



**FIFA - EAST VSTS
CENTENNIAL PARK**
Address: 56 Centennial Park Rd, Toronto, ON

WALL SECTIONS - INTERIOR

project no. : 2318E
scale : 1 : 20
date : 23 JAN 2025
drawing no. : AC 2

- 010000 GENERAL
- CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE 2012, O REG. 332/12, INCLUDING O REG. 88/19, AND ANY APPLICABLE ACTS OF AUTHORITY HAVING JURISDICTION
 - READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS
 - BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND REPORT DISCREPANCIES TO THE CONSULTANT. DO NOT SCALE THE DRAWINGS.
 - REFER TO THE ARCHITECTURAL AND OTHER DRAWINGS FOR LOCATIONS AND DIMENSIONING OF OPENINGS AND SLEEVES NOT SHOWN ON THE STRUCTURAL DRAWINGS. ASSUME TYPICAL DETAILS APPLY. HOWEVER, OBTAIN THE CONSULTANT'S PRIOR APPROVAL BEFORE INSTALLING OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
 - SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PITS, BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS. ADJUST UNDERSIDE ELEVATIONS OF FOOTINGS AS REQUIRED TO AVOID UNDERMINING THE FOOTINGS AND FOUNDATIONS.
 - HORIZONTAL AND VERTICAL DESIGN LOADS ARE NOTED. THEY SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
 - TYPICAL STRUCTURAL DETAILS SHALL GOVERN THE WORK. IF DETAILS DIFFER ON THE DRAWINGS, THE MOST STRINGENT SHALL GOVERN
 - CONTRACTOR TO PROVIDE AND BE SOLELY RESPONSIBLE FOR ALL TEMPORARY WORKS.
 - THE INFORMATION SHOWN ON STRUCTURAL DRAWINGS PLUS THE REQUIREMENTS OUTLINED IN SPECIFICATIONS REPRESENT THE BUILDING IN ITS FINISHED STATE. CONTRACTOR TO REQUIRE THESE REQUIREMENTS AND DETERMINE ALL TEMPORARY WORKS REQUIRED TO COMPLETE THE STRUCTURE PER CONTRACT DOCUMENTS INCLUDING MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, TEMPORARY SHORING AND/OR BRACING, TEMPORARY OPENINGS, EXCAVATION SHORING, ERECTION PROCEDURES, ETC.
 - SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

- 010001 DESIGN NOTES
- THE BUILDING IS DESIGNATED AS BELONGING TO THE NORMAL IMPORTANCE CATEGORY, AS DEFINED IN THE OBC 2012.
 - ALL REINFORCED CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD A23.3.
 - ALL STRUCTURAL STEEL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CAN/CSA-S16.
 - ALL STRUCTURAL TIMBER ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD O86.
 - ALL STRUCTURAL MASONRY ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD S304.1.
 - LATERAL FORCES ON STRUCTURAL FRAME
 - THE LATERAL FORCES ARE RESISTED BY THE VERTICAL STEEL BRACING.
 - THE FRAME IS NOT STABLE UNTIL THE LATERAL LOAD RESISTING SYSTEM IS IN PLACE.
 - WIND:
 - THE DESIGN OF THE STRUCTURE FOR WIND IS BASED ON AN HOURLY WIND PRESSURE OF 0.44 kPa (BASED ON 150 YEAR RETURN).
 - EXPOSURE CONDITION: ROUGH TERRAIN.
 - THE IMPORTANCE FACTOR, I_w , FOR WIND DESIGN IS 1.0. FOR DEFLECTION ANALYSIS, THE FACTOR IS 0.75.
 - THE DESIGN WIND FORCES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012 AND WITH THE STATIC PROCEDURE DESCRIBED IN THE USER'S GUIDE - NBC 2015 - STRUCTURAL COMMENTARIES (PART 4).
 - EARTHQUAKE:
 - THE DESIGN OF THE STRUCTURE FOR EARTHQUAKE IS BASED ON:
 - $I_e = 1.0$
 - SITE CLASS = D
 - $S_a(0.2) = 0.193$
 - $S_a(0.5) = 0.106$
 - $S_a(1.0) = 0.056$
 - $S_a(2.0) = 0.027$
 - $P_GA = 0.124$
 - $R_d R_o = 1.95$
 - $F_a = 1.0$
 - $F_v = 1.0$
 - THE SEISMIC HAZARD INDEX FOR THIS SITE IS:
 - $I_E F_a S_a(0.2) = 0.193$
 - THE STRUCTURE HAS BEEN DESIGNED FOR:
 - N/S DIRECTION
 - BASE SHEAR = 280kN
 - E/W DIRECTION
 - BASE SHEAR = 280kN
 - THE DESIGN EARTHQUAKE FORCES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012.
 - THE BUILDING'S STRUCTURAL CONFIGURATION IS DESIGNATED AS REGULAR.
 - LATERAL FORCES ON FOUNDATION WALLS
 - WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND A HORIZONTAL PRESSURE AT ANY DEPTH (h) GIVEN BY THE EXPRESSION:
$$P = K (y h + q) \quad \text{WHERE}$$

K IS THE LATERAL EARTH PRESSURE COEFFICIENT (0.5)
 P IS THE PRESSURE EXERTED HORIZONTALLY
 h IS THE DEPTH BELOW GRADE
 y IS THE UNIT WEIGHT OF SOIL (21kN/M3)
 q IS THE SURCHARGE ON THE GROUND SURFACE
 - FOUNDATION AND OTHER WALLS RETAINING EARTH HAVE BEEN DESIGNED FOR SURCHARGE OF 4.8 kPa TYPICAL AND 12 kPa ADJACENT SIDEWALKS.
 - THE WALLS HAVE BEEN DESIGNED ASSUMING THAT THERE IS FREE-DRAINING BACKFILL, OR THAT OTHER PROVISIONS HAVE BEEN MADE, SUCH THAT THE WALLS ARE NOT SUBJECT TO HYDROSTATIC PRESSURE.
 - SNOW LOADS ON ROOFS
 - THE ROOFS HAVE BEEN DESIGNED WITH $S_s = 1.1$ kPa AND $S_r = 0.4$ kPa.
 - THE IMPORTANCE FACTOR, I_s , IS 1.0 FOR ULS AND 0.9 FOR SLS.
 - ADDITIONAL SNOW ACCUMULATIONS ADJACENT TO HIGHER WALLS, ROOFS AND MECHANICAL UNITS ARE INDICATED ON THE DRAWINGS.
 - RAINWATER LOADS ON ROOFS
 - THE ROOFS HAVE BEEN DESIGNED FOR CONTROL FLOW DRAINS MEETING MINIMUM DRAINAGE CRITERIA FOR CASE M2.
 - WIND UPLIFT OF ROOFS
 - ALL ROOF ELEMENTS INCLUDING JOISTS, METAL DECK, AND THEIR CONNECTIONS TO THE STRUCTURE ARE TO BE DESIGNED FOR UPWARD SUCTION DUE TO WIND. THE NET UPWARD DESIGN PRESSURES ARE SHOWN ON THE KEY PLAN BELOW.
 - LIVE AND OTHER LOADS
 - SEE NOTES BELOW FLOOR PLANS.
 - FUTURE EXTENSIONS
 - THE STRUCTURE HAS NOT BEEN DESIGNED FOR ANY FUTURE EXTENSIONS.
 - SERVICEABILITY LIMITS USED IN THE STRUCTURAL DESIGN INCLUDE THE FOLLOWING MAXIMUM DEFLECTION/SPAN RATIOS, UNDER LIVE, SNOW OR WIND LOADING UNLESS OTHERWISE NOTED;
 - FOUNDATION SETTLEMENT
 - TOTAL: 25mm
 - DIFFERENTIAL: 20mm
 - ROOF DEFLECTION
 - 1:360
 - 1:180 TOTAL LOAD
 - 1:180 IMMEDIATE
 - 1:480 AFTER ATTACHMENT OF NON-STRUCTURAL ELEMENTS
 - PERIMETER BEAMS - AS NOTED ABOVE, BUT NO MORE THAN:
 - 19mm WHERE SUPPORTING CURTAINWALL
 - 25mm ELSEWHERE
 - BEAMS SUPPORTING MASONRY, INCLUDING LINTELS
 - 1:480 < 20mm VERTICAL, 1:600 HORIZONTAL
 - BEAMS SUPPORTING PARTITION: 1:480

- BEAMS SUPPORTING MOVABLE PARTITIONS 1:600
- TRANSFER BEAM - 1/2 THE LIMITS NOTED ABOVE
- WALL OUT-OF-PLANE DEFLECTION (HORIZONTAL)
 - TYPICAL
 - 1:180
 - SEISMIC; SAME AS INTERSTOREY DRIFT
 - SUPPORTING MASONRY VENEER
 - 1:360
 - SEISMIC; SAME AS INTERSTOREY DRIFT
- INTERSTOREY DRIFT
 - WIND; H/500
 - SEISMIC; H/40

- 030000 CONCRETE
- MATERIALS
 - CONCRETE
 - CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1 (LATEST VERSION) AND THE FOLLOWING FOR STRENGTH, SLUMP, WATER-TO-CEMENTING MATERIALS CONTENT AND AIR CONTENT.
 - FOR NOMINALLY UNREINFORCED CONCRETE: CONFORM TO THE REQUIREMENTS OF CSA STANDARD A438 (LATEST VERSION) AND THE FOLLOWING FOR STRENGTH, SLUMP, WATER-TO-CEMENTING MATERIALS CONTENT AND AIR CONTENT, INCLUDING THE FOLLOWING:
 - CONCRETE STRENGTH 20 MPa, INCREASE TO;
 - 25 MPa FOR INTERIOR SLABS ON GRADE, UNLESS DAMP PROOFING IS PROVIDED (0.15 mm POLYETHYLENE BELOW THE SLAB, OR EQUAL).
 - AIR CONTENT OF 5%-8% WHERE EXPOSED TO FREEZE-THAW, REDUCE TO 3%-6% FOR FOOTINGS.
 - MAXIMUM SLUMP OF 100 mm, INCREASE TO 150mm FOR CONVENTIONAL FOUNDATIONS.
 - NOMINAL MAXIMUM SIZE OF AGGREGATE SHALL BE 20 mm. USE SMALLER AGGREGATES AS APPROPRIATE IN AREAS OF CONGESTED REINFORCING STEEL OR TO IMPROVE WORKABILITY. MODIFY MIX DESIGNS TO SUIT.

CATEGORY	DESCRIPTION	EXPOSURE CLASS PER A23.1	CONCRETE STRENGTH f_c (MPa)	DAYS TO DESIGN STRENGTH	MAX. W/C RATIO	AIR CONTENT	BENCHMARK MIX GWP/kg CO2/m ³	MAXIMUM GWP/kg CO2/m ³	SCOPE
CM 1A	FOUNDATION MIX FROST PROTECTED	N	25	56			254	211	FOOTINGS AND CAPS BELOW FROST LEVEL OR INSULATED OR INTERIOR
CM 1B	FOUNDATION MIX FROST EXPOSED	F-2	25	56		4%-7%	261	235	FOOTINGS AND CAPS EXPOSED TO FROST IN THE FINAL CONDITION
CM 2	SLAB ON GRADE MIX	N-CF	25	56	55		265	220	INTERIOR SLABS ON GRADE
CM 13A	EXTERIOR WALL MIX	F-2	25	28	0.55	4%-7%	261	235	FOUNDATION WALLS AND OTHER WALLS EXPOSED TO FREEZE THAW BUT NOT EXPOSED TO DE-ICING CHEMICALS
CM 13B	INSULATED FOUNDATION WALL MIX	N	25	56			254	211	FOUNDATION WALLS AND OTHER WALLS NOTED EXPOSED TO FREEZE THAW (INSULATION ON OUTSIDE FACE)
CM 14	LEAN MIX	N	0.4 max. ¹	28		4-6% (EXTREME ONLY)	N/A	N/A	UNSHRINKABLE FILL
CM 8	PARKING WALL, SLAB AND BEAM MIX	C-1 ²	35	28	0.40	5%-8%	313	294	FOUNDATION WALLS ADJACENT TO PAVING, FRAMED SLABS AND BEAMS EXPOSED TO DE-ICING CHEMICALS.

- WHERE AGGREGATES SMALLER THAN 14 mm ARE USED, INCREASE AIR CONTENT BY 1%
 - REINFORCED CONCRETE EXPOSED TO DE-ICING CHEMICALS TO HAVE CORROSION INHIBITOR IN ACCORDANCE WITH SPECIFICATION SECTION 03 30 00.
 - MAX. 25kg CEMENT/1cu.m.
 - SUBMIT (TYPE I OR) TYPE III ENVIRONMENTAL PRODUCT DECLARATION INFORMATION FOR EACH CONCRETE MIX DEMONSTRATING THAT THE GWP IS AT OR BELOW THE TARGETED MAXIMUM GWP. BENCHMARK GLOBAL WARMING POTENTIAL DATA HAS BEEN EXTRACTED FROM THE RMCAO MEMBER INDUSTRY-WIDE EPD DOCUMENT FOR READY-MIXED CONCRETE 2022.
 - GWP TARGETS MAY CONSIDER CONCRETE THAT HAS UNDERGONE CARBONATION TREATMENT WITH CARBON DIOXIDE (CO₂) DURING MIXING, SUCH THAT POST INDUSTRIAL CO₂ IS INJECTED INTO THE CONCRETE AS AN ADMIXTURE AND CHEMICALLY CONVERTED INTO A MINERAL. CONCRETE MIX OPTIMIZATION MAY ADJUST CEMENTITIOUS MATERIALS CONTENT. ACCEPTABLE TECHNOLOGIES: CARBONCURE TECHNOLOGIES.
- REINFORCEMENT:
 - EMBODIED CARBON DOCUMENTATION REQUIREMENTS:
 - ALL REBAR IS TO BE SOURCED FROM SUPPLIERS THAT PROVIDE A TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD)
 - SUBMIT TYPE III EPD WITH FIRST ROUND OF SHOP DRAWINGS
 - THE MAXIMUM GWP FOR FABRICATED REBAR IS 1000 kg CO₂e/1000kg
 - CONFORM TO THE REQUIREMENTS OF CSA G30.18 FOR CARBON STEEL REINFORCING BARS.
 - CONFORM TO THE REQUIREMENTS OF ASTM A1064/A1064M FOR WELDED WIRE FABRIC.
 - REINFORCING BARS SHALL HAVE A MINIMUM YIELD STRENGTH $f_y = 400$ MPa, AND WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH OF $f_y = 386$ MPa. SUPPLY IN FLAT SHEETS.
 - WHERE WELDING OF REBAR IS INDICATED, WELDABLE GRADE REBAR SHALL BE USED.

- EXECUTION
 - CONCRETE AND REINFORCEMENT
 - PROVIDE DOWELS TO WALLS AND COLUMNS SIMILAR IN NUMBER, SIZE, AND SPACING TO THE VERTICAL STEEL IN THE WALL OR COLUMN EXCEPT WHEN NOTED OTHERWISE.
 - CONSTRUCTION JOINTS:
 - HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE MADE IN BEAMS OR JOISTS, UNLESS SHOWN OR REVIEWED BY THE CONSULTANT.
 - VERTICAL CONSTRUCTION JOINS MAY BE MADE ONLY AT MID-SPAN OF BEAMS, JOISTS, AND SLABS UNLESS OTHERWISE SHOWN OR DIRECTED AND THEIR LOCATION SHALL BE REVIEWED BY THE CONSULTANT.
 - PROVIDE 38x89 KEYS AT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.
 - NO SLEEVES TO BE PLACED VERTICALLY OR HORIZONTALLY THROUGH BEAMS WITHOUT BEING REVIEWED BY THE CONSULTANT.
 - NO OPENINGS SHALL BE MADE IN FLAT SLAB COLUMN STRIPS UNLESS SHOWN OR REVIEWED BY THE CONSULTANT.
 - WELDING OF REBAR SHALL BE DONE IN ACCORDANCE WITH CSA W186.
 - CONCRETE COVER TO REINFORCEMENT:
 - CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1 (LATEST VERSION) AND THE FOLLOWING FOR COVER TO REINFORCEMENT (mm):
 - TYPICAL COVER 40 mm
 - CAST AGAINST EARTH: 75 mm
 - EXPOSED TO EARTH: 50 mm
 - REINFORCING IN SLAB ON DECK
 - WELDED WIRE MESH REINFORCING IS TO BE CHAISED AND SECURELY POSITIONED IN THE MIDDLE OF THE COVER SLAB OF ALL SLABS ON COMPOSITE STEEL DECK, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - PROTECTION
 - PROTECT CONCRETE EXPOSED TO DE-ICING SALTS IN ACCORDANCE WITH THE FOLLOWING TABLE. REFER TO THE SPECIFICATION FOR SPECIFIC REQUIREMENTS FOR PROTECTION.

CATEGORY	DESCRIPTION	SCOPE
CP 0	UNPROTECTED CONCRETE	ALL CONCRETE NOT DESIGNATED AS PROTECTED BELOW.
CP 1	EPOXY COATED REBAR	NONE
CP 2	STAINLESS STEEL REBAR	NONE
CP 3	DCI CORROSION INHIBITOR	ALL CONCRETE EXPOSED TO WEATHER AT GRADE (NOT PROTECTED BY A MEMBRANCE) INCLUDING CURBS AND WALLS.
CP 4	CATHODIC PROTECTION	NONE

- WATERSTOPS
 - PROVIDE WATERSTOPS AT ALL CONCRETE JOINTS MORE THAN 600 MM BELOW GRADE.
- ARCHITECTURAL CONCRETE
 - DESIGNATE CONCRETE AS ARCHITECTURALLY EXPOSED IN ACCORDANCE WITH THE ARCHITECTURAL CONCRETE LEGEND ON PLAN. REFER TO THE SPECIFICATION FOR SPECIFIC REQUIREMENTS FOR ARCHITECTURAL CONCRETE (AEC).

- 050000 STRUCTURAL STEEL
- MATERIALS
 - WIDE FLANGE SHAPES - CONFORM TO THE REQUIREMENTS OF ASTM A992/A992M, $F_y=345$ MPa
 - HSS MEMBERS - CONFORM TO THE REQUIREMENTS OF G40.21 350W CLASS C
 - NOTE THAT ASTM A500 IS NOT AN ACCEPTABLE ALTERNATE FOR HSS MEMBERS WITHOUT REVIEW AND RESIZING (INCREASED SECTION SIZE OR WALL THICKNESS) BY THE CONSULTANT.
 - HSS PRODUCED TO ASTM A1085 IS AN ACCEPTABLE ALTERNATE TO CSA G40.21 350W CLASS C.
 - CHANNELS AND ANGLES - CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 350W
 - PIPE - ASTM A53/A53M
 - BOLTS, NUTS AND WASHERS - GRADE A325
 - WELDS- CONFORM WITH CSA W59-03
 - HEADED STUD- CONFORM TO CSA W59 APPENDIX H, WITH TENSILE STRENGTH OF 450MPa AND YIELD STRENGTH OF 350MPa
 - ANCHOR RODS - CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 300W UNLESS NOTED OTHERWISE.
 - ALL OTHER - CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 300W
 - STEEL JOISTS - CONFORM TO CAN/CSA-S16-09
 - METAL DECK - CONFORM TO THE REQUIREMENTS OF CAN/CSA-S136-07.
 - EXECUTION
 - PROVIDE A MINIMUM BEARING OF 200 mm FOR ALL STEEL BEAMS BEARING ON MASONRY AND A MINIMUM OF 100 mm ON STRUCTURAL STEEL, UNLESS NOTED OTHERWISE.
 - CENTRE BEARING PLATES UNDER BEAMS, OR AS NOTED.
 - BEARING PLATE DIMENSION GIVEN FIRST INDICATES SIDE PARALLEL TO BEAM WEB.
 - NO STRUCTURAL STEEL SHALL BE CUT WITHOUT THE PERMISSION OF THE CONSULTANT.
 - WHERE COLUMNS ARE STABILIZED BY WALLS PROVIDE COLUMN ANCHORS AT ABUTTING WALLS. PROVIDE TEMPORARY BRACING UNTIL WALLS ARE BUILT TIGHT TO COLUMNS.
 - PROVIDE FRAMING AROUND ALL OPENINGS IN METAL DECK AS SPECIFIED. REFER TO TYPICAL DETAIL 0504 FOR DETAILS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - PROVIDE FULL HEIGHT WEB STIFFENERS AT ALL BEAMS BEARING ON COLUMNS AND ALL BEAMS SUPPORTING COLUMNS. WEB STIFFENERS SHALL BE OF THE SAME SIZE AND THICKNESS AS THE COLUMN FLANGES AND SHALL ALIGN WITH THE FLANGES OF THE SUPPORTING COLUMN.
 - CONNECT BEAMS FOR THE FACTORED REACTIONS INDICATED ON THE DRAWINGS. IF BEAM REACTIONS ARE NOT INDICATED, THE CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY OF THE SIMPLE SPAN BEAM FOR THE GIVEN SPAN PRESENTED IN THE CISC HANDBOOK OF STEEL CONSTRUCTION. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS.
 - STEEL SUPPLIER TO DESIGN AND PROVIDE INTERCONNECTION BETWEEN BUILT UP MEMBERS AS NOTED, OR WHERE NOT NOTED STEEL SUPPLIER IS TO INTERCONNECT AS REQUIRED TO ENSURE ADEQUATE CAPACITY FOR THE DESIGN OR FORCES SHOWN OR IMPLIED IN THE DRAWINGS.
 - STEEL SUPPLIER TO DESIGN CONNECTIONS OF SINGLE ANGLE MEMBERS FOR THE FORCES SHOWN OR IMPLIED IN THE DRAWINGS, SUCH THAT CONNECTIONS ARE MADE TO THE SAME LEG EACH END BY WELDING OR WITH A MINIMUM OF TWO BOLTS.
 - DESIGNATE STEEL AS ARCHITECTURALLY EXPOSED IN ACCORDANCE WITH THE ARCHITECTURALLY EXPOSED LEGEND ON PLAN. REFER TO THE SPECIFICATION FOR SPECIFIC REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AES).
 - PROTECTION: REFER TO THE SPECIFICATION FOR SPECIFIC REQUIREMENTS FOR ANY COATING SYSTEMS.

- 053100 STEEL DECKING
- MATERIALS
 - EMBODIED CARBON DOCUMENTATION REQUIREMENTS:
 - ALL REBAR IS TO BE SOURCED FROM SUPPLIERS THAT PROVIDE A TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD)
 - SUBMIT TYPE III EPD WITH FIRST ROUND OF SHOP DRAWINGS
 - THE MAXIMUM GWP FOR METAL DECK IS 2000 kg CO₂e/1000kg
 - STEEL DECKING PER PLAN AND CONFORMING TO CAN/CSA-S136 AND THE FOLLOWING;
 - CSSBI 10M FOR ROOF DECKING.
 - CSSBI 12M FOR FLOOR DECKING.
 - MINIMUM ZINC COATING OF Z275 FOR EXTERIOR DECKING AND DECKING EXPOSED TO VIEW WITHOUT PAINTED FINISH.
 - MINIMUM ZINC COATING OF Z775 FOR INTERIOR DECKING NOT EXPOSED TO VIEW AND INTERIOR DECKING WITH FIELD APPLIED PAINT SYSTEM.
 - MINIMUM 1.22mm STEEL CONFORMING TO ABOVE STANDARDS FOR COVER PLATES, CELL CLOSURES, WEB STIFFENERS, EDGE STRIPS AND FLASHINGS.
 - FORM ROOF DECK WITH INTEGRAL RIBS OF A SHAPE TO MATCH EXISTING DECK WHERE REPAIR/REPLACEMENT OF EXISTING DECK IS REQUIRED.
 - EXECUTION
 - DESIGN DECK IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.
 - DESIGN AND CONNECT METAL EDGE AND CLOSURE STRIPS, METAL SCREEDS, FLASHINGS AND THE LIKE.
 - DESIGN FRAMING FOR 450mm OR SMALLER OPENINGS IN ROOF DECK, AND 300mm OR SMALLER OPENINGS IN FLOOR DECK. REINFORCE OPENINGS OVER 150mm, AS REQUIRED.
 - PLACE SHEETS IN MINIMUM 3 SPAN LENGTHS. BEAR ENDS MINIMUM 50mm.
 - LAP ENDS OF NON-COMPOSITE DECK UNITS A MINIMUM OF 50mm AND ONLY OVER SUPPORTING MEMBERS.
 - AS A MINIMUM, WELD DECK TO SUPPORTS AND PERIMETER ELEMENTS WITH 20mm PUDDLE WELDS AT MAXIMUM 400mm o.c. OR EVERY SECOND FLUTE, WHICHEVER IS LESS.
 - AS A MINIMUM, FASTEN SIDE JOINTS OF DECK UNITS BETWEEN SUPPORTS BY CLINCHING AT 600mm INTERVALS OR WITH 25mm LONG WELDS AT 1000mm INTERVALS.
 - PAINT WELDS AND REPAIR DAMAGED COATING WITH GALVACON COATING.
 - DO THE FOLLOWING WHERE DECKING IS EXPOSED TO VIEW:
 - LAP ENDS OF DECK UNITS ONLY OVER SUPPORTING MEMBERS. NO SEAMS ARE PERMITTED WITHIN SPANS.
 - KEEP DECK FREE OF DIRT, SCALE, FOREIGN MATTER, DENTS OR DEFORMATIONS.
 - KEEP FUSION WELDS WELL WITHIN THE BEARING WIDTH OF SUPPORTING MEMBERS.
 - AVOID WELD DAMAGE TO THE DECK OR ITS SUPPORTS.

- 060000 WOOD
- MATERIALS
 - GLUED-LAMINATED TIMBER
 - CONFORM TO CAN/CSA-O122
 - SPECIES - SPRUCE-PINE
 - BENDING STRESS GRADE - 20'-E
 - COMPRESSION STRESS GRADE - 16c-E
 - TENSION STRESS GRADE - 18l-E
 - APPEARANCE GRADE - INDUSTRIAL
 - PLANK DECKING
 - CONFORM TO THE REQUIREMENTS OF CSA-O141
 - JOINT - V-JOINT TONGUE AND GROOVE
 - FACE - NORMAL
 - SPECIES - SPRUCE-PINE-FIR
 - GRADE - SELECT
 - LAY DECK IN CONTROLLED RANDOM PATTERN AS DEFINED IN O86.
 - CONNECTIONS
 - ALL WOOD TO WOOD CONNECTIONS OR WOOD TO STEEL CONNECTIONS, UNLESS OTHERWISE NOTED, ARE TO BE THE APPROPRIATE SIMPSON STRONG-TIE HANGER OR APPROVED EQUIVALENT, SIZED FOR THE

- CONNECTION FORCE AND MEMBER CONFIGURATION INDICATED.
- NAILS ARE TO BE COMMON STEEL WIRE NAILS CONFORMING TO THE REQUIREMENTS OF ASTM F1667 OR CSA B111. NAILS SHALL HAVE A MINIMUM DIAMETER (CORRESPONDING TO NAIL LENGTH) AS FOLLOWS: 2.87mm (FOR 57mm/2-1/4" LONG NAILS); 3.25mm (64mm/2-1/2" LONG); 3.66mm (76mm/3" AND 82mm/3-1/4" LONG); 4.88mm (102mm/4" LONG).
 - SUBSTITUTION OF THE ABOVE-SPECIFIED NAIL DIAMETERS IS SUBJECT TO APPROVAL BY THE ENGINEER. FOR PART 9 BUILDINGS, NAIL SUBSTITUTION MAY BE PERFORMED IN ACCORDANCE WITH CL. A.9.23.3.1.(2) IN THE APPENDIX OF NBCC 2015.
 - WOOD SCREWS ARE TO CONFORM TO THE REQUIREMENTS OF ASTM B18.6.1. REFER TO CSA O86 FOR DIAMETER AND MINIMUM YIELD STRENGTH INFORMATION.
 - ALL NAILS AND SCREWS USED IN AN EXTERIOR APPLICATION OR USED WITH PRESERVATIVE TREATED WOOD SHALL BE APPROPRIATELY COATED WITH A PROTECTIVE COATING COMPATIBLE WITH THE WOOD PRESERVATIVE TREATMENT.
 - BOLTS, NUTS AND WASHERS: ASTM A307 OR SAE J429 GRADE 2.
 - LAG SCREWS ARE TO CONFORM TO THE REQUIREMENTS OF ASTM B18.2.1
 - ALL LAG BOLTS, THRU BOLTS AND OTHER HARDWARE TO BE HOT DIPPED GALVANIZED
 - ALL LAG BOLTS SHALL HAVE SHARP THREADS FOR AT LEAST ONE-HALF THE TOTAL BOLT LENGTH, UP TO 152 mm (6") THREADED LENGTH. LAG BOLT WITH DULL THREADS OR INSUFFICIENT THREADED LENGTH WILL BE REJECTED OUTRIGHT.
 - UNLESS OTHERWISE APPROVED BY THE CONSULTANT, ALL NAILS ARE TO HAVE FULL ROUND HEADS; CLIPPED HEAD NAILS ARE NOT ACCEPTABLE. NAILS ARE TO BE DRIVEN FLUSH; DO NOT OVERDRIVE NAILS.

- EXECUTION
 - PROTECT ALL WOOD PRODUCTS FROM DAMAGE AND STAINING DUE TO WETTING AND MOISTURE.
 - PROTECT INSTALLED DECKING AND SHEATHING FROM EXCESSIVE MOISTURE UNTIL FINAL WATERPROOFING IS COMPLETE. ENSURE SURFACES THAT ARE TO RECEIVE FINISHES MEET MANUFACTURERS REQUIREMENTS FOR MAXIMUM MOISTURE CONTENT FOR THE FINISH SPECIFIED.
 - DIMENSION LUMBER WITH SMALLER NOMINAL DIMENSION OF 2 INCHES (2-BY-2) PRESERVATIVE TREATED FOR EXTERIOR APPLICATIONS SHALL NOT BE INCISED. IF INCISED LUMBER IS TO BE USED, CONFIRM MEMBER SIZES WITH THE ENGINEER PRIOR TO CONSTRUCTION.
 - PROVIDE SIMPSON STRONG-TIE CONNECTORS OR EQUIVALENT AT ALL JOIST TO JOIST, JOIST TO BEAM, AND BEAM TO POST CONNECTIONS UNLESS NOTED OTHERWISE.

- 310000 FOUNDATIONS
- A SOIL INVESTIGATION HAS BEEN DONE BY GOLDER AS REPORTED IN THEIR SOIL REPORT NO. 0E2314655G PREPARED BY ORBIT ENGINEERING, DATED AUGUST 15, 2023 (REVISED APRIL 18, 2024). READ THIS REPORT, AND BE THOROUGHLY FAMILIARIZED WITH ITS FINDINGS. THE NEAREST BORE HOLE DATA REPORTED IS APPROXIMATELY 300m AWAY FROM THE PROPOSED SITE. IT IS ASSUMED THAT THE SOIL CAPACITY AT THE SITE IS BETTER OR CONSISTENT WITH THE REPORTED VALUES.
 - FOUND ALL FOOTINGS AND UNDERPINNING ON NATURALLY CONSOLIDATED UNDISTURBED SOIL, CAPABLE OF SAFELY SUSTAINING AN ULTIMATE BEARING VALUE OF 225kPa AND AN ALLOWABLE BEARING VALUE OF 150kPa AS A MINIMUM.
 - FOUND FOOTINGS EXPOSED TO FREEZING BELOW THE LEVEL AT WHICH POTENTIAL DAMAGE RESULTING FROM FROST ACTION CAN OCCUR, BUT A MINIMUM OF 1200 mm BELOW FINISHED GRADE, OR 1000 BELOW EXISTING GRADE, WHICHEVER IS LOWER.
 - THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. AT STEPS CONSTRUCT LOWER FOOTINGS PRIOR TO CONSTRUCTING HIGHER FOOTINGS.
 - PLACE SLABS ON GRADE ON MATERIAL CAPABLE OF SAFELY SUSTAINING 25kPa WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOUNDATIONS.
 - REFER TO GEOTECHNICAL REPORT FOR SUBGRADE REQUIREMENTS DIRECTLY BELOW SLAB ON GRADE.
 - DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER WALLS) UNTIL THE FLOOR CONSTRUCTION AT TOP AND BOTTOM OF THE WALL IS POURED AND HAS ATTAINED 70% OF ITS SPECIFIED STRENGTH.
 - CARRY OUT BACKFILLING AGAINST FOUNDATION WALLS WHERE THERE IS GRADE ON BOTH SIDES IN SUCH A MANNER THAT THE LEVEL OF BACKFILLING ON ONE SIDE OF THE WALL IS NEVER MORE THAN 500 mm DIFFERENT FROM THE LEVEL ON THE OTHER SIDE OF THE WALL.
 - PROVIDE FOOTINGS AS PER TYPICAL DETAIL 0306 FOR ALL LOAD BEARING MASONRY WALLS AND ALL NON-LOAD BEARING MASONRY WALLS THICKER THAN 190 mm. ALL NON-LOAD BEARING MASONRY WALLS 190 mm OR LESS SHALL REST ON A THICKENING OF THE SLAB ON GRADE AS PER THE TYPICAL DETAIL OR AS NOTED ON DRAWINGS.

Blackwell

Toronto | Waterloo | Halifax
416.593.5300 | blackwell.ca

SEAL:		
5	2025-01-23	ISSUED FOR ADDENDUM NO.4
4	2024-12-18	ISSUED FOR ADDENDUM NO.1
3	2024-11-20	ISSUED FOR TENDER
2	2024-10-18	ISSUED FOR TENDER REVIEW
1	2024-10-04	PROGRESS SET
MARK	DATE	DESCRIPTION
ISSUE: ISSUED FOR ADDENDUM NO.4		
PROJECT NAME: CENTENNIAL PARK		
PROJECT ADDRESS: 56 Centennial Park Rd, Toronto, ON		
DRAWN: SG		
SCALE:		
SHEET TITLE: GENERAL NOTES		CHECKED: VC/JC PROJECT NUMBER: 230227
S001		

SEAL:

5	2025-01-23	ISSUED FOR ADDENDUM NO.4
4	2024-12-18	ISSUED FOR ADDENDUM NO.1
3	2024-11-20	ISSUED FOR TENDER
2	2024-10-18	ISSUED FOR TENDER REVIEW
1	2024-10-04	PROGRESS SET

ISSUE:
ISSUED FOR ADDENDUM NO.4

PROJECT NAME:
CENTENNIAL PARK

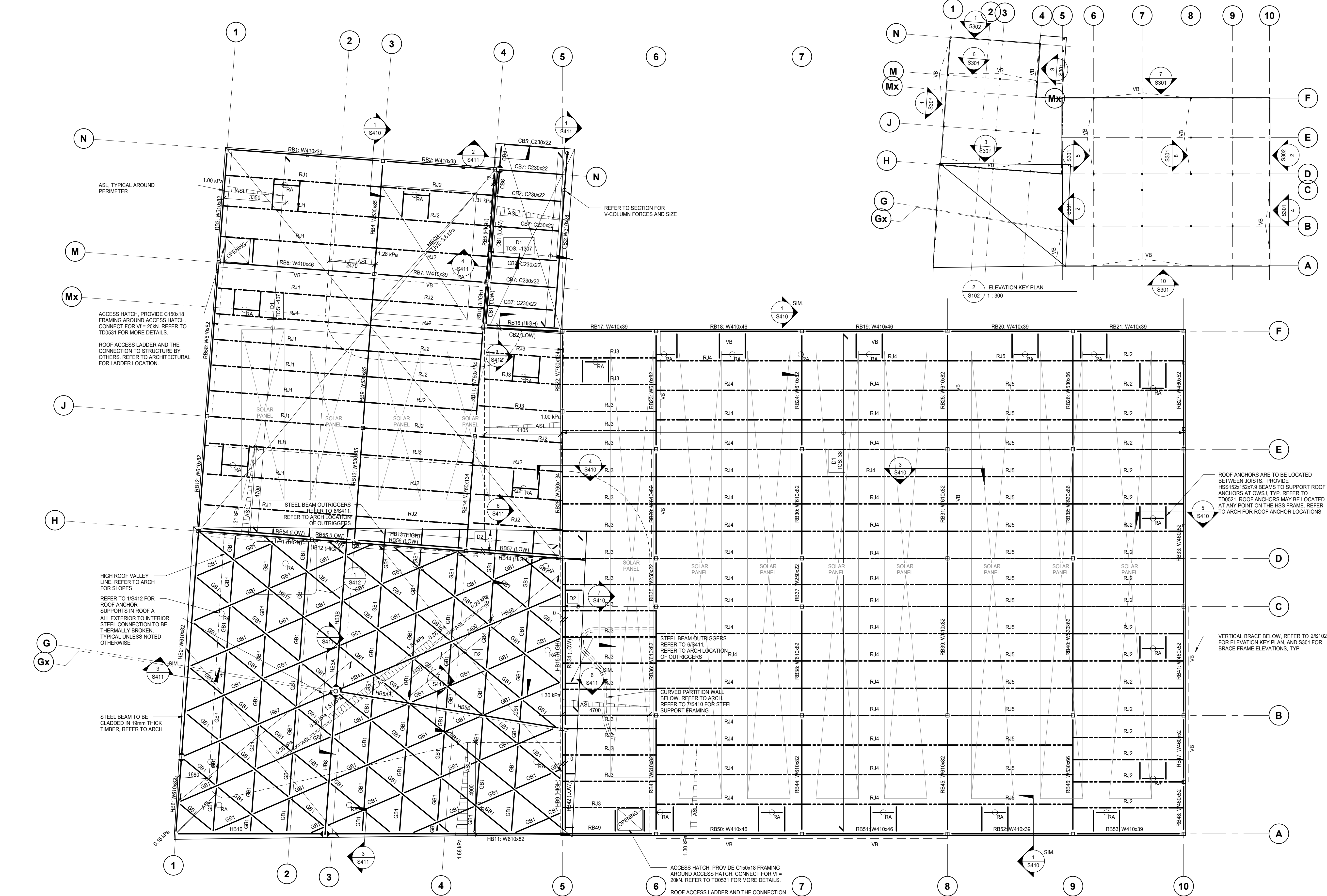
PROJECT ADDRESS:
56 Centennial Park Rd,
Toronto, ON

DRAWN:
SG
SCALE:
As indicated

CHECKED:
VC/JC
PROJECT NUMBER:
230227

SHEET TITLE:
ROOF FRAMING
PLAN

S102



1 ROOF FRAMING PLAN
S102 1:100

NOTES:

1. ROOF DATUM IS 4.455m ABOVE THE GROUND FLOOR DATUM EXCEPT AS CROSSED AND NOTED.
2. THE ROOF DATUM REPRESENTS THE UNDERSIDE OF METAL DECK AT ITS HIGHEST POINTS. THE ROOF SLOPES. REFER TO ARCHITECTURAL DRAWINGS FOR THE SLOPES.
3. ROOF LOADS USED IN THE DESIGN:
SNOW: 1.28 kPa (ETOBICOKE)
MECH SCREENS TO BE RAISED 600 FOR SCOURING, NO ASL
SNOW AT SOLAR PANELS: 2.24 kPa

ROOF DEAD LOAD:
ROOFING 0.20 kPa
INSULATION 0.20 kPa
STRUCTURE SELF-WEIGHT 0.50 kPa
ME 0.30 kPa
SUSPENDED 0.30 kPa
ADDITIONAL ALLOWANCE 0.20 kPa
ROOF TOTAL 1.70 kPa

SOLAR PV: 0.75 kPa

4. REFER TO DRAWING S-001 FOR GENERAL NOTES.
5. REFER TO DRAWING S-002 - S-006 FOR TYPICAL DETAILS.
6. REFER TO DRAWING S-201 FOR COLUMN SCHEDULE.
7. REFER TO DRAWING S-201 FOR BEAM SCHEDULE.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL LEGEND:

- AESS 1 - ALL STEEL COLUMNS IN LOBBY EXPOSED TO VIEW.
AESS 1 - ALL STEEL COLUMNS ALONG GL H ADJACENT TO MASONRY WALLS.
AESS 2 - ALL STEEL COLUMNS IN WARM UP / LOUNGE.
AESS 3 - ALL STEEL MEMBERS AT THE UPPER CEILING IN THE WARM UP / LOUNGE

ARCHITECTURALLY EXPOSED CONCRETE LEGEND:

- AEC 1 - CONCRETE SLAB ON GRADE AT LOBBY, MAIN CORRIDOR, STORAGE AREA, EPOXY FLOORS, REFER TO ARCH

NOTE: REFER TO THE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

DECK SCHEDULE			
MARK	DESCRIPTION	PLYWOOD PANEL	REMARKS
D1	38 METAL DECK		MIN. THICKNESS 0.91mm, TRIPLE SPAN
D2	38 SPF DECKING	9.5mm OSB PANEL W. 2.52Ø x 2-1/4" NAILS @100mm O.C.	SELECT GRADE DECK PLANKS; DECKING JOINTS TO BE V-JOINT TONGUE AND GROOVE; DECKING TO HAVE MIN. 2 SPAN CHORD MEMBERS ON EITHER EDGE W. #2 - 4Ø x 3.5" NAILS @ 200mm O.C.

ADDENDUM



To: Cherie Ng Architect Inc.
Toronto, ON

No.: 4

Date: January 24, 2025

Project: FIFA East VSTS - 56
Centennial Park Rd.

Fax/Email: cng@cherieng.com

Attention: Cherie Ng

From: Cassandra Kani-Sanchez

Project No.: 2024-0112

This Addendum shall be attached to the drawings and specifications and shall form an integral part of the Contract Documents. The contents of this Addendum shall be brought to the attention of all concerned.

DRAWINGS

1. **SPECIFICATIONS 22 40 00 – PLUMBING FIXTURES**
- 1.1. Revised flushometer specification for WC-1 and WC-2.
- 1.2. Revised faucet specification for CS-1 and CS-2.

End of Addendum

SEAL:



Project Name: FIFA - EAST VSTS CENTENNIAL PARK
Project No.: 2024-0112
Section Name: **Plumbing Fixtures**
Section No.: **22 40 00**
Date: ~~November 8, 2024~~ **January 24, 2025 Rev.1**

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1 GENERAL

- 1.1 General
- 1.2 Shop Drawings

2 PRODUCTS

- 2.1 Fixtures

3 EXECUTION

- 3.1 Traps
- 3.2 Unions, Flanges
- 3.3 Fixtures

Project Name: FIFA - EAST VSTS CENTENNIAL PARK
Project No.: 2024-0112
Section Name: **Plumbing Fixtures**
Section No.: **22 40 00**
Date: ~~November 8, 2024~~ **January 24, 2025 Rev.1**

1 **GENERAL**

1.1 GENERAL

1.1.1 Section 20 00 00 - General Requirements, shall apply to and govern this Section.

1.2 SHOP DRAWINGS

1.2.1 Submit shop drawings for the following equipment:

1.2.1.1 Plumbing fixtures and brass.

1.2.1.2 Fixture carriers and other appurtenances.

2 **PRODUCTS**

2.1 FIXTURES

2.1.1 Toilet – Floor Mounted with Concealed Flush Valve – WC-1

2.1.1.1 American Standard 'MADERA Flowise' Elongated #3463001.020 Toilet, white vitreous china with EverClean antimicrobial surface, floor mounted, 4.2L to 6L (1.1 US Gal to 1.6 US Gal) per flush, floor outlet. Centoco #500STSCCFE.001 heavy duty toilet seat, for elongated bowl open front, white solid plastic, less cover, reinforced stainless steel check hinges, metal flat washers stainless steel posts and nuts. ~~Sloan SL-ROYAL #140-1.28-WB-ESS flush valve, automatic concealed water closet flushometer, hardwired, constructed from semi-red brass, rough brass finish, high efficiency 4.8 Lpf (1.28 GPF). Sloan SL-EL-154 Faucet and Flush Valve power kit for flush valve. American Standard Ultima Selectronic #606B312 concealed toilet flush valve with wall box, fully mechanical manual override button, vandal-resistant, stainless steel wall box, 4.2 Lpf (1.1 glf).~~ Watts #WCA-411 floor mounted concealed carrier, adjustable arms, epoxy coated cast iron. Mission BAND-SEAK P Series shielded Specialty transition coupling, One-piece molded elastomeric sealing gasket, For non-pressure gravity flow applications only, (2 or 4) Type 301 stainless steel worm drive clamps, Meets & exceeds performance standard ASTM C1460, Rubber conforms to ASTM C564.

2.1.2 Toilet – Floor Mounted with Concealed Flush Valve - BF – WC-2

2.1.3 American Standard 'MADERA Flowise' Elongated #3463001.020 Toilet, white vitreous china with EverClean antimicrobial surface, floor mounted, 4.2L to 6L (1.1 US Gal to 1.6 US Gal) per flush,

Project Name: FIFA - EAST VSTS CENTENNIAL PARK
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floor outlet. Centoco #500STSCCFE.001 heavy duty toilet seat, for elongated bowl open front, white solid plastic, less cover, reinforced stainless steel check hinges, metal flat washers stainless steel posts and nuts. ~~Sloan SL-ROYAL #140-1.28-WB-ESS flush valve, automatic concealed water closet flushometer, hardwired, constructed from semi-red brass, rough brass finish, high efficiency 4.8 Lpf (1.28 GPF).~~ American Standard Ultima Selectronic #606B312 concealed toilet flush valve with wall box, fully mechanical manual override button, vandal-resistant, stainless steel wall box, 4.2 Lpf (1.1 glf). Sloan SL-EL-154 Faucet and Flush Valve power kit for flush valve. Watts #WCA-411 floor mounted concealed carrier, adjustable arms, epoxy coated cast iron. Mission BAND-SEAK P Series shielded Specialty transition coupling, One-piece molded elastomeric sealing gasket, For non-pressure gravity flow applications only, (2 or 4) Type 301 stainless steel worm drive clamps, Meets & exceeds performance standard ASTM C1460, Rubber conforms to ASTM C564. Franke Commercial Backrest #CM-16104, wall mounting, back rest, solid core plastic laminate

2.1.4 Lavatory – Wall Hung – LAV-1

2.1.5 American Standard 0955001EC.020 0059020EC.020 Basin - MURRO, Wall-hung Lavatory, Vitreous china, EverClean® antimicrobial surface, White finish. Sloan EBF-415-BAT-TEE-CP-0.35GPM-MLM-IR-FCT Faucet - OPTIMA®, Automatic no-touch, Optional hardwired power (battery as a back-up), 24 VAC power harness connector supplied, Lavatory faucet. Sloan SL-EL-154 Faucet and Flush Valve Power Kit - For flush valve. Chicago Faucets 131-CFMAB Mixing Valve - Point of use, Tempered water mixer, NSF/ANSI 61 compliant, Integral inlet check valves to protect against cross-flow. McGuire 155A Fixture Drain - Straight drain, Cast brass, Chrome-plated finish. McGuire LFH165LKN3 Supply - HEAVY PREMIERE Line Heavy pattern Faucet Supply kit, consisting of (2) stop valves, (2) risers, (2) flanges (standard), Lead Free Chrome-plated finish Brass body, Loose key handle, Angle stop, 305 mm (12") C.P. lavatory flexible copper riser tubes (standard), 10 mm (3/8") I.P.S. inlet x 10 mm (3/8") O.D.. McGuire 8872C P-Trap - Heavy cast brass, Adjustable P-Trap, 292 mm (11-1/2") distance, With cleanout plug. Watts WCA-411-CA-481 Carrier - WCA-411/WCA-411-WC, Lavatory carrier, For concealed arm carrier, adjustable arms, epoxy coated cast iron, Wall mounted steel support plate with plated hardware.

Project Name: FIFA - EAST VSTS CENTENNIAL PARK
 Project No.: 2024-0112
 Section Name: **Plumbing Fixtures**
 Section No.: **22 40 00**
 Date: ~~November 8, 2024~~ **January 24, 2025 Rev.1**

2.1.6 Lavatory – Wall Hung – LAV-2

2.1.7 American Standard 0955001EC.020 0059020EC.020 Basin - MURRO, Wall-hung Lavatory, Vitreous china, EverClean® antimicrobial surface, White finish. Sloan EBF-415-BAT-TEE-CP-0.35GPM-MLM-IR-FCT Faucet - OPTIMA®, Automatic no-touch, Optional hardwired power (battery as a back-up), 24 VAC power harness connector supplied, Lavatory faucet. McGuire 155A Fixture Drain - Straight drain, Cast brass, Chrome-plated finish. McGuire LFCK165LK Supply - ICV DEFENDER Faucet Supply kit, consisting of (2) stop valves, (2) risers, (2) flanges (standard), Lead Free Chrome-plated finish Brass body, Loose key handle, Angle stop, 305 mm (12") C.P. lavatory flexible copper riser tubes (standard), 10 mm (3/8") I.P.S. inlet x 10 mm (3/8") O.D.. McGuire 8872C P-Trap - Heavy cast brass, Adjustable P-Trap, 292 mm (11-1/2") distance, With cleanout plug. Watts WCA-411-CA-481 Carrier - WCA-411/WCA-411-WC, Lavatory carrier, For concealed arm carrier, adjustable arms, epoxy coated cast iron, Wall mounted steel support plate with plated hardware. Lawler TMM-1070-87500 Mixing Valve - The point of use mechanical mixing valve with thermostatic limit stop, mechanical mixing valve. Sloan SL-EL-154 Faucet and Flush Valve Power Kit - For flush valve.

2.1.8 Lavatory – Semi-counter Mounted – BF – LAV-3

2.1.9 American Standard 9960001.020 Basin - MEZZO, Semi-countertop Lavatory, Fine fire clay, White finish. Sloan EBF-415-BAT-TEE-CP-0.35GPM-MLM-IR-FCT Faucet - OPTIMA®, Automatic no-touch, Optional hardwired power (battery as a back-up), 24 VAC power harness connector supplied, Lavatory faucet. Sloan SL-EL-154 Faucet and Flush Valve Power Kit - For flush valve. Chicago Faucets 131-CFMAB Mixing Valve - Point of use, Tempered water mixer, NSF/ANSI 61 compliant, Integral inlet check valves to protect against cross-flow. McGuire PW155HDWC Fixture Drain - Offset grid drain, Offset drain, Lavatory, Molded Closed cell vinyl (antimicrobial), PVD chrome. McGuire LFH165LKN3 Supply - HEAVY PREMIERE Line Heavy pattern Faucet Supply kit, consisting of (2) stop valves, (2) risers, (2) flanges (standard), Lead Free Chrome-plated finish Brass body, Loose key handle, Angle stop, 305 mm (12") C.P. lavatory flexible copper riser tubes (standard), 10 mm (3/8") I.P.S. inlet x 10 mm (3/8") O.D.. McGuire PW2125WC P-Trap - Molded Closed cell vinyl (anti-microbial) wrapped cast brass, Glossy white, With cleanout.

Project Name: FIFA - EAST VSTS CENTENNIAL PARK
Project No.: 2024-0112
Section Name: **Plumbing Fixtures**
Section No.: **22 40 00**
Date: ~~November 8, 2024~~ **January 24, 2025 Rev.1**

2.1.10 Kitchen Sink – 1 bowl – CS-1

2.1.11 Franke Commercial UCS6105P-1 Sink - Counter mounted, Single compartment sink, constructed from 18 gauge Type 304 Stainless steel, with overall dimension 578 mm (22-3/4") long, 451 mm (17-3/4") wide, 127 mm (5") high. ~~Delta sink faucet deckmount #26C3233-S8, 8" deck-CER-TECK ceramic structures, heavy duty east brass sink faucet, tubular swing spout, vandal resistant aerator outlet 5.7 L/min (1.5 GPM), 3: lever blade handles—ADA compliant metal colour indexed, vandal resistant screws. Chicago Faucets #434-FC1ABCP manual sink faucet, deck mounted with pull-down spout, single hole mount, 3.79 L/min (1 GPM), single lever, ADA compliant.~~ Lawler TMM-1070-87500 Mixing Valve - The point of use mechanical mixing valve with thermostatic limit stop, mechanical mixing valve. McGuire LFCK165LK Supply - ICV DEFENDER Faucet Supply kit, consisting of (2) stop valves, (2) risers, (2) flanges (standard), Lead Free Chrome-plated finish Brass body, Loose key handle, Angle stop, 305 mm (12") C.P. lavatory flexible copper riser tubes (standard), 10 mm (3/8") I.P.S. inlet x 10 mm (3/8") O.D.. McGuire PW2150WC P-Trap - Molded Closed cell vinyl (anti-microbial) wrapped cast brass, Glossy white, with cleanout.

2.1.12 Kitchen Sink – 2 bowls – CS-2

2.1.13 Franke Commercial UCD6405P-1 Sink - Counter mounted, Double compartment sink, constructed from 18 gauge Type 304 Stainless steel, with overall dimension 785 mm (30-7/8") long, 451 mm (17-3/4") wide, 127 mm (5") high. ~~Delta sink faucet deckmount #26C3233-S8, 8" deck-CER-TECK ceramic structures, heavy duty east brass sink faucet, tubular swing spout, vandal resistant aerator outlet 5.7 L/min (1.5 GPM), 3: lever blade handles—ADA compliant metal colour indexed, vandal resistant screws. Chicago Faucets #434-FC1ABCP manual sink faucet, deck mounted with pull-down spout, single hole mount, 3.79 L/min (1 GPM), single lever, ADA compliant.~~ Lawler TMM-1070-87500 Mixing Valve - The point of use mechanical mixing valve with thermostatic limit stop, mechanical mixing valve. McGuire LFCK165LK Supply - ICV DEFENDER Faucet Supply kit, consisting of (2) stop valves, (2) risers, (2) flanges (standard), Lead Free Chrome-plated finish Brass body, Loose key handle, Angle stop, 305 mm (12") C.P. lavatory flexible copper riser tubes (standard), 10 mm (3/8") I.P.S. inlet x 10 mm (3/8") O.D.. McGuire PW2150WC P-Trap - Molded Closed cell vinyl (anti-microbial) wrapped cast brass, Glossy white, with cleanout

Project Name: FIFA - EAST VSTS CENTENNIAL PARK
 Project No.: 2024-0112
 Section Name: **Plumbing Fixtures**
 Section No.: **22 40 00**
 Date: ~~November 8, 2024~~ **January 24, 2025 Rev.1**

2.1.14 Janitor Mop Sink Floor Mounted – MS-1

2.1.14.1 Stern Williams #SB-900-T-35-T-40-BP Floor mounted, Single compartment sink, constructed from Precast terrazzo, with overall dimension 610 mm (24") long, 610 mm (24") wide, 305 mm (12") high. Chicago Faucets #305VB-369VP-XK wall mounted two handle manual faucet, 203mm (8") centerset, chrome plated solid brass exposed body, ceramic 1/4 turn cartridges, unrestricted hose end outlet, 140mm (5-1/2") from wall to outlet reach, with body-mounted vacuum breaker, metal red and blue index buttons 60mm (2-3/8") long lever handles with vandal resistant screw. Stern Williams A-20 bumper guard, anodized aluminum cap. Stern Williams T-35 hose and wall hook, hose 914mm (36") long with 20mm (3/4") chrome coupling, stainless steel wall bracket. Stern Williams T-40 mop hanger stainless steel #4 finish, 610mm (24") long with 3 rubber spring loaded clips. Stern Williams BP back splash panel 20 gauge type 304 stainless steel. Stern Williams TC-3 gasket 75mm (3") for XHCl, plastic and steel pipe. Provide P-trap, same material as the connecting pipe drain.

2.1.15 Combination Eyewash & Shower Safety Station – EES-1

2.1.15.1 Guardian G1902-AP275-200-G3800LF-SSH-GC-HS-HFC-AP250-015 Emergency Equipment - Floor mounted, constructed from Stainless Steel Bowl and ABS or Stainless Steel Showerhead, Stainless steel, 283 mm (11-1/8") Ø bowl size, Thermostatic mixing valve blends hot and cold water, finish, Orange ABS plastic showerhead, Two GS-Plus spray heads with flip top dust cover each, Stainless steel showerhead, 254 mm (10") Ø showerhead size, 75 LPM (20 GPM) flow control, Auxiliary Hose Spray, 32 mm (1-1/4") Ø NPT female outlet, Electric Flashing light and alarm horn unit. Lawler 911-Unit 8334 Mixing Valve - Emergency mixing valve, Thermostatic High-low master water mixing valve. Watts FD-460NH-F Floor Drain - Epoxy coated cast iron, Floor drain, Square 324 x 324 mm (12-3/4" x 12-3/4") top, No-hub outlet, Heel proof ductile iron grate.

2.1.16 Shower – SH-1

2.1.16.1 Symmons Institutional Showerhead # 4-295-A-1.5, showerhead at 30 degree spray anfle with mounting bracket and fasteners, anchor plate for use with ceramic tile, 5.7 L/min (1.5 gpm) flow rate restrictor, vandal resistant, polished chrome finish, solid brass construction. Symmons Showeroff Valve and Trim #4-420, polished chrome finish, manual showeroff limiter valve cartridge, in-line vacuum breaker.

Project Name: FIFA - EAST VSTS CENTENNIAL PARK
Project No.: 2024-0112
Section Name: **Plumbing Fixtures**
Section No.: **22 40 00**
Date: ~~November 8, 2024~~ **January 24, 2025 Rev.1**

- 2.1.17 Shower – BF – SH-2
- 2.1.17.1 Symmons wall mounted slide and grab bar and ADA hand shower with non-positive shut-off #T736 with 36" slide/grab bar with polished chrome ADA hand shower, 5.7 L/min (1.5 gpm) flow restrictor. Symmons Showeroff Valve and Trim #4-420, polished chrome finish, manual showeroff limiter valve cartridge, in-line vacuum breaker.
- 2.1.18 Indoor Drinking Fountain & Bottle Filling Station – Wall Hung (Barrier Free Design & General Use) – BF-1
- 2.1.18.1 Elkay Enhanced ezH2O #LZS8WSSP bottle filling station & single ADA cooler refrigerated stainless high capacity lead reductions quick filter change, chilling capacity to 8.0 GPH antimicrobial, automatic filter status reset, filtered, green ticker, hands free, laminar flow, real drain, Flexi-Guard safety bubbler, electronic bottle filler sensor with electronic front and side bubbler pushbar activation, in-wall carrier #MLP100
- 2.1.19 Outdoor Drinking Fountain and Bottle Filling Station – BF-2
- 2.1.19.1 Elkay Outdoor ezH2O #LK4408BF-BLU Bottle filling station wall mount with single fountain, non-filtered, non-refrigerated, heavy duty vandal resulant, laminar flow, 300 stainless steel, furnished with vandal resistant bubbler, mechanical button activation, blue colour. Provide heat trace for pipes. Provide carrier as required.

3 **EXECUTION**

3.1 TRAPS

- 3.1.1 Provide every fixture with traps in accordance with local regulations. Provide each trap with its own brass plug and ferrule cleanout.
- 3.1.2 For traps located in ceilings, provide access doors.

3.2 UNIONS, FLANGES

- 3.2.1 Provide unions or flanges at all connections to fixtures requiring servicing or replacing.
- 3.2.2 In copper pipes, provide wrought copper unions with soldered joints for pipes up to and including DN50 (2") sizes and 1,034 kPa (150 psi) cast brass flanges for pipes DN100 (4") or larger.

Project Name: FIFA - EAST VSTS CENTENNIAL PARK
Project No.: 2024-0112
Section Name: **Plumbing Fixtures**
Section No.: **22 40 00**
Date: ~~November 8, 2024~~ **January 24, 2025 Rev.1**

3.3 FIXTURES

- 3.3.1 Supply and install all hangers, supports, brackets, reinforcement, steel back-up plates, etc. for the proper installation of fixtures and supply fittings.
- 3.3.2 Install all components in strict accordance with manufacturer's recommendations.
- 3.3.3 Where plumbing fixtures contact wall, and/or floors, seal joints with Dow Corning #781, building sealant, make watertight and bead smooth in a neat professional manner.
- 3.3.4 Exposed trim, supplies, traps, fittings, etc. shall be brass, heavily chrome plated unless noted otherwise.
- 3.3.5 Provide a trap for each fixture.
- 3.3.6 Vent fixtures in accordance with Section 22 13 16 – Sanitary Waste and Vent Piping.
- 3.3.7 Install chrome plated angle on straightaway type screwdriver compression stops, as required, on all hot and cold water service connections to all fixtures.
- 3.3.8 Install escutcheon plates where all service connections to fixtures pass through walls or floors. Plates shall be cast brass, heavy chrome plated. Same internal diameter as external diameter of pipe.

END OF SECTION

ADDENDUM



To: Cherie Ng Architect Inc.
Toronto, ON

No.: 4

Date: January 24, 2025

Fax/Email: cng@cherieng.com

Project: FIFA East VSTS - 56 Centennial Park Rd.

Attention: Cherie Ng

From: Alex Tan

Project No.: 2024-0112

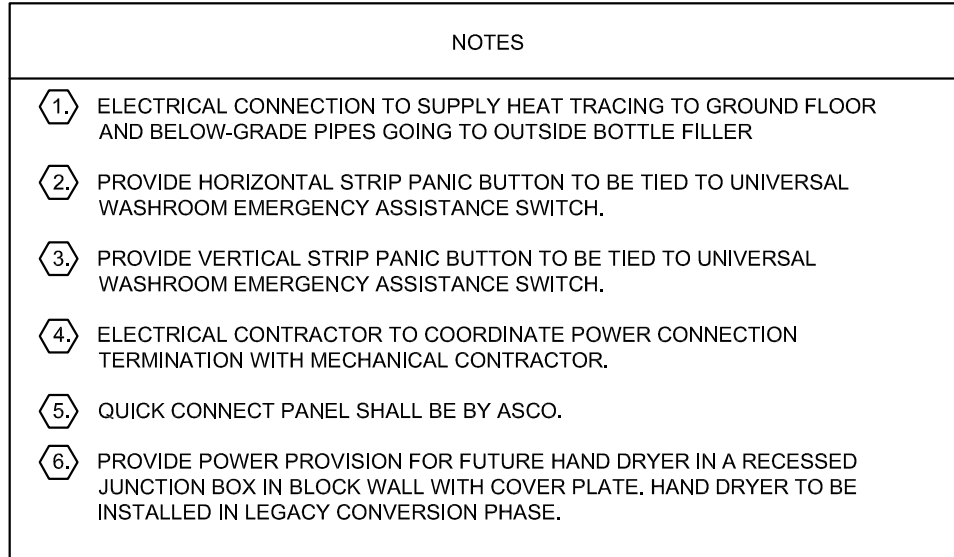
This Addendum shall be attached to the drawings and specifications and shall form an integral part of the Contract Documents. The contents of this Addendum shall be brought to the attention of all concerned.

DRAWINGS

1. **DRAWING E-300.0 – FLOOR PLAN – GAME POWER & SYSTEMS – (DRAWING RE-ISSUED)**
 - 1.1. Provide 120V power connections to all plumbing fixtures and bottle fillers.
2. **DRAWING E-300.1 – FLOOR PLAN – GAME POWER & SYSTEMS – (DRAWING RE-ISSUED)**
 - 2.1. Provide 120V power connections to all plumbing fixtures and bottle fillers.
 - 2.2. Relocated remote heads.
3. **Electrical panel schedules – (RE-ISSUED)**
 - 3.1. Panels PP-2B01 and PP-2D01 – add additional breakers for plumbing fixtures and bottle fillers

End of Addendum.





E-300.1



PROJECT NAME: FIFA East VSTS
PROJECT NUMBER: 2024-0112
DATE: July 26, 2024
ENGINEER/DESIGNER Neil Pasco

PANEL: PP-2B01
PAGE: 1 of 2
LOCATION: GROUND FLOOR

Panel Mains:	225 A	SC Rating:	As per Spec	Voltage:	120 / 208	Ph/Wire:	3ϕ /4W	Fed from:	REFER TO SLD					
BRKR	*	DESCRIPTION		C [W]	cct	PHASE A B C			cct	C [W]	DESCRIPTION		*	BRKR
15A-1P	S	WARM-UP/ LOUNGE DOOR OPENERS (RM 1)		1000	1	●			2	1000	W/C C HAND DRYER (RM 11)		S	15A-1P
15A-1P	S	NORTHWEST RECEPTACLES (RM 1, 6, 18-20)		800	3		●		4	1000	PLAYER'S RECOVERY RM DOOR OPENERS (RM 12)		S	15A-1P
15A-1P	S	CORRIDOR A RECEPTACLES (RM 2)		800	5			●	6	1000	PLAYER'S RECOVERY RM & MASSAGE RM RECEPTACLES (RM 12-13)		S	15A-1P
15A-1P	S	CORRIDOR B RECEPTACLES (RM 3)		1200	7	●			8	1000	PLAYER'S MASSAGE ROOM DOOR OPENERS (RM 13)		S	15A-1P
15A-1P	S	CAFÉ REFRIGERATOR (RM 4)		1000	9		●		10	1000	W/C HAND DRYER (RM 14)		S	20A-1P
15A-1P	S	SPARE			11			●	12	1000	W/C RECEPTACLES (RM 14)		S	20A-1P
20A-1P	S	CAFÉ DISHWASHER (RM 4)		1800	13	●			14	1000	W/C HAND DRYER (RM 14)		S	15A-1P
20A-1P	S	CAFÉ ABOVE COUNTER RECEPTACLE (RM 4)		1800	15		●		16	1000	W/C DOOR OPENERS (RM 14)		S	20A-1P
20A-1P	S	CAFÉ ABOVE COUNTER RECEPTACLE (RM 4)		1800	17			●	18	1000	TEAM DRESSING RM DOOR OPENERS (RM 15)		S	20A-1P
15A-1P	S	CUSTODIAL SERVICE POWER & DOOR OPENER (RM 5)		1000	19	●			20	600	TEAM DRESSING RM RECEPTACLES (RM 15)		S	20A-1P
15A-1P	S	WORKFORCE OFFICE RECEPTACLES (RM 6)		900	21		●		22	1000	TEAM SANITARY FACILITIES DOOR OPENERS (RM 16)		S	20A-1P
15A-1P	S	WORKFORCE OFFICE RECEPTACLES (RM 6)		900	23			●	24	1000	TEAM SANITARY FACILITIES HAND DRYER (RM 16)		S	15A-1P
15A-1P	S	WORKFORCE OFFICE & MEETING RM D.O. (RM 6-7)		1000	25	●			26	1000	TEAM SANITARY FACILITIES RECEPTACLES (RM 16-17)		S	20A-1P
20A-1P	S	MEETING RM RECEPTACLES (RM 7)		1500	27		●		28	1000	TEAM SANITARY FACILITIES DOOR OPENERS (RM 17)		S	15A-1P
15A-1P	S	TEAM COACHES RM & W/C D D.O. (RM 8, 11)		1000	29			●	30	1000	TEAM SANITARY FACILITIES HAND DRYER (RM 17)		S	15A-1P
15A-1P	S	COACHES RM RECEPTACLES (RM 8)		800	31	●			32	1800	IT ROOM CABLE TRAY RECEPTACLE (RM 19)		S	20A-1P
15A-1P	S	UNIV. W/C DOOR OPENERS (RM 9)		1000	33		●		34	1800	IT ROOM CABLE TRAY RECEPTACLE (RM 19)		S	20A-1P
20A-1P	S	UNIV. W/C RECEPTACLES (RM 9)		1000	35			●	36	1800	IT ROOM SECURITY CABINET RECEPTACLE (RM 19)		S	20A-1P
15A-1P	S	UNIV. W/C HAND DRYER (RM 9)		1000	37	●			38	500	MECH RM BLDG AUTOMATION SYSTEM RECEPTACLE (RM 21)		S	15A-1P
15A-1P	S	W/C D HAND DRYER (RM 10)		1000	39		●		40	1000	MECH RM & STORAGE RECEPTACLES (RM 21-22)		S	15A-1P
20A-1P	S	W/C C & D RECEPTACLES (RM 10-11)		1000	39			●	42	500	RTU UPS		S	15A-1P

LEGEND: S : Standard Breaker
G : Ground Fault Circuit Interrupt
3G : 30mA Ground Fault Circuit Interrupt
A : Arc Fault Circuit Interrupt
(L) : Lock-on Device

OPTIONS: ☒ Main Breaker 0 A CSA Enclosure Rating: Type 1
☐ Feed-through/Double Lugs Tub Type: Single
☐ Isolated Ground Bus Mounting: Surface
☐ Integral SPD Total Circuits: 84

Demand "A" 11370 W
Demand "B" 13470 W
Demand "C" 10203 W

TOTAL DEMAND AMPS 108.2 A
TOTAL CONNECTED LOAD 53.6 kW
TOTAL DEMAND LOAD 35.0 kW

NOTES:



PROJECT NAME: **FIFA East VSTS**
PROJECT NUMBER: **2024-0112**
DATE: July 26, 2024
ENGINEER/DESIGNER Neil Pasco

PANEL: **PP-2B01**
PAGE: 2 of 2
LOCATION: GROUND FLOOR

Panel Mains:	225 A	SC Rating:	As per Spec	Voltage:	120 / 208	Ph/Wire:	3ϕ /4W	Fed from:	REFER TO SLD						
BRKR	*	DESCRIPTION			C [W]	cct	PHASE A B C			cct	C [W]	DESCRIPTION		*	BRKR
20A-1P	S	GFI RECEPTACLE FOR MICROWAVE			1200	43	●			44	200	HEAT TRACING			15A-1P
20A-1P	S	KITCHEN RECEPTACLE IN DRAWER			1000	45	●			46	1800	ROOF RECEPTACLE			20A-1P
15A-1P	S	PLUMB FIX - TEAM SAN FACILITIES 16/17M UNV WC 09				47		●		48	576	BATTERY UNITS (RM 1, 15, 19, 20)			15A-1P
15A-1P	S	PLUMBING FIXTURES - TEAM SANITARY FACILITIES 16/17				49	●			50		SPARE			15A-1P
15A-1P	S	PLUMBING FIXTURES - WC14				51		●		52	1000	W/C HAND DRYER (RM 14)			15A-1P
15A-1P	S	PLUMBING FIXTURES - WC14				53			●	54	1000	W/C HAND DRYER (RM 14)			15A-1P
15A-1P	S	BOTTLE FILTER, KITCHEN SINK				55	●			56	1000	W/C HAND DRYER (RM 16)			15A-1P
15A-1P	S	SPARE				57		●		58	1000	W/C HAND DRYER (RM 17)			15A-1P
15A-1P	S	SPARE				59			●	60					15A-1P
15A-1P	S	SPARE				61	●			62					15A-1P
15A-1P	S	SPARE				63		●		64					15A-1P
15A-1P	S	SPARE				65			●	66					15A-1P
15A-1P	S	SPARE				67	●			68					15A-1P
15A-1P	S	SPARE				69		●		70					15A-1P
15A-1P	S	SPARE				71			●	72					15A-1P
15A-1P	S	SPARE				73	●			74					15A-1P
15A-1P	S	SPARE				75		●		76					15A-1P
15A-1P	S	SPARE				77			●	78					15A-1P
15A-1P	S	SPARE				79	●			80					15A-1P
15A-1P	S	CORRIDOR A DOOR OPENER (RM 2)			500	81		●		82					15A-1P
15A-1P						83			●	84					15A-1P

LEGEND:
S : Standard Breaker
G : Ground Fault Circuit Interrupt
3G : 30mA Ground Fault Circuit Interrupt
A : Arc Fault Circuit Interrupt
(L) : Lock-on Device

OPTIONS:
☒ Main Breaker: **hidi** CSA Enclosure Rating: Type 1
☐ Feed-through/Double Lugs Tub Type: Single
☐ Isolated Ground Bus Mounting: Surface
☐ Integral SPD Total Circuits: 84

Demand "A"	11370 W
Demand "B"	13470 W
Demand "C"	10203 W

TOTAL DEMAND AMPS	108.2 A
TOTAL CONNECTED LOAD	53.6 kW
TOTAL DEMAND LOAD	35.0 kW

NOTES:



PROJECT NAME: **FIFA East VSTS**
 PROJECT NUMBER: **2024-0112**
 DATE: August 29, 2024
 ENGINEER/DESIGNER Neil Pasco

PANEL: **PP-2D01**
PAGE: 1 of 2
LOCATION: INTERVIEW RM 24

Panel Mains:		225 A	SC Rating:	As per Spec	Voltage:	120 / 208		Ph/Wire:	3ϕ /4W	Fed from:	REFER TO SLD			
BRKR	*	DESCRIPTION			C [W]	cct	PHASE A B C		cct	C [W]	DESCRIPTION		*	BRKR
15A-1P	S	INTERVIEW/FLASH POSITION ROOM AND HALL (RM 23-25)			771	1	●		2	1200	INTERVIEW RM & FLASH POSITION RM RECEPTACLES (RM 24-25)		S	15A-1P
15A-1P	S	PUBLIC WASHROOM LIGHTING (RM 26-37)			611	3	●		4	1000	UNIVERSAL W/C & W/C DOOR OPENERS (RM 26-27)		S	15A-1P
15A-1P	S	EXIT SIGNS FOR BU-5			18	5	●	●	6	1200	UNIVERSAL W/C RECEPTACLES (RM 26)		S	20A-1P
20A-2P	S	AIR CURTAIN AC-1			1258	7	●		8	500	UNIVERSAL WASHROOM ADULT CHANGING TABLE		S	15A-1P
	S				1258	9	●		10	1000	UNIVERSAL W/C HAND DRYER (RM 26)		S	15A-1P
20A-2P	S	AIR CURTAIN AC-1			1258	11	●	●	12	800	W/C RECEPTACLES (RM 27)		S	15A-1P
	S				1258	13	●		14	1000	W/C HAND DRYER (RM 27)		S	15A-1P
15A-1P	S	FFH-1 HALL (23)			1176	15	●	●	16	1000	W/C HAND DRYER (RM 28)		S	15A-1P
15A-1P	S	FFH-1 HALL (23)			1176	17	●	●	18	1000	W/C HAND DRYER (RM 29)		S	15A-1P
15A-1P	S	FFH-1 HALL (WASHROOM CORRIDOR)			1176	19	●		20	1000	W/C HAND DRYER (RM 30)		S	15A-1P
15A-1P	S	FFH-1 HALL (WASHROOM CORRIDOR)			1176	21	●	●	22	1000	W/C HAND DRYER (RM 31)		S	15A-1P
15A-2P	S	HHP-17 FLASH POSITION			530	23	●	●	24	1000	W/C HAND DRYER (RM 32)		S	15A-1P
	S				530	25	●		26	1000	W/C HAND DRYER (RM 33)		S	15A-1P
15A-2P	S	HHP-16 INTERVIEW ROOM			530	27	●	●	28	1000	W/C HAND DRYER (RM 34)		S	15A-1P
	S				530	29	●	●	30	1000	W/C HAND DRYER (RM 35)		S	15A-1P
50A-2P	S	HHP-15 HALL			2683	31	●		32	1000	W/C HAND DRYER (RM 36)		S	15A-1P
	S				2683	33	●	●	34	1000	W/C HAND DRYER (RM 37)		S	15A-1P
25A-2P	S	HHP-14 COORIDOR			1352	35	●	●	36	1000	SOUTH WASHROOMS DOOR OPENERS		S	15A-1P
	S				1352	37	●		38	500	FLASH POSITION DOOR OPENER (RM 25)		S	15A-1P
15A-1P	S	HALL & INTERVIEW RM DOOR OPENERS (RM 23, 24)			1000	39	●	●	40	144	BATTERY UNIT (RM 29)		S	15A-1P
15A-1P	S	CORRIDOR B & HAL DOOR OPENERS (RM 3, 23)			1000	41	●	●	42	1000	HALL RECEPTACLES (RM 23)		S	15A-1P

LEGEND:
 S : Standard Breaker
 G : Ground Fault Circuit Interrupt
 3G : 30mA Ground Fault Circuit Interrupt
 A : Arc Fault Circuit Interrupt
 (L) : Lock-on Device

OPTIONS:
☒ Main Breaker **0 A** CSA Enclosure Rating: Type 1
☐ Feed-through/Double Lugs Tub Type: Single
☐ Isolated Ground Bus Mounting: Flush
☐ Integral SPD Total Circuits: 84

Demand "A" **10316 W**
 Demand "B" **9255 W**
 Demand "C" **8229 W**

TOTAL DEMAND AMPS **85.8 A**
TOTAL CONNECTED LOAL **47.4 kW**
TOTAL DEMAND LOAD **27.8 kW**

NOTES:



PROJECT NAME: FIFA East VSTS
PROJECT NUMBER: 2024-0112
DATE: August 29, 2024
ENGINEER/DESIGNER Neil Pasco

PANEL: PP-2D01
PAGE: 2 of 2
LOCATION: INTERVIEW RM 24

Panel Mains:	225 A	SC Rating:	As per Spec	Voltage:	120 / 208	Ph/Wire:	3ϕ /4W	Fed from:	REFER TO SLD						
BRKR	*	DESCRIPTION			C [W]	cct	PHASE A B C			cct	C [W]	DESCRIPTION		*	BRKR
20A-1P	S	OVERHEAD DOORS HALL			1176	43	●			44					
20A-1P	S	OVERHEAD DOORS HALL			1176	45		●		46					
20A-1P	S	OVERHEAD DOORS W/C			1176	47			●	48					
20A-1P	S	OVERHEAD DOORS W/C			1176	49	●			50					
15A-1P	S	PLUMBING FIXTURES W/C 28 TO 32				51		●		52					
15A-1P	S	PLUMBING FIXTURES W/C 26, 27, & 33 TO 37				53			●	54					
						55	●			56					
						57		●		58					
						59			●	60					
						61	●			62					
						63		●		64					
						65			●	66					
						67	●			68					
						69		●		70					
						71			●	72					
						73	●			74					
						75		●		76					
						77			●	78					
						79	●			80					
						81		●		82					
						83			●	84					

LEGEND: S : Standard Breaker
G : Ground Fault Circuit Interrupt
3G : 30mA Ground Fault Circuit Interrupt
A : Arc Fault Circuit Interrupt
(L) : Lock-on Device

OPTIONS: ☒ Main Breaker: hidi CSA Enclosure Rating: Type 1
☐ Feed-through/Double Lugs Tub Type: Single
☐ Isolated Ground Bus Mounting: Flush
☐ Integral SPD Total Circuits: 84

Demand "A" 10316 W
Demand "B" 9255 W
Demand "C" 8229 W

TOTAL DEMAND AMPS 85.8 A
TOTAL CONNECTED LOAC 47.4 kW
TOTAL DEMAND LOAD 27.8 kW

NOTES: