STRUCTURAL DRAWING LIST	
S000	COVER
S100	GENERAL NOTES & TYPICAL DETAILS
S101	GENERAL NOTES & TYPICAL DETAILS
S207	7TH FLOOR PART PLANS
S208	8TH FLOOR PART PLANS
S400	ELEVATIONS
S800	SECTIONS & DETAILS

WLU - Waterloo Campus Faculty of Education
TOR.106261.0021

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2026-10-29

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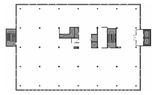
Key Plan



Professional Seals



No.	Description	Date
1	ISSUED FOR PERMIT & TENDER	2026-10-29

Project No: TOR.106261.0021
Sheet Title
COVER

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Sheet Number
S000

STRUCTURAL STEEL - GENERAL

1. STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING U.N.O.:

A.	W AND WT SHAPES	CSA G40.21 GRADE 345WM / ASTM A992
B.	C, L, M, MC, MT, S, AND ST SHAPES	CSA G40.21 CSA G40.21 350W, ASTM A992, OR ASTM A572 GRADE 50
C.	HP SHAPES	ASTM A572 GRADE 50
D.	RECTANGULAR OR SQUARE HSS	ASTM A500 GRADE C, CSA G40.21 GRADE 350W, OR ASTM A1085 CLASS C OR ASTM A1085
E.	ROUND HSS	ASTM A500 GRADE C
F.	PIPE	ASTM A53 GRADE B
G.	ROLLED PLATES AND BARS	CSA G40.21 GRADE 300W
H.	WWF AND WRF SHAPES	CSA G40.21 GRADE 350W
J.	BOLTS (SEE PLANS AND DETAILS)	ASTM F3125 GRADE A325 OR A490
K.	STRUCTURAL STEEL ANCHOR RODS (UNLESS NOTED OTHERWISE)	ASTM F1554 GRADE 36 MINIMUM
L.	REINFORCING BAR ANCHOR BOLTS	CSA G30.18 GRADE 400R

2. USE OF STRUCTURAL STEEL SHAPES, PLATE OR BARS WITH HIGHER GRADE THAN NOTED ABOVE SUBJECT TO APPROVAL BY RJC.

3. DESIGN FORCES INDICATED ON DRAWINGS FOR STRUCTURAL STEEL WORK ARE FACTORED FORCES UNLESS NOTED OTHERWISE. FORCES ARE VERTICAL SHEAR FORCES UNLESS NOTED OTHERWISE.

METRIC

A.	FORCES	kN
B.	MOMENTS	kN-m
C.	LINE LOADS	kN/m
D.	DISTRIBUTED LOADS	kPa

SEE "DESIGN LOADS" NOTES FOR DEFINITIONS AND VALUES OF LIVE LOAD, DEAD LOAD AND SUPERIMPOSED DEAD LOAD. SEE ALSO PLANS FOR OTHER LOAD/FORCE REQUIREMENTS.

STRUCTURAL STEEL - CONNECTION DESIGN BY FABRICATOR

1. ALL CONNECTIONS TO BE DESIGNED BY FABRICATOR UNLESS NOTED OTHERWISE. ALL BEAM CONNECTIONS TO BE STANDARD FRAME BEAM CONNECTIONS OR EQUIVALENT, UNLESS NOTED OTHERWISE. THE FABRICATOR SHALL SUBMIT SUMMARY DESIGN DRAWINGS FOR REVIEW SHOWING IN DETAIL THE "STANDARD" CONNECTIONS AND THEIR CAPACITIES THAT IS INTENDED FOR USE ON THE PROJECT. THESE DRAWINGS ARE IN ADDITION TO THE REGULAR SHOP DRAWINGS, AND SHALL PRECEDE THEM.

2. SHOP DRAWINGS SHALL BE PREPARED UNDER THE DIRECTION OF A SPECIALTY STRUCTURAL ENGINEER. FOR THOSE CONNECTIONS AND COMPONENTS DESIGNED BY THE FABRICATOR, THIS ENGINEER OR THEIR REPRESENTATIVE SHALL VISIT THE SITE TO REVIEW IN PLACE THE CONNECTIONS AND COMPONENTS DESIGNED BY THIS ENGINEER TO SATISFY THEMSELVES THAT THESE CONNECTIONS AND COMPONENTS SUBSTANTIALLY COMPLY WITH THEIR DESIGN ON THE SHOP DRAWINGS. THIS ENGINEER SHALL PROVIDE A LETTER TO RJC TO THIS EFFECT. THIS ENGINEER SHALL ALSO PROVIDE SEALED SKETCHES FOR ALL FIELD MODIFICATIONS MADE TO THEIR DESIGN.

3. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT IN WRITING (AND BEFORE THE SUBMISSION OF SHOP DRAWINGS) AS TO WHO THE ENGINEER WILL BE THAT WILL BE DESIGNING AND PROVIDING FIELD REVIEW FOR THE CONNECTIONS AND COMPONENTS DESIGNED BY THE CONTRACTOR.

4. DRAWINGS OF COMPONENTS AND CONNECTIONS DESIGNED BY THE FABRICATOR'S SPECIALTY STRUCTURAL ENGINEER SHALL BE SIGNED AND SEALED BY THIS ENGINEER OR A LETTER SHALL BE SUBMITTED AT THE END OF SHOP DRAWING PRODUCTION SIGNED AND SEALED BY THIS ENGINEER, IDENTIFYING WHAT WAS DESIGNED AND LISTING THE FINAL DRAWINGS WITH DATES AND REVISION NUMBERS.

5. CONNECTIONS AND SPLICES NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUESTED BY THE FABRICATOR MUST BE ACCEPTABLE TO RJC AND DETAILED ON THE SHOP DRAWINGS. TESTING OF THESE CONNECTIONS SHALL BE AT THE DISCRETION OF RJC AND TO THE CONTRACTORS ACCOUNT.

TESTING OF STRUCTURAL STEEL AND STEEL DECK

1. CONTRACTOR SHALL RETAIN THE SERVICE OF THE TESTING AGENCY APPROVED UNDER W178.1 (BUILDING CATEGORY)

2. TESTING SHALL BE PAID BY THE CONTRACTOR.

3. THE TESTING AGENCY IS RESPONSIBLE TO THE OWNER AND HAS THE AUTHORITY TO, AND IS EXPECTED TO, REJECT ANY WORK NOT MEETING SPECIFICATIONS.

4. REVIEW THE STRUCTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO CARRYING OUT THE WORK.

5. PROVIDE TESTING AS PER THE STANDARDS AND AS PER THIS SPECIFICATION.

6. PROVIDE TIMELY TEST REPORTS TO THE STRUCTURAL ENGINEER, CONSULTANT AND CONTRACTOR.

7. THE STRUCTURAL ENGINEER MAY REJECT AT ANY TIME DURING THE PROGRESS OF THE WORK A PIECE OF MATERIAL OR ANY MEMBER WHICH THE STRUCTURAL ENGINEER MAY FIND DEFECTIVE OR NOT IN ACCORDANCE WITH THE DETAILED DRAWINGS. THIS MATERIAL MAY BE REJECTED NOTWITHSTANDING ANY PREVIOUS ACCEPTANCE AND COMPONENTS SO REJECTED SHALL BE REPLACED AT NO EXPENSE TO THE OWNER. IN CASE OF DISPUTE, THE DECISION OF THE STRUCTURAL ENGINEER SHALL BE FINAL.

8. TESTING IN GENERAL SHALL CONFORM TO CSA S16 AND W59. ACCEPTANCE CRITERIA FOR WELDING TO BE FOR STATICALLY LOADED STRUCTURES AS PER W59.

9. IF INITIAL TESTS INDICATE THAT THE WORK FAILED TO MEET SPECIFICATIONS, THE STRUCTURAL ENGINEER SHALL DECIDE IF ANY ADDITIONAL TESTING IS NECESSARY. THIS TESTING SHALL BE DONE BY THE OWNER'S AGENCY. THE PROPOSED ADDITIONAL TESTING SHALL HAVE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

10. CONFIRM THAT THE FABRICATOR AND ERECTOR ARE CERTIFIED TO CSA-W47.1 AND THAT ALL WELDERS ARE PROPERLY QUALIFIED.

11. REVIEW WELDING PROCEDURES.

12. CONFIRM WELDING CONSUMABLES ARE PROPERLY STORED IN SHOP AND FIELD.

13. REVIEW MILL CERTIFICATES FOR THE MATERIAL USED AND FORWARD TO THE STRUCTURAL ENGINEER.

14. NON-DESTRUCTIVE TESTING OPERATOR TO HAVE LEVEL II QUALIFICATIONS AS A MINIMUM.

15. RANDOMLY CHECK AND RECORD STRUCTURAL MEMBER SIZES ON 50% OF THE MEMBERS IN GENERAL.

16. CHECK GRADE MARKINGS ON STRUCTURAL STEEL IN FABRICATOR'S PLANT PRIOR TO FABRICATION.

17. PROVIDE A VISUAL REVIEW OF 100% OF ALL TYPES OF WELDS AND 100% OF WORKMANSHIP.

18. RANDOMLY SELECT SHOP AND SITE WELDS FOR NONDESTRUCTIVE TESTING - 10% OF CONNECTIONS OF EQUAL PROPORTION (SHOP VS SITE WELDS)

19. STEEL STRUCTURES SHALL BE TESTED & INSPECTED IN ACCORDANCE WITH ANNEX P OF CSA S16 (CLAUSE 30) WITH AN INSPECTION CLASS OF IC2.

20. SPLICES NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE 100% ULTRASONICALLY TESTED (UT) AT CONTRACTORS EXPENSE.

DEMOLITION OF STRUCTURAL ELEMENTS

1. SEE TEMPORARY WORKS NOTES.

2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS FORMING THE TENDER PACKAGE.

3. THE DRAWINGS ILLUSTRATE SCHEMATIC APPROACH TO THE TEMPORARY BRACING OF THE EXISTING STRUCTURE AND IS PREPARED FOR CONTRACTOR CONSIDERATION ONLY. THE CONTRACTOR MAY ADOPT THE ILLUSTRATED APPROACH AT THE CONTRACTOR'S SOLE DISCRETION OR PROPOSE ANY OTHER METHOD THE CONTRACTOR DEEMS APPROPRIATE TO PROVIDE TEMPORARY BRACING, BUT AT NO TIME SHALL THE SAFETY AND INTEGRITY OF THE EXISTING STRUCTURE BE COMPROMISED.

4. THE CONTRACTOR SHALL DESIGN, PROVIDE, CONSTRUCT AND MAINTAIN, REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR THE TEMPORARY WORKS.

5. SUBMIT SHOP DRAWINGS, DIAGRAMS AND DETAILS SHOWING SEQUENCE OF DEMOLITION WORK AND SUPPORTING STRUCTURES AND UNDERPINNING. SUBMIT CALCULATIONS TO THE CONSULTANT. DRAWINGS AND CALCULATIONS SUBMITTED SHALL BEAR SIGNATURE AND STAMP OF QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.

6. THE PROFESSIONAL ENGINEER EMPLOYED TO DESIGN THE TEMPORARY SHORING, BRACING, NEEDLING AND THE SAME ENGINEER SHALL ALSO BE EMPLOYED TO FULLY SUPERVISE THEIR INSTALLATION AND REMOVAL AND SHALL SUBMIT WEEKLY REPORTS TO THE CONSULTANT, AND OWNER REGARDING THIS WORK.

7. THE GENERAL CONTRACTOR MUST EXAMINE DRAWINGS OF ALL DISCIPLINES AND COORDINATE THE STRUCTURAL DEMOLITION WORK TO ASSURE THE ADOPTED SEQUENCE OF DEMOLITION WORK PROVIDES FOR SUBSEQUENT CONSTRUCTION OF ALL ELEMENTS OF THE PROJECT WITHOUT INTERFERENCE.

8. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE STRUCTURAL DEMOLITION WORK WITH OTHER DEMOLITION REQUIRED BY ARCHITECTURAL AND MECHANICAL DISCIPLINES AND ASSIGN COORDINATED SCOPE OF WORK TO THE SUBTRADES.

9. THE EXISTING STRUCTURE SHOWN ON THE DRAWINGS IS BASED ON THE ORIGINAL DRAWINGS AND LIMITED INFORMATION AVAILABLE AT THE TIME OF DESIGN. THE DEMOLITION SCOPE OF WORK SHALL INCLUDE REMOVAL OF ALL STRUCTURAL AND NON-STRUCTURAL ELEMENTS IN THE AREAS MARKED ON DRAWINGS AND AS INDICATED BY THE ARCHITECT.

10. PROTECTION:

A. PREVENT MOVEMENT, SETTLEMENT OR DAMAGE OF ELEMENTS OF EXISTING BUILDING TO REMAIN. PROVIDE BRACING, SHORING AS REQUIRED. PROTECT ALL EXISTING SURFACES NOT TO BE RESTORED FROM DAMAGE DURING REMOVAL PROCEDURE. REMOVE OR PROTECT IN PLACE ALL SURFACE- MOUNTED OR PERMANENT ELECTRICAL FIXTURES AND ALL CONDUIT, FIXTURES, EQUIPMENT, ETC. NOT TO BE DEMOLISHED. UPON COMPLETION OF THE REPAIR WORK, REINSTALL ALL EXISTING EQUIPMENT AND FIXTURES DESIGNATED TO REMAIN. MAKE GOOD DAMAGE CAUSED BY DEMOLITION.

B. TAKE PRECAUTIONS TO SUPPORT AND, IF SAFETY OF ELEMENTS NOT SLATED FOR DEMOLITION APPEARS TO BE ENDANGERED, CEASE OPERATIONS AND NOTIFY ENGINEER IMMEDIATELY.

C. PREVENT DEBRIS FROM BLOCKING SURFACE DRAINAGE SYSTEM, MECHANICAL, AND ELECTRICAL SYSTEMS WHICH MUST REMAIN IN OPERATION.

11. INSPECTION:

A. VISIT AND EXAMINE THE SITE AND NOTE ALL CHARACTERISTICS AND FEATURES AFFECTING THE WORK OF THIS SECTION.

B. ENSURE ALL SERVICES, WHETHER BURIED, BUILT-IN OR EXPOSED ARE PROPERLY IDENTIFIED AS TO POSITION, TYPE OF SERVICE, SIZE, DIRECTION OF FLOW. SLABS MUST BE SCANNED OR X-RAYED FOR EMBEDDED SERVICES AT REPAIR LOCATIONS PRIOR TO UNDERTAKING THE REPAIR WORK SUCH THAT THESE SERVICES CAN BE RELOCATED. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO ALL EMBEDDED SERVICES.

C. INSPECT MATERIALS, EQUIPMENT, COMPONENTS TO BE RE-USED OR TURNED OVER TO THE OWNER. NOTE THEIR CONDITION AND ADVISE ARCHITECT IN WRITING OF ANY DEFECTS OR CONDITIONS WHICH WOULD AFFECT THEIR REMOVAL AND RE-USE.

12. PREPARATION:

A. DO NOT DISRUPT ACTIVE OR ENERGIZED UTILITIES DESIGNATED TO REMAIN UNDISTURBED.

B. RELOCATE EXISTING SERVICES PRIOR TO START OF WORK AS REQUIRED, BUT DO NOT AFFECT THE SERVICES OF AREAS NOT UNDER CONSTRUCTION OR ESSENTIAL TO THE ONGOING OPERATION OF THE BUILDING.

C. PROTECT ALL SURFACE-MOUNTED FIXTURES FROM DAMAGE.

D. IN ALL CASES, EXERCISE ALL REASONABLE CARE DURING REMOVAL OPERATIONS TO AVOID DAMAGING ITEMS TO BE SALVAGED, RE-USED, OR ITEMS THAT ARE NOT PART OF THE SCOPE OF WORK.

13. DEMOLITION, SALVAGE AND DISPOSAL:

A. DEMOLISH PARTS OF STRUCTURE TO PERMIT REMEDIAL WORK AS INDICATED.

B. REMOVE EXISTING EQUIPMENT, SERVICES, AND OBSTACLES WHERE REQUIRED FOR REFINISHING OR MAKING GOOD OF EXISTING SURFACES, AND REPLACE AS WORK PROGRESSES.

C. AT END OF EACH DAY'S WORK, LEAVE WORK IN SAFE CONDITION SO THAT NO PART IS IN DANGER OF CAUSING INJURY OR DAMAGE.

D. DEMOLISH TO MINIMIZE DUSTING. KEEP DUSTY MATERIALS WETTED, WHERE POSSIBLE.

E. DEMOLISH CONCRETE IN SMALL SECTIONS. CAREFULLY REMOVE AND LOWER HEAVY OR LARGE OBJECTS.

F. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SURFACE OF SOUND CONCRETE WHICH IS TO REMAIN THROUGH THE REMOVAL OPERATION. WHERE ANY SUCH DAMAGE IS DONE TO SOUND MATERIAL, IT IS TO BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THE APPROVAL OF THE ENGINEER.

G. WHERE NEW CONCRETE IS TO BE APPLIED TO EXISTING CONCRETE, THE SURFACE IS TO BE LEFT CLEAN AND SOUND.

H. PROVIDE SHORING TO SUPPORT THE SLAB WHEN REMOVALS REDUCE ITS LOAD-CARRYING CAPACITY, AS DIRECTED BY THE ENGINEER. NO PAYMENT WILL BE MADE FOR SUCH SHORING AS IT IS TO BE INCLUDED IN THE COST OF REPAIR AS OUTLINED IN THESE DOCUMENTS.

I. DEMOLITION PROCEDURES AND EQUIPMENT SHALL MEET ALL APPLICABLE NOISE-CONTROL BY-LAWS AND REGULATIONS OF THE LOCATION OF THE WORK.

J. REFER TO TEMPORARY WORKS AND RENOVATION NOTES FOR ADDITIONAL DRAWINGS TO BE PREPARED UNDER THE DIRECTION OF A SPECIALTY STRUCTURAL ENGINEER. FOR THOSE CONNECTIONS AND COMPONENTS DESIGNED BY THE FABRICATOR. THIS ENGINEER OR THEIR REPRESENTATIVE SHALL VISIT THE SITE TO REVIEW IN PLACE THE CONNECTIONS AND COMPONENTS DESIGNED BY THIS ENGINEER TO SATISFY THEMSELVES THAT THESE CONNECTIONS AND COMPONENTS COMPLY WITH THEIR DESIGN ON THE SHOP DRAWINGS. THIS ENGINEER SHALL PROVIDE A LETTER TO RJC TO THIS EFFECT. THIS ENGINEER SHALL ALSO PROVIDE SEALED SKETCHES FOR ALL FIELD MODIFICATIONS MADE TO THEIR DESIGN.

TEMPORARY WORKS

1. THE CONTRACTOR SHALL DESIGN, PROVIDE, ERECT, MAINTAIN, REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR ALL TEMPORARY WORKS REQUIRED FOR THE SAFE AND COMPLETE EXECUTION OF THE WORKS.

2. IN THE EXECUTION OF THE TEMPORARY WORKS AND FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR ALL LIKELY CONSTRUCTION LOADING AND PROVIDE SUFFICIENT BRACING AND PROPS TO KEEP THE WORKS IN PLUMB AND ALIGNMENT AND FREE FROM EXCESSIVE DEFLECTION.

3. ACCESS OF HEAVY CONSTRUCTION EQUIPMENT AND ACCUMULATION OF CONSTRUCTION MATERIALS ON THE FLOORS ARE NOT PERMITTED, UNLESS SUCH HAVE BEEN CATERED FOR IN THE CONTRACTOR'S TEMPORARY WORK DESIGN TO THE SATISFACTION OF THE ARCHITECT & ENGINEER.

4. COSTS OF ALL TEMPORARY WORKS ARE DEEMED TO HAVE BEEN INCLUDED IN THE CONTRACT PRICE.

5. SUBMIT SHOP DRAWINGS FOR ALL TEMPORARY WORKS FOR REVIEW BEFORE FABRICATION COMMENCES. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED AND LICENSED TO PRACTICE BY THE PROFESSIONAL ENGINEERING ASSOCIATION HAVING JURISDICTION IN THE AREA WHERE THE STRUCTURE IS TO BE BUILT.

6. ANY CONSTRUCTION SEQUENCES SHOWN ON THE DRAWINGS SHALL BE PART OF TEMPORARY WORKS AND ARE FOR THE CONTRACTOR'S CONSIDERATION ONLY. THE CONTRACTOR IS AT LIBERTY TO USE ANY OTHER SEQUENCE AS THE CONTRACTOR DEEMS APPROPRIATE, BUT AT NO TIME SHALL THE SAFETY AND INTEGRITY OF THE WORKS AND THE STRUCTURE BE COMPROMISED. IF THE CONTRACTOR ADOPTS THE SUGGESTED SEQUENCE, SUCH SEQUENCE SHALL BE DEEMED AS THE CONTRACTOR'S OWN SELECTION OF METHOD, AND THE CONTRACTOR SHALL ASSUME FULL AND SOLE RESPONSIBILITY FOR IT, AS STATED IN (1) ABOVE. THE CONTRACTOR SHALL INFORM THE ARCHITECT IF THE CONTRACTOR WISHES TO DEVIATE FROM ANY SUGGESTED SEQUENCE.

RENOVATIONS

1. REVIEW OF EXISTING STRUCTURE CONDITIONS BY RJC IS LIMITED TO ONLY THE STRUCTURAL ELEMENTS IMPACTED BY THE RENOVATION WORK SHOWN ON THE STRUCTURAL DRAWINGS.

2. THE CONTRACT DOCUMENTS ARE BASED ON ASSUMED AS-BUILT DIMENSIONS FOR THE EXISTING BUILDING STRUCTURE AND ASSUMPTIONS IN ACCORDANCE WITH DETAILING AND PLACING PRACTICE. THESE ASSUMPTIONS MAY VARY FROM THE ACTUAL ON-SITE CONDITIONS. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE CONSULTANT OF ANY ACTUAL VARIATIONS FROM THE ASSUMED CONDITIONS.

3. MINOR MODIFICATIONS SUCH AS DIMENSIONAL CHANGES THAT DO NOT IMPACT MEMBER SIZES AND FRAMING LAYOUT, WILL BE REQUIRED TO THE WORK INDICATED ON THESE DRAWINGS TO REFLECT ACTUAL SITE CONDITIONS. THE CONTRACTOR WILL COOPERATE WITH THE CONSULTANT AND ENGINEER IN THIS REGARD. MINOR MODIFICATIONS WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT RESULT IN A CHANGE IN THE CONTRACT PRICE.

4. ENSURE ALL NECESSARY JOB DIMENSIONS ARE TAKEN AND ALL TRADES ARE COORDINATED FOR THE PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF SUCH DIMENSIONS, AND FOR COORDINATION.

5. PRIOR TO FABRICATION OF ANY STRUCTURAL MEMBERS, THE CONTRACTOR SHALL COMPLETE THIS SITE REVIEW OF CRITICAL "TIE-IN" DIMENSIONS AND CONFIRM ALL DIMENSIONS TO ENSURE PROPER FIT OF NEW WORK TO EXISTING. REPORT ANY DISCREPANCIES TO RJC PRIOR TO STARTING WORK.

6. COMMENCEMENT OF CONSTRUCTION OR ANY PART THEREOF CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND MEANS DIMENSIONS AND ELEVATIONS HAVE BEEN CONSIDERED, VERIFIED AND ARE ACCEPTABLE.

7. ANY OPENINGS THAT ARE NOT SHOWN OR INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO RJC FOR REVIEW. THESE OPENINGS MAY NOT BE ALLOWED, MAY HAVE TO BE MOVED, OR MAY REQUIRE ADDITIONAL STRUCTURAL WORK AND DETAILING. DO NOT PROCEED WITH THESE OPENINGS WITHOUT WRITTEN PERMISSION FROM RJC.

8. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, THE CORING OR CUTTING OF OPENINGS AND HOLES SHOWN ON THE STRUCTURAL DRAWINGS THROUGH THE EXISTING STRUCTURE SHALL NOT CUT ANY REINFORCING BARS. THE CONTRACTOR SHALL LOCATE THE POSITION OF EXISTING REINFORCING BARS IN THE VICINITY OF THE HOLES AND SLEEVES TO BE CUT OR CORED, AND THE HOLES AND SLEEVES SHALL BE LOCATED TO AVOID CUTTING OF REINFORCING BARS. WHERE THIS IS NOT POSSIBLE, IT SHALL BE REPORTED TO RJC FOR REVIEW.

9. NEW OPENINGS TO BE CUT THROUGH EXISTING FLOOR SLAB OR WALLS SHALL BE CLEARLY MARKED OUT BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY RJC ONCE THE MARKING OUT HAS BEEN COMPLETED SO RJC CAN REVIEW THE PROPOSED LOCATIONS OF ALL NEW OPENINGS. DO NOT PROCEED WITH CUTTING OF NEW OPENINGS WITHOUT THE APPROVAL OF RJC.

10. UNLESS NOTED OTHERWISE ON THE DRAWINGS NEW STRAIGHT SIDED OPENINGS THROUGH EXISTING SLABS AND WALLS SHALL BE SAWCUT WITH NO OVERCUTS. USE CORED HOLES AT THE CORNERS. JACKHAMMERING SHALL NOT BE PERMITTED. REFER TO THE DETAILS AND PROCEDURES INDICATED ON THE STRUCTURAL DRAWINGS FOR THE NEW OPENINGS. ALTERNATES TO THE ABOVE PROCEDURES MUST BE REVIEWED BY RJC PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION.

11. UNLESS NOTED OTHERWISE AT ALL LOCATIONS WHERE NEW CONCRETE WILL BE IN CONTACT WITH EXISTING CONCRETE SURFACES, THE EXISTING CONCRETE SURFACE IS TO BE COMPLETELY CLEANED AND ROUGHENED BY HYDRODEMOLITION, BUSH HAMMERING, (OR APPROVED EQUAL) TO AN AMPLITUDE OF 6 mm.

12. CONNECTIONS FOR NEW STRUCTURAL STEEL FRAMING TO EXISTING STRUCTURAL STEEL SHALL BE ACHIEVED THROUGH WELDED CONNECTIONS UNLESS OTHERWISE NOTED. WELDING OF NEW STEEL TO "OLD" STEEL (STEEL PRODUCED IN EARLY 20TH CENTURY) MAY REQUIRE MODIFICATIONS TO THE STANDARD WELDING PROCEDURES. PROCEDURES OF WELDING NEW STEEL TO "OLD" STEEL SHALL BE PREPARED BY THE CONTRACTOR'S SPECIALTY STRUCTURAL ENGINEER AND REVIEWED AND APPROVED BY RJC. CONTRACTOR TO ALSO PROVIDE A REPORT FROM MATERIALS TESTING COMPANY COMMENTING ON CHEMICAL COMPOSITION AND WELDABILITY OF OLD STEEL.

13. CONTRACTOR TO ENSURE UNDERGROUND OR IN-SLAB SERVICES ARE NOT DAMAGED THROUGH DEMOLITION, SAWCUTTING, HOLE AUGURING, OR OTHER CONSTRUCTION ACTIVITIES. SEE SPECIFICATION FOR TESTING/LOCATING REQUIREMENTS.

14. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORMWORK, FALSEWORK, SHORING, BRACING, ETC., REQUIRED TO COMPLETE THE WORK (SUBMIT SHORING DRAWINGS SEALED BY A SPECIALTY STRUCTURAL ENGINEER).

15. DRILL AND SITE MEASURE BOLT HOLES IN EXISTING STRUCTURE PRIOR TO FABRICATING STEEL CONNECTION PLATES. BOLT HOLES MAY HAVE TO BE MOVED FROM WHAT IS SHOWN ON THE DRAWINGS TO AVOID CUTTING EXISTING REINFORCING OR TO AVOID OTHER SITE CONDITIONS. SITE MODIFICATION OF STEEL CONNECTION PLATES WILL NOT BE ACCEPTED WITHOUT THE PRIOR APPROVAL OF RJC.

16. USE ONLY RJC PREAPPROVED OR SPECIFIED PRODUCTS FOR FASTENING TO EXISTING MATERIALS, UNLESS OTHERWISE APPROVED IN WRITING BY RJC.

17. LOCALLY REMOVE AND REINSTATE SPRAY APPLIED FIREPROOFING AS REQUIRED AT CONNECITONS TO EXISTING STEEL ELEMENTS.

ABBREVIATIONS

ACCOM. --	ACCOMMODATE	L.T.S. -------	LENGTH TO SUIT
AESS ------	ARCHITECTURALY EXPOSED STRUCTURAL STEEL	L.V. --------	LENGTH VARIES
Af ----------	FACTORED AXIAL FORCE	L.W. --------	LONG WAY
ALT. -------	ALTERNATE	MANUF. ---	MANUFACTURED
ALUM. -----	ALUMINUM	MAX. -------	MAXIMUM
A.R. --------	ANCHOR ROD	MECH. ------	MECHANICAL
ARCH. ------	ARCHITECTURAL	Mf ----------	FACTORED MOMENT
B.C.E. -----	BOTTOM CHORD EXTENSION	Mfx ---------	STRONG AXIS BENDING MOMENT
B.E.W. -----	BOTTOM EACH WAY	Mfy ---------	WEAK AXIS BENDING MOMENT
B.L.L. ------	BOTTOM LOWER LAYER	MIN. --------	MINIMUM
B.L.W. -----	BOTTOM LONG WAY	Mtf ----------	FACTORED TORSION
BM. --------	BEAM	N.F. --------	NEAR FACE
BOT. --------	BOTTOM	N.I.C. ------	NOT IN CONTRACT
B.P.T. ------	BUCKLING PREVENTION TIE	N.S. --------	NEAR SIDE
B.S.W. -----	BOTTOM SHORT WAY	N.T.S. ------	NOT TO SCALE
B.U.L. ------	BOTTOM UPPER LAYER	O.C. --------	ON CENTER
B.W. --------	BOTH WAYS	O/C ---------	ON CENTER
C.A. --------	COLUMN ABOVE	O.F. ---------	OUTSIDE FACE
CANT. ------	CANTILEVER	OPP. --------	OPPOSITE
C.B. --------	COLUMN BELOW	O.W.S.J. ---	OPEN WEB STEEL JOIST
CBM --------	COUPLING BEAM	Pf ----------	FACTORED POINT LOAD
C.CPL ------	COMPRESSION COUPLER	P.P. --------	PARTIAL PENETRATION
Cf ----------	FACTORED AXIAL COMPRESSION FORCE	P/T ---------	POST-TENSIONING
C.I.P. ------	CAST IN PLACE	R.D. --------	ROOF DRAIN
C.J. --------	CONTROL JOINT	REQ'D ------	REQUIRED
CL. ---------	CENTER LINE	R.O. --------	ROUGH OPENING
CLR. --------	CLEAR	RTN. --------	RETURN
COL. --------	COLUMN	R/W ---------	REINFORCED WITH
COMP. ------	COMPRESSION	R.W.L. ------	RAIN WATER LEADER
CONC. ------	CONCRETE	S.A.M. ------	SELF-ADHERED MEMBRANE
CONT. ------	CONTINUOUS	S.D.F. ------	STEP DOWN FOOTING
C.P. --------	COMPLETE PENETRATION	S.D.L. ------	SUPERIMPOSED DEAD LOAD
C.S. --------	COMPRESSION SPLICE	SIM. --------	SIMILAR
CTRS. ------	CENTERS	S.L. ---------	SNOW LOAD
C/W --------	COMPLETE WITH	S.L.B.B. ----	SHORT LEGS BACK TO BACK
DBM --------	DIVIDER BEAM	SLS ----------	SERVICEABILITY LIMIT STATE
DET. --------	DETAIL	S.O.G. ------	SLAB ON GRADE
D.L. --------	DEAD LOAD	SPEC. -------	SPECIFICATIONS
D.O. --------	DO OVER - (DITTO)	SR ----------	HEADED STUD ASSEMBLY
DP. ---------	DEEP (E.G. DEPTH OF BEAM)	S.S. ---------	STAINLESS STEEL
D.T.S. ------	DEPTH TO SUIT	S.S.T. ------	SIMPSON STRONG-TIE
DWG. -------	DRAWING	ST. ---------	STAGGER
DWLS. ------	DOWELS	STAG. ------	STAGGER
EA. ---------	EACH	STIR. -------	STIRRUP
E.E. --------	EACH END	STL. --------	STEEL
E.F. --------	EACH FACE	S.W. --------	SHORT WAY
EL. ---------	ELEVATION	SYM. --------	SYMMETRICAL
ELEV. ------	ELEVATOR	T&B ---------	TOP AND BOTTOM
ELEC. ------	ELECTRICAL	T&C ---------	TENSION AND COMPRESSION
EQ. ---------	EQUAL	T&G ---------	TONGUE AND GROOVE
E.S. --------	EACH SIDE	T.D.C. ------	TRAFFIC DECK COATING
E.W. --------	EACH WAY	TENS. ------	TENSION
EXIST. ------	EXISTING	T.CPL ------	TENSION COUPLER
EXP. JT. ---	EXPANSION JOINT	T.E.W. ------	TOP EACH WAY
EXT. --------	EXTERIOR	Tf ----------	FACTORED AXIAL TENSION FORCE
F.D. --------	FLOOR DRAIN	THK. --------	THICK
F.F. --------	FAR FACE	THRU ------	THROUGH
F.S. --------	FAR SIDE	T.J. --------	TIE JOIST
FTG. --------	FOOTING	T.L.L. ------	TOP LOWER LAYER
GA. ---------	GAUGE	T.O. --------	TOP OF
GALV. ------	GALVANIZED	T.O.C. ------	TOP OF CONCRETE
G.L. --------	GRID LINE	T.O.F. ------	TOP OF FOUNDATION
GR. BM ----	GRADE BEAM	T.O.S. ------	TOP OF SLAB
G.W.B. -----	GYPSUM WALL BOARD	T.O.S.S. ---	TOP OF STRUCTURAL STEEL
H., HORIZ.-	HORIZONTAL	T.O.W. ------	TOP OF WALL
H.1.E. ------	HOOK ONE END	TR. ---------	TRANSFER
H.2.E. ------	HOOK TWO ENDS	T.S. --------	TENSION SPLICE
H&V --------	HORIZONTAL AND VERTICAL	T.U.L. ------	TOP UPPER LAYER
H.D.G. -----	HOT-DIP GALVANIZED	TYP. --------	TYPICAL
Hf ----------	FACTORED HORIZONTAL FORCE	ULS ---------	ULTIMATE LIMIT STATE
H.P. --------	HIGH POINT	U.N.O. ------	UNLESS NOTED OTHERWISE
H.S.C. ------	HORIZONTALLY SLOTTED CONNECTION	UIS ---------	UNDERSIDE
HT. ---------	HEIGHT	V., VERT. -	VERTICAL
I.F. --------	INSIDE FACE	Vf ----------	FACTORED SHEAR FORCE
INT. --------	INTERIOR	V.S.C. ------	VERTICALLY SLOTTED CONNECTION
JT. ---------	JOINT	W/ ----------	WITH
LG. ---------	LONG	W.A. --------	WALL ABOVE
L.L. --------	LIVE LOAD	W.B. --------	WALL BELOW
L.L.B.B. ----	LONG LEGS BACK TO BACK	W.P. --------	WORK POINT
L.L.H. ------	LONG LEG HORIZONTAL	WT. ---------	WEIGHT
L.L.V. ------	LONG LEG VERTICAL	VXB ---------	VERTICAL BRACING, VERTICAL CROSS BRACING
L.P. --------	LOW POINT		
L.S.H. ------	LONG SIDE HORIZONTAL		
L.S.V. ------	LONG SIDE VERTICAL		

SHOP DRAWINGS

1. AS PART OF OUR CONSTRUCTION PHASE SERVICES, RJC WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON RJC'S DRAWINGS BY MEANS OF APPROPRIATE RATIONAL SAMPLING PROCEDURES AND COMMENT ON THE ACCURACY WITH WHICH THE CONTRACTOR PREPARED THE DRAWINGS.

2. REVIEW OF SHOP DRAWINGS IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESI

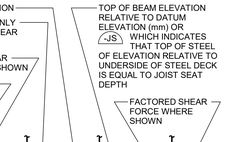
STRUCTURAL STEEL - FABRICATION AND DETAILING

1. FABRICATION, ERECTION, STRUCTURAL DESIGN, AND DETAILING OF ALL STEEL MEMBERS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH CSA S16.
2. PRIOR TO SUBMITTING SHOP DRAWINGS THE CONTRACTOR SHALL NOTIFY RJC IN WRITING THAT THE FABRICATOR IS CERTIFIED TO A MINIMUM OF DIVISION 2 OF CSA W47.1.
3. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO START OF STEEL FABRICATION. ALSO REFER TO "SHOP DRAWINGS" NOTE IN THE GENERAL NOTES SECTION OF THE STRUCTURAL DRAWINGS.
4. UNLESS NOTED OTHERWISE IN THE DRAWINGS AND SPECIFICATIONS, OR SPECIFIED BY THE STRUCTURAL STEEL SPECIALTY ENGINEER, SHIELDED METAL-ARC WELDING PROCEDURES IN ACCORDANCE WITH CSA W59 SHALL BE USED FOR ALL WELDS.
5. FILLET WELDS SHALL BE 5 mm MINIMUM UNLESS NOTED OTHERWISE.
6. BOLTS SHALL BE 3/4" MINIMUM A325 UNLESS NOTED OTHERWISE.
7. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTED PIECE AND BE DESIGNED AS BEARING CONNECTIONS, U.N.O.
8. UNLESS NOTED OTHERWISE, BOLTED CONNECTIONS WITH OVERSIZED OR SLOTTED HOLES SHALL HAVE WASHERS PER CISC STANDARD PRACTICE:
   A. OVERSIZED AND SHORT SLOTS: HARDENED WASHERS.
   B. LONG SLOTS: PLATE WASHERS FULLY COVERING THE SLOTS.
9. PROVIDE 6 mm CAP PLATES FOR ALL HSS MEMBERS U.N.O.
10. CONNECTION DETAILS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE ALTERED BY THE CONTRACTOR WITHOUT WRITTEN APPROVAL FROM READ JONES CHRISTOFFERSEN LTD.
11. STEEL SHALL BE PREPARED AND FINISHED IN ACCORDANCE WITH CSA S16 AND THE ARCHITECTURAL DRAWINGS AND PAINTING SPECIFICATIONS WHICH MAY INCLUDE ADDITIONAL CLEANING AND PRIMING REQUIREMENTS.
12. DESIGN DRAWINGS INCLUDE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. SEE ALSO ARCHITECTURAL DRAWINGS FOR ROOF AND FLOOR ELEVATIONS, ROOF SLOPES, EDGE DETAILS, AND ADDITIONAL DIMENSIONS AND DETAILS. WHERE ELEVATIONS, ROOF SLOPES, ETC., ARE SHOWN ON THE STRUCTURAL DRAWINGS, THEY MUST BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS.
13. UNLESS INDICATED ON APPROVED SHOP DRAWINGS OR OTHERWISE APPROVED IN WRITING BY RJC, DO NOT CONSTRUCT REINFORCED OR UN-REINFORCED SLEEVES THROUGH STEEL BEAMS
14. UNLESS NOTED OTHERWISE, DO NOT OVERSIZE HOLES IN STEEL TO FIT ANY CAST-IN-PLACE OR POST-INSTALLED ANCHORS WITHOUT APPROVAL IN WRITING BY RJC.

STRUCTURAL STEEL SYMBOLS

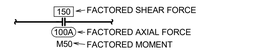
1. FRAMING AND BRACING:

STEEL COLUMN: I □ O
STEEL ANGLE:
STEEL BEAM/GIRDER:
SECONDARY STEEL:
OWSJ:
OWSJ BRIDGING:
STEEL TRUSS:
STEEL BRACE:



2. LOADING DEFINITIONS AND SPECIAL CONNECTIONS:
   A. "A" AXIAL FORCE SUFFIX (E.G. 150A) DENOTES COMPRESSION / TENSION FORCE.
   B. "C" AXIAL FORCE SUFFIX (E.G. 100C) DENOTES COMPRESSION FORCE.
   C. "T" AXIAL FORCE SUFFIX (E.G. 100T) DENOTES TENSION FORCE.
   D. "M" STRONG AXIS MOMENT PREFIX (M100) DENOTES CONNECTION DESIGN MOMENT.
3. TYPICAL BEAM INFORMATION:

4. GIRDER SPLICE:



5. MOMENT CONNECTIONS:



MOMENT CONNECTION FORCES PREFIXED WITH "M" ARE DESIGN MOMENTS. SEE PLAN FOR CONNECTION FORCES. PROVIDE FULL CAPACITY MOMENT CONNECTION WHERE FORCE IS NOT SPECIFIED.

6. BEAM CANTILEVERING OVER COLUMN:



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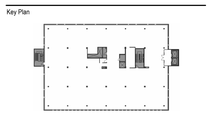
Key Plan



Professional Seals



No.	Description	Date
1	ISSUED FOR PERMIT & TENDER	2026-10-29

Project No: TOR.106261.0021

Sheet Title

GENERAL NOTES & TYPICAL DETAILS

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Sheet Number

S101

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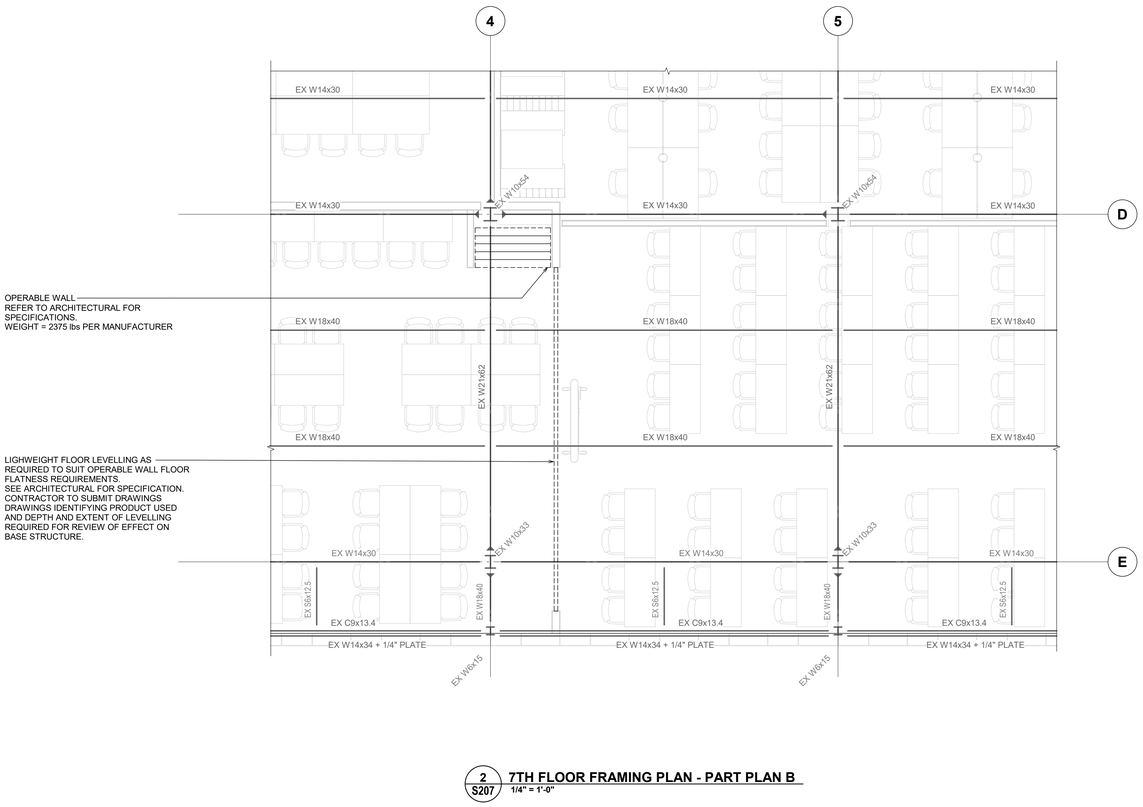

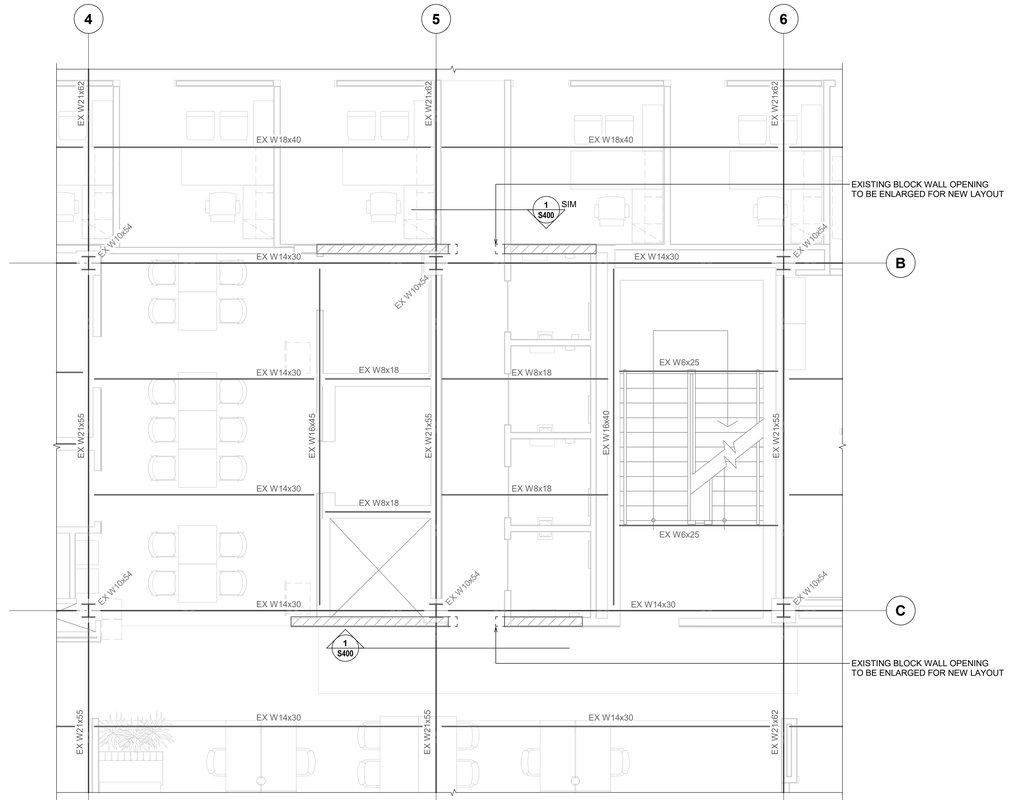

2 S207 7TH FLOOR FRAMING PLAN - PART PLAN B

1/4" = 1'-0"

1 S207 7TH FLOOR FRAMING PLAN - PART PLAN A

1/4" = 1'-0"

PLAN NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR CONFIRMATION OF ALL DIMENSIONS AND ELEVATIONS.
2. READ IN CONJUNCTION WITH THE GENERAL NOTES AND TYPICAL DETAILS (S100 SERIES DRAWINGS) AND ANY DRAWINGS REFERENCED ON PLAN.
3. EXISTING FLOOR STRUCTURE IS STRUCTURAL STEEL WITH 64mm ON 38mm x 0.91mm COMPOSITE STEEL DECK REINFORCED WITH 10M 305mm E.W. TOP. TYPICAL TOP OF FLOOR STEEL 4" BELOW FINISHED FLOOR ELEVATION.
4. DESIGN LOADS PER EXISTING STRUCTURE DRAWINGS:
   - LIVE LOAD = 7.2kPa
5. THIS STRUCTURE WILL UNDERGO NORMAL TYPES OF MOVEMENT AND DEFLECTION, AND THE FOLLOWING ARE ESTIMATES FOR THIS STRUCTURE PERTAINING TO THE OPERABLE WALL AND WERE ASSESSED ON THE BASIS OF A CLASSROOM LIVE LOAD OF 2.4kPa:
   - LIVE LOAD DEFLECTION OF FLOOR STRUCTURE ALONG THE OPERABLE WALL : CALCULATED DEFLECTION LESS THAN 13mm.

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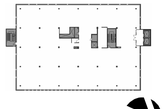

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No.	Description	Date
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Project No: TOR.106251.0021

Sheet Title
7TH FLOOR PART PLANS

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Sheet Number
S207

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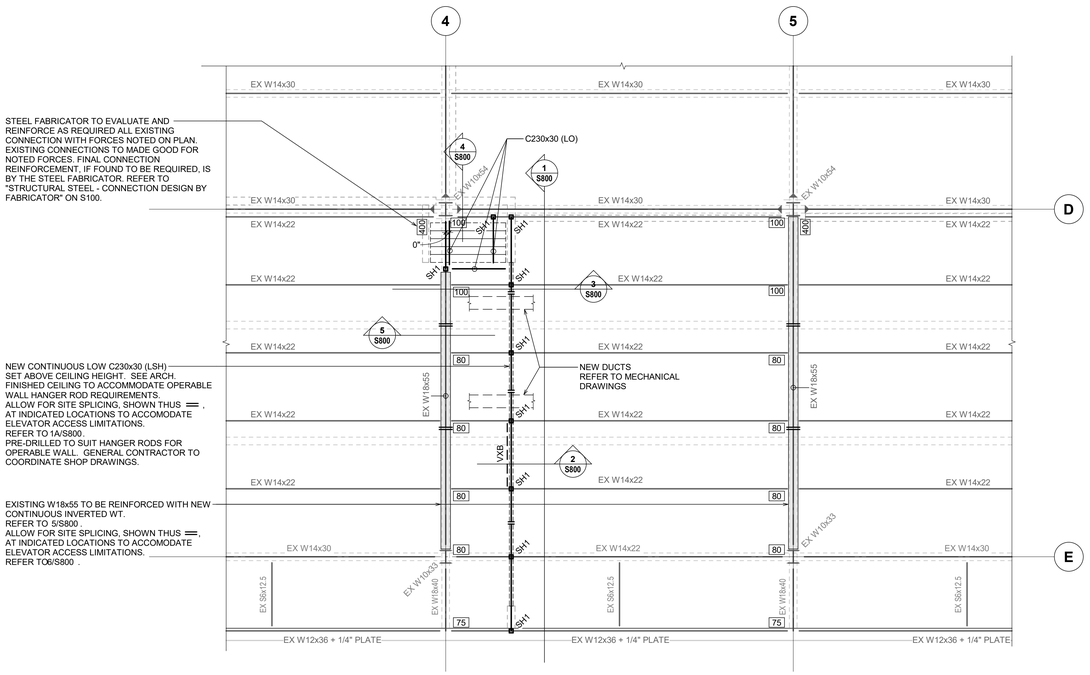


1 S208 8TH FLOOR FRAMING PLAN - PART PLAN A

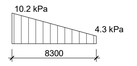
1/4" = 1'-0"

STEEL HANGER SCHEDULE		
MARK	SIZE	COMMENTS
SH1	HSS76x76x6.4	

PLAN NOTES:

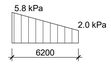
1. REFER TO ARCHITECTURAL DRAWINGS FOR CONFIRMATION OF ALL DIMENSIONS AND ELEVATIONS.
2. READ IN CONJUNCTION WITH THE GENERAL NOTES AND TYPICAL DETAILS (S100 SERIES DRAWINGS) AND ANY DRAWINGS REFERENCED ON PLAN.
3. EXISTING FLOOR STRUCTURE IS STRUCTURAL STEEL WITH 38mm STEEL DECK REINFORCED WITH 10M 305mm E.W. TOP. TYPICAL TOP OF FLOOR STEEL 4" BELOW FINISHED FLOOR ELEVATION.
4. DESIGN LOADS PER EXISTING STRUCTURE DRAWINGS:
   - LIVE LOAD = 2.4kPa + SNOW PILE UP

   EXISTING SNOW DESIGN LOAD: (AROUND MECHANICAL PENTHOUSE)

5. SNOW LOADS WERE CALCULATED IN ACCORDANCE WITH OBC 2024 FOR THE PURPOSES OF DETERMINING THE DEFLECTIONS OF THE ROOF STRUCTURE SUPPORTING THE OPERABLE WALL.

   REVISED SNOW DESIGN LOAD:

6. THIS STRUCTURE WILL UNDERGO NORMAL TYPES OF MOVEMENT AND DEFLECTION, AND THE FOLLOWING ARE ESTIMATES FOR THIS STRUCTURE PERTAINING TO THE OPERABLE WALL SUPPORT STRUCTURE.
   - LIVE, SNOW, DEAD LOAD OF WALL DEFLECTION OF STRUCTURAL SUPPORT ALONG THE OPERABLE WALL : CALCULATED DEFLECTION LESS THAN 13mm

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Project No: TOR.106261.0021

Sheet Title
8TH FLOOR PART PLANS

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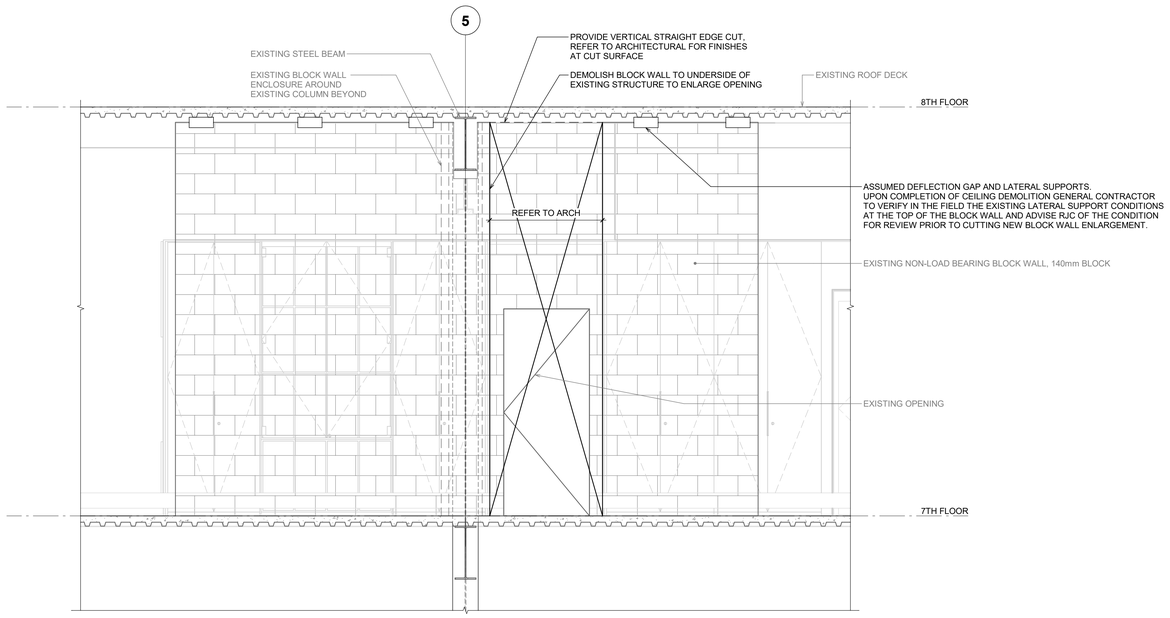

1 S400 **BLOCK WALL OPENING ENLARGEMENT ELEVATION**
1/2" = 1'-0"

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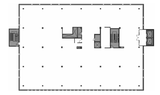

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Project No: TOR.106261.0021

Sheet Title
ELEVATIONS

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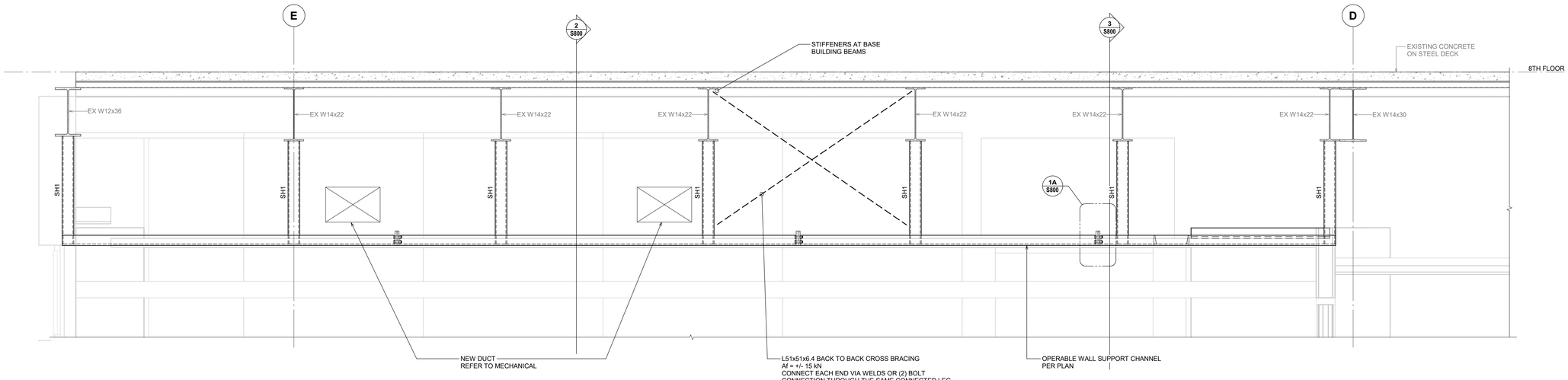
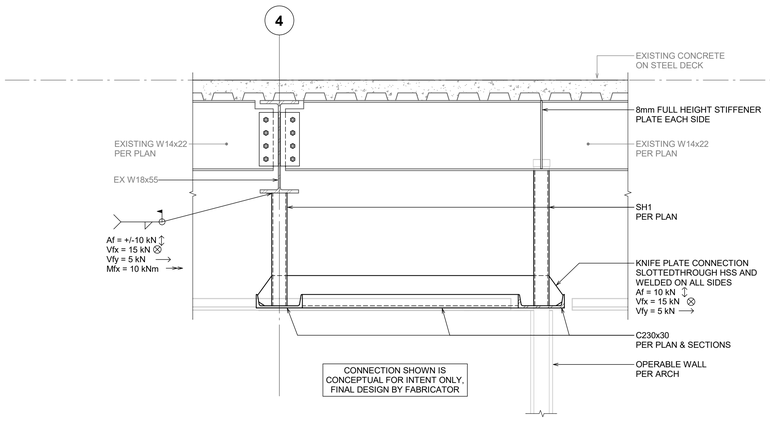
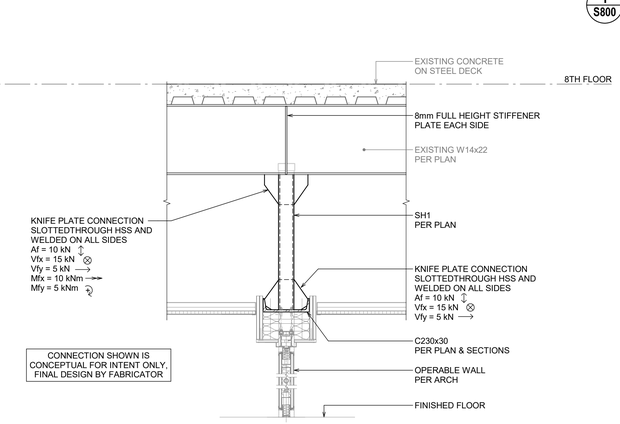


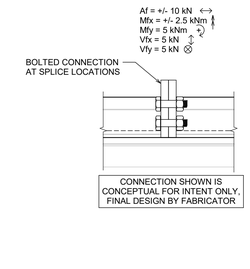
1 S800 OPERABLE WALL FRAMING ELEVATION
1" = 1'-0"



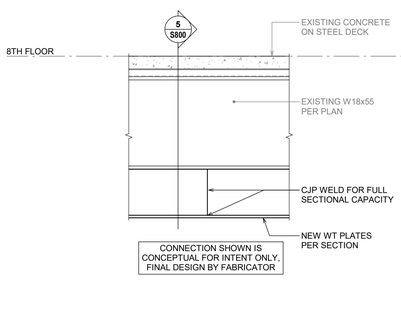
3 S800 HANGER AND CHANNEL SYSTEM STACKED POSITION
1" = 1'-0"



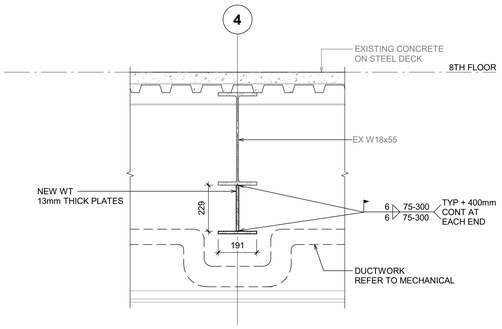
2 S800 HANGER AND CHANNEL SYSTEM WALL EXTENDED
1" = 1'-0"



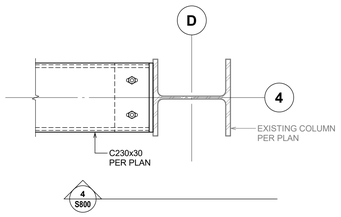
1A S800 TYPICAL CHANNEL SPLICE DETAIL
3" = 1'-0"



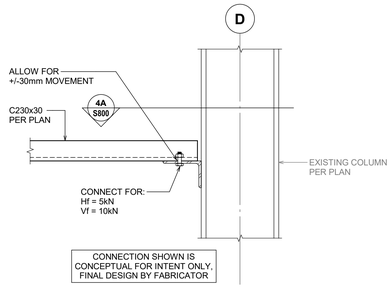
6 S800 WELDED SPLICE OF WT PLATES
1" = 1'-0"



5 S800 WELDED PLATE SECTIONS TO W18x55
1" = 1'-0"



4A S800 PLAN
1 1/2" = 1'-0"



4 S800 COLUMN TO CHANNEL CONNECTION
1 1/2" = 1'-0"

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SECTIONS & DETAILS

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