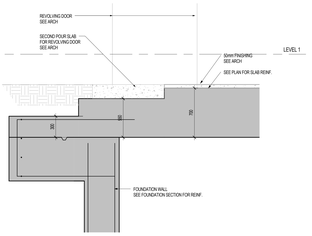
SG05 SECTION
SS-01 1 : 20



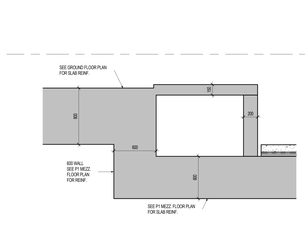
SG06 SECTION
SS-01 1 : 20



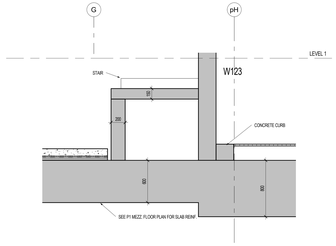
SG07 SECTION
SS-01 1 : 20



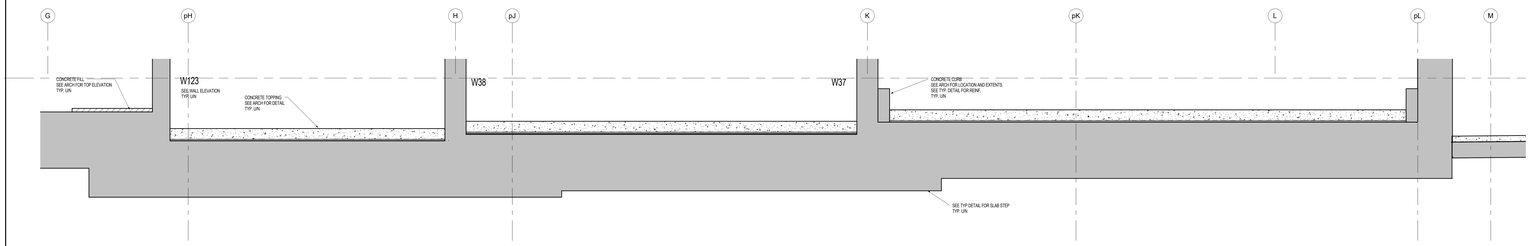
SG08 SECTION
SS-01 1 : 20



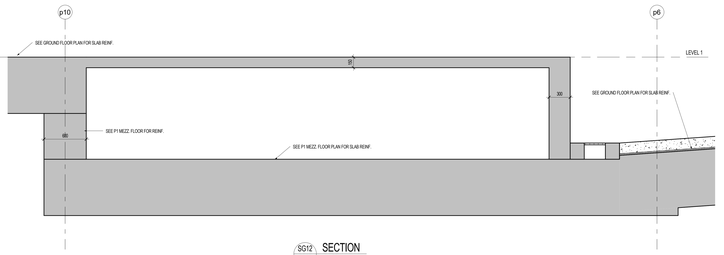
SG09 SECTION
SS-01 1 : 20



SG10 SECTION
SS-01 1 : 20



SG11 SECTION
SS-01 1 : 20



SG12 SECTION
SS-01 1 : 20

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Without Written Consent Is A Violation Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 | Tel: (416) 426 7475
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

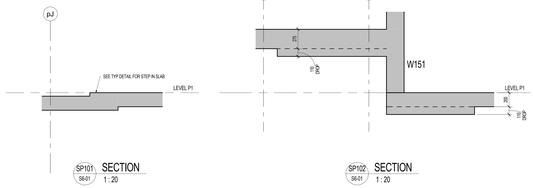
No.	Issued For	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
4	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
3	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
GROUND FLOOR SECTIONS

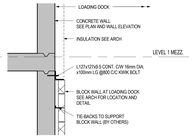
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 20
Drawn by	DC
Checked by	BK/BBS
Project No.	2014-0031
Date	MAY 12,2016
Drawing No.	S5-01

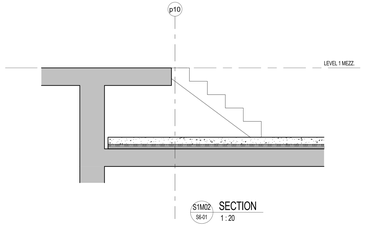


SP101 SECTION
S6-01 1 : 20

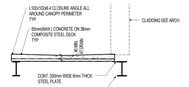
SP102 SECTION
S6-01 1 : 20



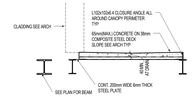
S1M01 SECTION
S6-01 1 : 20



S1M02 SECTION
S6-01 1 : 20



S1M03 SECTION
S6-01 1 : 20



S1M04 SECTION
S6-01 1 : 20

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Any Fashion Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed ByThe Architect.

Date

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel: (416) 426 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

6	BUILDING PERMIT RESUBMISSION	MAY 12,2016

No	Issued For	Date

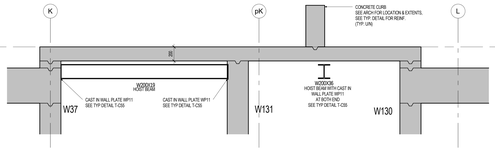
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
FLOOR SECTIONS

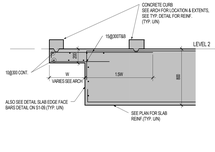
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale: 1 : 20
Drawn by: Author
Checked by: Checker
Project No: 20140031
Date: MAY 12,2016
Drawing No:
S6-01

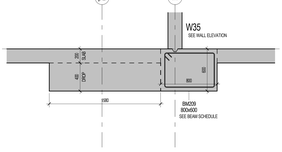
Plot Date: 5/12/2016 10:02:00 AM



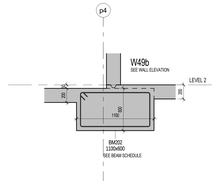
201 SECTION
S6-02 1 : 20



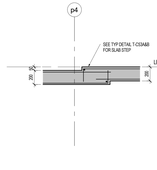
S202 SECTION
S6-02 1 : 20



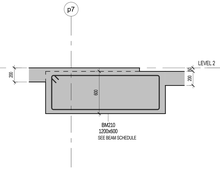
S203 SECTION
S6-02 1 : 20



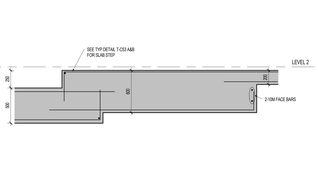
S204 SECTION
S6-02 1 : 20



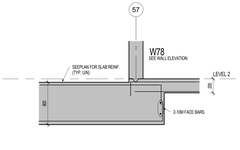
S205 SECTION
S6-02 1 : 20



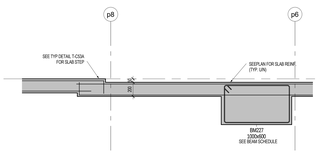
S206 SECTION
S6-02 1 : 20



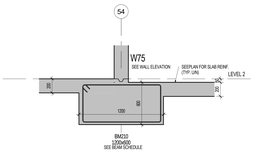
S207 SECTION
S6-02 1 : 20



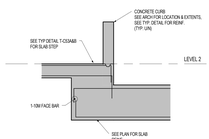
S208 SECTION
S6-02 1 : 20



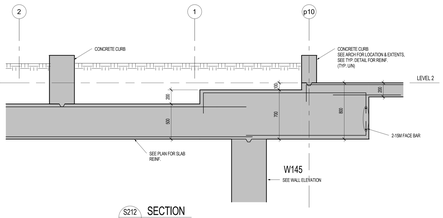
S209 SECTION
S6-02 1 : 20



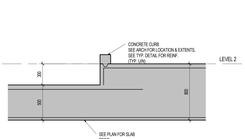
S210 SECTION
S6-02 1 : 20



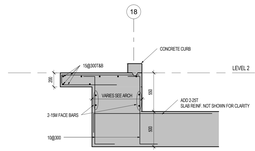
S211 SECTION
S6-02 1 : 20



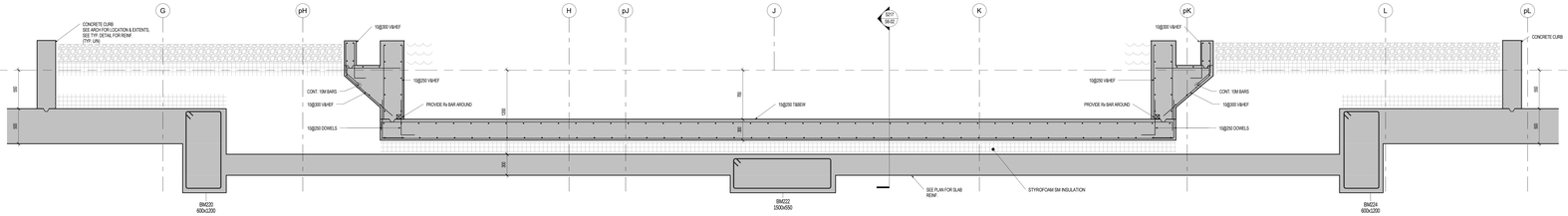
S212 SECTION
S6-02 1 : 20



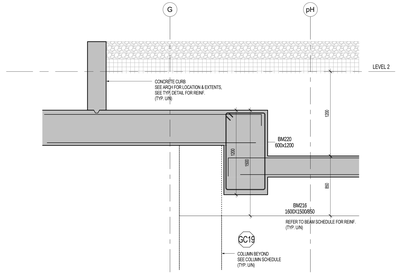
S213 SECTION
S6-02 1 : 20



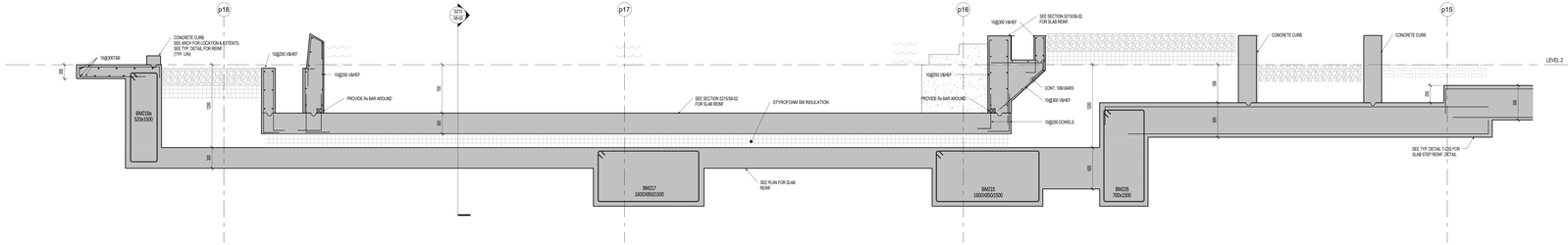
S214 SECTION
S6-02 1 : 20



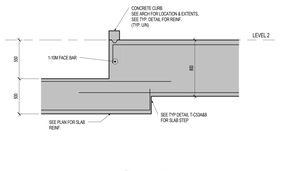
S215 SECTION
S6-02 1 : 20



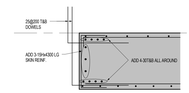
S216 SECTION
S6-02 1 : 20



S217 SECTION
S6-02 1 : 20



S218 SECTION
S6-02 1 : 20



S219 SECTION
S6-02 1 : 20

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Whole Or In Part Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date

PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO
T. TANASLEVIC
100115239
MAY 12,2016

PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO
S. SHROWAH SYED
100115239
MAY 12,2016

stephenson ENGINEERING
2500 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 | Tel.(416) 426 7475
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

6	BUILDING PERMIT RESUBMISSION	MAY 12,2016

No	Issued For	Date

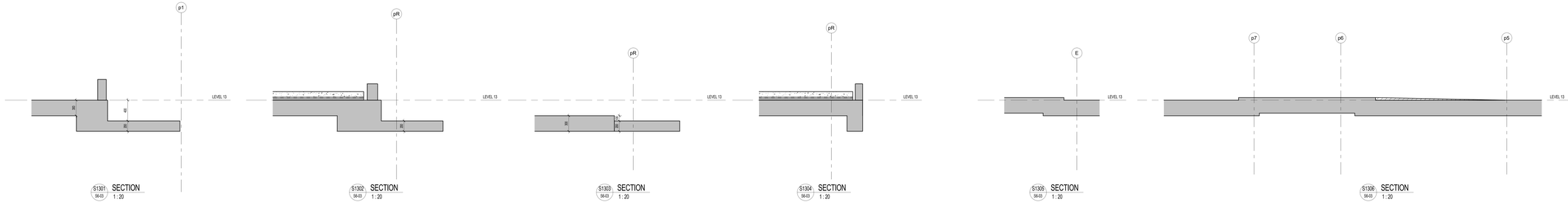
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
FLOOR SECTIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 20
Drawn by	Author
Checked by	Checker
Project No.	20140031
Date	MAY 12,2016
Drawing No.	S6-02

Plot Date: 5/12/2016 10:02:05 AM



S1301 SECTION
S6-03 1 : 20

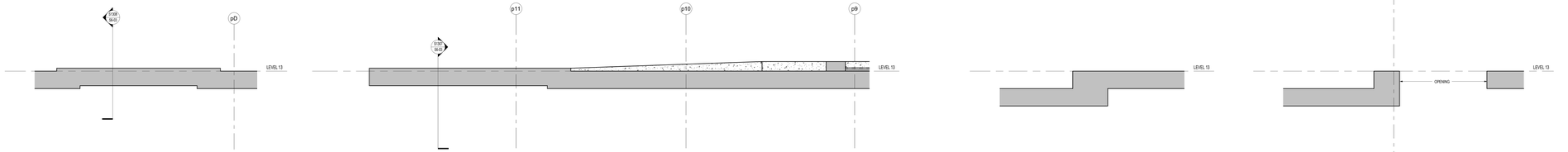
S1302 SECTION
S6-03 1 : 20

S1303 SECTION
S6-03 1 : 20

S1304 SECTION
S6-03 1 : 20

S1305 SECTION
S6-03 1 : 20

S1306 SECTION
S6-03 1 : 20

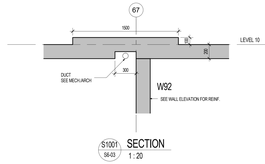


S1307 SECTION
S6-03 1 : 20

S1308 SECTION
S6-03 1 : 20

S1309 SECTION
S6-03 1 : 20

S1310 SECTION
S6-03 1 : 20



S1001 SECTION
S6-03 1 : 20

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted Nor Is It Loanable Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.:(416) 495 7976
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date

No.	Issued For	Date
8	BUILDING PERMIT	MAY 12,2016
7	ISSUED FOR TENDER ISSUED FOR STEEL TENDER	DEC.16,2015

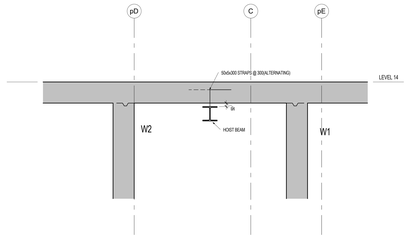
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
FLOOR SECTIONS

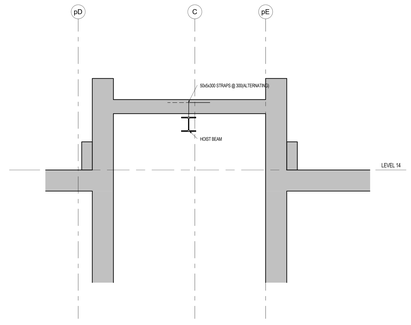
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale: 1 : 20
Drawn by: DC
Checked by: BBS
Project No: 20140031
Date: MAY 12,2016
Drawing No: S6-03

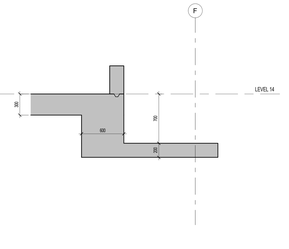
Plot Date: 5/12/2016 10:02:08 AM



SR01 SECTION
ST-01 1 : 20



SR02 SECTION
ST-01 1 : 20



SR03 SECTION
ST-01 1 : 20

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.

Reproduction Of Drawings, Specifications And Related Documents Is Not Permitted In Whole Or Part Without The Architects Written Permission.

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date:

stephenson
ENGINEERING

2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.(416) 428 7975
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

No	Issued For	Date
8	BUILDING PERMIT	MAY 12,2016
7	ISSUED FOR TENDER ISSUED FOR STEEL TENDER	DEC.16,2015

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
ROOF SECTIONS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 20
Drawn by	DC
Checked by	BBS
Project No.	20140031
Date	MAY 12,2016
Drawing No.	S7-01

Plot Date: 5/12/2016 10:02:08 AM

GENERAL NOTES — T-A01

1. GENERAL
   1.1. DESIGN AND CONSTRUCTION IS TO CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE REFER ALSO TO TYPICAL DETAILS NOTE, SHOWN UNDER PLANS AND SCHEDULES ON THE STRUCTURAL DRAWINGS, AND TO THE SPECIFICATION, ALL CODES MANUALS, STANDARDS AND SPECIFICATIONS REFERRED TO SHALL BE THE LATEST EDITIONS INCLUDING ALL REVISIONS AND ADDENDA. ALL DIMENSIONS, OTHER THAN ELEVATIONS, ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL DIMENSIONS ARE TO BE CHECKED AGAINST THE ARCHITECTURAL DRAWINGS AND NOT SCALED. DISCREPANCIES REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. STRUCTURAL DRAWINGS MUST NOT BE SCALED.
   1.2. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS, TRENCHES, PITS, SUMPS, EQUIPMENT, SLEEVES, DEPRESSIONS, GROOVES AND CHAMFERS NOT SHOWN ON THE STRUCTURAL DRAWINGS. ARCHITECTURAL DRAWINGS ARE TO BE REVIEWED FOR ITEMS WHICH MAY SHOWN ON THE STRUCTURAL DRAWINGS ARE INDICATED ONLY APPROXIMATELY AS TO SIZE AND LOCATION.
   1.3. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PENETRATIONS HAVE BEEN MADE IN THE DESIGN FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE ALL NECESSARY OPENINGS AS REQUIRED FOR CONSTRUCTION AND TO ENSURE THAT THE OPENINGS DO NOT CAUSE DOWNSTREAM OVERLOADING. ACCEPT WHERE TO BE BOLTED OR WELDED TOGETHER, PRIOR TO SHIPMENT, AT MANUFACTURERS WORKS (WITH CONTRACTOR).
   1.4. ALL STEEL IN CONTACT WITH CONCRETE OR MASONRY WALLS WITH PERMISSION AND MUST BE FILLED WITH EPOXY GROUT OR NON-SHRINK GROUT TO BE APPROVED BY THE STRUCTURAL ENGINEER.
   1.5. STEEL LINTELS ARE TO BE SUPPLIED BY STEEL CONTRACTOR BUT PLACED BY GENERAL CONTRACTOR OR MASONRY SUB-CONTRACTOR.
   1.6. STEEL CONTRACTOR TO SUPPLY ALL NECESSARY DIRECTIONS REQUIRED FOR PLACING STEEL LINTELS.
   1.7. ALL EXPOSED STEEL WORK TO BE PRIMED WITH ONE COAT OF RUST INHIBITIVE PRIMER PAINT. STEEL OVER DOORS, MECHANICAL AND ELECTRICAL SERVICES, RECESSED AND POCKETED TO BE PAINTED AND GALVANIZED MASONRY WALLS. IF IS THE GENERAL CONTRACTORS RESPONSIBILITY TO CO-ORDINATE AND SUPPLY ALL LINTELS REQUIRED THROUGH ALL WALLS, DESIGN, SHOP DRAWINGS AND MANUFACTURE THE PROJECT. UNLESS OTHERWISE DIRECTED, LINTELS SHALL CONFORM TO THE ABOVE REQUIREMENTS.
   1.8. REFER ALSO TO TYPICAL DETAILS

LINTEL NOTES — T-A06

UNLESS OTHERWISE SHOWN OR NOTED ON THE STRUCTURAL DRAWINGS, PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS, AS FOLLOWS:

1. 100mm (4") DEEP MASONRY LINTEL BLOCK
   1.1. ONE ANGLE 90 x 90 x 6 [3 1/2" x 3 1/2" x 1/4"] FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
   1.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-15M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
2. FOR OPENINGS FROM 100mm (4") CLEAR TO 300mm (8") CLEAR:
   2.1. ONE ANGLE 125 x 90 x 8 LONG LEG VERTICAL (5"x 3 1/2" x 5/16") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
   OR
   2.2. 150mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-15M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
3. FOR OPENINGS OVER 300mm (8") CLEAR TO 1500mm (5'-0") CLEAR:
   3.1. ONE ANGLE 125 x 90 x 8 LONG LEG VERTICAL (5"x 3 1/2" x 5/16") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
   OR
   3.2. 150mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-15M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
4. ALL LINTELS TO BEAR 150mm (6") MINIMUM AT EACH END ON SOLID MASONRY, UNLESS SHOWN OTHERWISE.
5. PARTS OF LINTEL ANGLES ARE TO BE BOLTED OR WELDED TOGETHER, PRIOR TO SHIPMENT, AT MANUFACTURERS WORKS (WITH CONTRACTOR).
6. CONCRETE LINTEL BLOCKS MAY ONLY BE USED IN LOAD-BEARING WALLS WITH PERMISSION AND MUST BE FILLED WITH 20MPA CONCRETE AND TO BE APPROVED BY THE STRUCTURAL ENGINEER.

COLUMNS														
			UNCOATED BLACK BARS											
			10M		15M		20M		25M		30M		35M	
			300	440	300	590	300	780	400	1040	500	1300	600	1560
			350	440	350	590	350	780	450	1040	550	1300	650	1560
			400	440	400	590	400	780	500	1040	600	1300	700	1560
			450	440	450	590	450	780	550	1040	650	1300	750	1560
			500	440	500	590	500	780	600	1040	700	1300	800	1560
			550	440	550	590	550	780	650	1040	750	1300	850	1560
			600	440	600	590	600	780	700	1040	800	1300	900	1560
			650	440	650	590	650	780	750	1040	850	1300	950	1560
			700	440	700	590	700	780	800	1040	900	1300	1000	1560
			750	440	750	590	750	780	850	1040	950	1300	1050	1560
			800	440	800	590	800	780	900	1040	1000	1300	1100	1560
			850	440	850	590	850	780	950	1040	1050	1300	1150	1560
			900	440	900	590	900	780	1000	1040	1100	1300	1200	1560
			950	440	950	590	950	780	1050	1040	1150	1300	1250	1560
			1000	440	1000	590	1000	780	1100	1040	1200	1300	1300	1560

7. ALL LINTELS ARE TO BE SUPPLIED BY STEEL CONTRACTOR BUT PLACED BY GENERAL CONTRACTOR OR MASONRY SUB-CONTRACTOR.
8. STEEL CONTRACTOR TO SUPPLY ALL NECESSARY DIRECTIONS REQUIRED FOR PLACING STEEL LINTELS.
9. ALL EXPOSED STEEL WORK TO BE PRIMED WITH ONE COAT OF RUST INHIBITIVE PRIMER PAINT. STEEL OVER DOORS, MECHANICAL AND ELECTRICAL SERVICES, RECESSED AND POCKETED TO BE PAINTED AND GALVANIZED MASONRY WALLS. IF IS THE GENERAL CONTRACTORS RESPONSIBILITY TO CO-ORDINATE AND SUPPLY ALL LINTELS REQUIRED THROUGH ALL WALLS, DESIGN, SHOP DRAWINGS AND MANUFACTURE THE PROJECT. UNLESS OTHERWISE DIRECTED, LINTELS SHALL CONFORM TO THE ABOVE REQUIREMENTS.
10. REFER ALSO TO TYPICAL DETAILS

TYPICAL CONCRETE COVER TABLE — C01

VERTICAL ELEMENTS	PROJECT SPECIFIC COMMENTS	BAR SIZE	CONCRETE EXPOSURE									
			CHLORIDES WITH/ WITHOUT FREEZE THAW COVER TO ALL FACES (mm)			NO CHLORIDES WITH FREEZE THAW COVER TO ALL FACES (mm)			NO CHLORIDES OR FREEZE THAW COVER TO ALL FACES (mm)		
			FIRE RATING			FIRE RATING			FIRE RATING		
			≤ 2 HR	3 HR	4 HR	≤ 2 HR	3 HR	4 HR	≤ 2 HR	3 HR	4 HR
WALLS	ANY WALLS EXPOSED TO FIRE ON ONE SIDE ONLY (FOUNDATION, ELEVATOR AND STAIRS, DEMISING WALLS)	Ø ≤ 25M	40	60*	60*	30	40	40	20	25	25
		30M	40	60*	60*	40	40	50	30	30	30
		35M	55	70*	70*	50	55	55	35	35	35
		45M	70	70*	70*	70	70	70	45	45	45
		55M	85	110*	110*	85	85	85	55	55	55
	INTERIOR WALLS EXPOSED TO FIRE BOTH SIDES SIMULTANEOUSLY	Ø ≤ 25M	40	60*	60*	30	40	40	20	25	25
		30M	40	60*	60*	40	40	50	30	30	30
		35M	55	70*	70*	50	55	55	35	35	35
		45M	70	70*	70*	70	70	70	45	45	45
		55M	85	110*	110*	85	85	85	55	55	55
COLUMNS	COLUMNS EXPOSED TO FIRE BOTH SIDES SIMULTANEOUSLY	Ø ≤ 25M	40	60*	60*	40	40	40	25	25	25
		30M	40	60*	60*	40	40	50	30	30	30
		35M	55	70*	70*	50	55	55	40	40	55
		45M	70	70*	70*	70	70	70	45	45	55
		55M	85	110*	110*	85	85	85	55	55	55
	HORIZONTAL ELEMENTS	PROJECT SPECIFIC COMMENTS	CONCRETE EXPOSURE									
			CHLORIDES WITH/ WITHOUT FREEZE THAW			NO CHLORIDES WITH FREEZE THAW			NO CHLORIDES OR FREEZE THAW		
		BAR SIZE	TOP COVER (mm)		BOTTOM & SIDE COVER (mm)	TOP COVER (mm)		BOTTOM & SIDE COVER (mm)	TOP COVER (mm)		BOTTOM & SIDE COVER (mm)
			FIRE RATING			FIRE RATING			FIRE RATING		
			≤ 2 HR	3 HR	4 HR	≤ 2 HR	3 HR	4 HR	≤ 2 HR	3 HR	4 HR
BEAMS	ALL BEAMS IN PARKING GARAGE TO BE PROTECTED BY MEMBRANE AND CORROSION INHIBITOR W/ REMAINDER OF STRUCTURE ASSUMED TO BE UNPROTECTED	Ø ≤ 30M	40	40	40	30	35	40	40	40	40	30
		35M	45	45	45	45	45	45	45	45	45	35
		45M	55	55	55	55	55	55	55	55	55	45
		55M	70	70	70	70	70	70	70	70	70	55
	ALL SLABS IN PARKING GARAGE TO BE PROTECTED BY MEMBRANE AND CORROSION INHIBITOR W/ REMAINDER OF STRUCTURE ASSUMED TO BE UNPROTECTED	Ø ≤ 30M	40	40	40	30	40	40	40	40	40	30
		35M	55	55	55	55	55	55	55	55	55	35
		45M	70	70	70	70	70	70	70	70	70	45
		55M	85	85	85	85	85	85	85	85	85	55
SLABS	ELEMENTS EXPOSED TO EARTH	PROJECT SPECIFIC COMMENTS	50									
	PERMANENTLY EXPOSED TO SOIL (SIDE AND TOP OF FOOTINGS)	ALL SIZES	50									
	CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL (UNDERSIDES OF FOOTINGS)	ALL SIZES	75									

TABLE NOTES
1. CONCRETE COVER SHALL BE MEASURED FROM THE DEEPEST POINT OF TEXTURED CONCRETE SURFACE TO THE NEAREST DEFORMATION OF REINFORCEMENT. REINFORCEMENT INCLUDES TIES, STIRRUPS AND MAIN BARS.
2. FOR CONCRETE COVER FOR BUILDING FACE WALLS EXPOSED TO EXTERIOR ENVIRONMENT, REFER TO THE ARCHITECTURAL DRAWINGS FOR EXTERIOR WALL SECTIONS.
3. FOR VERTICAL ELEMENTS WITH CONCRETE COVER EXCEEDING 50mm, PROVIDE WIRE MESH REINFORCEMENT WITH MINIMUM 15mm DIAMETER WIRE WITH 150mm OPENINGS AT MID-POINT OF COVER.
4. FOR CONCRETE COVER FOR BUILDING BASES, REFER TO THE DESIGN DRAWINGS.
5. FOR FIRE RATING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS

COMPRESSION-TENSION DEVELOPMENT AND LAP LENGTHS Fy = 400 MPa — C02A

1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOWS
   TLS - TENSION LAP SPLICE
   CDL - COMPRESSION DEVELOPMENT LENGTH
   HEL - HOOK EMBEDMENT LENGTH

COMPRESSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 400 MPa)

CLS- COMPRESSION LAP SPLICE LENGTH (mm)

10M	15M	20M	25M	30M	35M	45M	55M
300	440	590	780	1040	1300	1560	NOT PERMITTED

CDL- COMPRESSION DEVELOPMENT LENGTH (mm)	UNCOATED BLACK BARS							
f'c	10M	15M	20M	25M	30M	35M	45M	55M
20MPa	250	340	430	545	660	770	940	1210
25MPa	230	300	390	490	590	690	850	1090
30MPa	210	280	360	445	535	630	775	990
35MPa	200	260	340	420	505	590	730	940
40MPa	200	240	320	400	480	560	690	890
45MPa	200	240	300	380	455	530	655	840
50MPa	200	240	300	360	430	505	620	800
55MPa	200	240	300	360	415	480	595	765
60MPa	200	240	300	360	400	460	570	735
65MPa	200	240	300	360	400	445	550	705
70MPa	200	240	300	360	400	430	530	680
75MPa	200	240	300	360	400	420	510	655
80MPa	200	240	300	360	400	410	490	630
85MPa	200	240	300	360	400	400	475	610
90MPa	200	240	300	360	400	400	460	590
95MPa	200	240	300	360	400	400	445	575
100MPa	200	240	300	360	400	400	430	555

NOTES:
1. IF STANDARD BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED:
   a. MULTIPLY BY 1.3 WHEN CLEAR COVER GREATER THAN 2 BAR DIAMETERS AND CLEAR SPACING GREATER THAN 6 BAR DIAMETERS
   b. MULTIPLY BY 1.4 WHEN COVER OR SPACING ARE LESS THAN ABOVE
2. FOR COMPRESSION IN SPIRALS, MULTIPLY THE VALUES IN THE TABLES BY 0.75
   a. MULTIPLY BY 1.3 FOR OTHER BAR DIAMETERS
   b. MULTIPLY BY 1.5 FOR 2-M (HOOKED TOGETHER)
3. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED:
   a. MULTIPLY BY 1.2 FOR 3-BAR BUNDLES; & MULTIPLY BY 1.33 FOR 4-BAR BUNDLES
   b. MULTIPLY BY 1.5 FOR 2-M (HOOKED TOGETHER)
4. FOR CONCRETE COVER FOR BUILDING BASES, REFER TO THE DESIGN DRAWINGS.
5. FOR FIRE RATING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS

CDL- COMPRESSION DEVELOPMENT LENGTH (mm)	UNCOATED BLACK BARS							
f'c	10M	15M	20M	25M	30M	35M	45M	55M
20MPa	210	430	535	680	810	940	1150	1420
25MPa	190	380	480	610	725	845	1040	1280
30MPa	175	350	440	555	660	770	945	1165
35MPa	160	325	410	520	620	720	890	1100
40MPa	150	305	385	490	585	685	840	1040
45MPa	140	290	365	465	555	650	800	985
50MPa	135	275	350	445	530	620	760	940
55MPa	130	265	335	425	510	595	730	900
60MPa	125	255	320	410	490	570	700	865
65MPa	120	245	310	395	470	550	675	835
70MPa	120	240	300	380	455	530	650	805
75MPa	120	240	300	370	440	515	630	780
80MPa	120	240	300	360	425	500	610	755
85MPa	120	240	300	360	415	485	590	735
90MPa	120	240	300	360	400	470	575	710
95MPa	120	240	300	360	400	460	560	690
100MPa	120	240	300	360	400	445	540	670

NOTES:
1. FOR EPOXY COATED BARS THE VALUES IN THE TABLES MUST BE INCREASED:
   a. MULTIPLY BY 1.5 WHEN COVER OR SPACING ARE LESS THAN ABOVE AND CLEAR SPACING GREATER THAN 6 BAR DIAMETERS
   b. MULTIPLY BY 1.8 WHEN COVER OR SPACING ARE LESS THAN ABOVE
2. FOR COMPRESSION IN SPIRALS, MULTIPLY THE VALUES IN THE TABLES BY 0.75
   a. MULTIPLY BY 1.3 FOR OTHER BAR DIAMETERS
   b. MULTIPLY BY 1.5 FOR 2-M (HOOKED TOGETHER)
3. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED:
   a. MULTIPLY BY 1.2 FOR 3-BAR BUNDLES; & MULTIPLY BY 1.33 FOR 4-BAR BUNDLES
   b. MULTIPLY BY 1.5 FOR 2-M (HOOKED TOGETHER)
4. FOR CONCRETE COVER FOR BUILDING BASES, REFER TO THE DESIGN DRAWINGS.
5. FOR FIRE RATING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS

TENSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 400 MPa) — C02B

1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOW
   TLS - TENSION LAP SPLICE
   TDL - TENSION DEVELOPMENT LENGTH

T.L.S- TENSION LAP SPLICE LENGTH (CLASS B) (mm)

f'c	10M		15M		20M		25M		30M		35M	
	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
20MPa	610	470	920	710	1230	940	1540	1180	1850	1420	2160	1650
25MPa	540	420	810	630	1090	840	1360	1050	1630	1260	1900	1470
30MPa	490	380	740	570	990	760	1235	1155	1630	1145	2130	1440
35MPa	450	350	680	525	910	700	1135	875	1365	1050	1780	1370
40MPa	420	325	630	490	850	655	1060	820	1275	985	1665	1285
45MPa	395	305	595	460	800	615	1000	770	1200	925	1570	1210
50MPa	375	290	560	435	755	585	945	730	1135	875	1485	1145
55MPa	355	275	535	410	715	555	895	690	1075	830	1405	1085
60MPa	340	260	510	395	680	525	850	655	1020	790	1335	1030
65MPa	325	250	485	375	650	500	810	625	975	750	1275	985
70MPa	310	240	465	360	620	480	775	600	930	720	1220	940
75MPa	300	230	450	345	600	465	750	580	900	695	1175	910
80MPa	290	225	435	335	580	450	725	560	870	670	1135	880
85MPa	280	215	420	325	560	435	700	540	840	650	1100	850
90MPa	270	210	405	315	540	420	675	520	810	625	1060	820
95MPa	260	200	395	305	525	405	655	505	785	605	1030	795
100MPa	250	195	380	295	505	390	630	485	760	585	990	765

NOTES:
1. FOR EPOXY COATED BARS THE VALUES IN THE TABLES MUST BE INCREASED:
   a. MULTIPLY BY 1.5 WHEN COVER OR SPACING ARE LESS THAN ABOVE AND CLEAR SPACING GREATER THAN 6 BAR DIAMETERS
   b. MULTIPLY BY 1.8 WHEN COVER OR SPACING ARE LESS THAN ABOVE
2. FOR COMPRESSION IN SPIRALS, MULTIPLY THE VALUES IN THE TABLES BY 0.75
   a. MULTIPLY BY 1.3 FOR OTHER BAR DIAMETERS
   b. MULTIPLY BY 1.5 FOR 2-M (HOOKED TOGETHER)
3. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED:
   a. MULTIPLY BY 1.2 FOR 3-BAR BUNDLES; & MULTIPLY BY 1.33 FOR 4-BAR BUNDLES
   b. MULTIPLY BY 1.5 FOR 2-M (HOOKED TOGETHER)
4. FOR CONCRETE COVER FOR BUILDING BASES, REFER TO THE DESIGN DRAWINGS.
5. FOR FIRE RATING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS

T.D.L- TENSION DEVELOPMENT LENGTH (mm) CLASS "A" LAP SPLICE

f'c	10M		15M		20M		25M		30M		35M	
	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
20MPa	380	300	570	440	760	590	1140	880	1520	1170	1900	1460
25MPa	340	270	510	390	680	525	1020	790	1360	1050	1700	1310
30MPa	310	240	460	360	615	475	925	715	1230	950	1540	1190
35MPa	285	220	430	330	570	440	855	660	1140	880	1425	1100
40MPa	265	205	400	305	530	410	795	615	1060	820	1325	1025
45MPa	250	190	375	290	500	385	750	580	1000	770	1250	965
50MPa	235	180	355	275	470	365	705	545	940	725	1175	910
55MPa	225	170	335	260	450	345	670	520	895	690	1120	860
60MPa	215	165	320	250	425	330	640	495	855	660	1065	825
65MPa	205	155	305	235	410	315	610	470	815	630	1020	785
70MPa	195	150	295	230	390	300	585	450	780	600	975	755
75MPa	190	145	285	220	380	295	565	435	755	580	945	730
80MPa	185	140	275	215	365	280	545	420	730	560	910	705
85MPa	175	135	265	205	350	270	525	405	700	540	875	675
90MPa	170	130	255	195	340	260	505	390	675	520	845	650
95MPa	165	125	245	190	330	250	490	380	655	505	820	630
100MPa	160	120	240	185	315	245	475	365	630	485	790	610

NOTES:
1. IF STANDARD BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED:
   a. MULTIPLY BY 1.3 WHEN COVER GREATER THAN 2 BAR DIAMETERS AND CLEAR SPACING GREATER THAN 6 BAR DIAMETERS
   b. MULTIPLY BY 1.4 WHEN COVER OR SPACING ARE LESS THAN ABOVE
2. FOR COMPRESSION IN SPIRALS, MULTIPLY THE VALUES IN THE TABLES BY 0.75
   a. MULTIPLY BY 1.3 FOR OTHER BAR DIAMETERS
   b. MULTIPLY BY 1.5 FOR 2-M (HOOKED TOGETHER)
3. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED:
   a. MULTIPLY BY 1.2 FOR 3-BAR BUNDLES; & MULTIPLY BY 1.33 FOR 4-BAR BUNDLES
   b. MULTIPLY BY 1.5 FOR 2-M (HOOKED TOGETHER)
4. FOR CONCRETE COVER FOR BUILDING BASES, REFER TO THE DESIGN DRAWINGS.
5. FOR FIRE RATING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS

TENSION AND COMPRESSION DEVELOPMENT AND LAP SPLICE LENGTHS Fy = 500 MPa — C03A

1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOW
   TLS - TENSION LAP SPLICE
   TDL - TENSION DEVELOPMENT LENGTH

TENSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 500 MPa)

CLS- COMPRESSION LAP SPLICE LENGTH (mm)

10M	15M	20M	25M	30M	35M	45M	55M
300	440	590	780	1040	1300	1560	NOT PERMITTED

CDL- COMPRESSION DEVELOPMENT LENGTH (mm)	UNCOATED BLACK BARS							
f'c	10M	15M	20M	25M	30M	35M	45M	55M
20MPa	310	430	535	680	810	940	1150	1420
25MPa	290	380	480	610	725	845	1040	1280
30MPa	270	350	440	555	660	770	945	1165
35MPa	250	325	410	520	620	720	890	1100
40MPa	240	305	385	490	585	685	840	1040
45MPa	230	290	365	465	555	650	800	985
50MPa	220	275	350	445	530	620	760	940
55MPa	210	265	335	425	510	595	730	900
60MPa	200	255	320	410	490	570	700	865
65MPa	200	245	310	395	470	550	675	835
70MPa	200	240	300	380	455	530	650	805
75MPa	200	240	300	370	440	515	630	780
80MPa	200	240	300	360	425	500	610	755
85MPa	200	240	300	360	415	485	590	735
90MPa	200	240	300	360	400	470	575	710
95MPa	200	240	300	360	400	460	560	690
100MPa	200	240	300	360	400	445	540	670

NOTES:
1. IF STANDARD BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED:
   a. MULTIPLY BY 1.3 WHEN COVER GREATER THAN 2 BAR DIAMETERS AND CLEAR SPACING GREATER THAN 6 BAR DIAMETERS
   b. MULTIPLY BY 1.4 WHEN COVER OR SPACING ARE LESS THAN ABOVE
2. FOR COMPRESSION IN SPIRALS, MULTIPLY THE VALUES IN THE TABLES BY 0.75
   a. MULTIPLY BY 1.3 FOR OTHER BAR DIAMETERS
   b. MULTIPLY BY 1.5 FOR 2-M (HOOKED TOGETHER)
3. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED:
   a. MULTIPLY BY 1.2 FOR 3-BAR BUNDLES; & MULTIPLY BY 1.33 FOR 4-BAR BUNDLES
   b. MULTIPLY BY 1.5 FOR 2-M (HOOKED TOGETHER)
4. FOR CONCRETE COVER FOR BUILDING BASES, REFER TO THE DESIGN DRAWINGS.
5. FOR FIRE RATING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS

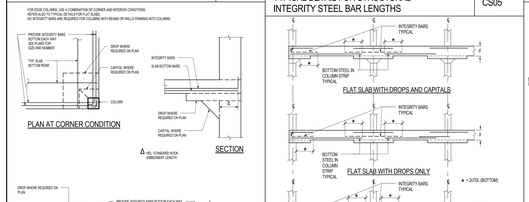
TENSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 500 MPa) — C03B

1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOW
   TLS - TENSION LAP SPLICE
   TDL - TENSION DEVELOPMENT LENGTH

T.L.S- TENSION LAP SPLICE LENGTH (CLASS B) (mm)

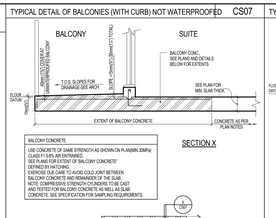
f'c	10M		15M		20M		25M		30M		35M	
	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
20MPa	610	470	920	710	1230	940	1540	1180	1850	1420	2160	1650
25MPa	540	420	810	630	1090	840	1360	1050	1630	1260	1900	1470
30MPa	490	380	740	570	990	760	1235	1155	1630	1145	2130	1440
35MPa	450	350	680	525	910	700	1135	875	1365	1050	1780	1370
40MPa	420	325	630	490	850	655	1060	820	1275	985	1665	1285
45MPa	395	305	595	460	800	615	1000	770	1200	925	1570	1210
50MPa	375	290	560	435	755	585	945	730	1135	875	1485	1145
55MPa	355	275	535	410	715	555	895	690	1075	830	1405	1085
60MPa	340	260	510	395	680	525	850	655	1020	790	1335	1030
65MPa	325	250	485	375	650	500	810	625	975	750	1275	985
70MPa	310	240	465	360	620	480	775	600	930	720	1220	940
75MPa	300	230	450	345	600	465	750	580	900	695	1175	910
80MPa	290	225	435	335	580	450	725	560	870	670	1135	880
85MPa	280	215	420	325	560	435	700	540	840	650	1100

INTEGRITY BARS IN FLAT SLABS — CS04

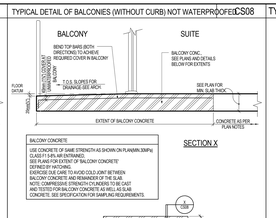


TYPICAL DETAIL FOR STRUCTURAL INTEGRITY STEEL BAR LENGTHS — CS05

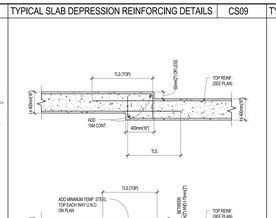
TYPICAL DETAIL OF BALCONIES (WITH CURB) NOT WATERPROOFED — CS07



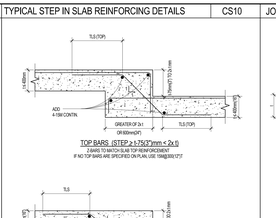
TYPICAL DETAIL OF BALCONIES (WITHOUT CURB) NOT WATERPROOFED — CS08



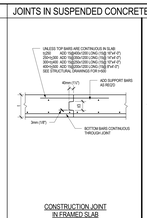
TYPICAL SLAB DEPRESSION REINFORCING DETAILS — CS09



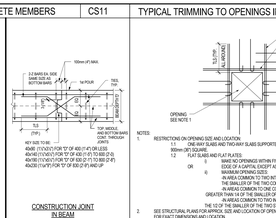
TYPICAL STEP IN SLAB REINFORCING DETAILS — CS10



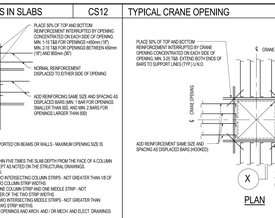
JOINTS IN SUSPENDED CONCRETE MEMBERS — CS11



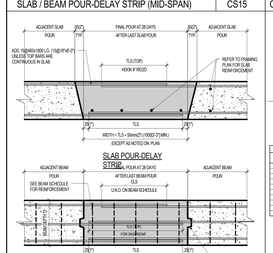
TYPICAL TRIMMING TO OPENINGS IN SLABS — CS12



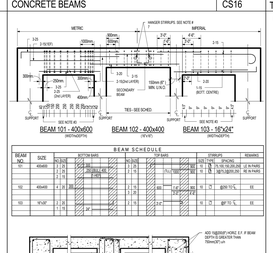
TYPICAL CRANE OPENING — CS13-R



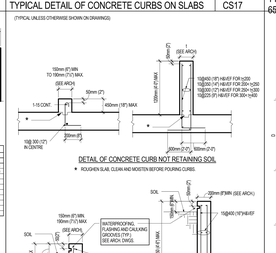
SLAB / BEAM POUR-DELAY STRIP (MID-SPAN) — CS15



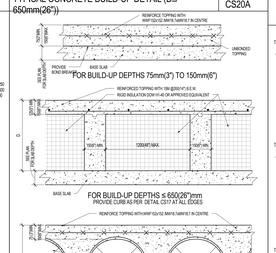
CONCRETE BEAMS — CS16



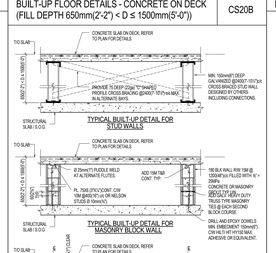
TYPICAL DETAIL OF CONCRETE CURBS ON SLABS — CS17



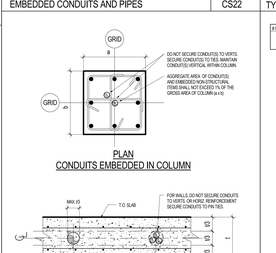
TYPICAL: CONCRETE BUILD-UP DETAIL (Ds = 650mm(26")) — CS20A



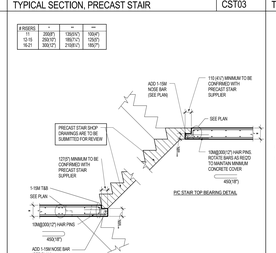
BUILT-UP FLOOR DETAILS - CONCRETE ON DECK (FILL DEPTH 650mm(2'-2") < D ≤ 1500mm(5'-0")) — CS20B



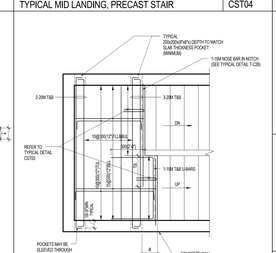
EMBEDDED CONDUITS AND PIPES — CS22



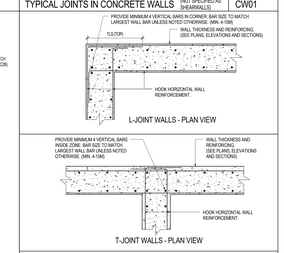
TYPICAL SECTION, PRECAST STAIR — CST03



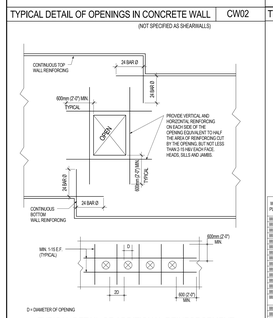
TYPICAL MID LANDING, PRECAST STAIR — CST04



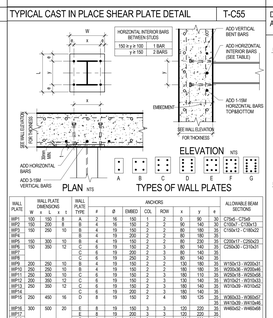
TYPICAL JOINTS IN CONCRETE WALLS — NOT SPECIFIED AS SHEARWALLS — CW01



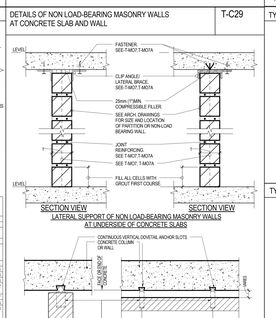
TYPICAL DETAIL OF OPENINGS IN CONCRETE WALL (NOT SPECIFIED AS SHEARWALLS) — CW02



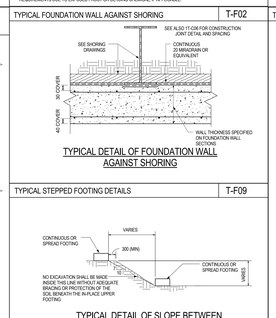
TYPICAL CAST IN PLACE SHEAR PLATE DETAIL — T-C55



DETAILS OF NON LOAD-BEARING MASONRY WALLS AT CONCRETE SLAB AND WALL — T-C29

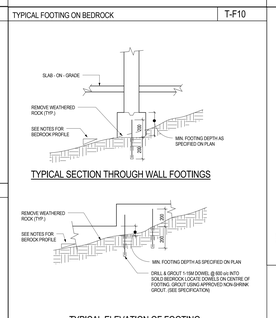


TYPICAL FOUNDATION WALL AGAINST SHORING — T-F02



TYPICAL STEPPED FOOTING DETAILS — T-F09

TYPICAL FOOTING ON BEDROCK — T-F10



NON-LOAD BEARING BLOCK WALL LINTELS — T-N01

- ALTERNATIVES WHERE EXPOSED FACE OF SINGLE REINFORCED MASONRY LINTEL BLOCKS ARE UNLINTELLED NOTED):
  1. DOUBLE ANGLES (SEE BELOW)
  (CUT BLOCKS TO SUIT)

NON-LOAD BEARING BLOCK WALL LINTELS

Opening Width (mm)	300 TO 950 (12" TO 32")	950 TO 1220 (32" TO 4'-0")	1220 TO 1830 (4'-0" TO 6'-0")	1830 TO 2440 (6'-0" TO 8'-0")	2440 TO 3080 (8'-0" TO 10'-0")	3080 TO 3660 (10'-0" TO 12'-0")
100	75x6 PL	★ 1L-125x90x6 (LLV)	★ 1L-125x90x6 (LLV)	★ 1L-125x90x6 (LLV)	N/A	N/A
(4")	3x ¼ PL	★ 1L-31x31x¼	★ 1L-5x31x¼ (LLV)	★ 1L-5x31x¼ (LLV)	N/A	N/A
150	125x6 PL	★ 1L-125x90x6 (LLV)	★ 1L-125x125x8	★ 1L-125x125x8	★ 1L-125x125x8	N/A
(6")	5x ¼ PL	★ 1L-5x31x¼ (LLV)	★ 1L-6x6x⅜	★ 1L-6x6x⅜	★ 1L-6x6x⅜	N/A
200	175x6 PL	2L-x-90x90x6	2L-x-125x90x6 (LLV)	2L-x-125x90x6 (LLV)	W200x27 175x6 PL BOTTOM	W200x27 175x6 PL BOTTOM
(8")	7x ¼ PL	2L-x-31x31x¼	2L-x-5x31x¼ (LLV)	2L-x-5x31x¼ (LLV)	W18x18 7x¼ PL BOTTOM	W18x18 7x¼ PL BOTTOM
250	225x6 PL	2L-x-100x90x6 (LLV)	2L-x-100x100x8	2L-x-150x100x8 (LLV)	W200x27 225x6 PL BOTTOM	W200x27 225x6 PL BOTTOM
(10")	9x ¼ PL	2L-x-4x31x¼ (LLV)	2L-x-4x4x⅜	2L-x-6x4x⅜ (LLV)	W18x18 9x¼ PL BOTTOM	W18x18 9x¼ PL BOTTOM
300	275x6 PL	3L-x-90x90x6	3L-x-125x90x6 (LLV)	N/A	N/A	N/A
(12")	11x ¼ PL	3L-x-31x31x¼	3L-x-5x31x¼ (LLV)	N/A	N/A	N/A
100	N/A	2L-x-45x45x5	2L-x-65x35x6 (LLV)	N/A	N/A	N/A
(4")	N/A	2L-x-11x11x¾	2L-x-21x11x5 (LLV)	2L-x-31x21x5 (LLV)	N/A	N/A
150	N/A	2L-x-65x65x6	2L-x-90x65x6 (LLV)	2L-x-90x65x6 (LLV)	N/A	N/A
(6")	N/A	2L-x-21x21x5½	2L-x-31x21x5½ (LLV)	2L-x-31x21x5½ (LLV)	N/A	N/A

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents In Any Form Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed By The Architect.
Date:

7 TAWSLEY DR. TORONTO, ONTARIO M9V 2A6 (416) 742-8555

1 BANKSIAN GATE TORONTO, ONTARIO M1V 4L7 (416) 754-8555

stephenson ENGINEERING
2500 Victoria Park Ave. Suite 402
Toronto ON M2J 5A9 | Tel: (416) 498 1715
www.stephenson-eng.com | info@stephenson-eng.com

No.	Revision	Date
8	BUILDING PERMIT RESUBMISSION	MAY 12,2016
7	ISSUED FOR STEEL TENDER	DEC 18,2015
6	BUILDING PERMIT RESUBMISSION	SEPT 21,2015
5	BUILDING PERMIT RESUBMISSION	JULY 22,2015
2	BUILDING PERMIT SUBMISSION	JUNE 12,2015
1	ISSUED FOR 'ATT REVIEW'	MAY 21,2015

No.	Issued For	Date

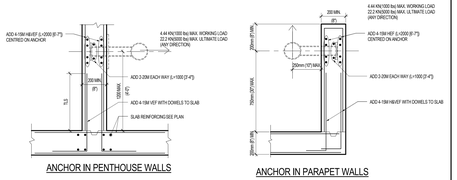
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
TYPICAL DETAILS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale	1 : 1
Drawn by	Author
Checked by	BBS
Project No.	2014003?
Date	MAY 12,2016
Drawing No.	S8-02

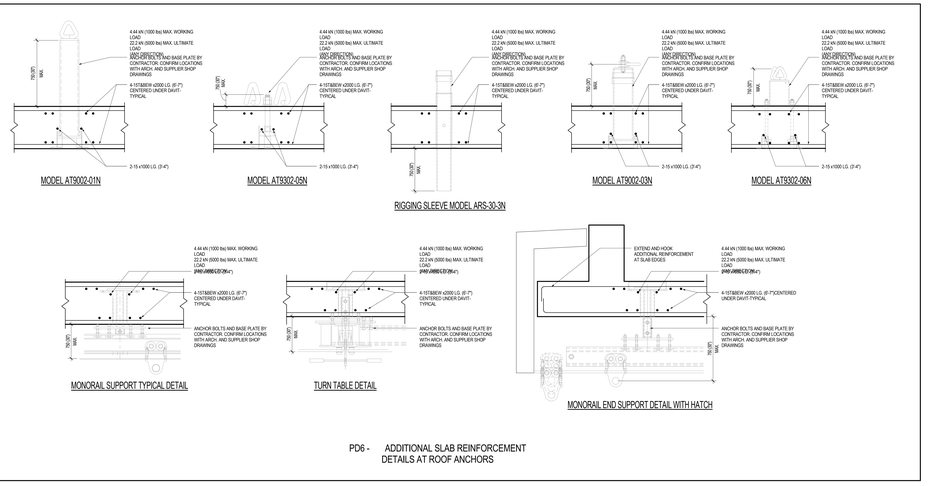
Plot Date: 5/12/2016 10:02:19 AM



ANCHOR IN PENTHOUSE WALLS

ANCHOR IN PARAPET WALLS

PD5 TYPICAL ADDITIONAL REINFORCEMENT AT SAFETY ANCHORS



PD6 - ADDITIONAL SLAB REINFORCEMENT DETAILS AT ROOF ANCHORS

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
All Drawings, Specifications And Related Documents Are The Copyright Of The Architect And Must Be Returned Upon Request.
Reproduction Of Drawings, Specifications And Related Documents Whether In Whole Or In Part Is Forbidden Without The Architects Written Permission.
This Drawing Is Not To Be Used For Construction Until Signed ByThe Architect.

Date:

stephenson ENGINEERING
2550 Victoria Park Ave, Suite 402
Toronto ON M2J 5A9 | Tel.(416) 499 9676
www.stephenson-eng.com | info@stephenson-eng.com

No	Revision	Date

6	BUILDING PERMIT RESUBMISSION	MAY 12,2016

No	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
TYPICAL AND PROJECT DETAILS

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Merchant's Wharf
Toronto, ON

Scale
As indicated
Drawn by
Author
Checked by
Checker
Project No.
20140031
Date
MAY 12,2016
Drawing No.
S8-03