GENERAL NOTES
GOVERNING CODE - ONTARIO BUILDING CODE OF CANADA, 2012 EDITION:

1. DESIGN LOADS: **(UNFACTORED)**

GROUND SNOW LOAD: Ss = 2.1 kPa
Sr = 0.4 kPa
Is = 1.0

ROOF: DEAD LOAD = 1.12 kPa
SNOW LOAD = 2.08 kPa
} REFER TO DRIFT LOADS

FLOOR LOADS:
DEAD LOAD = 3.6 kPa (MAIN FLOOR)
= 2.4 kPa (SECOND FLOOR)
LIVE LOAD = 4.8 kPa (INCLUDING EXITS)

WIND LOAD: q (1/50) = 0.47 kPa
Iw = 1.0

SEISMIC: Sa (0.2)= 0.161 Sa (1.0)= 0.065 Sa (5.0) = 0.0089 PGA= 0.098
Sa (0.5)= 0.110 Sa (2.0)= 0.034 Sa (10.0)= 0.0038 Ie = 1.0

SITE CLASS: "C"

DESIGN LIVE LOADS TO INCLUDE POINT LOAD REQUIREMENTS AS PER ARTICLE 4.1.6.10 OF THE 2012 ONTARIO BUILDING CODE. FACTORED LOADS SHOWN ON DRAWINGS USE LOAD FACTORS LL = 1.5 AND DL = 1.25 PER ONTARIO BUILDING CODE.

FOUNDATIONS - GENERAL:

1. THE FOUNDATION HAS BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 500 KPA ON SOUND BEDROCK. REFER TO GEO-TECHNICAL REPORT NO. 1583.00-101 COMPLETED BY MALROZ ENGINEERING INC. THE GEO-TECHNICAL CONSULTANT WILL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE NATIVE SOILS AND BACKFILL MATERIALS.

2. FOOTINGS MAY NOT BE POURED INTO AN EARTH-FORMED TRENCH.

3. OPEN EXCAVATIONS SHALL BE DE-WATERED AS REQUIRED. MEASURES MAY BE REQUIRED TO PROTECT BEARING MATERIALS FROM DEGRADATION DUE TO EXTREME WEATHER AND CLIMATIC CONDITIONS.

4. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR ON NATIVE UNDISTURBED SOIL. FOOTING ELEVATIONS MAY NEED TO BE ADJUSTED.

5. THE ENGINEER SHALL INSPECT ALL REBAR AND FORMWORK PRIOR TO PLACING CONCRETE. FORMWORK SHALL BE COMPLETE AT THE TIME OF INSPECTION, REINFORCEMENT MUST BE MINIMUM 95% COMPLETE AT TIME OF INSPECTION. PROVIDE MINIMUM 24 HOUR NOTICE AT THE FOLLOWING SCHEDULED EVENTS:

5.1. FOOTING PLACEMENT
5.2. FOUNDATION WALL/PIER PLACEMENT
5.3. SLAB ON GRADE PLACEMENT

6. WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL. ALL FILL TO BE GRANULAR MATERIAL AS APPROVED BY ENGINEER.

7. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE BRACING AND SUPPORT OF FORMWORK TO ENSURE WALLS ARE PLUMB WITHIN ACCEPTABLE LIMITS (1:500).

8. GRANULAR FILL SHALL BE MINIMUM 150mm GRANULAR "A" COMPACTED TO 98% S.P.D.D, ALL OTHER FILL ON SITE SHALL BE GRANULAR B TYPE II COMPACTED TO 98% S.P.D.D. U.N.O. GRANULAR FILL SHALL BE COMPACTED IN MAXIMUM 255mm LIFTS. FILL NOT SPECIFIED ON THE DRAWINGS TO BE USED ON SITE MUST BE APPROVED BY THE DESIGNER PRIOR TO PLACEMENT.

CONCRETE:

1. DESIGN OF CONCRETE ELEMENTS SHALL CONFORM TO CSA-A23.3-14. PROVIDE CONCRETE AND PERFORM WORK TO CSA A23.3-14.

2. TEST CONCRETE IN ACCORDANCE WITH CSA-A23.3-14.

3. CONCRETE REQUIREMENTS:

LOCATION CONDITION	MIN. DESIGN STR. Mpa = TYPE (DAYS) C = COMPRESSION F= FLEXURAL	CEMENT	AIR (%)	MAX AGG. (mm)	EXP.
INT. SLAB ON GRADE	25C (28)	GU	< 3	20	N
FOOTINGS	20C (28)	GU	< 3	20	N
INTERIOR PIERS	25C (28)	GU	< 3	20	N
FOUNDATION WALLS	25C (28)	GU	4-7	20	F-2
EXT. EXPOSED CONC.	32C (28)	GU	4-7	20	C-1

- WHERE SPECIFIED STRENGTH EXCEED THOSE IMPLIED BY EXPOSURE CLASS, SPECIFIED STRENGTH GOVERNS.
- ALL CONCRETE TO BE NORMAL WEIGHT 2400 KG/CUBIC METER
- WATER CEMENT RATIOS FOR EXPOSURE CLASSES AS PER TABLES 7 - 9, CAN/CSA-A23.1-14.
- DO NOT USE ANY ADMIXTURE CONTAINING CHLORIDE FOR CONCRETE WITH S-2 EXPOSURE.
- NORMAL PORTLAND CEMENT TO BE USED FOR CONCRETE.

4. CONTROL JOINTS FOR SLAB ON GRADE: SAWCUT AT LOCATIONS SHOWN ON DRAWINGS BUT NOT EXCEEDING 4500mm x 4500mm SPACING. UNLESS OTHERWISE NOTED.

5. NO COLUMN OR WALL FORMS SHALL BE REMOVED BEFORE CONCRETE HAS REACHED 10 Mpa FOR ARCHITECTURAL CONCRETE AND 8 Mpa FOR OTHER COLUMNS OR WALLS.

6. NO SLAB FORMS OR BEAM FORMS SHALL BE REMOVED BEFORE CONCRETE HAS REACHED 17 Mpa.

7. STRENGTH OF CONCRETE FOR STRIPPING TO BE DETERMINED BY FIELD-CURED CYLINDERS. ALTERNATE METHODS, IF ACCEPTABLE TO THE STRUCTURAL DESIGN ENGINEER, MAY BE USED.

8. RESHORING TO BE APPROVED BY THE ENGINEER PRIOR TO STRIPPING.

9. CONCRETE SLABS SHALL BE WET CURED FOR NO LESS THAN 7 DAYS, WET CURING SHALL BE COMPLETED WITH TERRAFIX 240R NON-WOVEN GEOTEXTILE BLANKETS (WHITE). SUBSTITUTIONS ARE NOT PERMITTED.

10. ALL SLABS, BEAMS, GIRDERS, ETC. TO BE SHORED UNTIL CONCRETE REACHES DESIGN STRENGTH.

11. BE RESPONSIBLE FOR THE MIX DESIGN. MIX DESIGN SHALL BE PROPORTIONED WITH DUE CONSIDERATION TO EXTREME TEMPERATURES - WINTER OR SUMMER AND CONSULT GENERAL CONTRACTOR TO DETERMINE REQUIREMENTS. ADMIXTURES AND ADDITIVES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

REINFORCING NOTES:

1. REINFORCING STEEL: NEW DEFORMED BARS TO CSA/G30.18-09 (R2014), "BILLET STEEL BARS FOR CONCRETE REINFORCEMENT", GRADE 400R, BARS TO BE WELDED CONFORM TO CAN/CSA G30.18-09, GRADE 400W. ANCHOR BOLTS TO ASTM A307. PLACE REBAR TO CAN/CSA-A23.1-14.

2. PROVIDE CLEAR CONCRETE COVER OVER REBAR AS FOLLOWS:

A) SURFACE POURED AGAINST GROUND 75 mm
B) FORMED SURFACES EXPOSED TO GROUND OR WEATHER 40 mm
C) FORMED SURFACES NOT EXPOSED TO GROUND OR WEATHER:
BEAMS (TO STIRRUPS) 40 mm
COLUMNS (TO VERTICALS) 50 mm
SLABS, WALLS 20 mm
D) PARKING SURFACES AND EXTERIOR TOP OF SLAB: 40 mm

3. REINFORCING WORK TO BE INSPECTED BY THE ENGINEER. NOTIFY THE ENGINEER 24 HOURS IN ADVANCE. CONTRACTOR MUST ENSURE MINIMUM 95% STEEL ARE IN PLACE FOR THE INSPECTION.

4. REBAR LAP SPLICE LENGTHS (UNLESS NOTED ON DRAWINGS)

BAR SIZE	COMP. SPLICES (mm)	TENSION SPLICE "CLASS B" 25 Mpa	30 Mpa	FOR CONCRETE STRENGTHS (mm) 35 Mpa	40 Mpa
10M	330	430 (560)	380 (510)	360 (460)	330 (430)
15M	480	610 (790)	535 (790)	510 (660)	480 (610)
20M	580	740 (940)	660 (865)	610 (815)	580 (760)
25M	740	1170 (1525)	1065 (1400)	990 (1295)	940 (1220)

TOP BAR SPLICE LENGTHS ARE DENOTED IN BRACKETS AND SHOULD BE USED WHEN HORIZONTAL SPLICE BARS ARE PLACED SUCH THAT THERE IS MORE THAN 300mm OF CONCRETE POURED BELOW THE BAR.

REBAR EMBEDMENT LENGTHS (UNLESS NOTED ON DRAWINGS)

BAR SIZE	COMPRESSION EMBEDMENT FOR CONCRETE STRENGTH (mm) 20 Mpa	25 Mpa	30 Mpa	TENSION EMBEDMENT FOR CONCRETE STRENGTH (mm) 25 Mpa	30 Mpa	35 Mpa	40 Mpa
10M	250(330)	230 (280)	200 (250)	330 (430)	305 (380)	80 (360)	50 (330)
15M	360 (450)	300 (400)	275 (360)	460 (610)	430 (530)	80 (510)	360 (480)
20M	430 (535)	380 (485)	360 (450)	560 (735)	510 (660)	80 (610)	60 (585)
25M	535 (710)	485 (635)	450 (585)	915 (1170)	840 (1070)	760 (990)	10 (940)
30M	635 (840)	585 (740)	535 (685)	1070 (1400)	90 (1270)	15 (1170)	40 (1120)
35M	760 (990)	685 (900)	635 (810)	1295 (1675)	170 (1525)	090 (1420)	1015 (1320)

TOP BAR DEVELOPMENT LENGTHS ARE DENOTED IN BRACKETS AND SHOULD BE USED WHEN HORIZONTAL BARS ARE PLACED SUCH THAT THERE IS MORE THAN 300 mm OF CONCRETE POURED BELOW THE BAR.

5. MIN. REINFORCING AROUND OPENINGS LARGER THAN 300 MM: 2 - 15M EACH SIDE OF OPENING, EXTENDED 600 MM PAST CORNERS.

6. DOWELS SHALL BE PLACED BEFORE CONCRETE IS POURED. TEMPLATES SHALL BE USED TO ENSURE CORRECT PLACEMENT OF DOWELS. DOWELS TO MATCH VERTICAL BARS.

7. PROVIDE SUFFICIENT CHAIRS AND SUPPORT BARS TO MAINTAIN CONCRETE COVER AS SPECIFIED.

STRUCTURAL STEEL:

1. FABRICATE AND ERECT STRUCTURAL STEEL TO CAN/CSA S16.1-14. SUBMIT TWO SETS OF PRINTS OF SHOP DRAWINGS SHOWING ALL DETAILS AND MATERIAL SPECS. FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN ONTARIO, FOR THOSE CONNECTIONS AND COMPONENTS DESIGNED BY THE FABRICATOR. THIS ENGINEER OR HIS REP. SHALL VISIT THE SITE TO SATISFY HIMSELF THAT THESE CONNECTIONS AND COMPONENTS SUBSTANTIALLY COMPLY WITH HIS SEALED SHOP DRAWINGS. THIS ENGINEER SHALL PROVIDE A LETTER TO THE CONSULTANT TO THIS EFFECT. THE ENGINEER SHALL ALSO PROVIDE SEALED SKETCHES FOR ALL FIELD MODIFICATIONS, MADE TO THIS DESIGN.

2. PROVIDE STRUCTURAL STEEL TO CSA G40.21-13 WITH THE FOLLOWING GRADES;

WIDE FLANGE BEAMS AND COLUMNS	350 W
CHANNELS	350 W
HSS SECTIONS (CLASS H)	350 W
STRUCTURAL BARS, PLATES & ANGLES	300 W
MISCELLANEOUS STEEL	300 W
PIPE COLUMNS	ASTM A53 GR.B

3. PROVIDE ERECTION BOLTS TO ASTM A325, MINIMUM M20. DESIGN BOLTED CONNECTIONS TO ASTM A325 ASSUMING THREADS IN THE SHEAR PLANE.

4. WELD TO CASA W59-18 BY FABRICATORS CERTIFIED TO CSA W47.1-09 WELDING OF REINFORCING BARS SHALL CONFORM TO CSA W186-M1990 (R2012). PRIOR TO SITE WELDING THE FABRICATOR MUST OBTAIN A HOT WORKS PERMIT FROM THE UCDSB PROJECT MANAGER. TOUCH UP ALL IN FIELD WELDS WITH ANTI-RUST PAINT OR COLD GALVANIZING PAINT AS APPLICABLE.

5. MINIMUM WELDS FOR CONNECTIONS SHALL BE 6mm FILLET WELDS AND WHERE EXPOSED IN FINISHED BUILDING WELDS SHALL BE GROUND SMOOTH.

6. ALL STUD ANCHORS AND DEFORMED BAR ANCHORS SHALL BE FUSION WELDED TO PLATES AS PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

7. CONNECTIONS NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE STEEL FABRICATOR. MINIMUM BEAM SHEAR IS 70% OF THE TOTAL BEAM LOAD CAPACITY AS LISTED IN "CISC MANUAL BEAM LOADS TABLES" FOR THE GIVEN SPAN OF THE BEAM U.N.O. UNUSUAL LOADINGS SHOWN ON PLANS ARE SPECIFIED LOADS. SEE LEGEND FOR EXPLANATION OF THESE LOADS.

UNLESS OTHERWISE NOTED, ALL CONNECTIONS SHALL BE SIMPLE CONNECTIONS. FOR BEAMS TO FACE OF HSS COLUMN CONNECTIONS PROVIDE DOUBLE ANGLE OR TEE-TYPE CONNECTIONS PER CISC HANDBOOK.

FOR CONNECTIONS NOT DESCRIBED ABOVE NOR DETAILED ON THE STRUCTURAL DRAWINGS (I.E. SMALL FRAMING MEMBERS) USE ANY TYPE OF SIMPLE CONNECTION AND DESIGN FOR THE SPECIFIED LOAD SHOWN.

SIMPLE BEAM TO COLUMN CONNECTIONS SHALL BE DESIGNED TO DELIVER SHEAR ONLY TO THE FACE OF THE COLUMN. SEISMIC AND DRAG STRUT CONNECTIONS SHALL BE DESIGNED TO DELIVER SHEAR ONLY TO THE CENTER LINE OF THE COLUMN.

UNLESS OTHERWISE NOTED, CONNECTIONS ARE TO BE WELDED OR BOLTED WITH HIGH STRENGTH BOLTS IN BEARING TYPE CONNECTIONS (MIN. 2 - 20 DIA. BOLTS).

BOLTED CONNECTIONS FOR DRAG STRUT LINES ARE TO BE PRE-TENSIONED. THE PRIME STRUCTURAL CONSULTANT SHALL HAVE FINAL APPROVAL ON ALL CONNECTIONS.

8. TEMPORARY BRACING DURING CONSTRUCTION TO BE DESIGNED BY CONTRACTOR (WHOEVER IS RESPONSIBLE FOR ERECTION). CONTRACTOR IS RESPONSIBLE FOR SAFETY ON SITE.

9. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS.

10. NO BURNING OF HOLES SHALL BE ALLOWED IN STRUCTURAL STEEL ANYWHERE.

11. FOR MISC. STEEL SUCH AS RAILINGS, AWNINGS AND NON-STRUCTURAL ARCH. STEEL NOT DETAILED ON STRUCTURAL DRAWINGS, STRUCTURAL ENGINEER SHALL CHECK SHOP DRAWINGS AND COMMENT ON THE ABILITY OF THE SHOWN MEMBERS AND CONNECTIONS TO RESIST LOADS AND OTHER EFFECTS REQUIRED BY ONTARIO BUILDING CODE 2012. OVERALL DETAILING TO COMPLY WITH ARCHITECTURAL DRAWINGS AND ARE THE SUB-CONTRACTOR'S RESPONSIBILITY. ALL RAILINGS AND STAIR SHOP DRAWINGS TO BE STAMPED BY P.ENG. OF ONTARIO.

12. ALL INTERIOR STEEL (NOT REQUIRING FIREPROOFING) SHALL BE PAINTED WITH ONE COAT OF PRIMER TO CISC/CPMA 1-73A (REFER TO ARCHITECTURAL DRAWINGS). ALL SITE WELD AND WELDING CONNECTIONS TO BE TOUCHED-UP WITH ANTI-RUST PAINT.

13. STEEL EXPOSED TO EXTERIOR CLIMATE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH CAN/CSA-G164-M29 (2003). MIN. ZINC COATING OF 600g/m². TOUCH UP IN FIELD WITH COLD GALVANIZING PAINT AS REQUIRED.

14. PROVIDE NAIL HOLES (2 MIN.) IN MISC. STEEL CAST INTO CONC. TO FACILITATE NAILING TO FORM WORK.

15. SEE NOTE "8" IN STEEL DECKING NOTES FOR FRAMING AT OPENINGS.

16. CHECK MECHANICAL AND ARCHITECTURAL DRAWINGS FOR OPENINGS, MECHANICAL UNITS, HOLES, ETC. TO BE MADE. OPENINGS SHOWN ON STRUCTURAL DRAWINGS FOR MECHANICAL UNITS, DUCTS AND PIPES ARE APPROXIMATE ONLY IN SIZE AND LOCATION. THE MECHANICAL CONTRACTOR MUST PROVIDE CONFIRMATION OF THE LATEST INFORMATION TO THE GENERAL CONTRACTOR AT THE STRUCTURAL STEEL AND METAL DECK SHOP DRAWING APPROVAL STAGE OF THE PROJECT.

17. THE STEEL STRUCTURE IS A NON-SELF-SUPPORTING STEEL FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION THE DECK FLOORS AND ATTACHMENT TO THE WALL SYSTEM FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETE AND ARE CAPABLE OF PROVIDING THIS SUPPORT.

18. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS. CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN. SEE SPECIFICATIONS. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER WITH THE ENGINEER'S SEAL FOR THE PROVINCE WHERE THE STRUCTURE IS LOCATED. ENGINEER'S SEAL MAY BE QUALIFIED "FOR DESIGN OF CONNECTIONS ONLY".

19. REFER TO SCHEDULE ON DWG FOR NON-BEARING WALL LINTELS NOT SHOWN ON STRUCTURAL DWG. REFER TO ARCH. & MECH. DWG. FOR OPENING SIZES AND LOCATIONS.

20. PROVIDE HOLES IN STEEL MEMBER FOR ATTACHMENT OF OTHER MATERIALS EXCEPT AT CRITICAL TENSILE SECTIONS OF BEAMS.

21. PROVIDE MASONRY ANCHORS IN CONFORMANCE WITH THE O.B.C. AT ALL LOCATIONS WHERE COLUMNS, BEAMS OR JOISTS IN CONTACT WITH OR ADJACENT TO MASONRY.

22. STEEL BEAMS BEARING ON MASONRY SHALL HAVE 200mm MIN. BEARING UNLESS NOTED AND TO BE ANCHORED TO MASONRY WITH 38X6 STRAP ANCHOR X 300mm LONG WELDED TO BEAM WEB AT TOP OF BEAM.

METAL DECK:

1. DESIGN, FABRICATE, AND INSTALL STEEL DECK TO CSA S136-16 AND THE CSSBI 101M84 GRADE A UNLESS OTHERWISE NOTED.
FOR ROOFS UNLESS OTHERWISE NOTED ON PLAN. MINIMUM COATING. DESIGNATION ZF275 (G30) HOT DIPPED GALVANIZED FINISH. PROVIDE METAL GAUGE AND FASTENERS TO CARRY THE VERTICAL LOADS SPECIFIED ON THE DRAWINGS. TOUCH UP WITH COLD GALVANIZING PAINT.

2. DECKING PROFILE: AS NOTED ON DRAWING.

3. INSTALL DECKING CONTINUOUS OVER 3 SPANS EXCEPT WHERE OTHERWISE APPROVED.

4. WELD DECK TO STEEL WITH 20 mm FUSION WELDS IN PATTERN 36/7 & @ 150 mm c/c ALONG ALL PERIMETER BEAMS AND JOISTS. LONGITUDINAL WELDS TO BE 200 mm MAX. AND CLINCH SIDE LAPS TO BE 150 mm MAX.

5. WELDERS SHALL BE CERTIFIED BY THE CANADIAN WELDERS BUREAU TO THE REQUIREMENTS OF CSA W47.1-09, DIV. 1 OR 2.1. THE INSTALLATION WELDING PROCEDURES SHALL BE APPROVED BY THE CANADIAN WELDING BUREAU. THE WELDERS SHALL HAVE CURRENT QUALIFICATIONS FOR ACT SPOT WELDING BY THE C.W.B.

6. SUBMIT TWO SETS OF PRINTS OF SHOP DRAWINGS SHOWING DETAILS, MATERIAL SPECIFICATIONS, FASTENING SCHEDULE AND DESIGN LOADS.

7. WATER ON THE STEEL DECK OR BETWEEN THE DECK AND THE SUPPORTING STEEL SHALL BE REMOVED PRIOR TO PUDDLE WELDING OR STUD WELDING.

8. CHECK MECHANICAL AND ARCHITECTURAL DRAWINGS FOR OPENINGS, MECH. UNITS, HOLES, ETC. TO BE MADE IN METAL DECKING. OPENINGS SHOWN ON STRUCTURAL DRAWINGS FOR MECHANICAL UNITS, DUCTS AND PIPES ARE APPROXIMATE ONLY IN SIZE, LOCATION AND QUANTITY. THE MECHANICAL CONTRACTOR MUST PROVIDE CONFIRMATION OF THE LATEST INFORMATION TO THE GENERAL CONTRACTOR AT THE STRUCTURAL STEEL AND METAL DECK SHOP DRAWING APPROVAL STAGE OF THE PROJECT. CUT OPENINGS IN DECKING WHERE INDICATED ON THE DRAWINGS AND IN COOPERATION WITH OTHER TRADES. REINFORCE OPENINGS BETWEEN 150 AND 450 WITH 75 X 75 X 6 ANGLE PERPENDICULAR TO FLUTES. OPENINGS LARGER THAN 450mm FRAMED BY STRUCTURAL ERECTOR.

9. PERIMETER DECK CLOSURES TO BE PROVIDED BY THE STEEL DECK CONTRACTOR UNLESS STRUCTURAL STEEL DECK CLOSURES ARE SHOWN ON THE DRAWINGS. CLOSURES SHALL PROVIDE STRAIGHT AND TRUE FINISHED EDGE (+/-0 6 mm).

10. PROVIDE SUPPORT FOR METAL DECK AT WALLS AND OPENINGS WHERE REQUIRED.

LOAD BEARING MASONRY WALL:

1. BUILDING STRUCTURES OF PLAIN OR REINFORCED MASONRY SHALL BE DESIGNED IN ACCORDANCE WITH CSA S304-14 (2019) " DESIGN OF MASONRY STRUCTURES"

2. ALL LOAD BEARING HOLLOW BLOCK UNITS TO HAVE AN ULTIMATE COMPRESSIVE STRENGTH 20 MPa MIN. UNLESS NOTED.

3. MORTAR FOR LOAD BEARING MASONRY TO BE TYPE "S" OR BETTER WITH A MIN. AVERAGE COMPRESSIVE STRENGTH OF 13 Mpa @ 28 DAYS MIN.

4. ALL AVAILABLE BEARING AREAS OF MASONRY UNITS SHALL BE FULLY COVERED WITH MORTAR SPREAD IN AN EVEN LAYER AND ALL VERTICAL JOINTS INCLUDING JOINT BETWEEN BRICK AND BLOCK) SHALL BE FILLED SOLIDLY WITH MORTAR.

5. FOR BONDING OF BRICK AND BLOCK USE HEAVY DUTY TRUSS-TYPE 'BLOK-LOK' BL-30 TRUSS REINFORCEMENT @ 400mm c/c VERT. COMPLETELY EMBEDDED IN MORTAR. WHERE BRICK VENEER IS PROVIDED LADDER TRUSS REINFORCMENT SHALL BE BLOK-LOK BL-37.

6. ALL MORTAR JOINTS SHALL BE CONCAVE.

7. ALL INTERSECTION MASONRY WALL TO HAVE MASONRY BOND OR HEAVY-DUTY 'BLOK-LOK' OR EQUAL @ 400mm c/c VERTICALLY.

8. PROVIDE SOLID OR FULLY GROUTED MASONRY PAD UNDER ALL JOISTS AND BEAMS. SEE PLANS AND SCHEDULES FOR BEARING DETAILS.

9. REFER TO ARCH. DWGS. FOR LOCATIONS OF CONTROL JOINTS IN MASONRY WALLS.

10. ALL MASONRY PIERS TO BE SOLID OR FULLY GROUTED MASONRY.

11. ALL MASONRY WALLS TO HAVE A MINIMUM OF 15M @ 815 mm o.c. VERTICAL REINFORCING STEEL, AT WALL ENDS, CORE BESIDE WINDOW DOOR OR OTHER OPENINGS, AND AT ALL WALL INTERSECTIONS. FILL CORES WITH 20MPa CONCRETE.

12. PROVIDE BLOCK WALL CONTROL JOINT AT LOCATION SHOWN ON ARCHITECTS DRAWINGS. MAXIMUM SPACING TO BE AT 15.2 METERS. REINFORCE ON CELL ON EITHER SIDE OF JOINT WITH 2 - 15M VERTICAL GROUT SOLID.

13. USE RUNNING BOND BLOCK CONSTRUCTION. KEY ALL MASONRY JOINTS AT WALL CORNERS AND INTERSECTIONS.

14. REINFORCE TWO CORES UNDER STEEL BEAM BEARING WITH 2-15M VERTICAL EACH CORE FULL HEIGHT AND GROUT SOLID. PROVIDE 2 SOLID COURSES UNDER LINTEL BEARING. NO DUCT OR VOIDS ALLOWED AT BEARING.

15. LINTEL - INSTALL STEEL LINTEL. PROVIDE BLOCK LINTELS ONLY IN SPECIFIC AREAS SPECIFIED IN STRUCTURAL DRAWINGS. BLOCK LINTEL TO BE SINGLE COURSE (190mm) DEEP COMPLETE WITH 1-15M TOP AND BOTTOM FOR OPENINGS 1100mm OR LESS. EXTEND REINFORCING 610mm PAST OPENINGS BOTH SIDES.

16. VERTICAL CORE FILLS TO BE CAST IN LIFTS OF 1200mm MAXIMUM. VERTICAL REINFORCING TO HAVE A MAXIMUM LENGTH OF 2000mm WITHOUT SPLICING. ALL LAPS AND ANCHORAGES IN REINFORCING TO BE 40mm DIAMETER MINIMUM UNLESS NOTED OTHERWISE.

17. TEMPORARY BRACING AND SHORING TO BE PROVIDED DURING CONSTRUCTION. BRACING AND SHORING DESIGN IS THE CONTRACTORS RESPONSIBILITY.

No.	By	Date	Revisions
1	BD	2022 04 18	FOR TENDER
0	B.D	2022 04 18	FOR REVIEW

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The contractor must check and verify all dimensions on the job prior to start of construction.

DRAWINGS ARE NOT TO BE SCALED

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Project Title:
JOINT ADMIN. BUILDING RENOVATIONS AND ADDITIONS
2069 BATTERSEA ROAD, GLENBURNIE Ontario

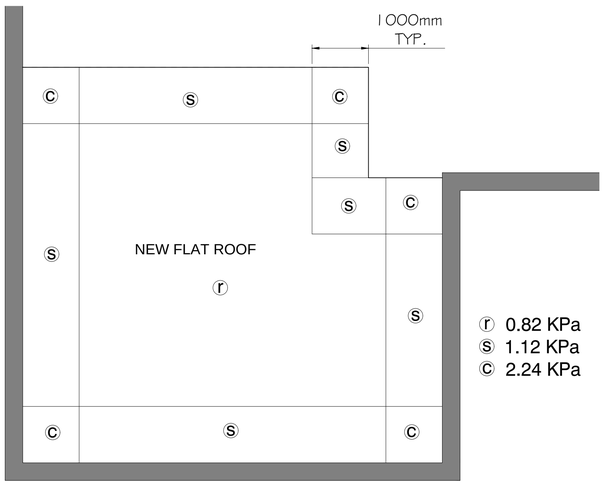
Drawing Title:
STRUCTURAL NOTES

Design:	Checked:	Approved:	Project No.: 9402
Drawn: B.D.	Checked: B.C	Date: 2022 04 18	Contract No.:

Scale: Horizontal: AS SHOWN; Vertical: AS SHOWN

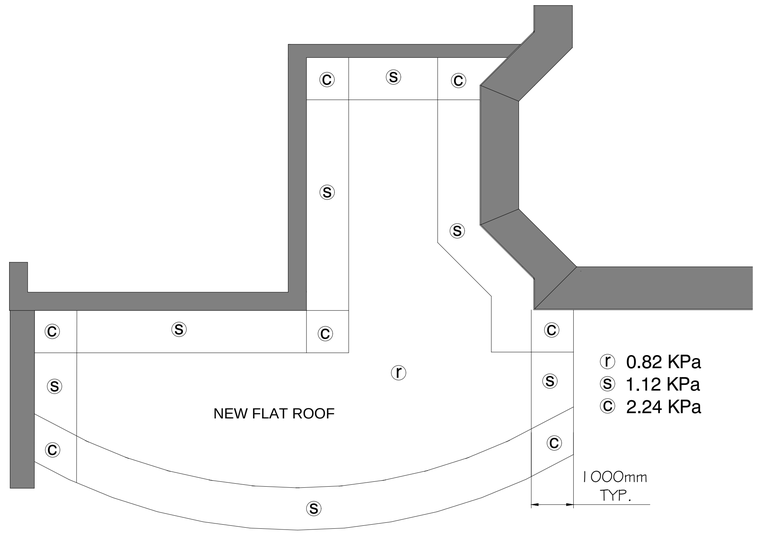
Drawing No.: S0

REV DATE: 4/18/2022



NORTH WING - WIND UPLIFT PLAN

SCALE: N.TS



SOUTH WING - WIND UPLIFT PLAN

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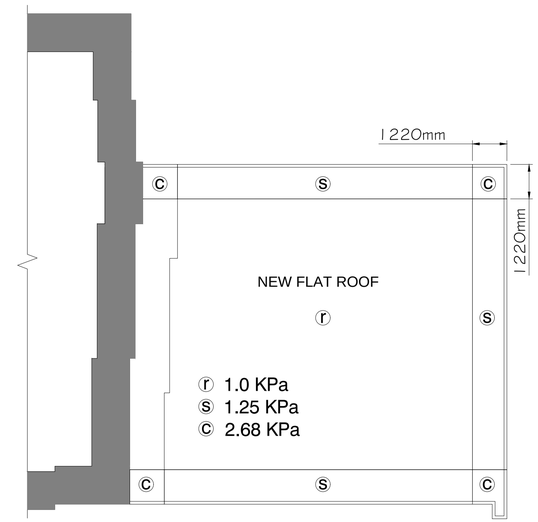

EAST WING - WIND UPLIFT PLAN

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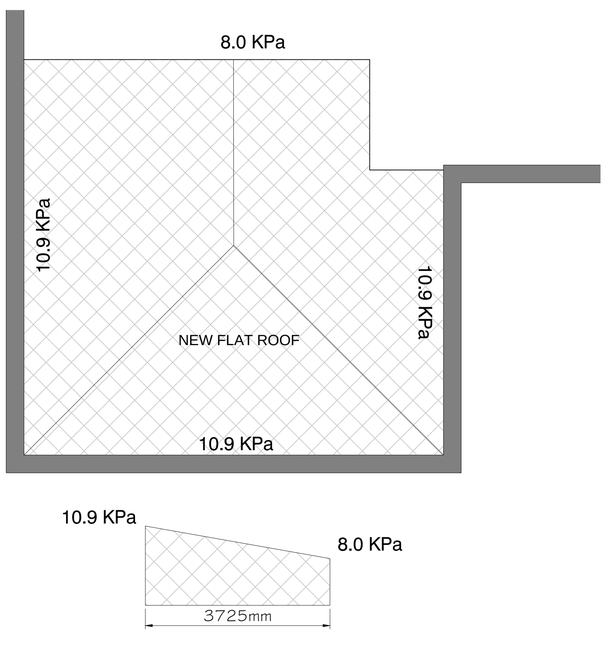
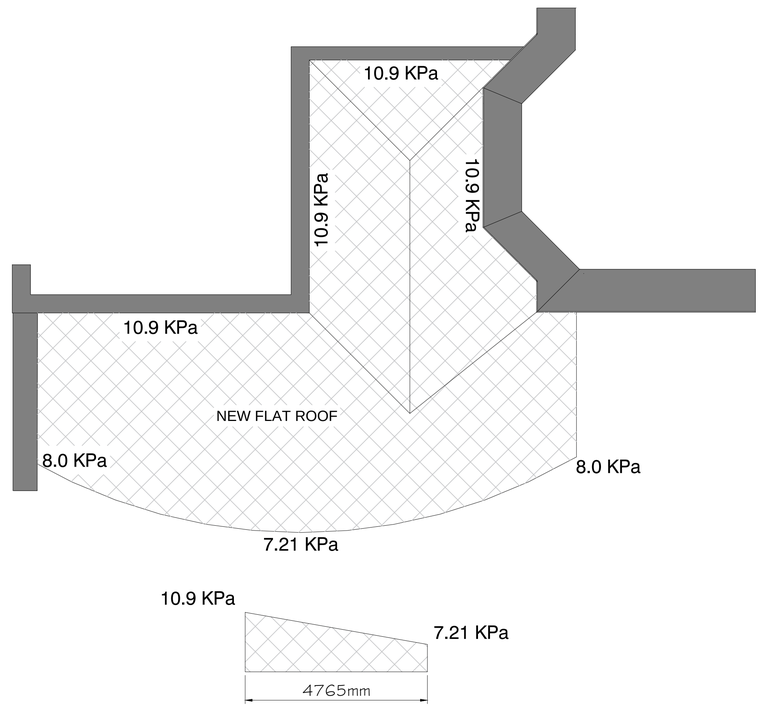


NORTH WING - SNOW LOAD DIAGRAM

SCALE: N.T.S



SOUTH WING - SNOW LOAD DIAGRAM

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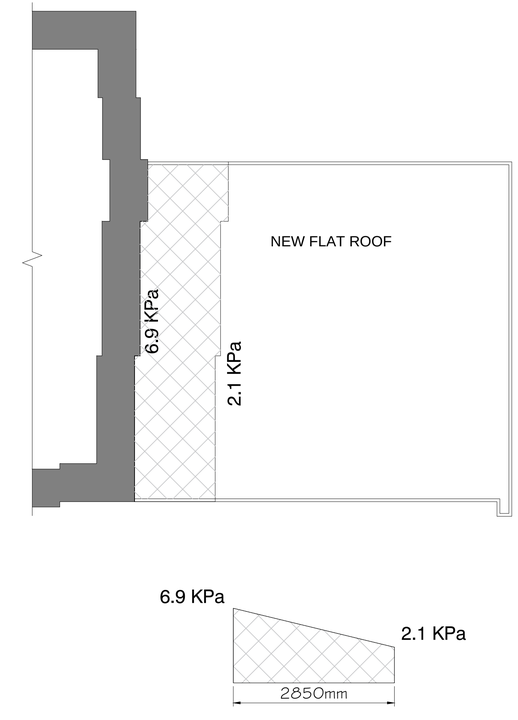

EAST WING - SNOW LOAD DIAGRAM

SCALE: N.T.S

No.	By	Date	Revisions
0	B.D	2022 04 18	FOR TENDER

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LICENSED PROFESSIONAL ENGINEER
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2022 04 18
PROVINCE OF ONTARIO

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125 Stewart Blvd. Suite 212
Brockville, Ont. K6V 4W4
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Project Title:
JOINT ADMIN. BUILDING RENOVATIONS AND ADDITIONS
2069 BATTERSEA ROAD, GLENBURNIE Ontario

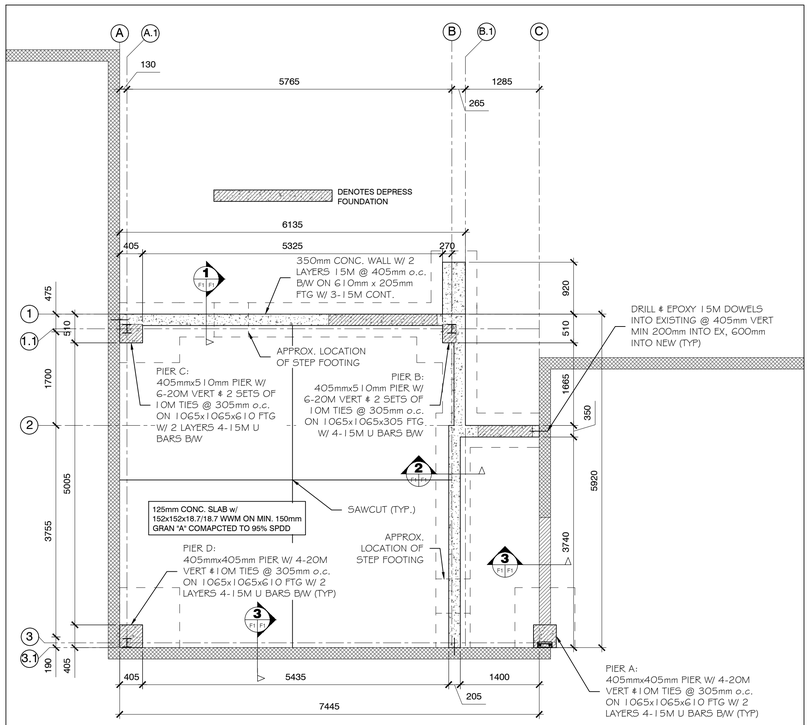
Drawing Title:
STRUCTURAL LOAD DIAGRAMS

Design:	Checked:	Approved:	Project No.: 9402
Drawn: B.D.	Checked: B.C	Date: 2022 04 18	Contract No.:

Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

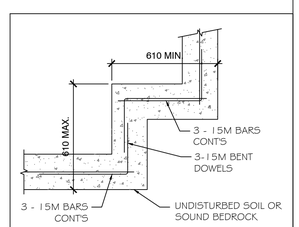
Drawing No.: S0.1

REV DATE: 4/18/2022



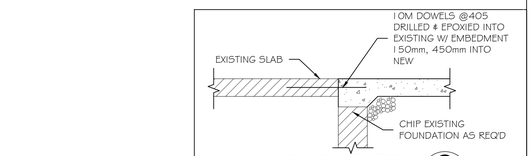
FOUNDATION PLAN

SCALE: 1:50



STEP FOOTING DETAIL

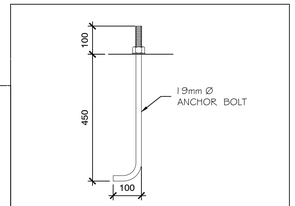
N.T.S.



SLAB SECTION 3

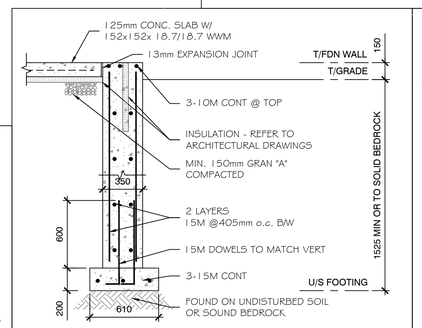
F1 F1

SCALE: 1:20



ANCHOR BOLT DETAIL

SCALE: 1:10



FOUNDATION SECTION 1

F1 F1

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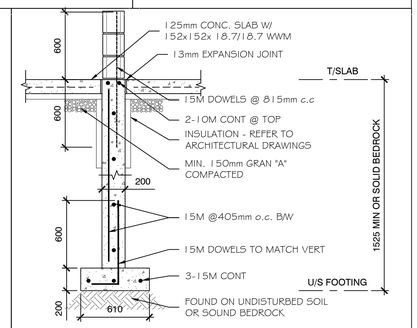

FOUNDATION SECTION 2

F1 F1

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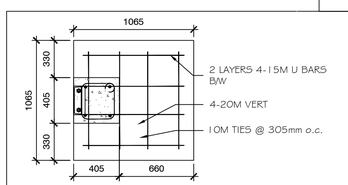
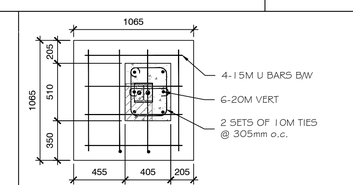


PIER "A" PLAN



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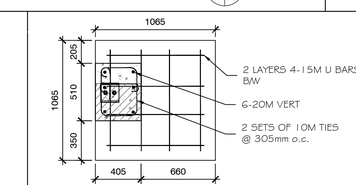

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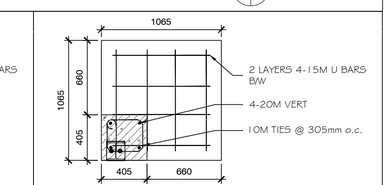

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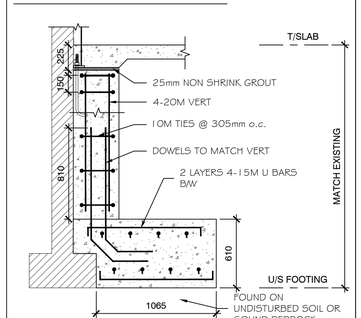

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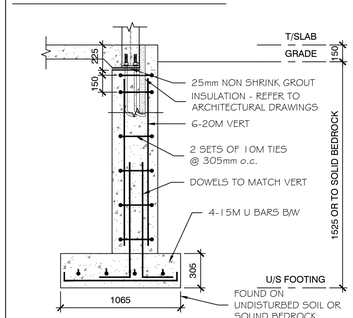

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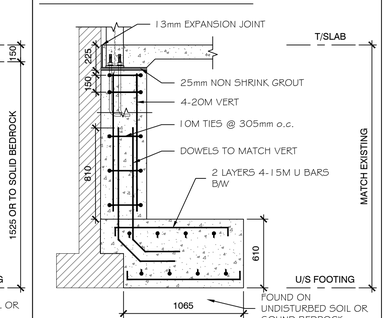

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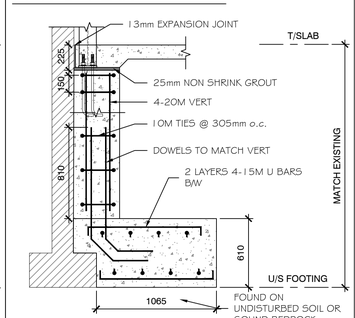

PIER "D" SECTION

SCALE: 1:25

No.	By	Date	Revisions
4	BDC	2022 04 18	FOR TENDER
3	AGP	2021-10-05	ISSUED FOR TENDER, PERMIT & CONST.
2	AGP	2021-09-23	FOR REVIEW
1	AGP	2021-09-22	FOR REVIEW

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DRAWINGS ARE NOT TO BE SCALED

PROJECT NORTH

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www.EastEng.com

Project Title:

JOINT ADMIN FACILITY RENOVATIONS AND ADDITIONS

2069 Battersea Rd,
Glenburnie, Ontario

Drawing Title:

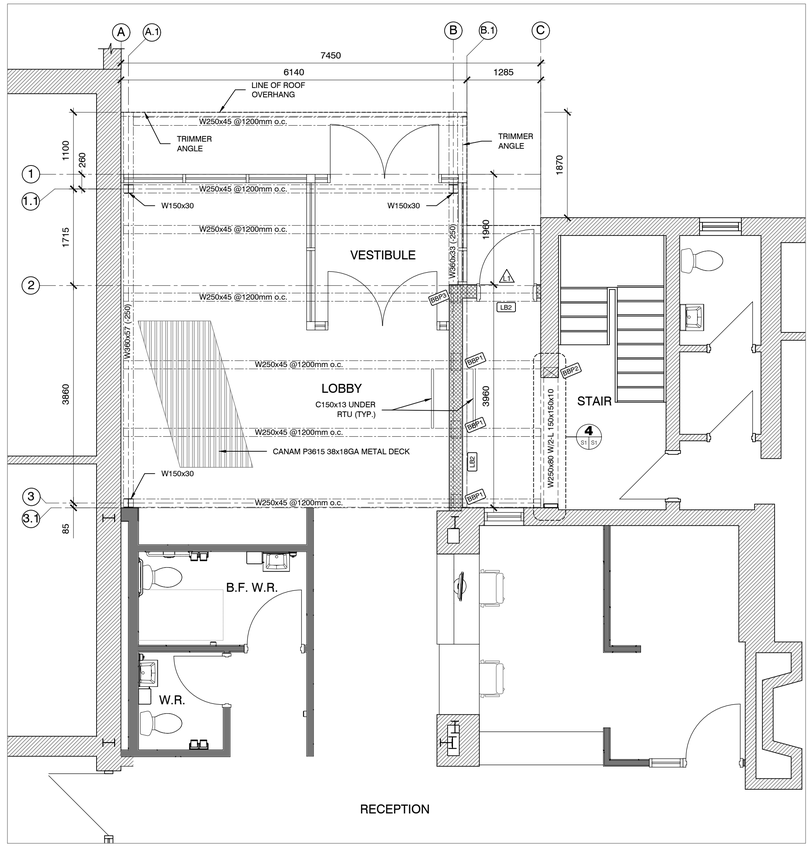
FOUNDATION PLANS, SECTIONS AND DETAILS

Design:	Checked:	Approved:	Project No.:
	BDC		9402
Drawn: AGP	Checked: BDC	Date: 2021-09-22	Contract No.:

Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

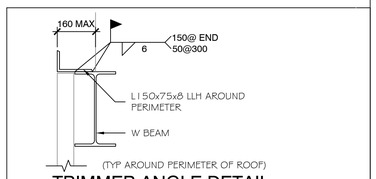
Drawing No.: F100

REV. DATE4/18/2022



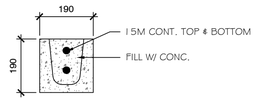
PARTIAL FLOOR PLAN

SCALE: 1:50



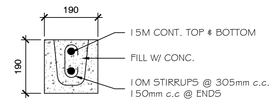
TRIMMER ANGLE DETAIL

SCALE: 1:10



190mm CMU BOND BEAM

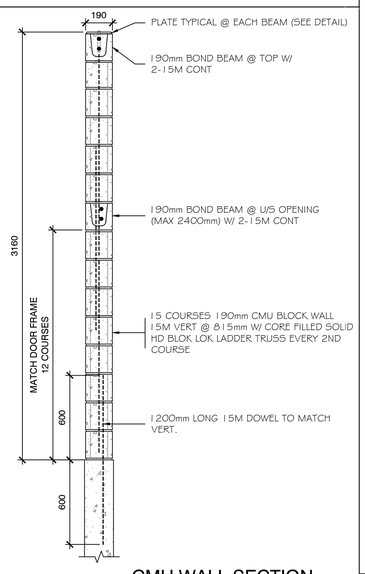
SCALE: 1:10



(TYPICAL OPENINGS UP TO 1100mm)

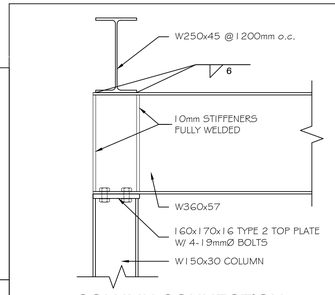
L1 **190mm CMU LINTEL**

SCALE: 1:10



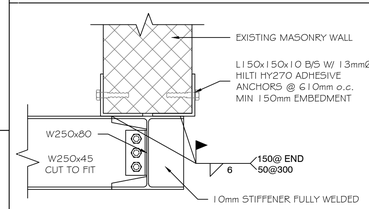
LB2 **CMU WALL SECTION**

SCALE: 1:20



COLUMN CONNECTION

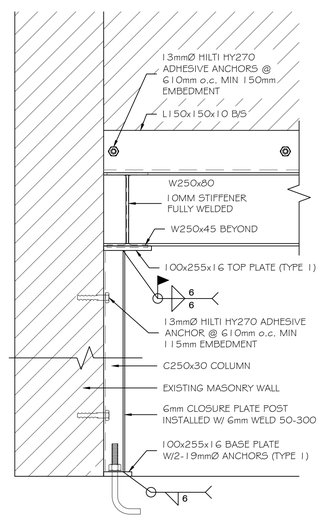
SCALE: 1:10



TYP. CONNECTION DETAIL 6

S1 S1

SCALE: 1:10



TYP. COLUMN DETAIL 5

S1 S1

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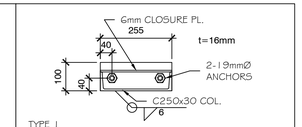
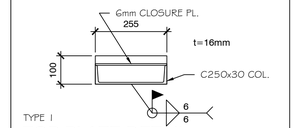


TYPE 1

BASE PLATE DETAIL

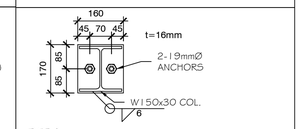
SCALE: 1:10



TYPE 1

TOP PLATE DETAIL

SCALE: 1:10



TYPE 2

BASE PLATE DETAIL

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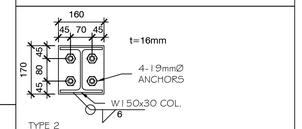

TYPE 2

TOP PLATE DETAIL

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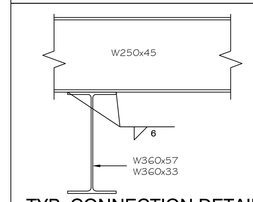
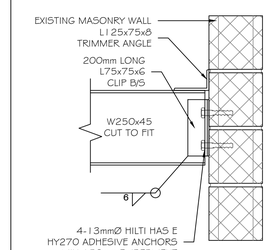


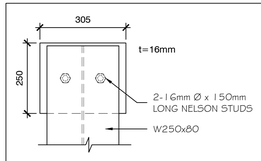
TYP. CONNECTION DETAIL

SCALE: 1:10



BEAM TO EX. MASONRY

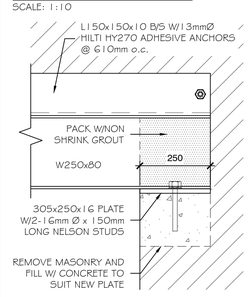
SCALE: 1:10



BBP2

PLATE DETAIL PLAN

SCALE: 1:10



BBP2

PLATE DETAIL ELEVATION

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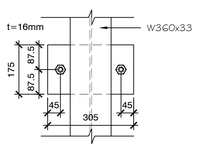

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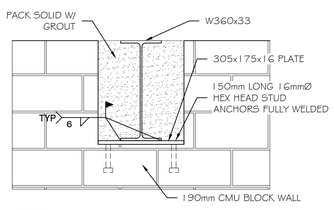
PLATE DETAIL PLAN

SCALE: 1:10



BBP3

PLATE DETAIL ELEVATION

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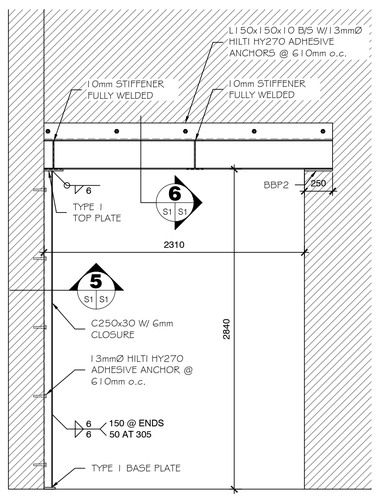
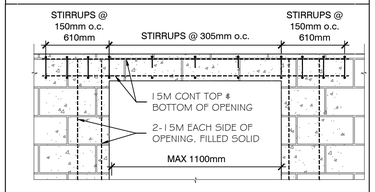


WALL OPENING DETAIL AT STAIRWELL 4

S1 S1

SCALE: 1:25



WALL OPENING DETAIL

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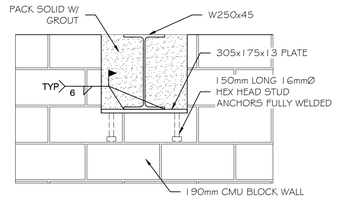

BBP1

PLATE DETAIL ELEVATION

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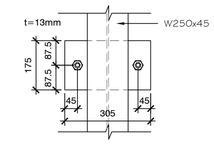

BBP1

PLATE DETAIL PLAN

SCALE: 1:10

No.	By	Date	Revisions
4	BDC	2022 04 18	FOR TENDER
3	AGP	2021-10-05	ISSUED FOR TENDER, PERMIT & CONST.
2	AGP	2021-09-23	FOR REVIEW
1	AGP	2021-09-22	FOR REVIEW

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NORTH

PROJECT

LICENSED PROFESSIONAL ENGINEER
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100172021
2022 04 18
PROVINCE OF ONTARIO

EASTERN ENGINEERING GROUP INC.
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Project Title:

JOINT ADMIN FACILITY RENOVATIONS AND ADDITIONS

2069 Battersea Rd, Glenburnie, Ontario

Drawing Title:

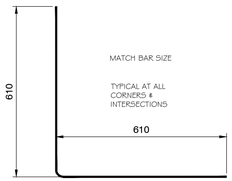
STRUCTURAL FRAMING PLAN, SECTIONS, DETAILS & SCHEDULES

Design:	Checked: BDC	Approved:	Project No.: 9402
Drawn: AGP	Checked: BDC	Date: 2021-09-21	Contract No.:

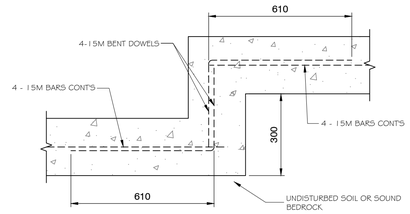
Scale: Horizontal: AS SHOWN; Vertical: AS SHOWN

Drawing No.: S100

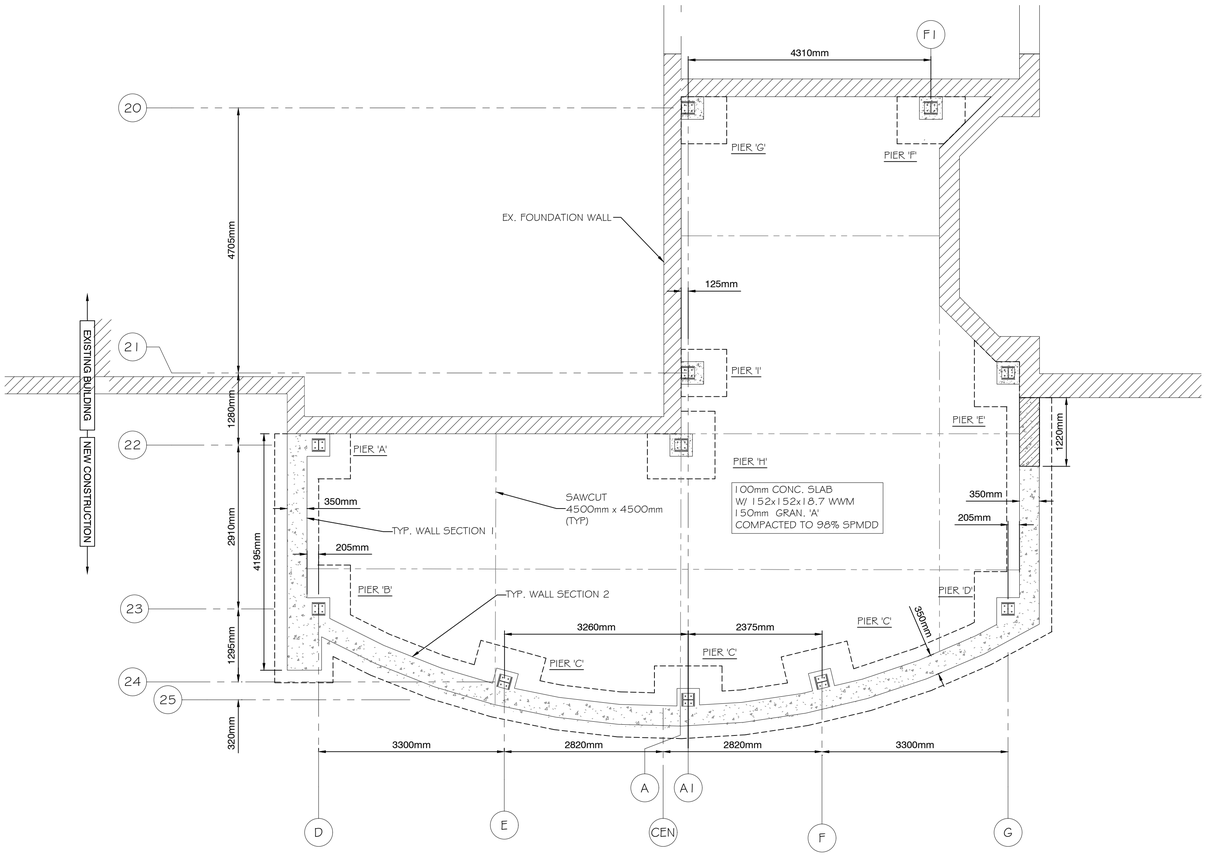
REV. DATE:4/18/2022



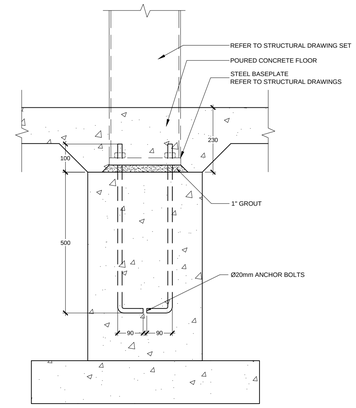
"L" BAR DETAILS
N.T.S.



STEP FOOTING DETAIL
N.T.S.



FOUNDATION PLAN
SOUTH ADDITION
SCALE:- 1:50



TYP. ANCHOR DETAIL
SCALE:- 1:10

No.	By	Date	Revisions
2	DM	2022 03 22	FOR TENDER
1	DM	2022 03 16	FOR REVIEW

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NORTH
PROJECT

LICENSED PROFESSIONAL ENGINEER
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100172021
2022 04 18
PROVINCE OF ONTARIO

EASTERN ENGINEERING GROUP INC.
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207 - 100 Strowger Blvd.
Brockville, Ont. K6V 5J9
Telephone: (613) 345-0400
Facsimile: (613) 345-0008
www.EastEng.com

Project Title:

JOINT ADMIN FACILITY
RENOVATIONS AND ADDITIONS

2069 BATTERSEA RD,
GLENBURNIE, ON.

Drawing Title:

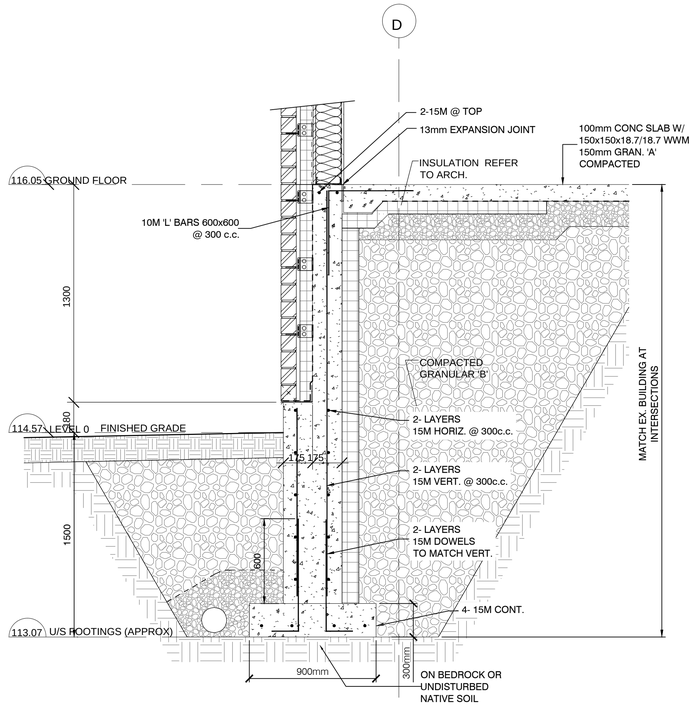
FOUNDATION PLAN

Design:	Checked:	Approved:	Project No.:
BC	BC	BC	9402
Drawn: DM	Checked: BC	Date: 11/10/2021	Contract No.:

Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

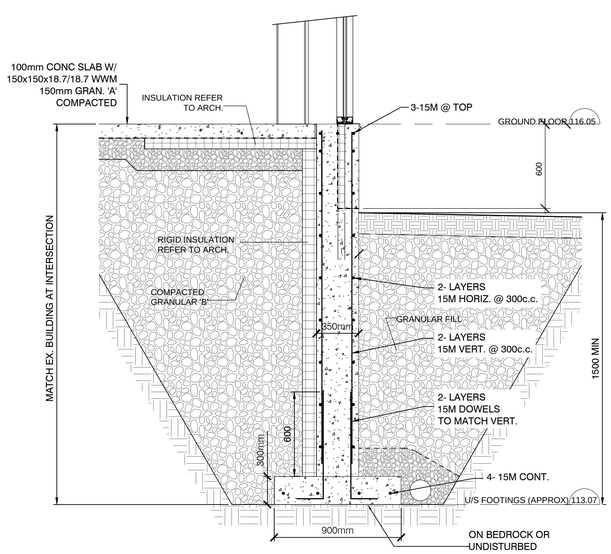
Drawing No.:
F200

REV DATE: 4/18/2022



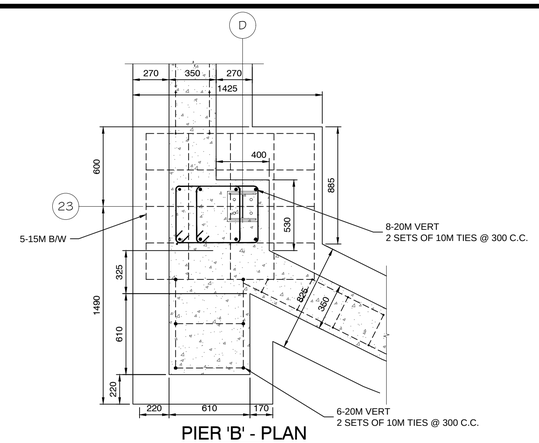
TYPICAL WALL SECTION 1

SCALE:- 1:20



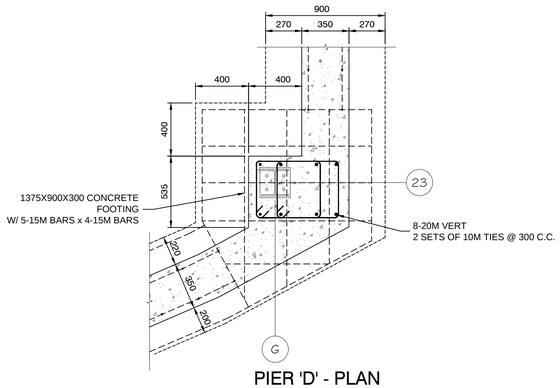
TYPICAL WALL SECTION 2

SCALE:- 1:20



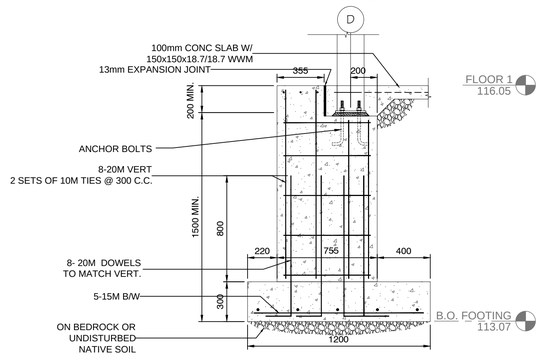
PIER 'B' - PLAN

SCALE:- 1:20



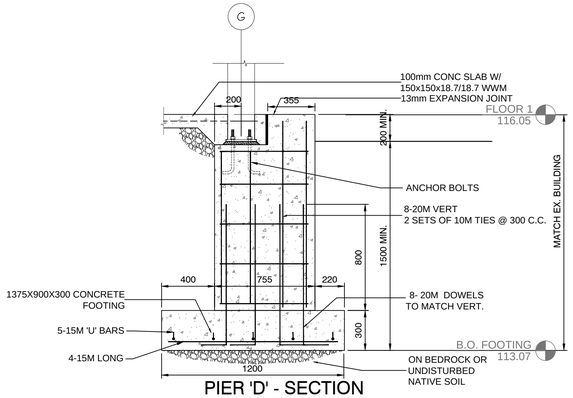
PIER 'D' - PLAN

SCALE:- 1:20



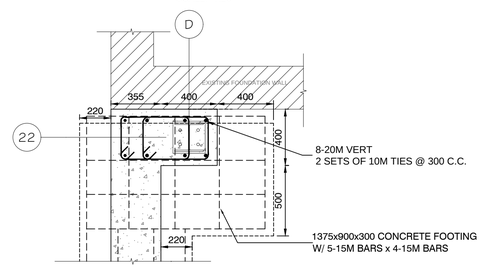
PIER 'B' - SECTION

SCALE:- 1:20



PIER 'D' - SECTION

SCALE:- 1:20



PIER 'A' - PLAN

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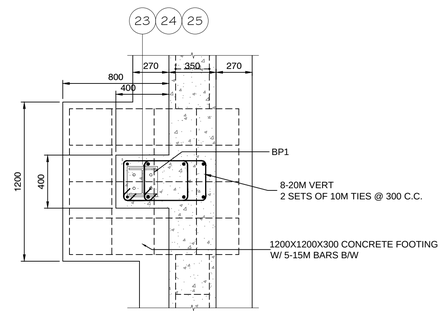

PIER 'C' - PLAN

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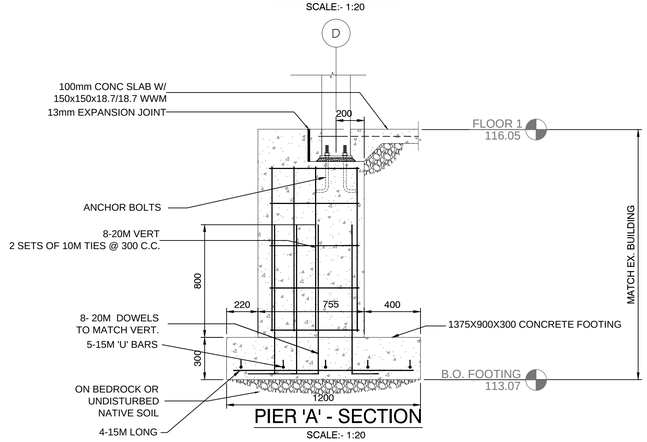

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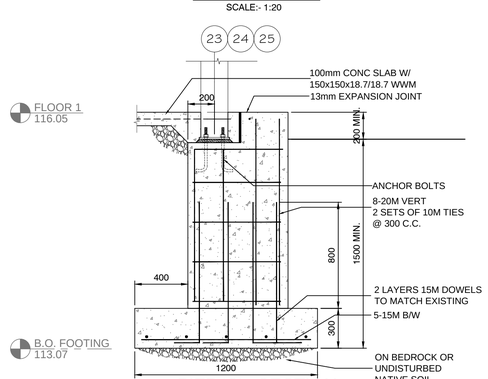

PIER 'C' - SECTION

SCALE:- 1:20

No.	By	Date	Revisions
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Project Title:

JOINT ADMIN FACILITY
RENOVATIONS AND ADDITIONS
2069 BATTERSEA RD,
GLENBURNIE, ON.

Drawing Title:

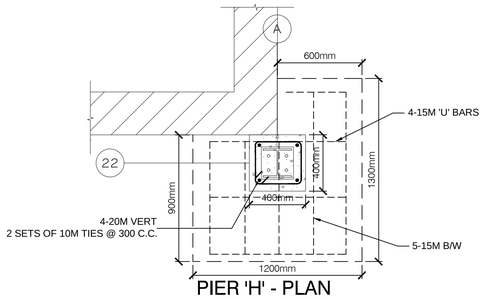
FOUNDATION DETAILS

Design:	Checked:	Approved:	Project No.:
BC	BC	BC	9402
Drawn:	Checked:	Date:	Contract No.:
DM	BC	11/10/2021	

Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.: F201

REV DATE: 4/18/2022



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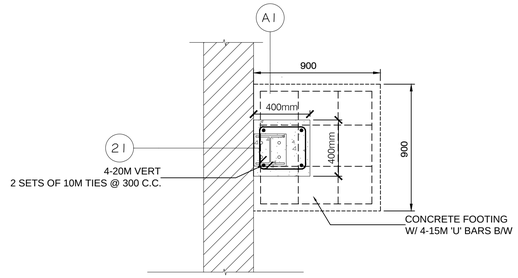

PIER 'I' - PLAN

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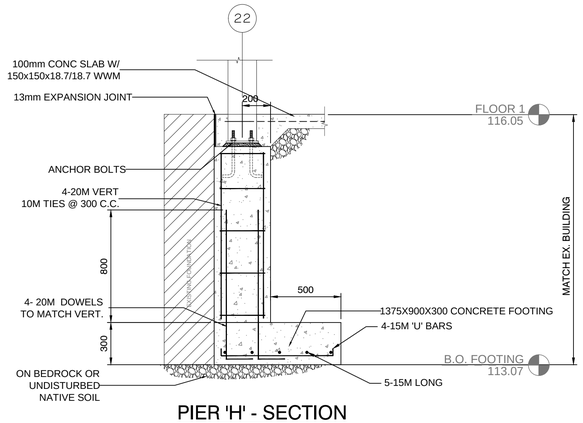

PIER 'H' - SECTION

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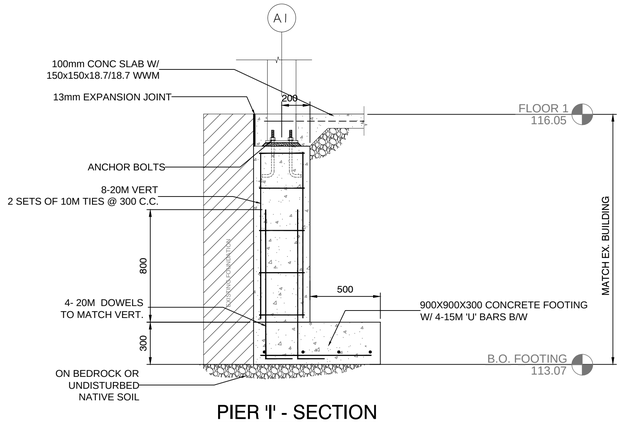

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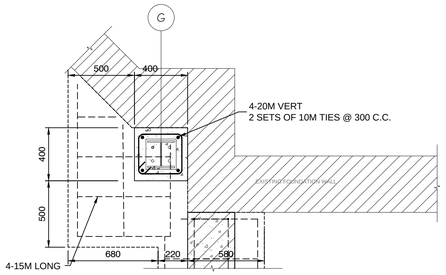

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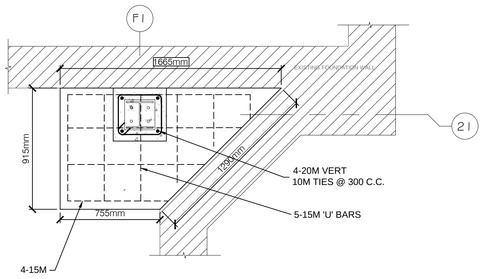

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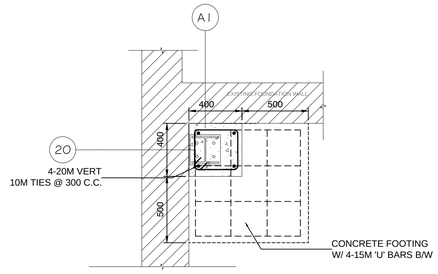
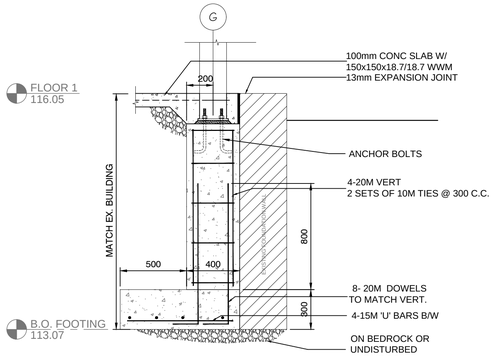


PIER 'G' - PLAN

SCALE:- 1:20



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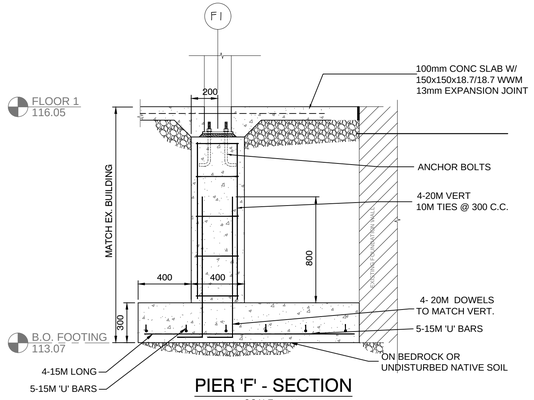

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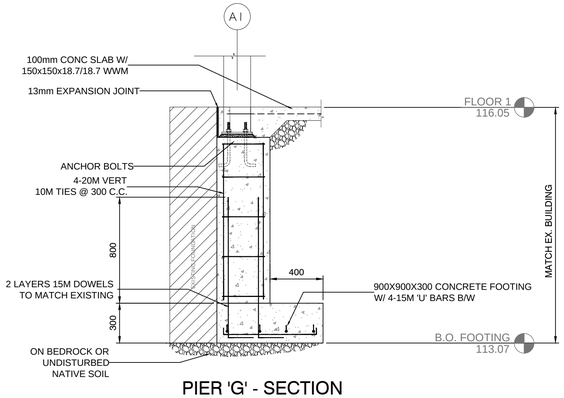

PIER 'G' - SECTION

SCALE:- 1:20

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JOINT ADMIN FACILITY RENOVATIONS AND ADDITIONS

2069 BATTERSEA RD,
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Drawing Title:

FOUNDATION DETAILS

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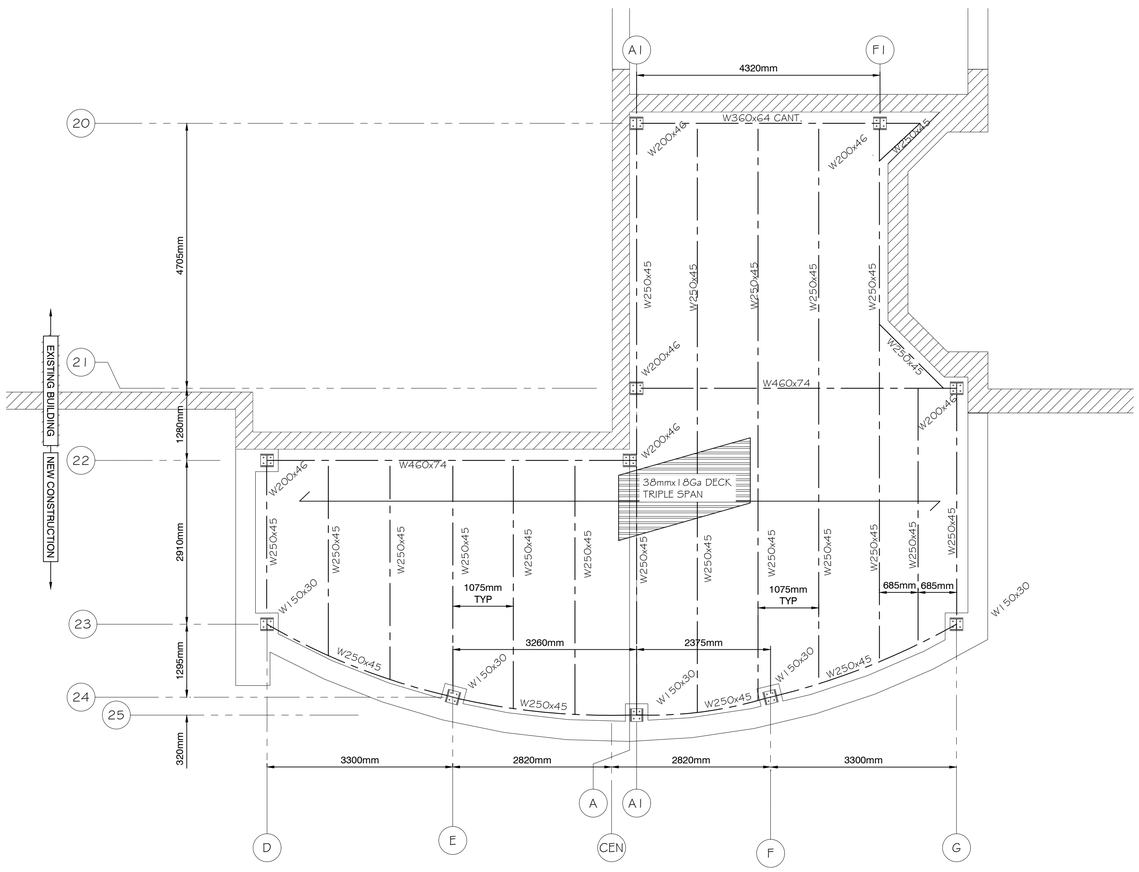
BC	BC	BC	9402
Drawn: DM	Checked: BC	Date: 11/10/2021	Contract No.:

Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.:
F202

REV DATE: 4/18/2022



STRUCTURAL - ROOF FRAMING PLAN

SCALE:- 1:50

No.	By	Date	Revisions
2	DM	2022 03 22	FOR TENDER
1	DM	2022 03 16	FOR REVIEW

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PROJECT NORTH

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RENOVATIONS AND ADDITIONS

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Drawing Title:

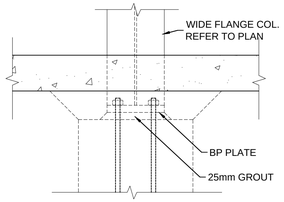
STRUCTURAL ROOF
FRAMING PLAN

Design:	Checked:	Approved:	Project No.:
BC	BC	BC	9402
Drawn: DM	Checked: BC	Date: 11/10/2021	Contract No.:

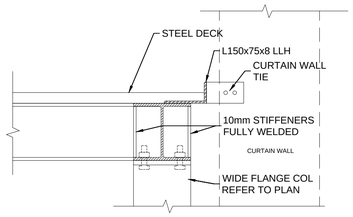
Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.: S200

REV DATE: 4/18/2022



DETAIL 2
SCALE:- 1:10



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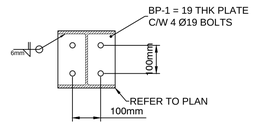
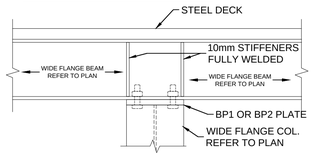
SCALE:- 1:10



(W200x46)

BASE 1 PLATE DETAIL
SCALE:- 1:10

ALL POST TO BEAM CONNECTIONS TO
BE DESIGNED FOR MINIMUM
Mr=8.5 kN-m IN EACH DIRECTION



DETAIL 1
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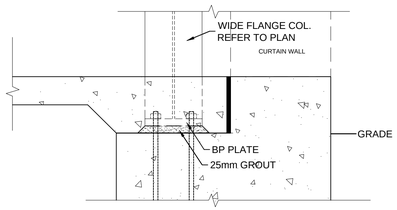

DETAIL 4
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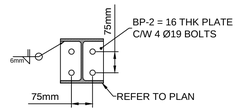

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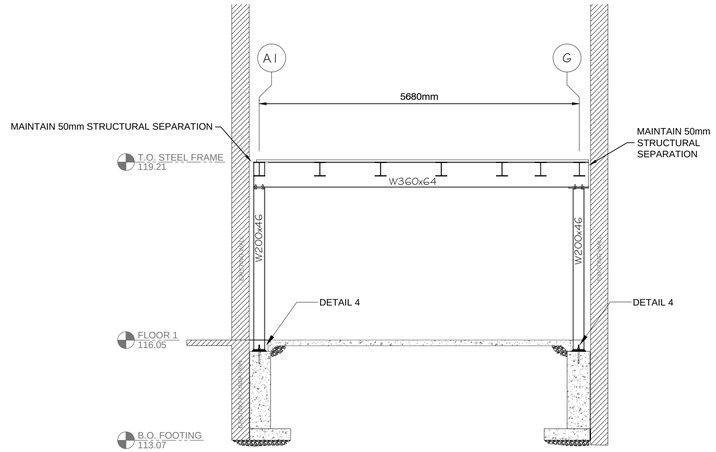
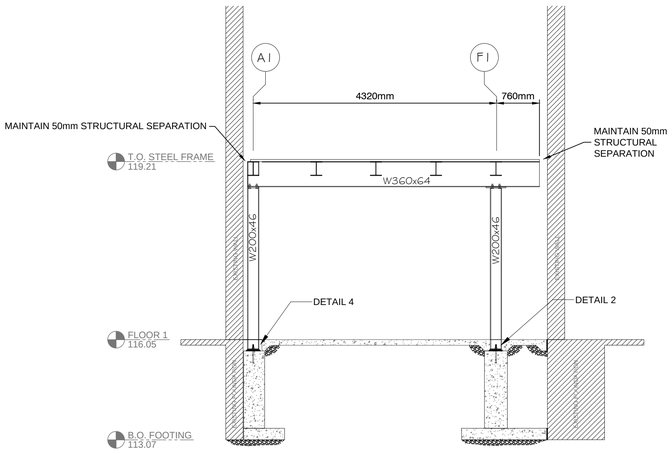
BASE 2 PLATE DETAIL
SCALE:- 1:10



ELEVATION @ GRID 21
SCALE:- 1:50



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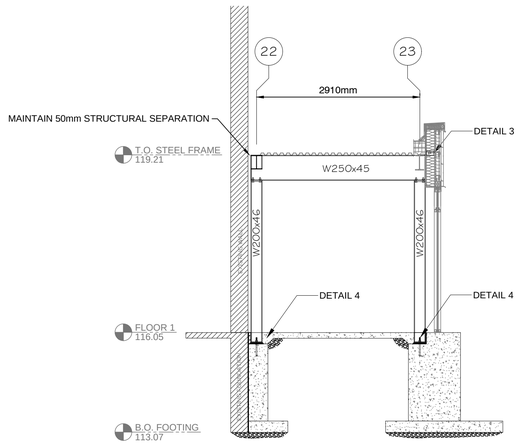
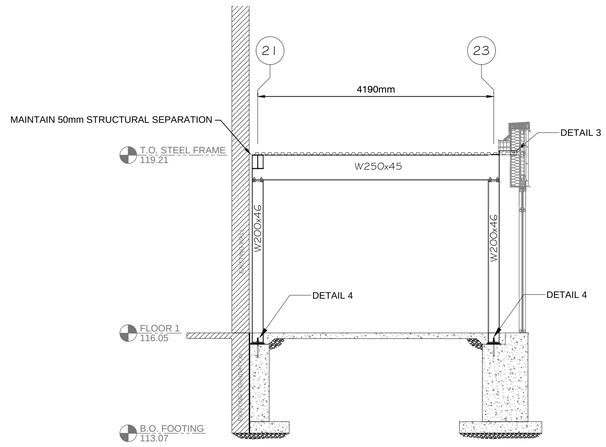
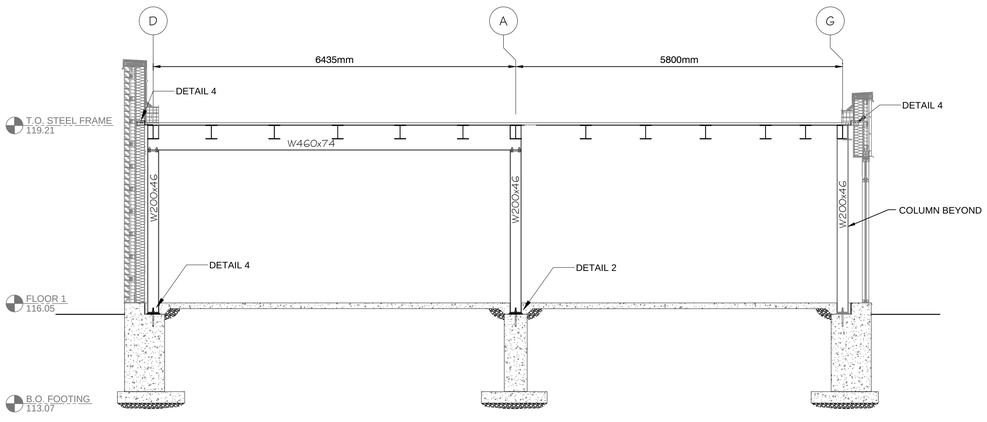


ELEVATION @ GRID 'D'
SCALE:- 1:50



ELEVATION @ GRID 'G'
SCALE:- 1:50



ELEVATION @ GRID 22
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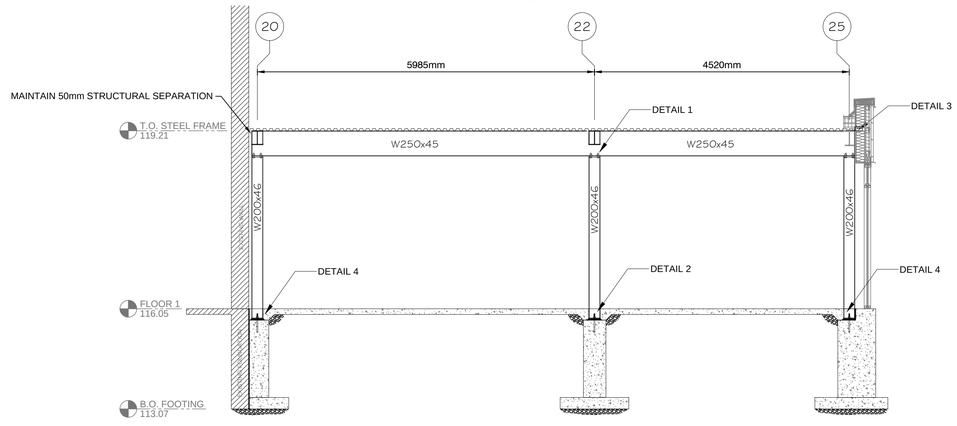

ELEVATION @ GRID 'A1'
SCALE:- 1:50

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Project Title:

JOINT ADMIN FACILITY
RENOVATIONS AND ADDITIONS

2069 BATTERSEA RD,
GLENBURNIE, ON.

Drawing Title:

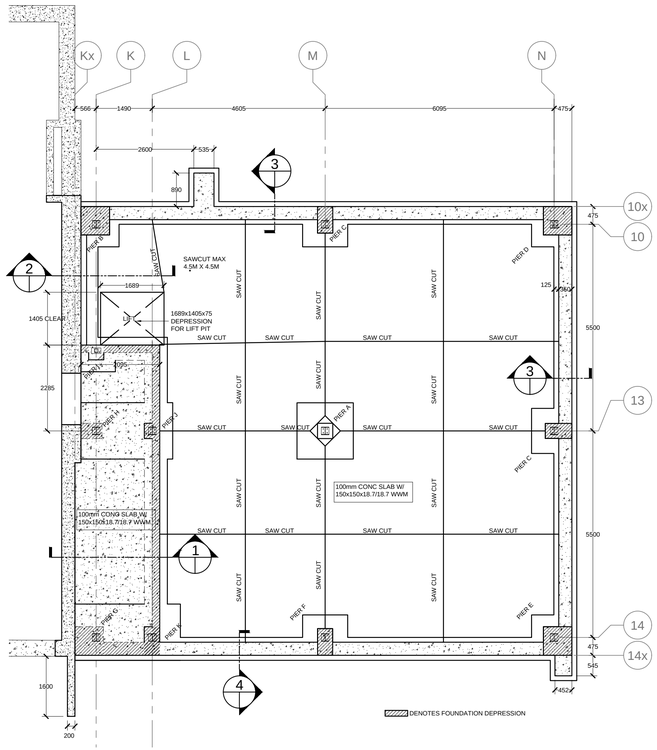
STRUCTURAL ELEVATIONS

Design: BC	Checked: BC	Approved: BC	Project No.: 9402
Drawn: DM	Checked: BC	Date: 11/10/2021	Contract No.:

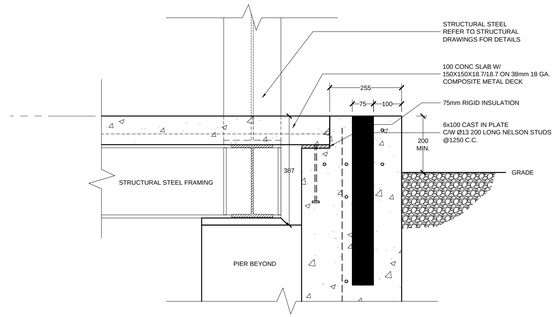
Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.: S201

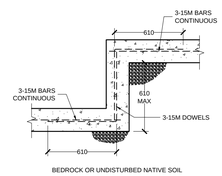
REV DATE: 4/18/2022



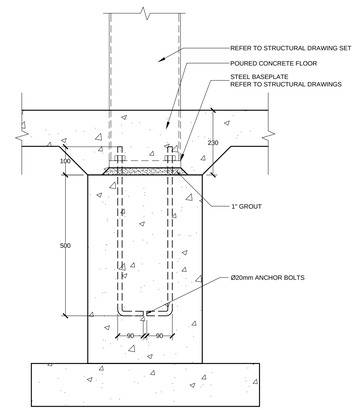
FOUNDATION PLAN - PHASE 3
SCALE: 1:75



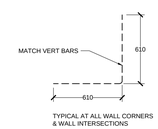
DETAIL 'A'
SCALE: 1:10



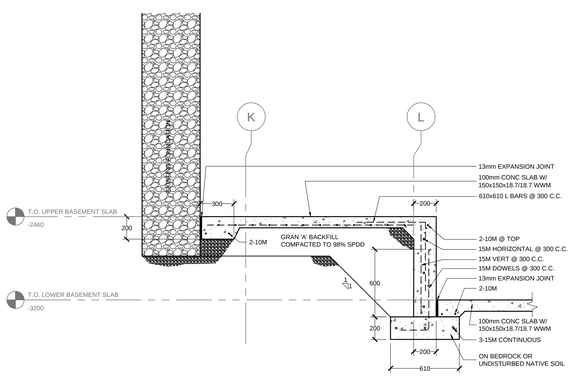
TYPICAL STEP FOUNDATION
SCALE: 1:25



TYPICAL ANCHOR DETAIL
SCALE: 1:10



TYPICAL BASE PLATE DETAIL
SCALE: 1:10



1 SECTION @ EXISTING WALL
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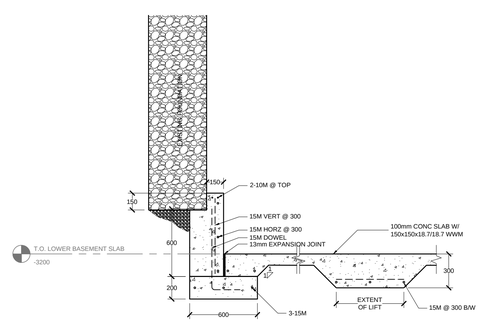
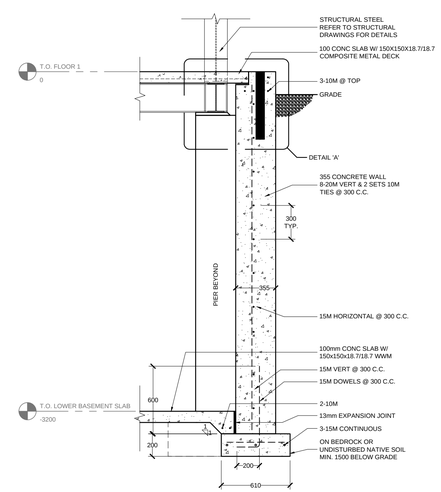


2 SECTION @ NORTH AND EAST WALLS
SCALE: 1:25



3 SECTION @ TYPICAL FOUNDATION WALL
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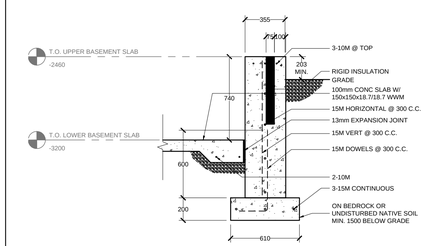

4 SECTION @ SOUTH FOUNDATION WALL
SCALE: 1:25

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PROJECT

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Drawing Title:

FOUNDATION PLAN AND DETAILS

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BC	BC	BC	9402
Drawn:	Checked:	Date:	Contract No.:
DM	BC	4/18/2022	

Scale:
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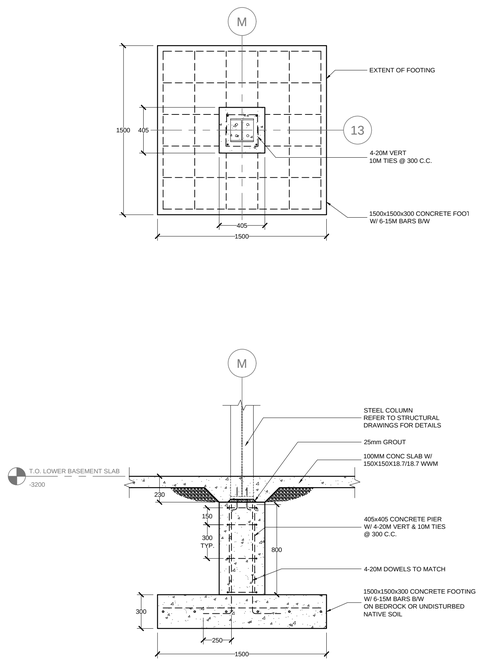
Vertical: AS SHOWN

Drawing No.:
F300
REV DATE: 4/18/2022



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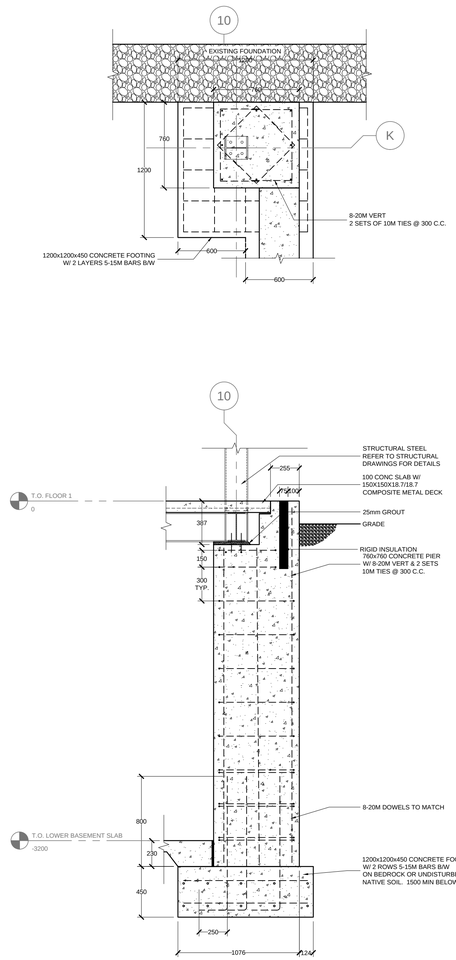

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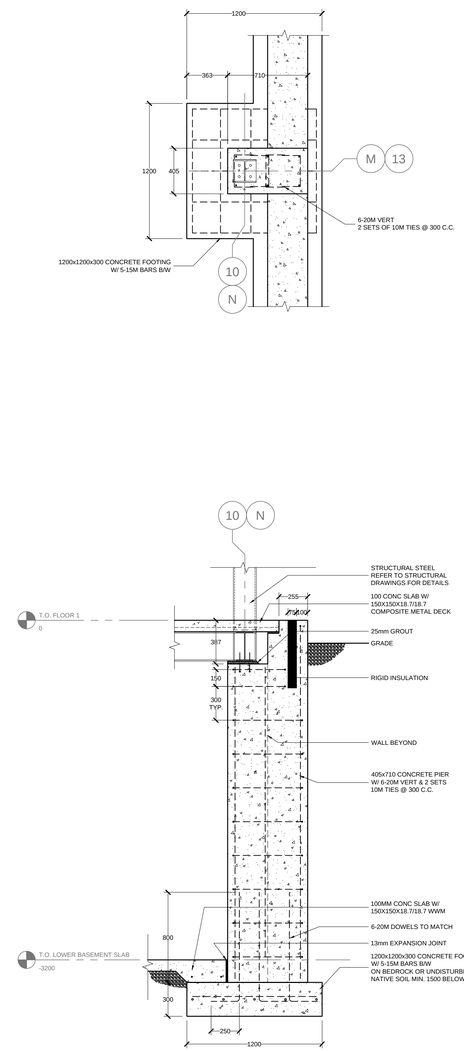

PIER 'C'
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www.EastEng.com

Project Title:

JOINT ADMIN FACILITY
RENOVATIONS AND ADDITIONS

2069 BATTERSEA RD, GLENBURNIE, ON.

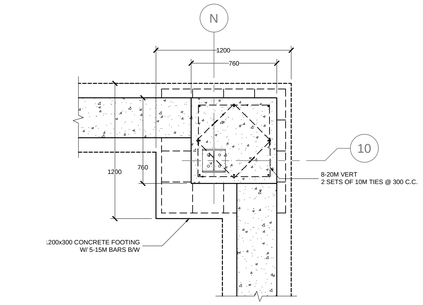
Drawing Title:

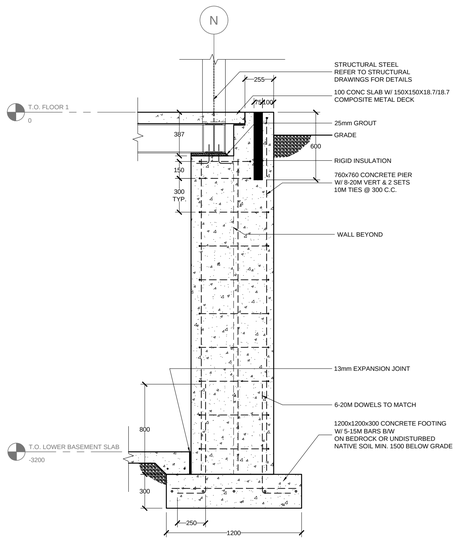
PIER DETAILS

Design:	Checked:	Approved:	Project No.:
BC	BC	BC	9402
Drawn: DM	Checked: BC	Date: 2/3/2022	Contract No.:

Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.:
F301
REV DATE: 4/18/2022





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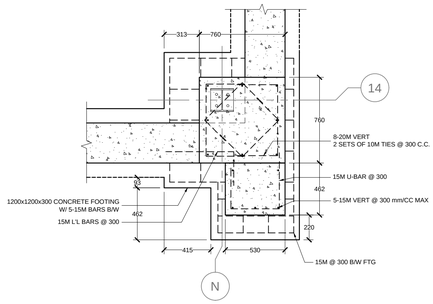

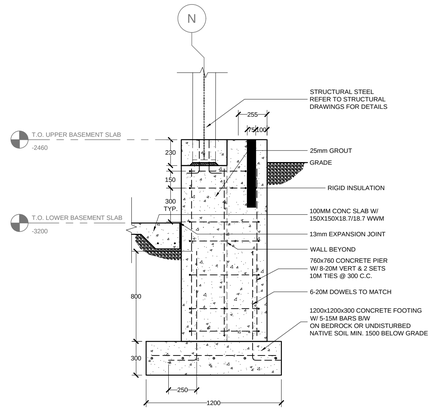

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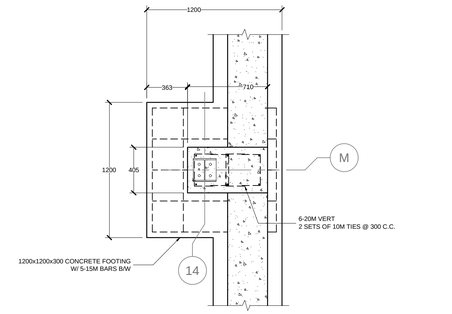

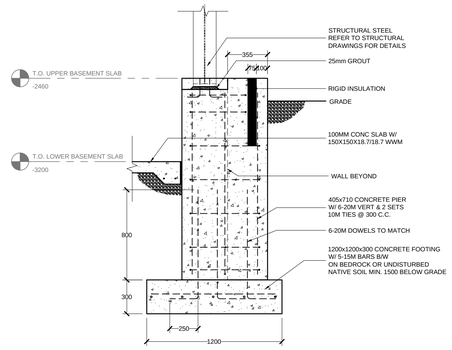

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No.	By	Date	Revisions
1	BDC	2022 04 18	FOR TENDER

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Project Title:

JOINT ADMIN FACILITY
RENOVATIONS AND ADDITIONS

2069 BATTERSEA RD, GLENBURNIE, ON.

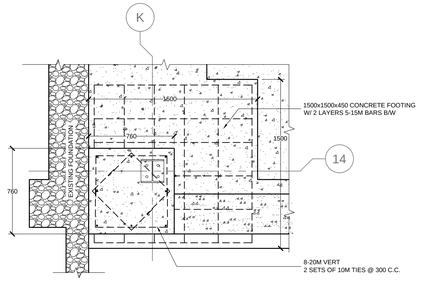
Drawing Title:

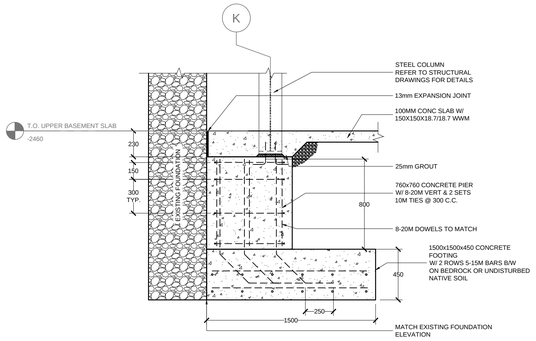
PIER DETAILS

Design:	Checked:	Approved:	Project No.:
BC	BC	BC	9402
Drawn:	Checked:	Date:	Contract No.:
DM	BC	2/3/2022	

Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.:
F302
REV DATE: 4/18/2022





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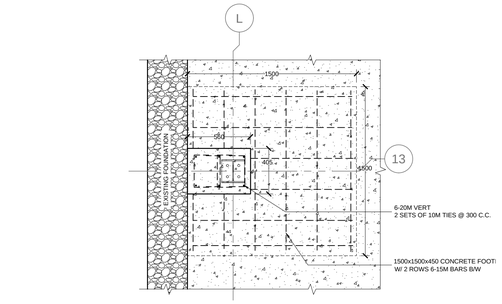

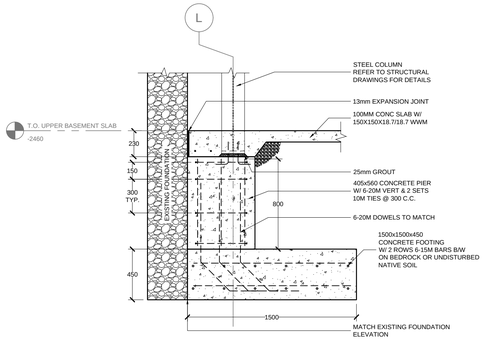

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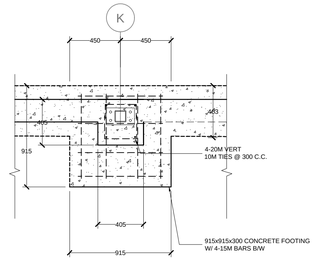

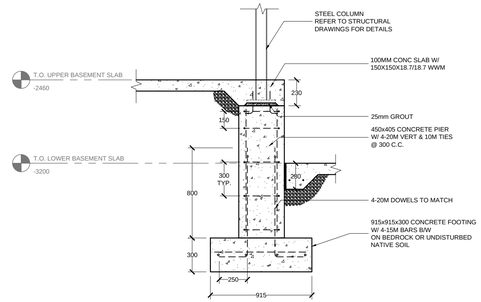

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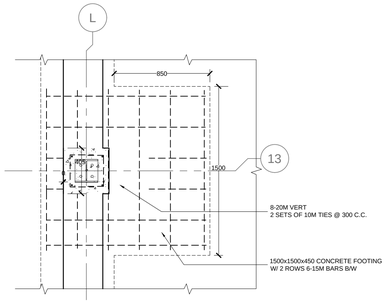

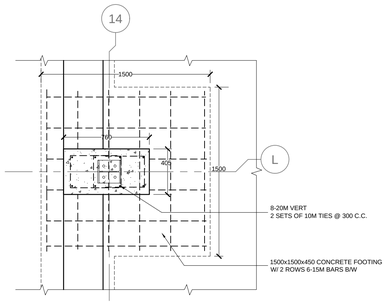

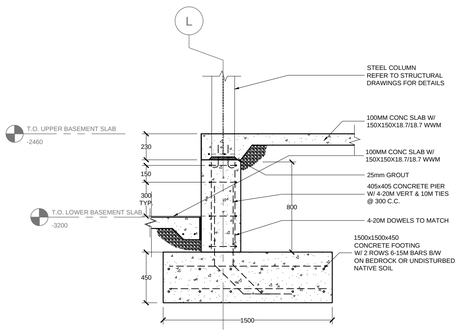

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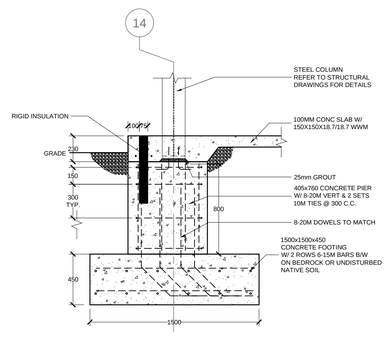

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SCALE: 1:25

No.	By	Date	Revisions
1	BDC	2022 04 18	FOR TENDER

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LICENSED PROFESSIONAL ENGINEER
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2022 04 18
PROVINCE OF ONTARIO

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Project Title:

JOINT ADMIN FACILITY
RENOVATIONS AND ADDITIONS

2069 BATTERSEA RD, GLENBURNIE, ON.

Drawing Title:

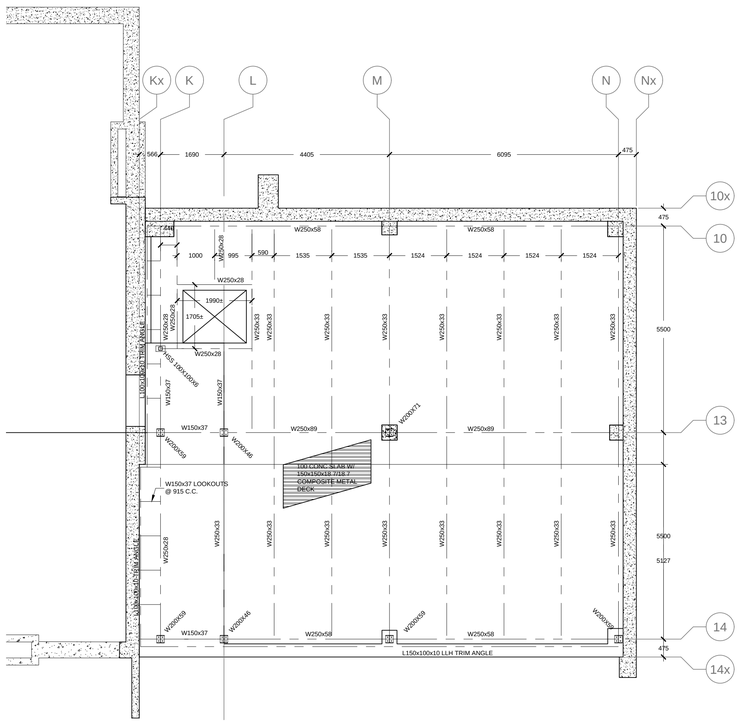
PIER DETAILS

Design:	Checked:	Approved:	Project No.:
BC	BC	BC	9402
Drawn:	Checked:	Date:	Contract No.:
DM	BC	2/3/2022	

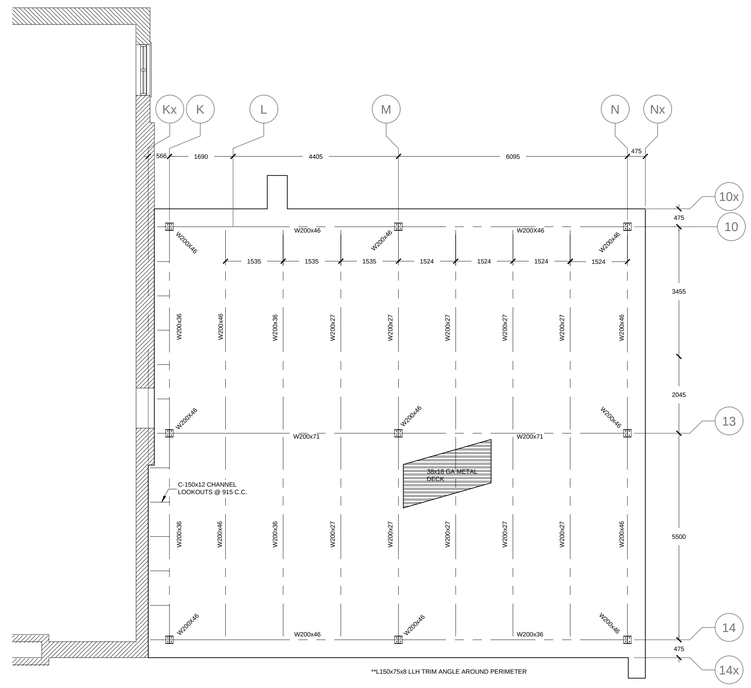
Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.:
F303

REV DATE: 4/18/2022



1 S2 S2 STRUCTURAL PLAN - MAIN FLOOR FRAMING - ELEV: 0
SCALE: 1:75



2 S2 S2 STRUCTURAL PLAN - ROOF FRAMING - ELEV: 3401
SCALE: 1:75

No.	By	Date	Revisions
1	DM	XXXX	XXXX

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PROJECT NORTH

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Project Title:
JOINT ADMIN FACILITY RENOVATIONS AND ADDITIONS

2069 BATTERSEA RD, GLENBURNIE, ON.

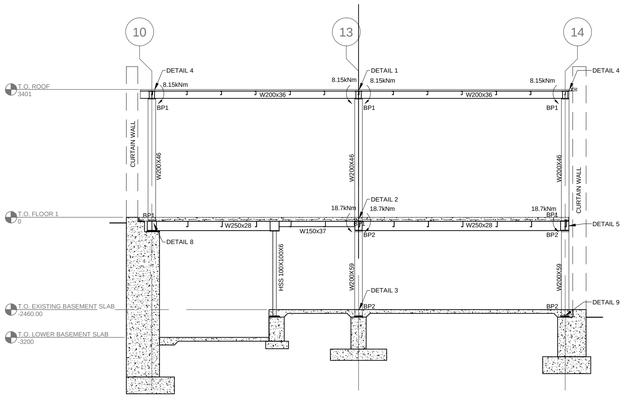
Drawing Title:
STRUCTURAL PLANS

Design:	Checked:	Approved:	Project No.:
BC	BC	BC	9402
Drawn: DM	Checked: BC	Date: 11/10/2021	Contract No.:

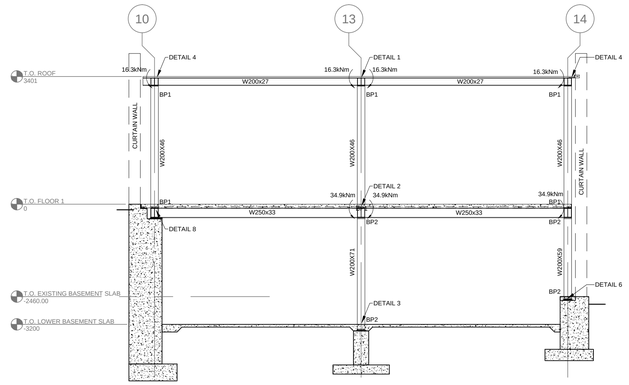
Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.: S300

REV DATE: 4/18/2022



STEEL ELEVATION AT GRID K
SCALE: 1:75



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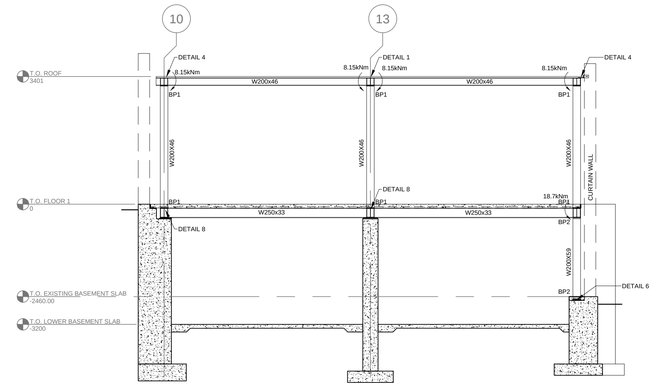

STEEL ELEVATION AT GRID N
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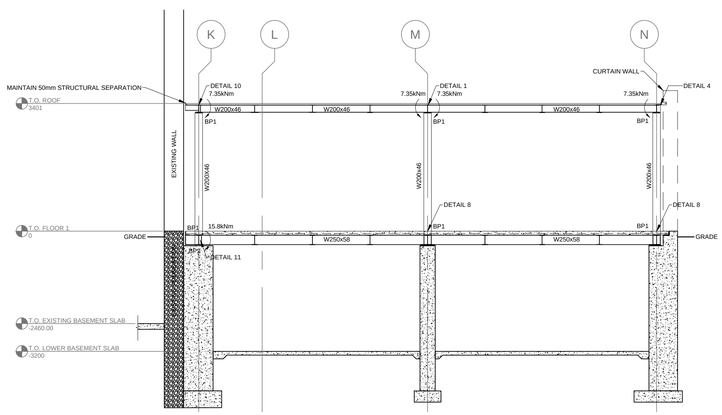

STEEL ELEVATION AT GRID 10
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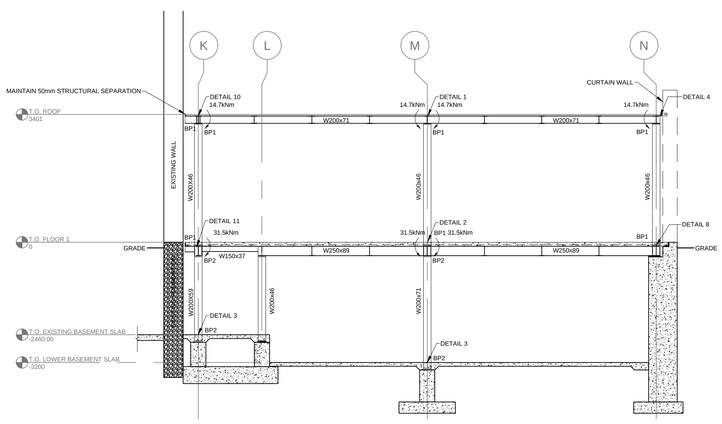

STEEL ELEVATION AT GRID 13
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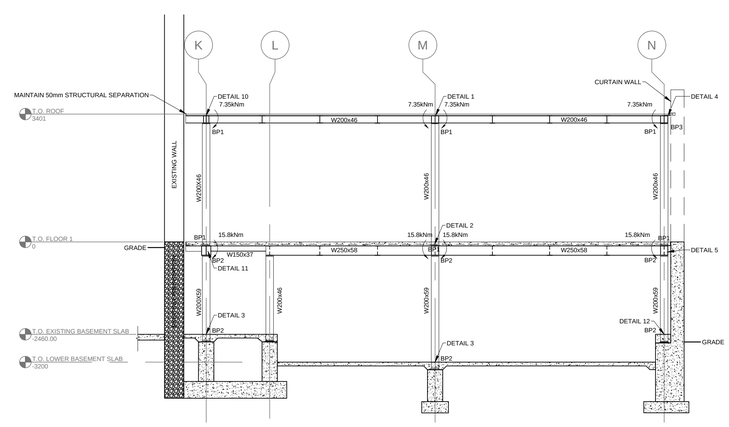

STEEL ELEVATION AT GRID 14
SCALE: 1:75

No.	By	Date	Revisions
1	DM	XXXX	XXXX

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Project Title:
JOINT ADMIN FACILITY RENOVATIONS AND ADDITIONS

2069 BATTERSEA RD, GLENBURNIE, ON.

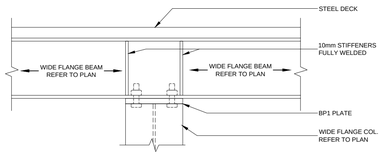
Drawing Title:
STRUCTURAL ELEVATIONS

Design:	Checked:	Approved:	Project No.:
BC	BC	BC	9402
Drawn: DM	Checked: BC	Date: 11/10/2021	Contract No.:

Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.:
S301

REV DATE: 4/18/2022



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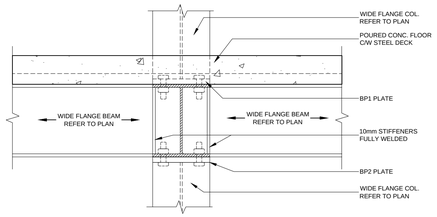

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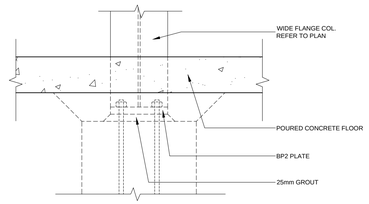

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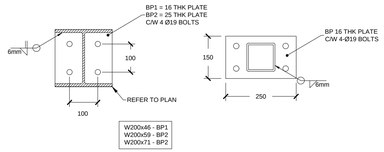
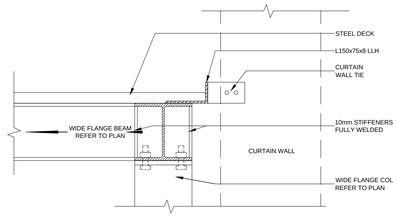


BASE/TOP PLATE DETAILS
SCALE: 1:10



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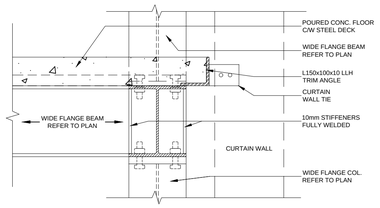

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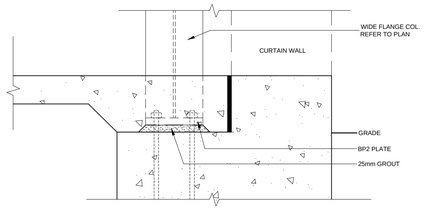

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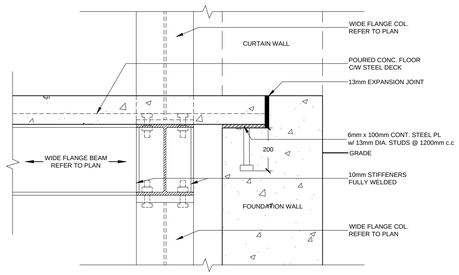

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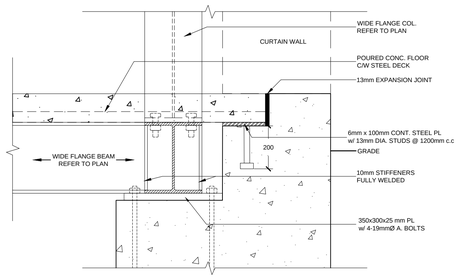

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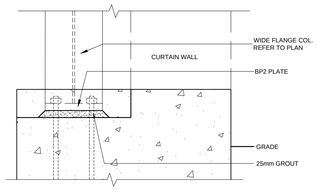

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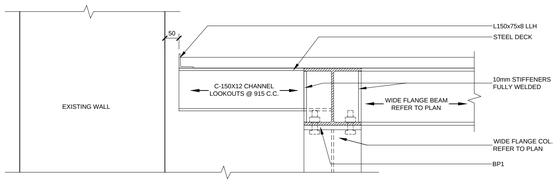

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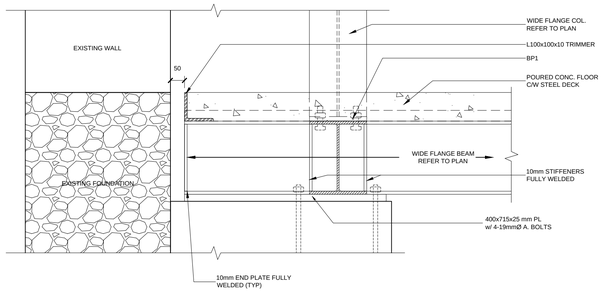

DETAIL 11
SCALE: 1:10

No.	By	Date	Revisions
1	DM	XXXX	XXXX

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LICENSED PROFESSIONAL ENGINEER
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100172021
2022 04 18
PROVINCE OF ONTARIO

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www.EastEng.com

Project Title:
JOINT ADMIN FACILITY RENOVATIONS AND ADDITIONS

2069 BATTERSEA RD, GLENBURNIE, ON.

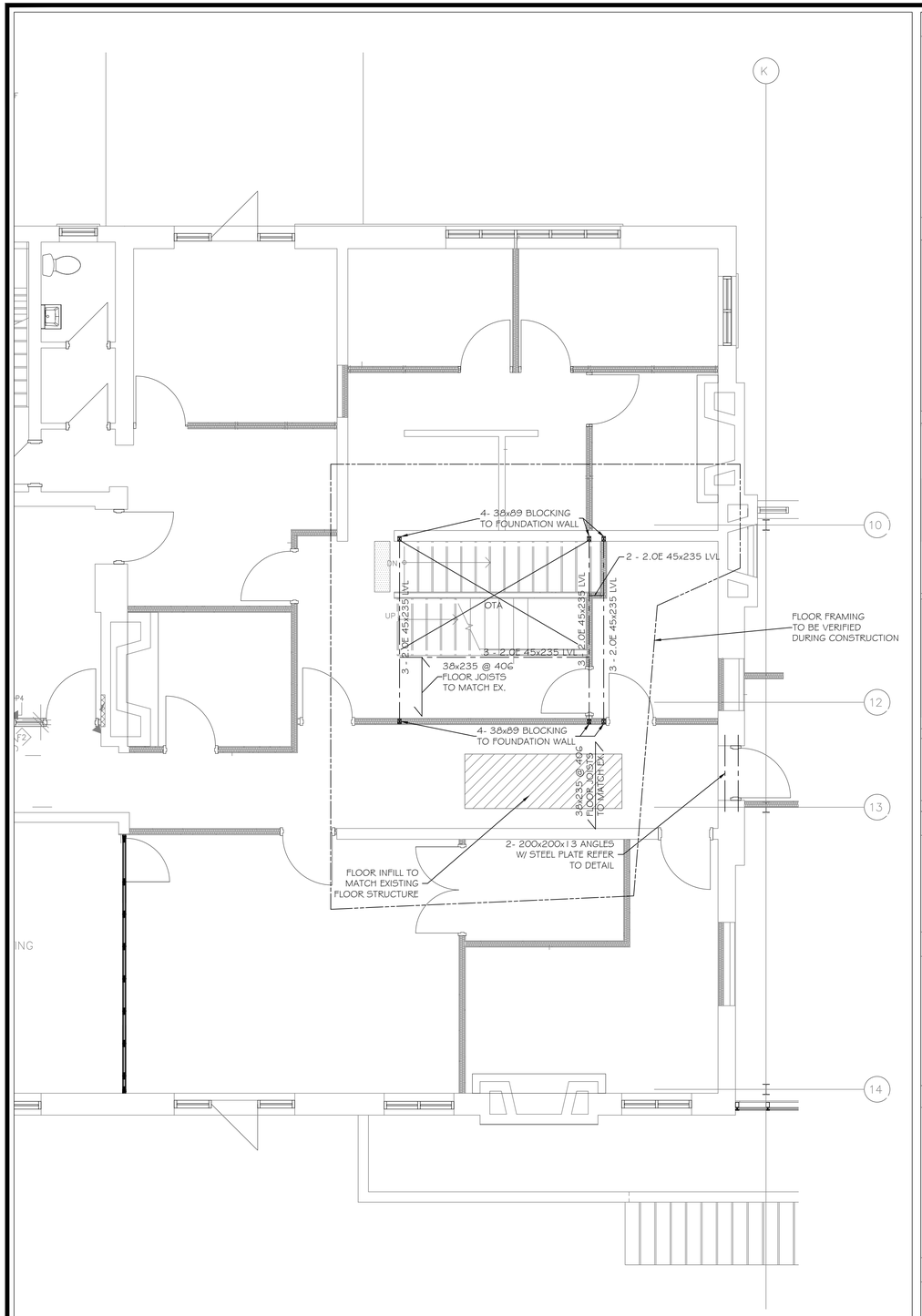
Drawing Title:
PLATE DETAILS

Design:	Checked:	Approved:	Project No.:
BC	BC	BC	9402
Drawn: DM	Checked: BC	Date: 11/10/2021	Contract No.:

Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

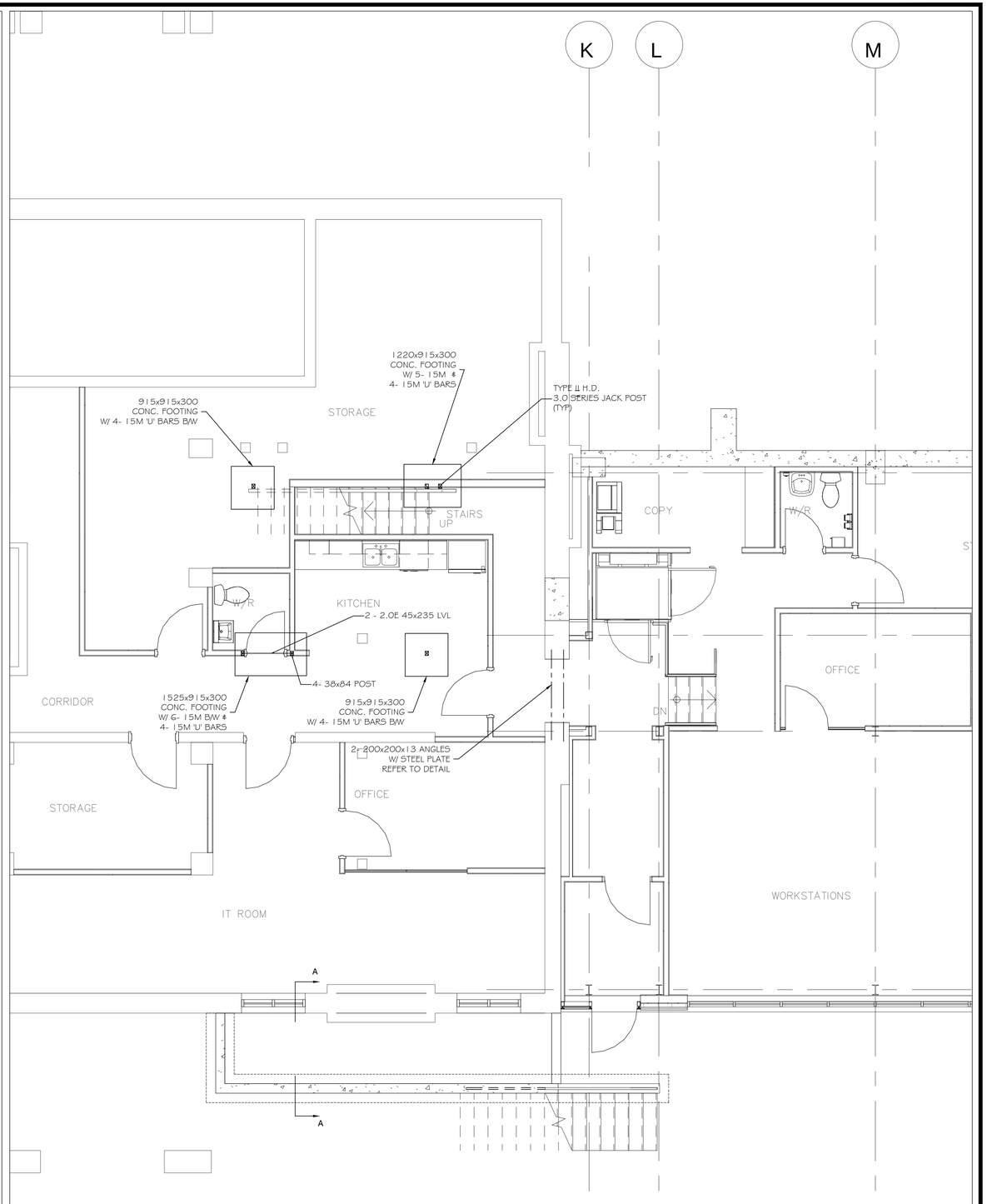
Drawing No.: S302

REV DATE: 4/18/2022



PARTIAL GROUND FLOOR PLAN

SCALE: 1:50



PARTIAL BASEMENT FLOOR PLAN

SCALE: 1:50

No.	By	Date	Revisions
0	B.O'B.	2022 04 18	FOR TENDER

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PROJECT NORTH

LICENSED PROFESSIONAL ENGINEER
B. D. CAMPBELL
100172021
2022 04 18
PROVINCE OF ONTARIO

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Brockville, Ont. K6V 5J9
Telephone: (613) 345-0400
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www.EastEng.com

Project Title:

JOINT ADMIN FACILITY
RENOVATIONS & ADDITIONS
2069 BATTERSEA ROAD,
GLENBURNIE, ONTARIO

Drawing Title:

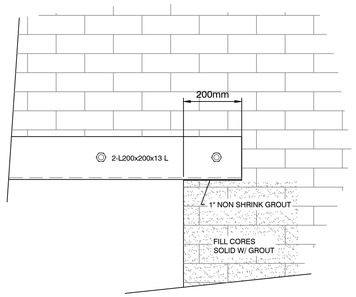
STRUCTURAL
NEW STAIR, EX. FLOOR INFILL
& ATTIC FLOOR INFILL

Design:	Checked:	Approved:	Project No.:
BC	BC		9402
Drawn: B.O'B.	Checked: BC	Date: 2022 04 18	Contract No.:

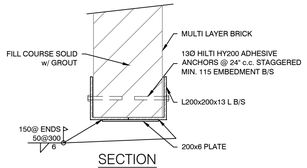
Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.: S400

REV DATE: 4/18/2022

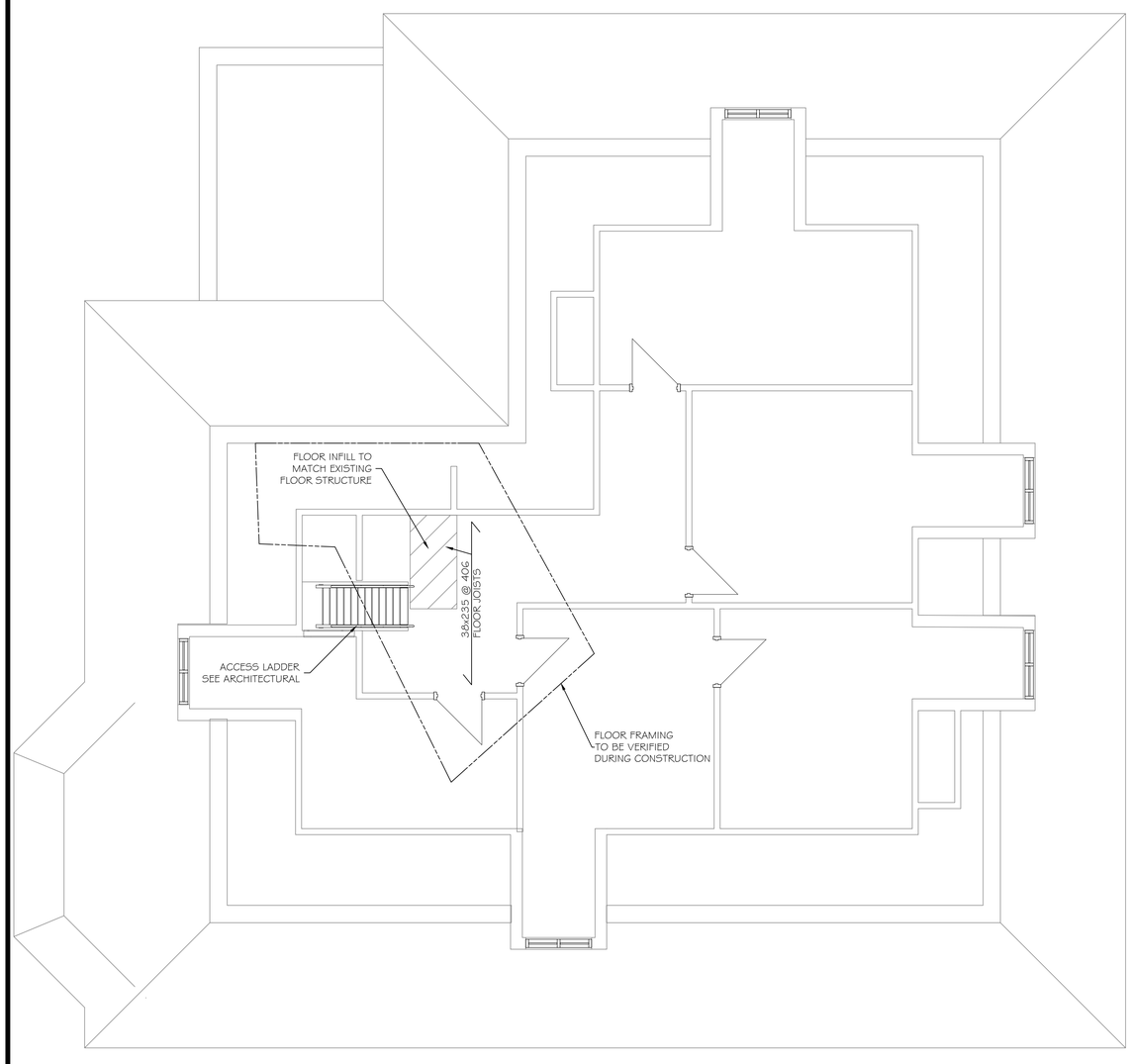


ELEVATION
SCALE: 1:10

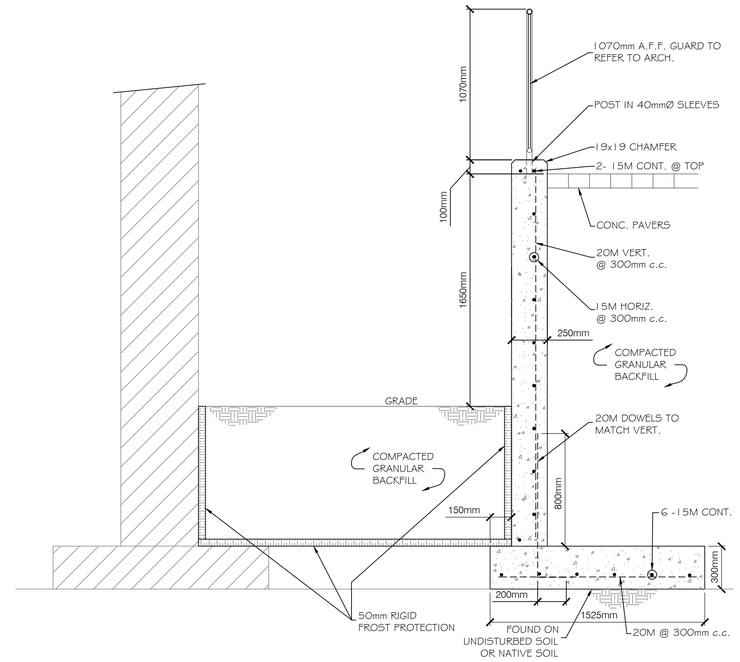


SECTION
SCALE: 1:10

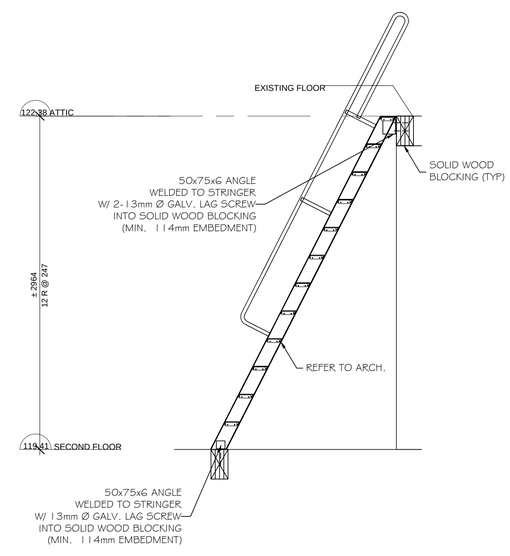
TYP. LINTEL DETAIL



ATTIC PLAN
N.T.S.



TYP. RETAINING WALL SECTION A-A
SCALE: 1:20



ATTIC LADDER DETAIL
SCALE: 1:25

No.	By	Date	Revisions
0	B.O'B.	2022 04 18	FOR TENDER

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The contractor must check and verify all dimensions on the job prior to start of construction.

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2022 04 18
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Project Title:

JOINT ADMIN FACILITY
RENOVATIONS & ADDITIONS
2069 BATTERSEA ROAD,
GLENBURNIE, ONTARIO

Drawing Title:

STRUCTURAL
NEW STAIR, EX. FLOOR INFILL
& ATTIC FLOOR INFILL

Design:	Checked:	Approved:	Project No.:
BC	BC		9402
Drawn: B.O'B.	Checked: BC	Date: 2022 04 18	Contract No.:

Scale:
Horizontal: AS SHOWN
Vertical: AS SHOWN

Drawing No.: S401

REV DATE: 4/18/2022