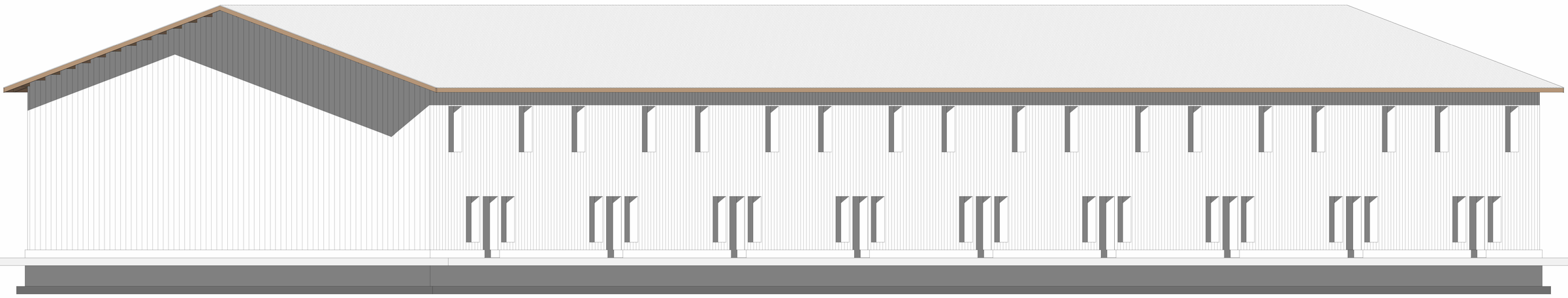


SAFRENE CONSTRUCTION - PROPOSED CRU BUILDING

CONSTRUCTION DOCUMENTS - ISSUED FOR REVIEW

BRANT SAFINUK

LAND DESCRIPTION: BLK/PAR O-PLAN 102468753 EXT 0, SOURCE QUARTER SECTION: SW-29-17-18-2
RM OF EDENWOLD NO.158

NOTES:
1. MODEL SHOWN FOR VISUAL PURPOSES ONLY - MAY VARY FROM CONSTRUCTION DRAWINGS

KIRAS

BRANT SAFINUK RETAINED KIRAS ENGINEERING LTD. TO PROVIDE PROFESSIONAL BUILDING DESIGN SERVICES FOR A PROPOSED OFFICE & SHOP BUILDING AND A PROPOSED COMMERCIAL RENTAL UNIT BUILDING WITH APPROXIMATELY 8 UNITS.

THE OFFICE & SHOP BUILDING WILL BE UTILIZED BY SAFRANE CONSTRUCTION LTD. AND WILL INCLUDE A RECEPTION AREA, A BOARDROOM/MEETING ROOM, OFFICE, AND A SHOP FOR VEHICLE AND EQUIPMENT STORAGE. BUILDINGS ARE ASSUMED TO BE DESIGNED F-2 MEDIUM HAZARD INDUSTRIAL OCCUPANCIES

S000
CD - A1

GENERAL NOTES

1. THE BUILDING IS DESIGNED IN ACCORDANCE WITH AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS, STANDARDS, AND LOCAL BY-LAWS.
2. ALL WORK TO BE COMPLETED THAT IS OUTSIDE THE SCOPE OF THESE DRAWINGS MUST BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER CONTRACTOR/CLIENT IS RESPONSIBLE FOR THE COORDINATION OF ALL TRADES INCLUDING PLUMBING, ELECTRICAL, CONCRETE WORK, ETC THAT IS NOT TO BE COMPLETED BY THE GENERAL CONTRACTOR. KIRAS ENGINEERING LTD WILL NOT BE RESPONSIBLE FOR COORDINATION OF TRADES OR ENSURING THE ADHERENCE OF THE WORK COMPLETED BY THESE TRADES TO THE APPLICABLE CODES.
3. ALL WORK IS TO BE CARRIED OUT WITH GOOD WORKMANSHIP THAT MEETS ACCEPTABLE INDUSTRY STANDARDS.
4. CONSTRUCTION SAFETY IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
5. DO NOT SCALE DRAWINGS.
6. CONTRACTOR IS TO VERIFY ALL DIMENSIONS, ELEVATIONS, SLOPES, DETAILS, SITE CONDITIONS, GRADE, ETC SHOWN ON THE DRAWINGS PRIOR TO CONSTRUCTION OR PREFABRICATION OF ANY BUILDING COMPONENTS.
7. DISCREPANCIES OR AMBIGUITIES ON THE DRAWINGS AND/OR THE SITE, WHICH AFFECT THE BUILDING'S STRUCTURE, SHALL BE REPORTED IMMEDIATELY TO THE AUTHORIZING ENGINEER OF RECORD. ALTERATIONS OR SUBSTITUTIONS MUST BE AUTHORIZED IN WRITING BY THE AUTHORIZING ENGINEER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL NECESSARY SHORING AND BRACING REQUIRED TO KEEP THE WORK, FORM WORK OR NEW CONSTRUCTION SAFE. THIS IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR IS RESPONSIBLE FOR ADVISING KIRAS ENGINEERING LTD WHEN THE BUILDING HAS BEEN COMPLETED TO ALLOW FOR A TIMELY REVIEW OF CONSTRUCTION AND PROCESSING OF APPLICABLE SITE REPORTS AND FINAL CERTIFICATION. KIRAS WILL NOT BE HELD RESPONSIBLE FOR MISSED INSPECTIONS OR INTRUSIVE INVESTIGATION WORK REQUIRED TO COMPLETE A REQUIRED INSPECTION.
10. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL PRIVATE AND PUBLIC UTILITY LOCATES HAVE BEEN COMPLETED AND STILL CURRENT PRIOR TO THE START OF CONSTRUCTION

ABBREVIATIONS

ARCH	ARCHITECTURAL	DP	DEEP	L.D.H	LONG DIMENSION HORIZONTAL	SCH	SCHEDULE
B.U.	BUILT UP	DWG	DRAWING	L.D.V	LONG DIMENSION VERTICAL	SECT	SECTION
B.L.L.	BOTTOM LOWER LAYER	E.F	EACH FACE	L.L.H.	LONG LEG HORIZONTAL	SHTG	SHEATHING
B.U.L.	BOTTOM UPPER LAYER	E.W	EACH WAY	L.L.V.	LONG LEG VERTICAL	SIM	SIMILAR
BD	BOARD	E/W	EACH WAY	LOC	LOCATION	SQFT	SQUARE FOOT
BLDG	BUILDING	ELEV	ELEVATION	MACH	MACHINE ROOM	SQM	SQUARE METER
BLKG	BLOCKING	EQ	EQUIVALENT	MAX	MAXIMUM	STD	STANDARD
BOT	BOTTOM	EXT	EXTERIOR	MFR	MANUFACTURER	STOR	STORAGE
B/W	BOTH WAYS	F/B	FULL WEIGHT	MID	MIDDLE	STRL	STRUCTURAL
BRG	BEARING	F/O	FACE OF	MIN.	MINUTES (TIME)	T.L.L	TOP LOWER LAYER
C	CENTRE LINE	FB	FLAT BAR	MIN	MINIMUM	T.U.L	TOP UPPER LAYER
C/W	COMPLETE WITH	FND	FOUNDATION	NIC	NOT IN CONTRACT	T&G	TONGUE & GROOVE
CANT	CANTILEVER	FLR	FLOOR	NO.	NUMBER	T&B	TOP & BOTTOM
C.J	CONTROL JOINT	FTG	FOOTING	O/C	ON CENTER	THKG	THICKENING
COL	COLUMN	GALV	GALVANIZED	OD	OUTSIDE DIAMETER	THRU	THROUGH
COMP	COMPACTED	G.L.	GRID LINE	P.C.	PROJECT COORDINATOR	TS	TIE ASSY
CONC	CONCRETE	H/C	HANDICAPPED	PRE ENG	PRE ENGINEERED	T/O	TOP OF
CONN	CONNECTION	HDR	HEADER (BEAM)	PREFAB	PREFABRICATED	TYP	TYPICAL
CONT	CONTINUOUS	HSS	HOUSE (PIPE)	PROJ	PROJECTION	U/S	UNDERSIDE
CORR	CORROSION	HT	HEIGHT	PTD	PAINTED	UNO	UNLESS NOTED OTHERWISE
CPAN	CORRUGATED WIRE MAIL	INSUL	INSULATION	P.L	PROPERTY LINE	U.T.R	UNIVERSAL TRUCT ROOM
DIA	DIAMETER	ID	INSIDE DIAMETER	RF	REFERENCE POINT	VERT	VERTICAL
DIAG	DIAGONAL	INT	INTERIOR	R/W	REINFORCED WITH	W/	WITH
DS	DOWNSPOUT	LG	LONG	RWL	RAIN WATER LEADER	WP	WEATHERPROOF
DTL	DETAIL			REINF	REINFORCING	W/R	WASHROOM
				REQD	REQUIRED		

SECTION 03 10 00 - CONCRETE FORMING AND ACCESSORIES

Part 1: General

1.1 **Scope**
1. Provide all labor, materials, equipment, and services necessary to complete concrete forming and accessories as specified.

1.2 **References**
1. National Building Code of Canada (NBCC) 2020.
2. CSA A23.1-19: Concrete Materials and Methods of Concrete Construction.
3. CSA A23.2-19: Test Methods and Standard Practices for Concrete.
4. Related NMS Specifications:
   1. 03 20 00 - Concrete Reinforcing: For reinforcement materials and installation.
   2. 03 30 00 - Cast-in-Place Concrete: For concrete placement and finishing.
   3. 03 40 00 - Precast Concrete: For precast concrete elements.
   4. 03 60 00 - Grouting: For grouting requirements.

1.3 **Submittals**
1. Submit shop drawings for formwork, including details of construction, materials, and accessories.
2. Provide product data for formwork accessories.

1.4 **Quality Assurance**
1. Formwork design and installation to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.

Part 2: Products

2.1 **Formwork Materials**
1. Formwork panels: Plywood, steel, or other approved materials capable of producing smooth, uniform surfaces.
2. Form ties: Adjustable, removable or snap-off metal ties, designed to prevent deflection and maintain alignment.

2.2 **Formwork Accessories**
1. Form release agent: Non-staining, non-residual, and compatible with concrete.
2. Chamfer strips: Wood, metal, or PVC, to provide beveled edges on exposed concrete corners.

Part 3: Execution

3.1 **Installation**
1. Erect formwork to shapes, lines, and dimensions indicated on the drawings.
2. Ensure formwork is clean and free of debris before placing concrete.
3. Apply form release agent uniformly to form surfaces.

3.2 **Form Removal**
1. Remove forms without damaging concrete surfaces.
2. Timing of form removal to comply with CSA A23.1-19 requirements.

3.3 **Tolerances**
1. Construct formwork to maintain tolerances as specified in CSA A23.1-19.

3.4 **Cleaning and Protection**
1. Clean formwork materials for reuse.
2. Protect adjacent surfaces from damage during formwork removal.

End of Section

SECTION 03 11 19 - INSULATING CONCRETE FORMING

Part 1: General

1.1 Scope
1. Provide all labor, materials, equipment, and services necessary to complete insulating concrete forming as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CSA A23.1-19: Concrete Materials and Methods of Concrete Construction.
3. CSA A23.2-19: Test Methods and Standard Practices for Concrete.
4. CSA S701: Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.
5. Related NMS Specifications:
   1. 03 20 00 - Concrete Reinforcing: For reinforcement materials and installation.
   2. 03 30 00 - Cast-in-Place Concrete: For concrete placement and finishing.
   3. 07 21 13 - Board Insulation: For insulation requirements.

1.3 Submittals
1. Submit shop drawings for insulating concrete forms (ICFs), including details of construction, materials, and accessories.
2. Provide product data for ICF systems and accessories.

1.4 Quality Assurance
1. ICF design and installation to be performed by qualified personnel.
2. Mock-up: Construct mock-ups as required to demonstrate quality of work.

Part 2: Products

2.1 Insulating Concrete Forms (ICFs)
1. Form units: Expanded polystyrene (EPS) or extruded polystyrene (XPS) foam blocks or panels, interlocking, and capable of providing continuous insulation.
2. Thermal Resistance (R-value): Minimum R-5 per inch.
3. Compressive Strength: Minimum 140 kPa (20 psi) for XPS, 70 kPa (10 psi) for EPS.
4. Thickness: As indicated on drawings.

2.2 Accessories
1. Form ties: Plastic or metal ties designed to maintain alignment and prevent deflection.
2. Form release agent: Non-staining, non-residual, and compatible with concrete.
3. Reinforcement: As specified in Section 03 20 00 - Concrete Reinforcing.

Part 3: Execution

3.1 Installation
1. Erect ICFs to shapes, lines, and dimensions indicated on the drawings.
2. Ensure ICFs are clean and free of debris before placing concrete.
3. Apply form release agent uniformly to form surfaces where required.
4. Install reinforcement as specified in Section 03 20 00 - Concrete Reinforcing.

3.2 Concrete Placement
1. Place concrete in accordance with Section 03 30 00 - Cast-in-Place Concrete.
2. Ensure proper consolidation of concrete within ICFs to avoid voids and honeycombing.

3.3 Form Removal
1. Remove forms without damaging concrete surfaces.
2. Timing of form removal to comply with CSA A23.1-19 requirements.

3.4 Tolerances
1. Construct ICFs to maintain tolerances as specified in CSA A23.1-19.

3.5 Cleaning and Protection
1. Clean ICF materials for reuse where applicable.
2. Protect adjacent surfaces from damage during formwork removal.

End of Section

SECTION 03 20 00 - CONCRETE REINFORCING

Part 1: General

1.1 Scope
1. Provide all labor, materials, equipment, and services necessary to complete concrete reinforcing as specified.

1.2 References
2. National Building Code of Canada (NBCC) 2020.
3. CSA A23.1-19: Concrete Materials and Methods of Concrete Construction.
4. CSA A23.2-19: Test Methods and Standard Practices for Concrete.
5. CSA G30.18: Carbon Steel Bars for Concrete Reinforcement.
6. Related NMS Specifications:
   1. 03 10 00 - Concrete Forming and Accessories: For formwork requirements.
   2. 03 30 00 - Cast-in-Place Concrete: For concrete placement and finishing.
   3. 03 40 00 - Precast Concrete: For precast concrete elements.

1.3 Submittals
1. Submit shop drawings for reinforcing steel, including details of bar placement, bending, and splicing.
2. Provide product data for reinforcing materials and accessories.

1.4 Quality Assurance
1. Reinforcing steel fabrication and installation to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.

Part 2: Products

2.1 Reinforcing Materials
1. Reinforcing bars: Deformed steel bars conforming to CSA G30.18.
2. Welded wire fabric: Conforming to CSA G30.5.
3. Bar supports: Plastic or metal chairs, spacers, and ties as required to maintain position and cover.

2.2 Accessories
4. Mechanical splices: As approved, conforming to CSA A23.3.
5. Epoxy coating: Where specified, conforming to CSA G30.18.

Part 3: Execution

3.1 Fabrication
1. Fabricate reinforcing steel in accordance with CSA A23.1 and the approved shop drawings.
2. Bend bars cold to the shapes indicated on the drawings.

3.2 Installation
1. Place reinforcing steel accurately in the positions indicated on the drawings.
2. Secure reinforcing steel with ties, chairs, spacers, and other supports to prevent displacement during concrete placement.
3. Maintain specified concrete cover to reinforcement.

3.3 Splicing
1. Splice reinforcing bars only where indicated on the drawings or approved by the Engineer.
2. Use mechanical splices or lap splices as specified.

3.4 Inspection
1. Inspect reinforcing steel placement for compliance with specifications and drawings before concrete placement.
2. Correct any deficiencies before proceeding with concrete placement.

3.5 Cleaning and Protection
1. Clean reinforcing steel of loose rust, mill scale, dirt, and other contaminants before placing concrete.
2. Protect installed reinforcing steel from damage during construction.

End of Section

SECTION 03 30 00 - CAST-IN-PLACE CONCRETE

Part 1: General

1.1 Scope
1. Provide all labor, materials, equipment, and services necessary to complete cast-in-place concrete as specified.

1.2 References
2. National Building Code of Canada (NBCC) 2020.
3. CSA A23.1-19: Concrete Materials and Methods of Concrete Construction.
4. CSA A23.2-19: Test Methods and Standard Practices for Concrete.
5. CSA A23.3-19: Design of Concrete Structures.
6. Related NMS Specifications:
   1. 03 10 00 - Concrete Forming and Accessories: For formwork requirements.
   2. 03 20 00 - Concrete Reinforcing: For reinforcement materials and installation.
   3. 03 40 00 - Precast Concrete: For precast concrete elements.

1.3 Submittals
1. Submit mix design for each class of concrete, including proportions, admixtures, and test results.
2. Provide product data for concrete materials and admixtures.
3. Submit test reports for concrete strength and other specified properties.

1.4 Quality Assurance
1. Concrete work to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify concrete properties.

Part 2: Products

2.1 Concrete Materials
1. Cement: Portland cement conforming to CSA A3001.
2. Aggregates: Conforming to CSA A23.1.
3. Water: Clean and potable, free from harmful substances.
4. Admixtures: As approved, conforming to CSA A23.1.

2.2 Concrete Mixes
1. Mix design: Proportioned to achieve specified strength, workability, and durability.
2. Strength: Minimum compressive strength as indicated on drawings.
3. Slump: As specified, to ensure proper placement and compaction.

Part 3: Execution

3.1 Preparation
1. Verify that formwork, reinforcement, and embedded items are correctly placed and secure.
2. Ensure surfaces are clean, free of debris, and properly prepared for concrete placement.

3.2 Placing Concrete
1. Place concrete in accordance with CSA A23.1 and the approved mix design.
2. Deposit concrete continuously to avoid cold joints.
3. Consolidate concrete using appropriate methods to eliminate voids and ensure proper compaction.

3.3 Finishing
1. Finish concrete surfaces as specified, using approved methods and tools.
2. Apply curing methods to maintain moisture and temperature conditions for proper hydration and strength development.

3.4 Curing and Protection
1. Cure concrete in accordance with CSA A23.1 requirements.
2. Protect concrete from damage due to weather, construction activities, and other factors.

3.5 Testing and Inspection
1. Perform field tests for slump, air content, and compressive strength as required.
2. Inspect concrete work for compliance with specifications and drawings.

3.6 Repair and Patching
1. Repair any defects in concrete surfaces as directed by the Engineer.
2. Use approved materials and methods for patching and repair.

SECTION 03 35 00 - CONCRETE FINISHING

Part 1: General

1.1 Scope
1. Provide all labor, materials, equipment, and services necessary to complete concrete finishing as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CSA A23.1-19: Concrete Materials and Methods of Concrete Construction.
3. CSA A23.2-19: Test Methods and Standard Practices for Concrete.
4. Related NMS Specifications:
   1. 03 10 00 - Concrete Forming and Accessories: For formwork requirements.
   2. 03 20 00 - Concrete Reinforcing: For reinforcement materials and installation.
   3. 03 30 00 - Cast-in-Place Concrete: For concrete placement and finishing.

1.3 Submittals
1. Submit product data for finishing materials and tools.
2. Provide samples of finished concrete surfaces if required.

1.4 Quality Assurance
1. Concrete finishing to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify surface finish quality.

Part 2: Products

2.1 Finishing Materials
1. Curing compounds: Conforming to CSA A23.1.
2. Sealers and hardeners: As approved, compatible with concrete surfaces.

2.2 Tools and Equipment
1. Finishing tools: Trowels, floats, edgers, and other tools as required for specified finishes.
2. Mechanical equipment: Power trowels, screeds, and other equipment as necessary.

Part 3: Execution

3.1 Preparation
1. Verify that concrete surfaces are properly prepared and free of debris.
2. Ensure that formwork and reinforcement are secure and correctly placed.

3.2 Placing and Finishing Concrete
1. Place concrete in accordance with Section 03 30 00 - Cast-in-Place Concrete.
2. Begin finishing operations immediately after concrete placement and consolidation.
3. Use appropriate tools and techniques to achieve specified finishes.

3.3 Finishing Methods
1. Trowel Finish: Apply trowel finish to interior slabs as specified.
2. Float Finish: Apply float finish to exterior slabs and surfaces as specified.
3. Broom Finish: Apply broom finish to exterior walkways and ramps as specified.
4. Exposed Aggregate Finish: Apply exposed aggregate finish where indicated on drawings.

3.4 Curing and Protection
1. Cure concrete surfaces in accordance with CSA A23.1 requirements.
2. Protect finished surfaces from damage due to weather, construction activities, and other factors.

3.5 Testing and Inspection
1. Inspect finished concrete surfaces for compliance with specifications and drawings.
2. Perform field tests for surface hardness, flatness, and other specified properties.

3.6 Repair and Patching
1. Repair any defects in finished concrete surfaces as directed by the Engineer.
   Use approved materials and methods for patching and repair.

End of Section

SECTION 03 35 46 - CONCRETE TOPICAL TREATMENTS

Part 1: General

1.1 Scope
1. Provide all labor, materials, equipment, and services necessary to complete concrete topical treatments as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CSA A23.1-19: Concrete Materials and Methods of Concrete Construction.
3. CSA A23.2-19: Test Methods and Standard Practices for Concrete.
4. Related NMS Specifications:
   1. 03 10 00 - Concrete Forming and Accessories: For formwork requirements.
   2. 03 20 00 - Concrete Reinforcing: For reinforcement materials and installation.
   3. 03 30 00 - Cast-in-Place Concrete: For concrete placement and finishing.
   4. 03 35 00 - Concrete Finishing: For finishing requirements.

1.3 Submittals
1. Submit product data for topical treatments, including application instructions.
2. Provide samples of treated concrete surfaces if required.

1.4 Quality Assurance
1. Topical treatments to be applied by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify treatment effectiveness.

Part 2: Products

2.1 Topical Treatments
1. Sealers: Penetrating or film-forming sealers as specified, compatible with concrete surfaces.
2. Hardeners: Chemical hardeners to increase surface hardness and durability.
3. Densifiers: Silicate-based densifiers to improve surface density and resistance to wear.
4. Stains and Dyes: Color treatments for aesthetic purposes, compatible with concrete surfaces.

2.2 Accessories
1. Application tools: Brushes, rollers, sprayers, and other tools as required for specified treatments.
2. Cleaning agents: As recommended by treatment manufacturer, compatible with concrete surfaces.

Part 3: Execution

3.1 Preparation
1. Verify that concrete surfaces are properly cured, clean, and free of contaminants.
2. Ensure that formwork and reinforcement are secure and correctly placed.

3.2 Application of Topical Treatments
1. Apply topical treatments in accordance with manufacturers instructions and CSA A23.1 requirements.
2. Ensure uniform coverage and penetration of treatments.
3. Allow sufficient drying and curing time as specified by the manufacturer.

3.3 Finishing
1. Finish treated surfaces as specified, using approved methods and tools.
2. Apply additional coats if required to achieve desired finish and performance.

3.4 Curing and Protection
1. Protect treated surfaces from damage due to weather, construction activities, and other factors.
2. Maintain curing conditions as specified by the treatment manufacturer.

3.5 Testing and Inspection
1. Inspect treated concrete surfaces for compliance with specifications and drawings.
2. Perform field tests for surface hardness, density, and other specified properties.

3.6 Repair and Patching
1. Repair any defects in treated concrete surfaces as directed by the Engineer.
2. Use approved materials and methods for patching and repair.

End of Section

SECTION 06 05 73 - WOOD TREATMENT

Part 1: General

1.1 Scope
1. Provide all labour, materials, equipment, and services necessary to complete wood treatment as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CSA O80 Series: Wood Preservation.
3. CSA O86: Engineering Design in Wood.
4. Related NMS Specifications:
   1. 06 10 00 - Rough Carpentry: For structural wood framing and sheathing.
   2. 06 20 00 - Finish Carpentry: For interior and exterior finish carpentry.
   3. 06 40 00 - Architectural Woodwork: For custom woodwork and cabinetry.

1.3 Submittals
1. Submit product data for wood treatment materials, including application instructions.
2. Provide samples of treated wood if required.

1.4 Quality Assurance
1. Wood treatment to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify treatment effectiveness.

Part 2: Products

2.1 Wood Treatment Materials
1. Preservatives: Conforming to CSA O80 Series, suitable for the intended use and exposure conditions.
2. Fire Retardants: Conforming to applicable standards, suitable for the intended use and exposure conditions.
3. Stains and Sealers: As specified, compatible with wood species and intended use.

2.2 Accessories
1. Application tools: Brushes, rollers, sprayers, and other tools as required for specified treatments.
2. Cleaning agents: As recommended by treatment manufacturer, compatible with wood surfaces.

Part 3: Execution

3.1 Preparation
1. Verify that wood surfaces are clean, dry, and free of contaminants.
2. Ensure that wood is properly prepared for treatment, including sanding or cleaning as necessary.

3.2 Application of Wood Treatments
1. Apply wood treatments in accordance with manufacturers instructions and CSA O80 Series requirements.
2. Ensure uniform coverage and penetration of treatments.
3. Allow sufficient drying and curing time as specified by the manufacturer.

3.3 Finishing
1. Finish treated wood surfaces as specified, using approved methods and tools.
2. Apply additional coats if required to achieve desired finish and performance.

3.4 Curing and Protection
1. Protect treated wood surfaces from damage due to weather, construction activities, and other factors.
2. Maintain curing conditions as specified by the treatment manufacturer.

3.5 Testing and Inspection
1. Inspect treated wood surfaces for compliance with specifications and drawings.
2. Perform field tests for treatment penetration, retention, and other specified properties.

3.6 Repair and Patching
1. Repair any defects in treated wood surfaces as directed by the Engineer.
2. Use approved materials and methods for patching and repair.

End of Section

SECTION 06 10 53 - MISCELLANEOUS ROUGH CARPENTRY

Part 1: General

1.1 Scope
1. Provide all labor, materials, equipment, and services necessary to complete miscellaneous rough carpentry as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CSA O86: Engineering Design in Wood.
3. CSA O141: Softwood Lumber.
4. Related NMS Specifications:
   1. 06 05 73 - Wood Treatment: For wood treatment requirements.
   2. 06 20 00 - Finish Carpentry: For interior and exterior finish carpentry.
   3. 06 40 00 - Architectural Woodwork: For custom woodwork and cabinetry.

1.3 Submittals
1. Submit product data for rough carpentry materials, including lumber and fasteners.
2. Provide shop drawings for any custom rough carpentry items if required.

1.4 Quality Assurance
1. Rough carpentry work to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify material properties and installation quality.

Part 2: Products

2.1 Materials
1. Type: Cellulose, fiberglass, or mineral wool loose-fill insulation.
2. Thermal Resistance (R-value): Minimum R-3.5 per inch.
3. Fire Resistance: Non-combustible, conforming to CAN/ULC-S703 or ASTM C764.

2.2 Accessories
1. Vapor Retarders: As specified, compatible with loose-fill insulation material.
2. Blowing Equipment: As recommended by insulation manufacturer for proper installation.

Part 3: Execution

3.1 Preparation
1. Verify that substrates and conditions are ready to receive loose-fill insulation.
2. Ensure surfaces are clean, dry, and free of contaminants.

3.2 Installation
1. Install loose-fill insulation in accordance with manufacturers instructions.
2. Use appropriate blowing equipment to ensure even distribution and proper density.
3. Fill cavities completely, ensuring no gaps or voids.

3.3 Protection
1. Protect installed insulation from damage during construction.
2. Ensure insulation remains dry and free from exposure to harmful substances.

3.4 Inspection
1. Inspect insulation installation for compliance with specifications.
2. Correct any deficiencies before proceeding with subsequent work.

3.5 Cleaning and Protection
1. Clean up debris and waste materials from insulation installation.
2. Protect installed insulation from damage during construction.

SECTION 07 21 29 - SPRAYED INSULATION

Part 1: General

1.1 Scope
1. Provide all labour, materials, equipment, and services necessary to supply and install sprayed insulation as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CAN/ULC-S705.1: Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density - Material Specification.
3. ASTM C1029: Standard Specification for Spray-Applied Rigid Cellular Polyurethane Thermal Insulation.
4. Related NMS Specifications:
   1. 06 10 53 - Miscellaneous Rough Carpentry: For structural framing and supports.
   2. 07 21 00 - Thermal Insulation: For general thermal insulation requirements.
   3. 07 27 00 - Air Barriers: For air barrier requirements.

1.3 Submittals
1. Submit product data for sprayed insulation materials, including installation instructions.
2. Provide samples of sprayed insulation if required.

1.4 Quality Assurance
1. Sprayed insulation work to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify material properties and installation quality.

Part 2: Products

2.1 Materials
1. Type: Closed-cell or open-cell spray polyurethane foam (SPF) insulation.
2. Thermal Resistance (R-value): Minimum R-6 per inch for closed-cell, R-3.5 per inch for open-cell.
3. Fire Resistance: Conforming to CAN/ULC-S705.1 or ASTM C1029.

2.2 Accessories
1. Vapor Retarders: As specified, compatible with sprayed insulation material.
2. Adhesives: Compatible with insulation and substrates.
3. Protective Coatings: As required for fire resistance or UV protection.

Part 3: Execution

3.1 Preparation
1. Verify that substrates and conditions are ready to receive sprayed insulation.
2. Ensure surfaces are clean, dry, and free of contaminants.

3.2 Installation
1. Install sprayed insulation in accordance with manufacturers instructions.
2. Apply insulation to the specified thickness, ensuring even coverage and proper adhesion.
3. Fit insulation tightly around penetrations and obstructions.
4. Apply protective coatings as required.

3.3 Protection
1. Protect installed insulation from damage during construction.
2. Ensure insulation remains dry and free from exposure to harmful substances.

3.4 Inspection
1. Inspect insulation installation for compliance with specifications.
2. Correct any deficiencies before proceeding with subsequent work.

3.5 Cleaning and Protection
1. Clean up debris and waste materials from insulation installation.
2. Protect installed insulation from damage during construction.

End of Section

SECTION 07 26 00 - VAPOUR RETARDERS

Part 1: General

1.1 Scope
1. Provide all labour, materials, equipment, and services necessary to supply and install vapour retarders as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CAN/ULC-S701: Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.
3. ASTM E96: Standard Test Methods for Water Vapor Transmission of Materials.
4. Related NMS Specifications:
   1. 06 10 53 - Miscellaneous Rough Carpentry: For structural framing and supports.
   2. 07 21 00 - Thermal Insulation: For general thermal insulation requirements.
   3. 07 27 00 - Air Barriers: For air barrier requirements.

1.3 Submittals
1. Submit product data for vapour retarder materials, including installation instructions.
2. Provide samples of vapour retarders if required.

1.4 Quality Assurance
1. Vapour retarder work to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify material properties and installation quality.

Part 2: Products

2.1 Materials
1. Vapour Retarders: Polyethylene sheeting, foil-faced kraft paper, or other approved materials conforming to CAN/ULC-S701 and ASTM E96.
2. Thickness: Minimum 6 mil (0.15 mm) for polyethylene sheeting, or as specified.

2.2 Accessories
1. Tape: Compatible with vapour retarder material for sealing joints and penetrations.
2. Adhesives: Compatible with vapour retarder and substrates.
3. Fasteners: Staples, nails, or other fasteners as recommended by the manufacturer.

Part 3: Execution

3.1 Preparation
1. Verify that substrates and conditions are ready to receive vapour retarders.
2. Ensure surfaces are clean, dry, and free of contaminants.

3.2 Installation
1. Install vapour retarders in accordance with manufacturers instructions.
2. Apply vapour retarders continuously over the entire surface to be protected, ensuring no gaps or voids.
3. Overlap seams by a minimum of 150 mm (6 inches) and seal with tape or adhesive as specified.
4. Fit vapour retarders tightly around penetrations and obstructions, sealing all edges.

3.3 Protection
1. Protect installed vapour retarders from damage during construction.
2. Ensure vapour retarders remain dry and free from exposure to harmful substances.

3.4 Inspection
1. Inspect vapour retarder installation for compliance with specifications.
2. Correct any deficiencies before proceeding with subsequent work.

3.5 Cleaning and Protection
1. Clean up debris and waste materials from vapour retarder installation.
2. Protect installed vapour retarders from damage during construction.

End of Section

SECTION 06 16 63 - SHOP FABRICATED WOOD TRUSSES

Part 1: General

1.1 Scope
1. Provide all labor, materials, equipment, and services necessary to complete shop fabricated wood trusses as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CSA O86: Engineering Design in Wood.
3. CSA O141: Softwood Lumber.
4. CSA S307: Load Test Procedure for Wood Roof Trusses.
5. Related NMS Specifications:
   1. 06 05 73 - Wood Treatment: For wood treatment requirements.
   2. 06 10 53 - Miscellaneous Rough Carpentry: For structural framing and supports.
   3. 06 20 00 - Finish Carpentry: For interior and exterior finish carpentry.

1.3 Submittals
1. Submit shop drawings for wood trusses, including details of design, fabrication, and installation.
2. Provide product data for truss materials and connectors.
3. Submit test reports for truss load capacity and other specified properties.

1.4 Quality Assurance
1. Wood trusses to be designed and fabricated by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify truss performance.

Part 2: Products

2.1 Materials
1. Lumber: Softwood lumber conforming to CSA O141, graded and stamped.
2. Truss Plates: Galvanized steel plates conforming to CSA S307.
3. Fasteners: Nails, screws, bolts, and other fasteners as required, galvanized or stainless steel for exterior use.

2.2 Accessories
1. Metal connectors: Joist hangers, post bases, and other connectors as required, galvanized or stainless steel for exterior use.
2. Adhesives: As recommended by manufacturer, compatible with wood and other materials.

Part 3: Execution

3.1 Preparation
1. Verify that substrates and conditions are ready to receive rough carpentry work.
2. Ensure that wood is properly stored and protected from moisture and damage.

3.2 Installation
1. Install rough carpentry in accordance with CSA O86 and the approved shop drawings.
2. Use appropriate tools and techniques to ensure accurate and secure installation.
3. Maintain specified tolerances and alignment.

3.3 Framing
1. Frame walls, floors, roofs, and other structures as indicated on the drawings.
2. Install blocking, bracing, and other supports as required for structural stability.

3.4 Fastening
1. Secure lumber and plywood with appropriate fasteners, ensuring proper penetration and spacing.
2. Use metal connectors where required for additional strength and stability.

3.5 Inspection
1. Inspect rough carpentry work for compliance with specifications and drawings.
2. Correct any deficiencies before proceeding with subsequent work.

3.6 Cleaning and Protection
1. Clean up debris and waste materials from rough carpentry work.
2. Protect installed rough carpentry from damage during construction.

End of Section

SECTION 06 20 00 - FINISH CARPENTRY

Part 1: General

1.1 Scope
1. Provide all labour, materials, equipment, and services necessary to complete finish carpentry as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CSA O86: Engineering Design in Wood.
3. CSA O141: Softwood Lumber.
4. Related NMS Specifications:
   1. 06 05 73 - Wood Treatment: For wood treatment requirements.
   2. 06 10 53 - Miscellaneous Rough Carpentry: For structural framing and supports.
   3. 06 40 00 - Architectural Woodwork: For custom woodwork and cabinetry.

1.3 Submittals
1. Submit product data for finish carpentry materials, including lumber, trim, and fasteners.
2. Provide shop drawings for any temporary shoring or bracing if required.
3. Submit sample sets of finish carpentry materials and finishes if required.

1.4 Quality Assurance
1. Finish carpentry work to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify material properties and installation quality.

Part 2: Products

2.1 Materials
1. Lumber: Softwood or hardwood lumber conforming to CSA O141, graded and stamped.
2. Trim: Mouldings, baseboards, casings, and other trim as specified.
3. Fasteners: Nails, screws, and other fasteners as required, suitable for interior or exterior use.

2.2 Accessories
1. Adhesives: As recommended by manufacturer, compatible with wood and other materials.
2. Finishes: Stains, paints, varnishes, and other finishes as specified, compatible with wood species and intended use.

End of Section

Part 3: Execution

3.1 Preparation
1. Verify that substrates and conditions are ready to receive finish carpentry work.
2. Ensure that wood is properly stored and protected from moisture and damage.

3.2 Installation
1. Install finish carpentry in accordance with CSA O86 and the approved shop drawings.
2. Use appropriate tools and techniques to ensure accurate and secure installation.
3. Maintain specified tolerances and alignment.

3.3 Trim Installation
1. Install trim, mouldings, baseboards, and casings as indicated on the drawings.
2. Secure trim with appropriate fasteners, ensuring proper penetration and spacing.
3. Install trim with tight joints and smooth surfaces, ready for finishing.

3.4 Finishing
1. Apply finishes to wood surfaces as specified, following manufacturers instructions.
2. Ensure uniform coverage and proper drying time.

3.5 Inspection
1. Inspect finish carpentry work for compliance with specifications and drawings.
2. Correct any deficiencies before proceeding with subsequent work.

3.6 Cleaning and Protection
1. Clean up debris and waste materials from finish carpentry work.
2. Protect installed finish carpentry from damage during construction.

End of Section

SECTION 31 00 00 - EARTHWORK

Part 1: General

1.1 Scope
1. Provide all labor, materials, equipment, and services necessary to complete earthwork as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CSA S350: Code of Practice for Safety in Demolition of Structures.
3. CSA A23.1-19: Concrete Materials and Methods of Concrete Construction.
4. Related NMS Specifications:
   1. 31 10 00 - Site Clearing: For clearing and grubbing requirements.
   2. 31 20 00 - Earth Moving: For excavation, backfilling, and grading.
   3. 31 23 00 - Excavation and Fill: For specific excavation and fill requirements.

1.3 Submittals
1. Submit product data for materials used in earthwork, including fill and backfill materials.
2. Provide shop drawings for any temporary shoring or bracing if required.
3. Submit test reports for soil compaction and other specified properties.

1.4 Quality Assurance
1. Earthwork to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify material properties and compaction.

Part 2: Products

2.1 Materials
1. Fill and Backfill: Suitable materials free from organic matter, debris, and other deleterious substances.
2. Gravel: Clean, well-graded gravel conforming to specified gradation requirements.
3. Sand: Clean, well-graded sand conforming to specified gradation requirements.

2.2 Accessories
1. Geotextiles: As specified, suitable for soil stabilization and separation.
2. Erosion Control: Materials such as silt fences, straw bales, and erosion control blankets as required.

Part 3: Execution

3.1 Preparation
1. Verify that site conditions are ready to receive earthwork operations.
2. Ensure that existing utilities and structures are protected from damage during earthwork.

3.2 Excavation
1. Excavate to the lines and grades indicated on the drawings.
2. Remove and dispose of unsuitable materials as specified.
3. Provide temporary shoring and bracing as required to ensure safety and stability.

3.3 Backfilling and Compaction
1. Place fill and backfill materials in layers not exceeding specified thickness.
2. Compact each layer to the specified density using appropriate equipment.
3. Perform field tests to verify compaction and adjust methods as necessary.

3.4 Grading
1. Grade the site to the lines and levels indicated on the drawings.
2. Ensure proper drainage and prevent ponding of water.

3.5 Erosion Control
1. Implement erosion control measures as specified to prevent soil erosion and sedimentation.
2. Maintain erosion control measures throughout the construction period.

3.6 Inspection
1. Inspect earthwork operations for compliance with specifications and drawings.
2. Correct any deficiencies before proceeding with subsequent work.

3.7 Cleaning and Protection
1. Clean up debris and waste materials from earthwork operations.
2. Protect completed earthwork from damage during construction.

End of Section

SECTION 31 05 16 - AGGREGATES FOR EARTHWORK

Part 1: General

1.1 Scope
1. Provide all labor, materials, equipment, and services necessary to supply and place aggregates for earthwork as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CSA A23.1-19: Concrete Materials and Methods of Concrete Construction.
3. CSA A23.2-19: Test Methods and Standard Practices for Concrete.
4. Related NMS Specifications:
   1. 31 00 00 - Earthwork: For general earthwork requirements.
   2. 31 20 00 - Earth Moving: For excavation, backfilling, and grading.
   3. 31 23 00 - Excavation and Fill: For specific excavation and fill requirements.

1.3 Submittals
1. Submit product data for aggregates, including gradation and material properties.
2. Provide test reports for aggregate quality and compliance with specified requirements.

1.4 Quality Assurance
1. Aggregates to be supplied by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify aggregate properties and compaction.

Part 2: Products

2.1 Materials
1. Aggregates: Clean, hard, durable particles of crushed stone, gravel, or sand, free from organic matter, clay, silt, and otherdeleterious substances.
2. Gradation: Aggregates to conform to specified gradation requirements for the intended use.

2.2 Types of Aggregates
1. Base Course: Well-graded aggregate conforming to specified gradation for base course applications.
2. Subbase: Coarse aggregate conforming to specified gradation for subbase applications.
3. Drainage Layer: Clean, uniformly graded aggregate for drainage applications.

Part 3: Execution

3.1 Preparation
1. Verify that site conditions are ready to receive aggregates.
2. Ensure that existing utilities and structures are protected from damage during aggregate placement.

3.2 Placement
1. Place aggregates in layers not exceeding specified thickness.
2. Spread and level aggregates using appropriate equipment to achieve uniform thickness and compaction.
3. Compact each layer to the specified density using appropriate equipment.

3.3 Compaction
1. Compact aggregates to the specified density using vibratory rollers, plate compactors, or other approved methods.
2. Perform field tests to verify compaction and adjust methods as necessary.

3.4 Grading
1. Grade the aggregate layers to the lines and levels indicated on the drawings.
2. Ensure proper drainage and prevent ponding of water.

3.5 Inspection
1. Inspect aggregate placement and compaction for compliance with specifications and drawings.
2. Correct any deficiencies before proceeding with subsequent work.

3.6 Cleaning and Protection
1. Clean up debris and waste materials from aggregate placement operations.
2. Protect placed aggregates from contamination and damage during construction.

End of Section

SECTION 31 23 33 - EXCAVATING, TRENCHING AND BACKFILLING

Part 1: General

1.1 Scope
1. Provide all labor, materials, equipment, and services necessary to complete excavating, trenching, and backfilling as specified.

1.2 References
1. National Building Code of Canada (NBCC) 2020.
2. CSA S350: Code of Practice for Safety in Demolition of Structures.
3. CSA A23.1-19: Concrete Materials and Methods of Concrete Construction.
4. Related NMS Specifications:
   1. 31 00 00 - Earthwork: For general earthwork requirements.
   2. 31 05 16 - Aggregates for Earthwork: For aggregate materials.
   3. 06 40 00 - Earth Moving: For excavation, backfilling, and grading.

1.3 Submittals
1. Submit product data for materials used in excavating, trenching, and backfilling.
2. Provide shop drawings for any temporary shoring or bracing if required.
3. Submit test reports for soil compaction and other specified properties.

1.4 Quality Assurance
1. Excavating, trenching, and backfilling to be performed by qualified personnel.
2. Mock-ups: Construct mock-ups as required to demonstrate quality of work.
3. Testing: Perform field tests as required to verify material properties and compaction.

Part 2: Products

2.1 Materials
1. Fill and Backfill: Suitable materials free from organic matter, debris, and other deleterious substances.
2. Gravel: Clean, well-graded gravel conforming to specified gradation requirements.
3. Sand: Clean, well-graded sand conforming to specified gradation requirements.

2.2 Accessories
1. Geotextiles: As specified, suitable for soil stabilization and separation.
2. Erosion Control: Materials such as silt fences, straw bales, and erosion control blankets as required.

Part 3: Execution

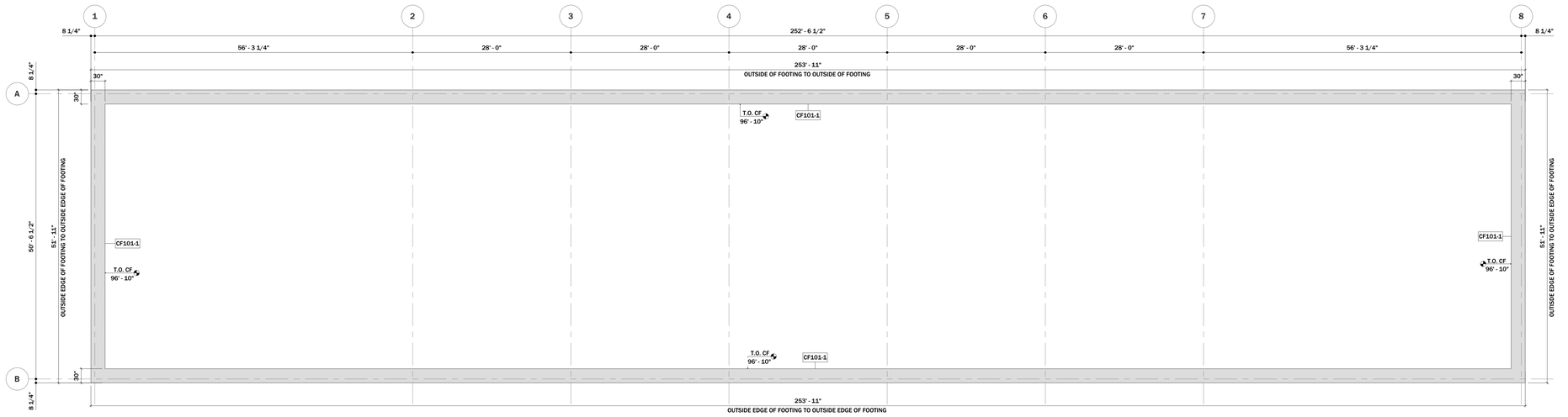
3.1 Preparation
1. Verify that site conditions are ready to receive excavating, trenching, and backfilling operations.
2. Ensure that existing utilities and structures are protected from damage during earthwork.

3.2 Excavation
1. Excavate to the lines and grades indicated on the drawings.
2. Remove and dispose of unsuitable materials as specified.
3. Provide temporary shoring and bracing as required to ensure safety and stability.

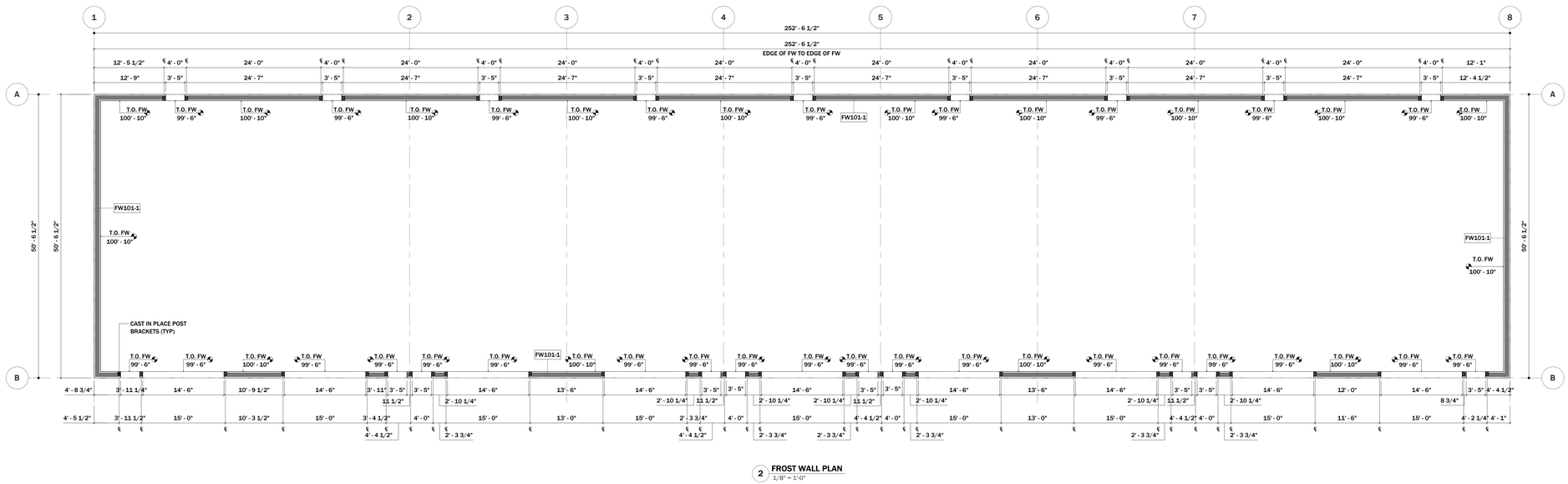
3.3 Trenching
1. Excavate trenches to the required depth and width as indicated on the drawings.
2. Ensure trench bottoms are smooth and free of loose material.
3. Provide trench protection as required to ensure safety and stability.

3.4 Backfilling and Compaction
1. Place fill and backfill materials in layers not exceeding specified thickness.
2. Compact each layer to the specified density using appropriate equipment.
3. Perform field tests to verify compaction and adjust methods as necessary.

3.5 Grading
1. Grade the site to the



1 **FOOTING PLAN**
1/8" = 1'-0"



2 **FROST WALL PLAN**
1/8" = 1'-0"

PLAN N

VIEW LEDGEND

- X' - X" — DIMENSION TO GRID LINE
- X' - X" — DIMENSION TO ELEMENT
- X' - X" — RUNNING DIMENSION & BASE POINT
- WOOD ELEMENT
- CONCRETE ELEMENT

KEY NOTES

NONE

KIRAS ENGINEERING

GENERAL NOTES

1. **CODES AND STANDARDS:** ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF APPLICABLE BUILDING CODES, LOCAL ORDINANCES, AND STANDARDS.
2. **DIMENSIONS:** VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE AUTHORIZING LICENSED PROFESSIONAL IMMEDIATELY.
3. **MATERIALS AND WORKMANSHIP:** ALL MATERIALS AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND IN ACCORDANCE WITH THE SPECIFICATIONS. ANY DEFECTIVE WORK MUST BE RECTIFIED AT THE CONTRACTORS EXPENSE.
4. **SOIL CONDITIONS:** VERIFY THAT SOIL CONDITIONS CONFORM TO THE GEOTECHNICAL REPORT. REPORT ANY VARIATIONS TO THE AUTHORIZING LICENSED PROFESSIONAL.
5. **CONCRETE:** USE THE SPECIFIED MIX DESIGN FOR ALL CONCRETE WORK. ENSURE PROPER CURING TIMES AND TECHNIQUES TO ACHIEVE DESIGNED STRENGTH.
6. **REINFORCEMENT:** PLACE AND SECURE ALL REINFORCEMENT BARS AS PER THE DRAWINGS AND SPECIFICATIONS. VERIFY CORRECT SIZES, SPACING, AND COVERAGE.
7. **FOUNDATIONS:** EXCAVATE AND PREPARE FOUNDATION AREAS ACCORDING TO PLANS. REMOVE ANY UNSUITABLE MATERIAL AND REPLACE WITH APPROVED FILL.
8. **BACKFILLING:** ENSURE PROPER BACKFILLING AND COMPACTION AROUND FOUNDATIONS TO PREVENT SETTLEMENT AND MAINTAIN STABILITY. OBTAIN PERMISSION FROM THE AUTHORIZING LICENSED PROFESSIONAL PRIOR TO BACKFILLING.
9. **UTILITIES:** CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. PROTECT AND MAINTAIN ALL UTILITIES DURING CONSTRUCTION.
10. **SAFETY:** FOLLOW ALL SAFETY REGULATIONS AND GUIDELINES. PROVIDE AND MAINTAIN NECESSARY SAFETY BARRIERS, SIGNAGE, AND PROTECTIVE EQUIPMENT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND COMPLYING WITH ON-SITE SAFETY REQUIREMENTS.
11. **SITE ACCESS:** ENSURE THAT SITE ACCESS POINTS, STAGING AREAS, AND STORAGE LOCATIONS ARE CLEARLY MARKED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
12. **CHANGES:** ANY CHANGES TO THE CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE AUTHORIZING LICENSED PROFESSIONAL.
13. **COORDINATION:** COORDINATE ALL WORK WITH OTHER DISCIPLINES AND TRADES AND ENSURE THAT ALL INSTALLATIONS DO NOT INTERFERE WITH EXISTING OR PLANNED WORK. ANY DISCREPANCIES BETWEEN DISCIPLINES ON DRAWINGS OR IN THE FIELD SHALL BE REPORTED TO THE AUTHORIZING LICENSED PROFESSIONAL IMMEDIATELY.
14. **INSPECTIONS:** SCHEDULE AND PERFORM ALL REQUIRED INSPECTIONS AS DICTATED BY LOCAL AUTHORITIES AND THE AUTHORIZING LICENSED PROFESSIONAL. NOTIFY THE AUTHORIZING LICENSED PROFESSIONAL A MINIMUM OF 72 HOURS PRIOR TO REQUESTING THE INSPECTION. DO NOT COVER ITEMS TO BE INSPECTED PRIOR TO INSPECTION.
15. **CLEAN UP:** MAINTAIN A CLEAN AND ORDERLY WORK SITE. REMOVE DEBRIS AND WASTE MATERIALS PROMPTLY.
16. **SUBMITTALS:** SUBMIT ALL REQUIRED SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES TO THE AUTHORIZING LICENSED PROFESSIONAL FOR REVIEW AND APPROVAL BEFORE FABRICATION OR INSTALLATION.

CONCRETE FOOTING (CF) SCHEDULE

MARK	WIDTH	DEPTH	PRIMARY REINFORCEMENT	SECONDARY REINFORCEMENT	CONCRETE TYPE	COMMENTS
CF101-1	30"	10"	3 - 15M CONTINUOUS & 10M LATERALS @ 24" O.C.	15M 24" x 8" DOWELS INTO FW	S-2	

CONCRETE FROST WALL (FW) SCHEDULE

MARK	TOTAL THICKNESS	CORE WIDTH	DEPTH	PRIMARY TOP REINFORCEMENT	PRIMARY BOT REINFORCEMENT	SECONDARY REINFORCEMENT	CONCRETE TYPE	COMMENTS
FW101-1	1' - 1 1/2"	8"	4' - 0"	2 - 15M	2 - 15M	1 - 10M PER COURSE STAGGERED & 10M VERTS @ 12" O.C.	F-2	

NO.	ISSUED FOR:	ISSUED DATE:	BY:
CD-P00	IFP	2026-01-09	TE
CD-A1	IFR	2025-12-18	TE

ISSUED DRAWINGS

SAFRENE CONSTRUCTION - PROPOSED CRU BUILDING

LAND DESCRIPTION: BLK/PAR G PLAN 102468753 EXT 0
SOURCE QUARTER SECTION: SW-29-17-18-2
RM OF EDENWOLD NO.158

BRANT SAFINUK
1-162 HUSUM RD
RM OF SHERWOOD, SK S4K 0A4

AUTHORIZATION

VALIDATION

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Kiras Engineering Ltd.
Number 02228
Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
STRUCT.	51629	
BLDG	51629	

FOUNDATION PLANS

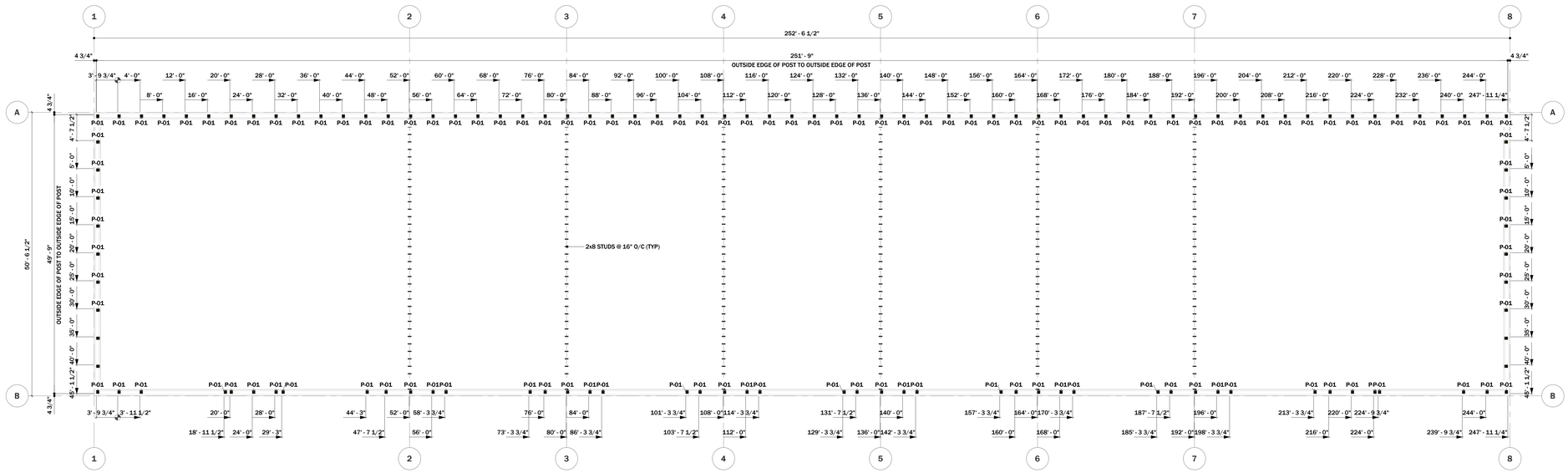
PROJECT NO:	SCALE:	PLOT SIZE:
23037	AS NOTED	36x48

PROJECT LEAD — Checker
PROJECT MANAGER — Checker
STRUCTURAL DESIGN LEAD — Designer
BIM MODELLER — PV

CD-A1

S101

CD-P00



1 POST LOCATION PLAN
1/8" = 1'-0"

PLAN N

VIEW LEDGEND

- X' - X" — DIMENSION TO GRID LINE
- X' - X" — DIMENSION TO ELEMENT
- X' - X" — RUNNING DIMENSION & BASE POINT
- WOOD ELEMENT
- CONCRETE ELEMENT

KEY NOTES

NONE

POST SCHEDULUE

MARK	POST SIZE	MATERIAL	HOLE DIAMETER	GRAVEL BELOW POST	LENGTH BELOW GRADE	TOTAL POST LENGTH	COMMENTS
P-01	4-PLY 2x8	SPF NO.1/NO.2	NA	NA	NA	18' - 0"	

KIRAS ENGINEERING

GENERAL NOTES

1. **CODES AND STANDARDS:** ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF APPLICABLE BUILDING CODES, LOCAL ORDINANCES, AND STANDARDS.
2. **DIMENSIONS:** VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE AUTHORIZING LICENSED PROFESSIONAL IMMEDIATELY.
3. **MATERIALS AND WORKMANSHIP:** ALL MATERIALS AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND IN ACCORDANCE WITH THE SPECIFICATIONS. ANY DEFECTIVE WORK MUST BE RECTIFIED AT THE CONTRACTORS EXPENSE.
4. **SOIL CONDITIONS:** VERIFY THAT SOIL CONDITIONS CONFORM TO THE GEOTECHNICAL REPORT. REPORT ANY VARIATIONS TO THE AUTHORIZING LICENSED PROFESSIONAL.
5. **CONCRETE:** USE THE SPECIFIED MIX DESIGN FOR ALL CONCRETE WORK. ENSURE PROPER CURING TIMES AND TECHNIQUES TO ACHIEVE DESIGNED STRENGTH.
6. **REINFORCEMENT:** PLACE AND SECURE ALL REINFORCEMENT BARS AS PER THE DRAWINGS AND SPECIFICATIONS. VERIFY CORRECT SIZES, SPACING, AND COVERAGE.
7. **FOUNDATIONS:** EXCAVATE AND PREPARE FOUNDATION AREAS ACCORDING TO PLANS. REMOVE ANY UNSUITABLE MATERIAL AND REPLACE WITH APPROVED FILL.
8. **BACKFILLING:** ENSURE PROPER BACKFILLING AND COMPACTION AROUND FOUNDATIONS TO PREVENT SETTLEMENT AND MAINTAIN STABILITY. OBTAIN PERMISSION FROM THE AUTHORIZING LICENSED PROFESSIONAL PRIOR TO BACKFILLING.
9. **UTILITIES:** CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. PROTECT AND MAINTAIN ALL UTILITIES DURING CONSTRUCTION.
10. **SAFETY:** FOLLOW ALL SAFETY REGULATIONS AND GUIDELINES. PROVIDE AND MAINTAIN NECESSARY SAFETY BARRIERS, SIGNAGE, AND PROTECTIVE EQUIPMENT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND COMPLYING WITH ON SITE SAFETY REQUIREMENTS.
11. **SITE ACCESS:** ENSURE THAT SITE ACCESS POINTS, STAGING AREAS, AND STORAGE LOCATIONS ARE CLEARLY MARKED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
12. **CHANGES:** ANY CHANGES TO THE CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE AUTHORIZING LICENSED PROFESSIONAL.
13. **COORDINATION:** COORDINATE ALL WORK WITH OTHER DISCIPLINES AND TRADES AND ENSURE THAT ALL INSTALLATIONS DO NOT INTERFERE WITH EXISTING OR PLANNED WORK. ANY DISCREPANCIES BETWEEN DISCIPLINES ON DRAWINGS OR IN THE FIELD SHALL BE REPORTED TO THE AUTHORIZING LICENSED PROFESSIONAL IMMEDIATELY.
14. **INSPECTIONS:** SCHEDULE AND PERFORM ALL REQUIRED INSPECTIONS AS DICTATED BY LOCAL AUTHORITIES AND THE AUTHORIZING LICENSED PROFESSIONAL. NOTIFY THE AUTHORIZING LICENSED PROFESSIONAL A MINIMUM OF 72 HOURS PRIOR TO REQUESTING THE INSPECTION. DO NOT COVER ITEMS TO BE INSPECTED PRIOR TO INSPECTION.
15. **CLEAN UP:** MAINTAIN A CLEAN AND ORDERLY WORK SITE. REMOVE DEBRIS AND WASTE MATERIALS PROMPTLY.
16. **SUBMITTALS:** SUBMIT ALL REQUIRED SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES TO THE AUTHORIZING LICENSED PROFESSIONAL FOR REVIEW AND APPROVAL BEFORE FABRICATION OR INSTALLATION.

NO.	ISSUED FOR:	ISSUED DATE:	BY:
CD-P00	IFP	2026-01-09	TE
CD-A1	IFR	2025-12-18	TE

ISSUED DRAWINGS

SAFRENE CONSTRUCTION - PROPOSED CRU BUILDING

LAND DESCRIPTION: BLK/PAR G-PLAN 102468753 EXT 0
SOURCE QUARTER SECTION: SW-29-17-18-2
RM OF EDENWOLD NO.158

BRANT SAFINUK

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RM OF SHERWOOD, SK S4K 0A4

AUTHORIZATION

PROFESSIONAL ENGINEER — PROVINCE OF SASKATCHEWAN — MEMBER 35203 — 2026-01-09 (YR MN DAY)

VALIDATION

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Kiras Engineering Ltd.
Number 62228
Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
STRUCT	51629	
BLDG	51629	

POST LOCATION PLAN

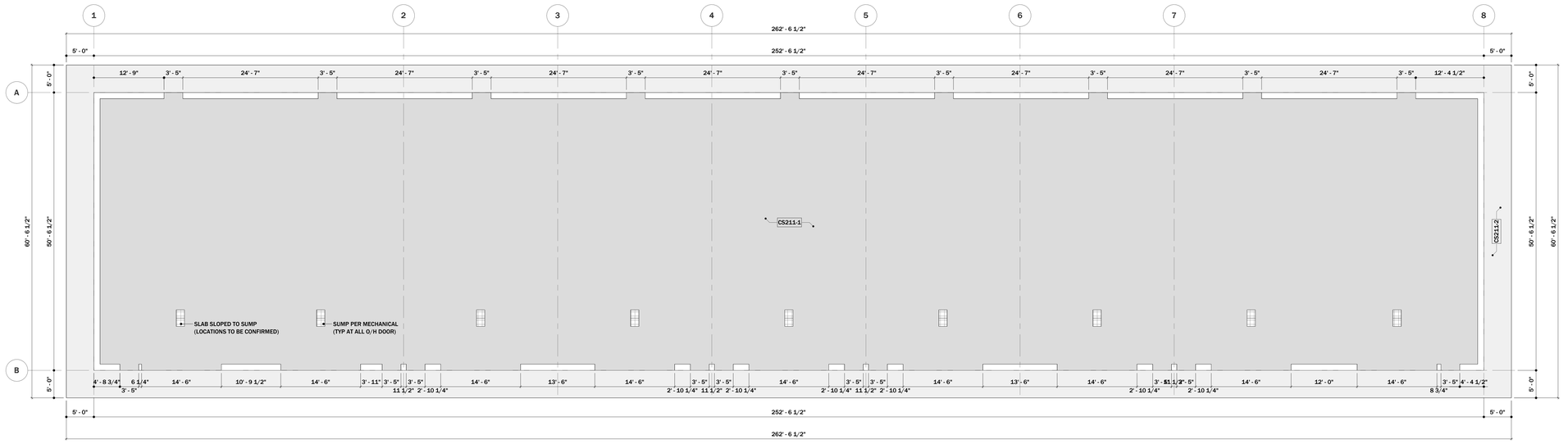
PROJECT NO:	SCALE:	PLOT SIZE:
23037	AS NOTED	36x48

PROJECT LEAD	Checker
PROJECT MANAGER	Checker
STRUCTURAL DESIGN LEAD	Designer
BIM MODELLER	PV

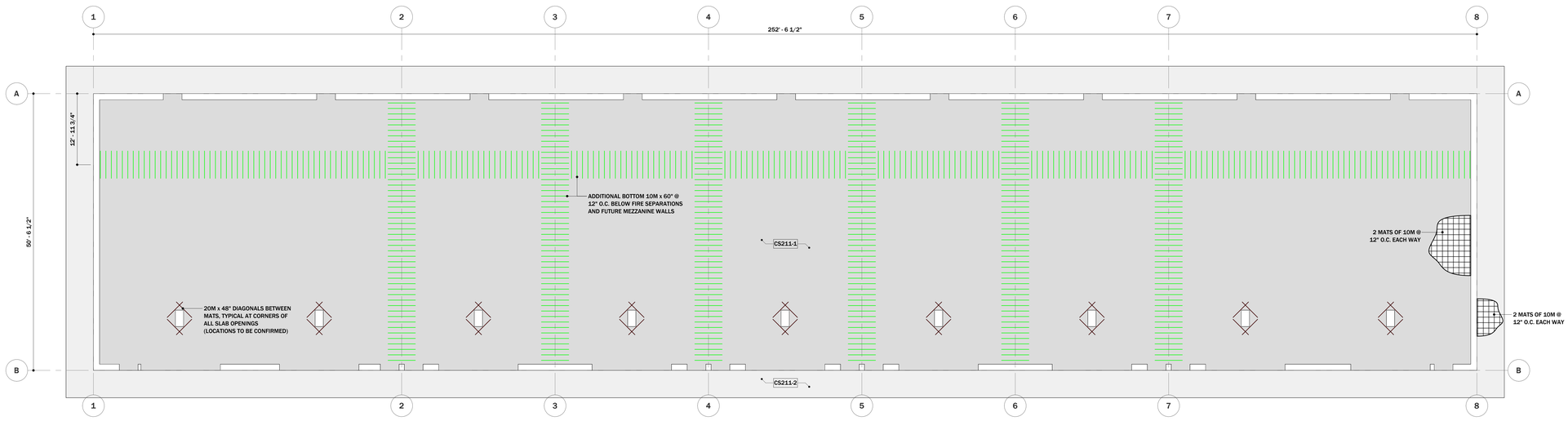
CD-A1

S111

CD-P00



1 **SLAB PLAN**
1/8" = 1'-0"



2 **REBAR REINFORCEMENT PLAN**
1/8" = 1'-0"

PLAN
N

VIEW LEDGEND

X' - X"	DIMENSION TO GRID LINE
X' - X"	DIMENSION TO ELEMENT
X' - X"	RUNNING DIMENSION & BASE POINT
	WOOD ELEMENT
	CONCRETE ELEMENT

KEY NOTES

NONE

CONCRETE SLAB (CS) SCHEDULE

MARK	*TYPE*	*THICKNESS*	*T.O. SLAB ELEVATION*	*PRIMARY REINFORCEMENT*	*ADDITIONAL REINFORCEMENT*	*CONCRETE TYPE*	*COMMENTS*
CS211-1	STRUCTURAL SLAB	6"	100' - 0"	2 MATS OF 10M @ 12" O.C. EACH WAY	ADDITIONAL 10M x 60" @ 12" O.C. PER PLAN	N	
CS211-2	STRUCTURAL SLAB	6"	100' - 0"	2 MATS OF 10M @ 12" O.C. EACH WAY	NA	C-1	

KIRAS ENGINEERING

GENERAL NOTES

1. **CODES AND STANDARDS:**
ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF APPLICABLE BUILDING CODES, LOCAL ORDINANCES, AND STANDARDS.
2. **DIMENSIONS:**
VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE AUTHORIZING LICENSED PROFESSIONAL IMMEDIATELY.
3. **MATERIALS AND WORKMANSHIP:**
ALL MATERIALS AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND IN ACCORDANCE WITH THE SPECIFICATIONS. ANY DEFECTIVE WORK MUST BE RECTIFIED AT THE CONTRACTORS EXPENSE.
4. **SOIL CONDITIONS:**
VERIFY THAT SOIL CONDITIONS CONFORM TO THE GEOTECHNICAL REPORT. REPORT ANY VARIATIONS TO THE AUTHORIZING LICENSED PROFESSIONAL.
5. **CONCRETE:**
USE THE SPECIFIED MIX DESIGN FOR ALL CONCRETE WORK. ENSURE PROPER CURING TIMES AND TECHNIQUES TO ACHIEVE DESIGNED STRENGTH.
6. **REINFORCEMENT:**
PLACE AND SECURE ALL REINFORCEMENT BARS AS PER THE DRAWINGS AND SPECIFICATIONS. VERIFY CORRECT SIZES, SPACING, AND COVERAGE.
7. **FOUNDATIONS:**
EXCAVATE AND PREPARE FOUNDATION AREAS ACCORDING TO PLANS. REMOVE ANY UNSUITABLE MATERIAL AND REPLACE WITH APPROVED FILL.
8. **BACKFILLING:**
ENSURE PROPER BACKFILLING AND COMPACTION AROUND FOUNDATIONS TO PREVENT SETTLEMENT AND MAINTAIN STABILITY. OBTAIN PERMISSION FROM THE AUTHORIZING LICENSED PROFESSIONAL PRIOR TO BACKFILLING.
9. **UTILITIES:**
CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. PROTECT AND MAINTAIN ALL UTILITIES DURING CONSTRUCTION.
10. **SAFETY:**
FOLLOW ALL SAFETY REGULATIONS AND GUIDELINES. PROVIDE AND MAINTAIN NECESSARY SAFETY BARRIERS, SIGNAGE, AND PROTECTIVE EQUIPMENT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND COMPLYING WITH ON-SITE SAFETY REQUIREMENTS.
11. **SITE ACCESS:**
ENSURE THAT SITE ACCESS POINTS, STAGING AREAS, AND STORAGE LOCATIONS ARE CLEARLY MARKED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
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ANY CHANGES TO THE CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE AUTHORIZING LICENSED PROFESSIONAL.
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COORDINATE ALL WORK WITH OTHER DISCIPLINES AND TRADES AND ENSURE THAT ALL INSTALLATIONS DO NOT INTERFERE WITH EXISTING OR PLANNED WORK. ANY DISCREPANCIES BETWEEN DISCIPLINES ON DRAWINGS OR IN THE FIELD SHALL BE REPORTED TO THE AUTHORIZING LICENSED PROFESSIONAL IMMEDIATELY.
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SCHEDULE AND PERFORM ALL REQUIRED INSPECTIONS AS DICTATED BY LOCAL AUTHORITIES AND THE AUTHORIZING LICENSED PROFESSIONAL. NOTIFY THE AUTHORIZING LICENSED PROFESSIONAL A MINIMUM OF 72 HOURS PRIOR TO REQUESTING THE INSPECTION. DO NOT COVER ITEMS TO BE INSPECTED PRIOR TO INSPECTION.
15. **CLEAN UP:**
MAINTAIN A CLEAN AND ORDERLY WORK SITE. REMOVE DEBRIS AND WASTE MATERIALS PROMPTLY.
16. **SUBMITTALS:**
SUBMIT ALL REQUIRED SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES TO THE AUTHORIZING LICENSED PROFESSIONAL FOR REVIEW AND APPROVAL BEFORE FABRICATION OR INSTALLATION.

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CD-A1	IFR	2025-12-18	TE

ISSUED DRAWINGS

SAFRENE CONSTRUCTION - PROPOSED CRU BUILDING

LAND DESCRIPTION: BLK/PAR O-PLAN 102468753 EXT 0
SOURCE QUARTER SECTION: SW-29-17-18-2
RM OF EDENWOLD NO.158

BRANT SAFINUK

1-162 HUSUM RD
RM OF SHERWOOD, SK S4K 0A4

AUTHORIZATION:

PROFESSIONAL ENGINEER
SASKATCHEWAN
PERMIT NUMBER 36025
MEMBER 36203
2026-01-09
YR MN DAY

VALIDATION:

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Kiras Engineering Ltd.
Number 62228
Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
STRCT	51629	
BLDG	51629	

SLAB PLANS

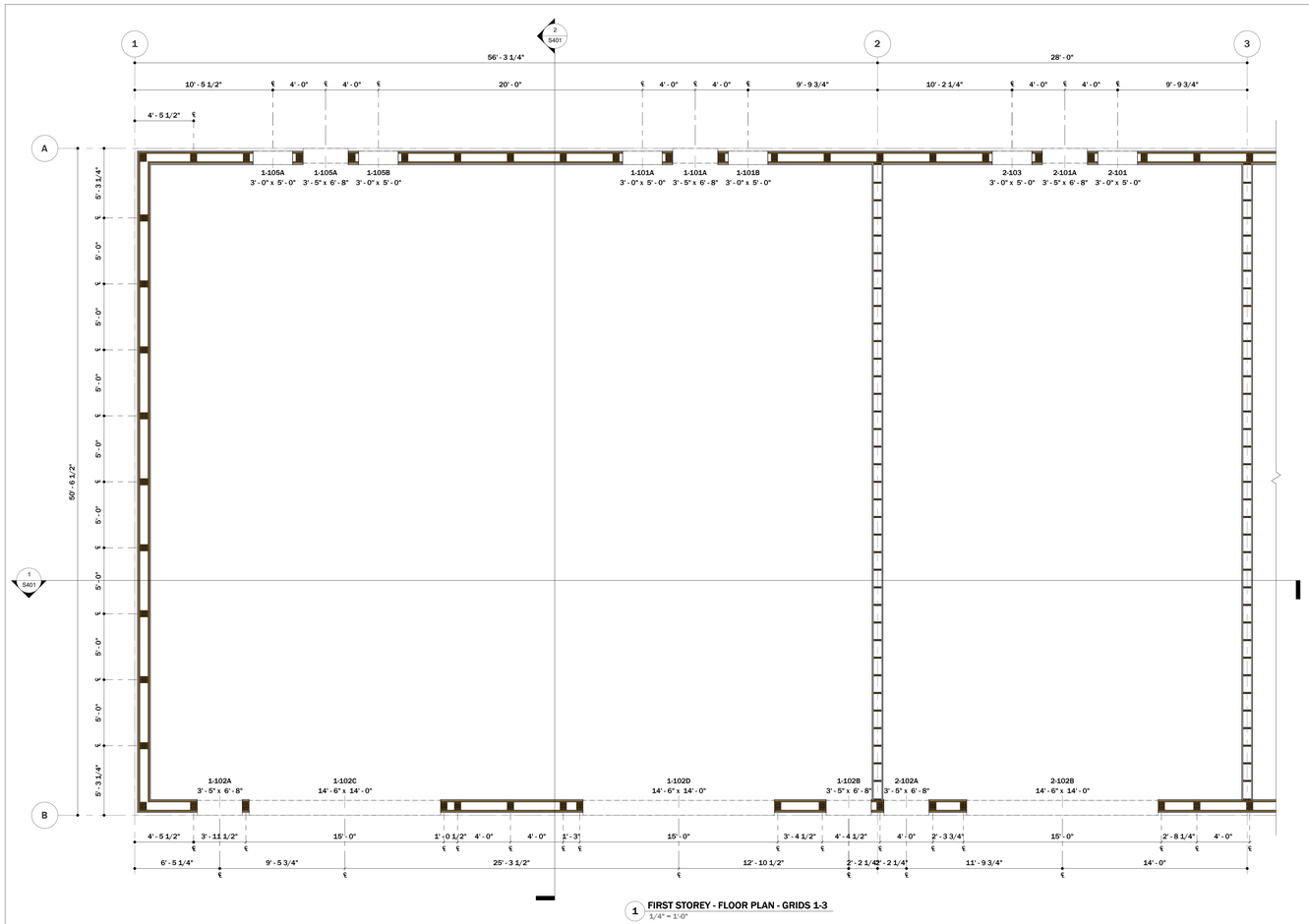
PROJECT NO:	SCALE:	PLOT SIZE:
23037	AS NOTED	36x48

PROJECT LEAD — Checker
PROJECT MANAGER — Checker
STRUCTURAL DESIGN LEAD — Designer
BIM MODELLER — PV

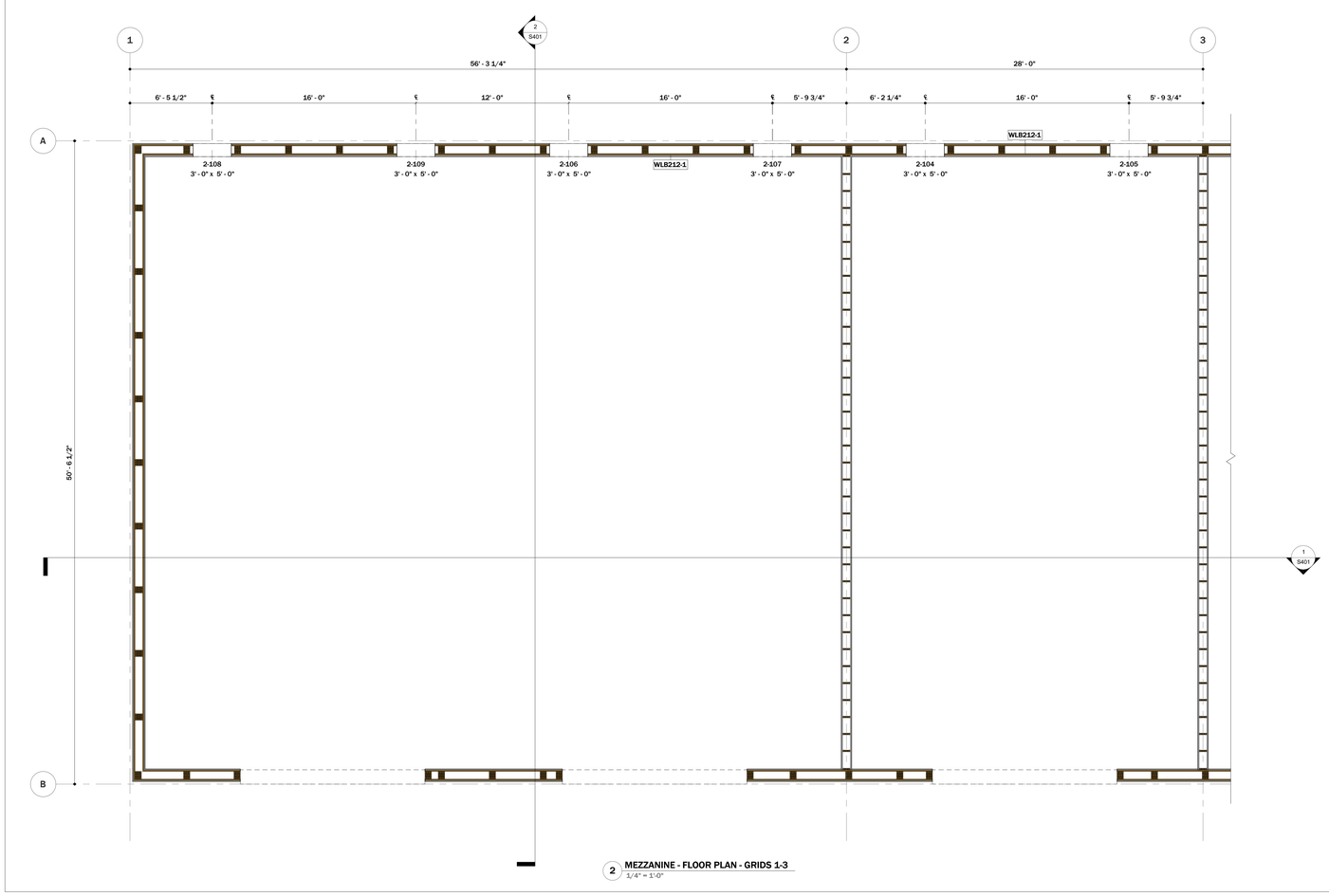
CD-A1

S211

CD-P00



1 **FIRST STOREY - FLOOR PLAN - GRIDS 1-3**
1/4" = 1'-0"



2 **MEZZANINE - FLOOR PLAN - GRIDS 1-3**
1/4" = 1'-0"

PLAN
N

VIEW LEDGEND

X' - X"	DIMENSION TO GRID LINE
X' - X"	DIMENSION TO ELEMENT
X' - X"	RUNNING DIMENSION & BASE POINT
	WOOD ELEMENT
	CONCRETE ELEMENT

KEY NOTES

NONE

WOOD LEDGER (WLB) SCHEDULE

TYPE	PLYS	SIZE	MATERIAL	COMMENTS
WLB212-1	1	2 x 12	SPF NO.1/NO.2	

KIRAS ENGINEERING

GENERAL NOTES

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CD-A1	IFR	2025-12-18	TE

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SAFRENE CONSTRUCTION - PROPOSED CRU BUILDING

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SOURCE QUARTER SECTION: SW-29-17-18-2
RM OF EDENWOLD NO.158

BRANT SAFINUK
1-162 HUGUM RD
RM OF SHERWOOD, SK S4K 0A4

AUTHORIZATION

PROFESSIONAL ENGINEER
PROVINCE OF SASKATCHEWAN
LICENCE 35203
2026-01-09
YR MN DAY

VALIDATION

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Kiras Engineering Ltd.
Number 62228
Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
STRUCT	51629	
BLDG	51629	

FLOOR PLANS - GRIDS 1-3

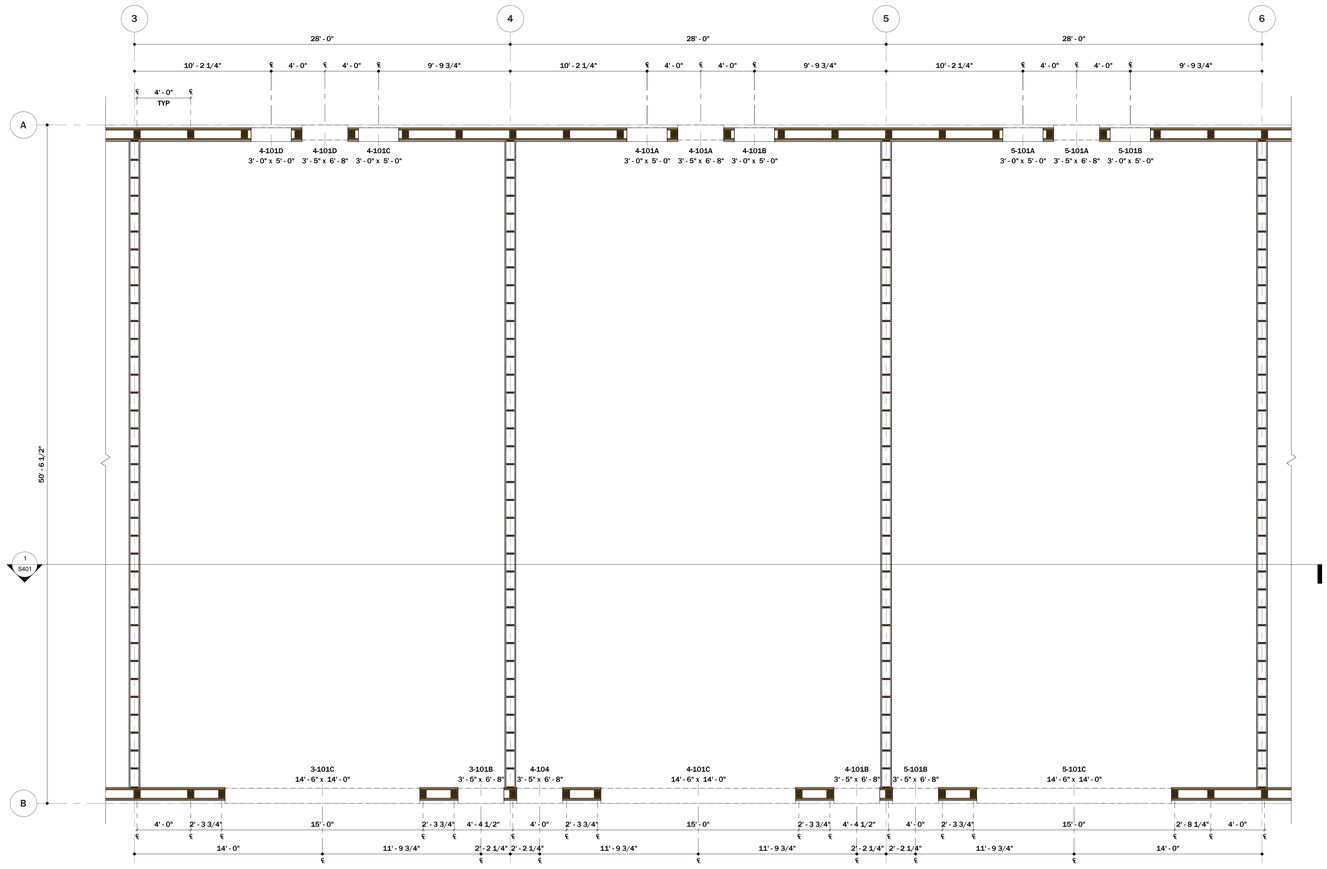
PROJECT NO:	SCALE:	PLOT SIZE:
23037	AS NOTED	36x48

PROJECT LEAD	Checker
PROJECT MANAGER	Checker
STRUCTURAL DESIGN LEAD	Designer
BIM MODELLER	PV

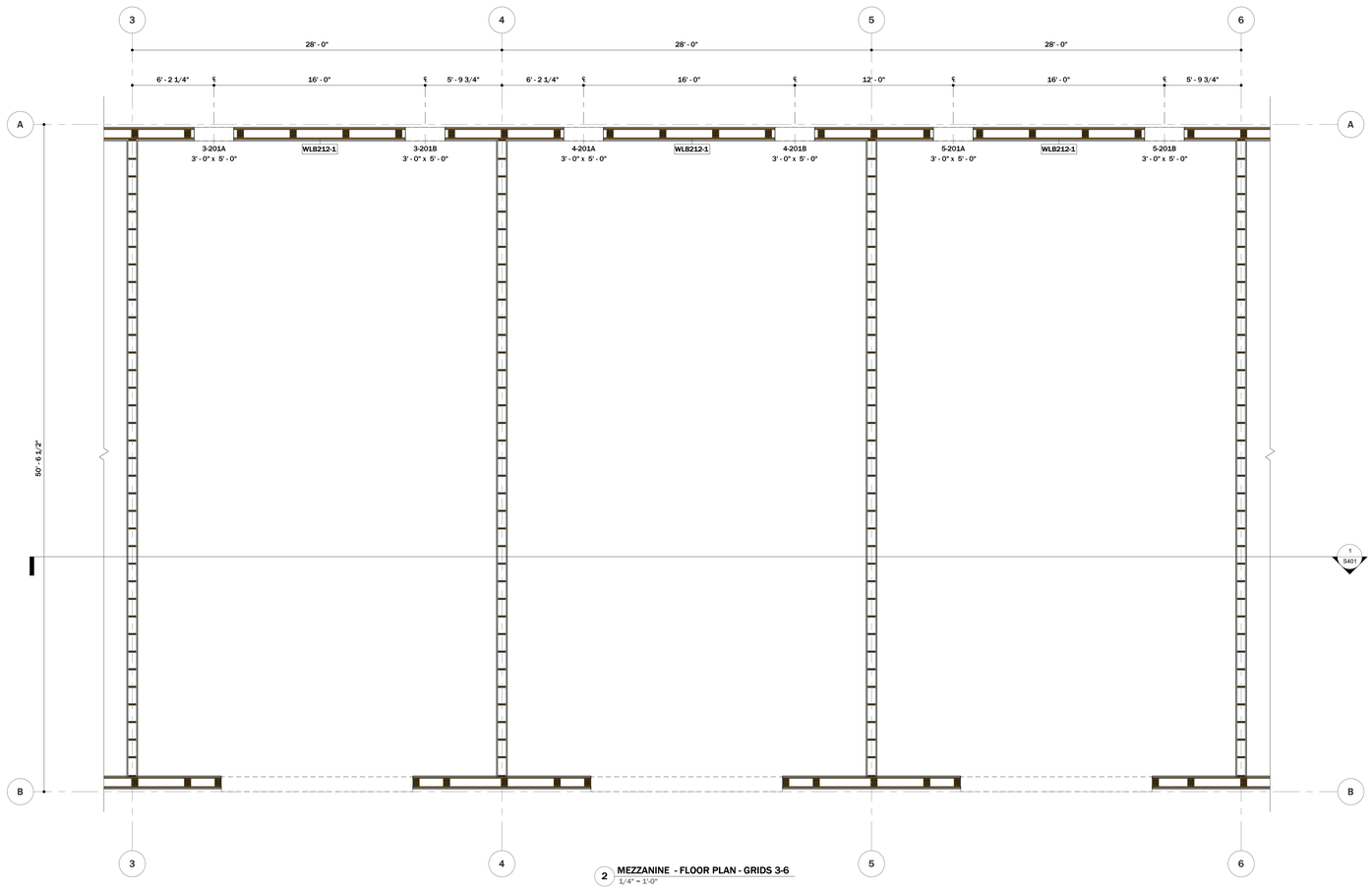
CD-A1

S212

CD-P00



1 **FIRST STOREY - FLOOR PLAN - GRIDS 3-6**
1/4" = 1'-0"



2 **MEZZANINE - FLOOR PLAN - GRIDS 3-6**
1/4" = 1'-0"

PLAN
N

VIEW LEDGEND

X' - X"	DIMENSION TO GRID LINE
X' - X"	DIMENSION TO ELEMENT
X' - X"	RUNNING DIMENSION & BASE POINT
	WOOD ELEMENT
	CONCRETE ELEMENT

KEY NOTES

NONE

WOOD LEDGER (WLB) SCHEDULE

TYPE	PLYS	SIZE	MATERIAL	COMMENTS
WLB212-1	1	2 x 12	SPF NO.1/NO.2	

KIRAS ENGINEERING

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ISSUED DRAWINGS

SAFRENE CONSTRUCTION - PROPOSED CRU BUILDING

LAND DESCRIPTION: BLK/PAR G-PLAN 102468753 EXT 0
SOURCE QUARTER SECTION: SW-29-17-18-2
RM OF EDENWOLD NO.158

BRANT SAFINUK
1-162 HUGUM RD
RM OF SHERWOOD, SK S4K 0A4

AUTHORIZATION

PROFESSIONAL ENGINEER
BRANT SAFINUK
LICENCE NUMBER 35203
2026-01-09
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SASKATCHEWAN

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STRUCT	51629	
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FLOOR PLANS - GRIDS 3-6

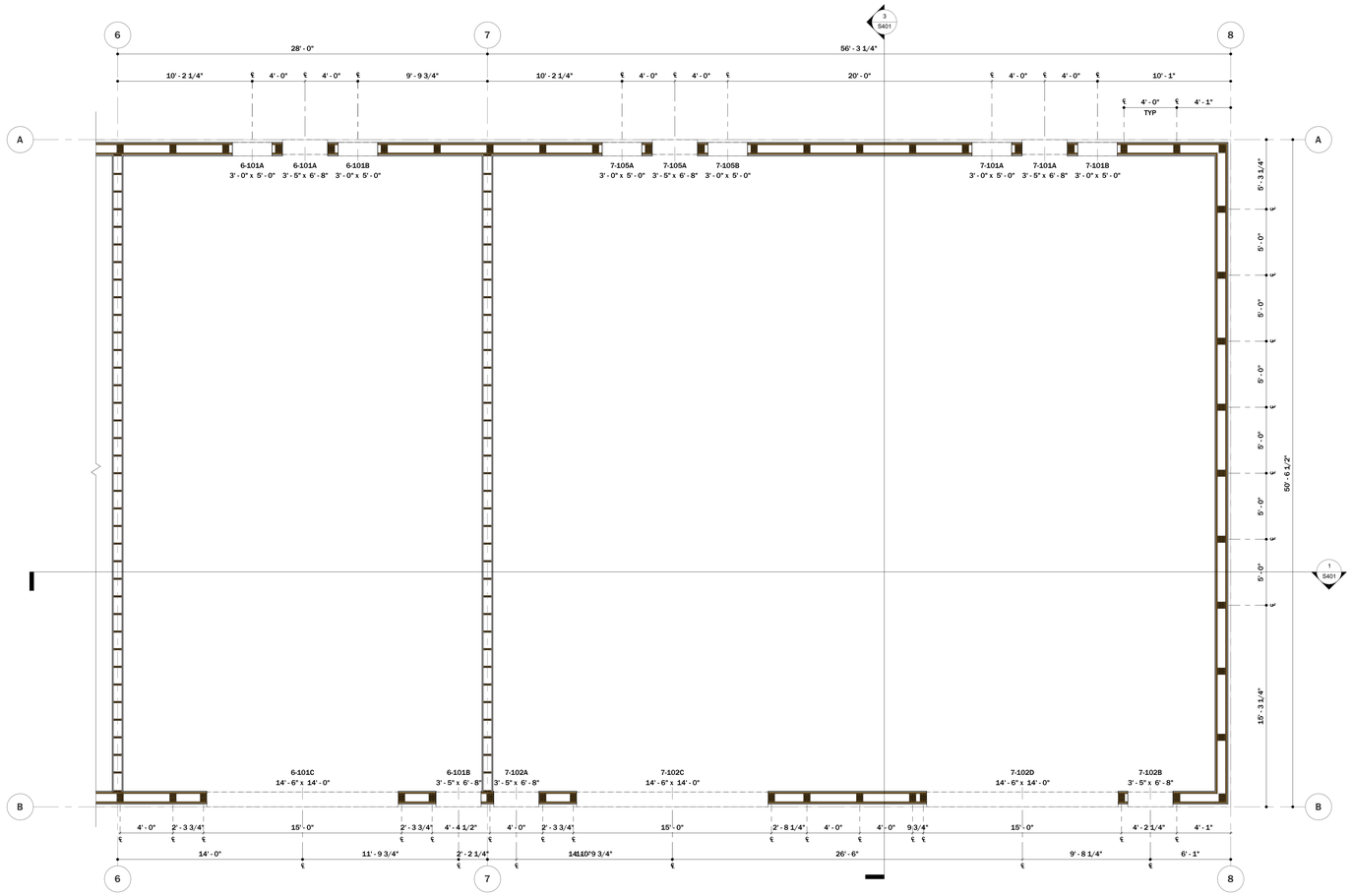
PROJECT NO:	SCALE:	PLOT SIZE:
23037	AS NOTED	36x48

PROJECT LEAD	Checker
PROJECT MANAGER	Checker
STRUCTURAL DESIGN LEAD	Designer
BIM MODELLER	PV

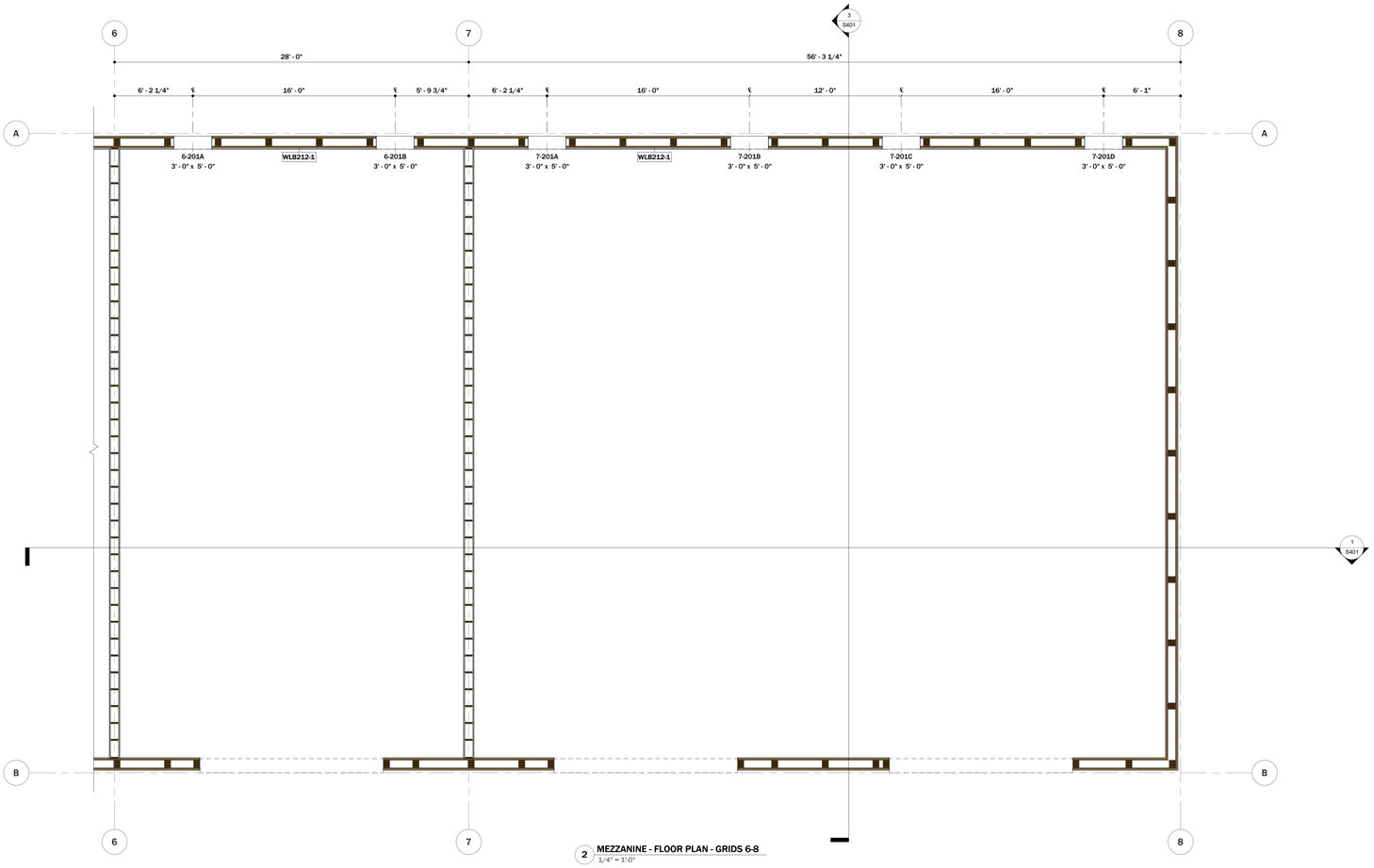
CD-A1

S213

CD-P00



1 **FIRST STOREY - FLOOR PLAN - GRIDS 6-8**
1/4" = 1'-0"



2 **MEZZANINE - FLOOR PLAN - GRIDS 6-8**
1/4" = 1'-0"

PLAN N

VIEW LEDGEND

X' - X"	DIMENSION TO GRID LINE
X' - X"	DIMENSION TO ELEMENT
X' - X"	RUNNING DIMENSION & BASE POINT
	WOOD ELEMENT
	CONCRETE ELEMENT

KEY NOTES

NONE

WOOD LEDGER (WLB) SCHEDULE

TYPE	PLYS	SIZE	MATERIAL	COMMENTS
WLB212-1	1	2 x 12	SPF NO.1/NO.2	

KIRAS ENGINEERING

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FLOOR PLANS - GRIDS 6-8

PROJECT NO:	SCALE:	PLOT SIZE:
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PROJECT MANAGER	Checker
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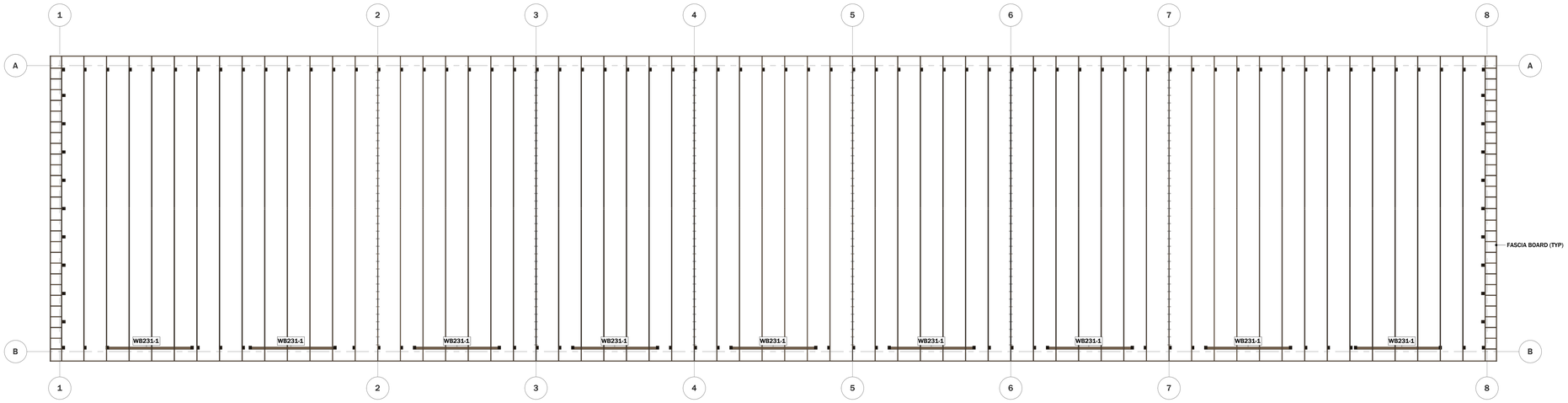
BIM MODELLER	PV

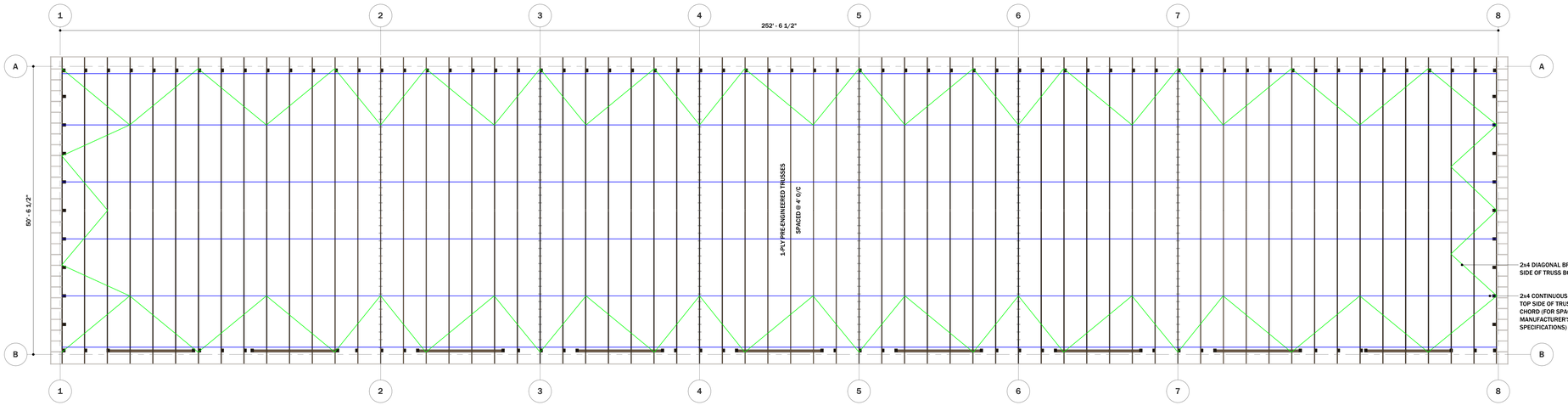
CD-A1

S214

CD-P00



1 ROOF FRAMING PLAN
1/8" = 1'-0"



2 ROOF BRACING PLAN
1/8" = 1'-0"

PLAN
N

VIEW LEDGEND

X' - X"	DIMENSION TO GRID LINE
X' - X"	DIMENSION TO ELEMENT
X' - X"	RUNNING DIMENSION & BASE POINT
	WOOD ELEMENT
	CONCRETE ELEMENT

KEY NOTES

NONE

WOOD BEAM (WB) SCHEDULE

MARK	PLYS	SIZE	MATERIAL	COMMENTS
WB231-1	3	1 3/4" x 11 3/4"	2.0E LVL	

KIRAS ENGINEERING

GENERAL NOTES

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2. **DIMENSIONS:** VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE AUTHORIZING LICENSED PROFESSIONAL IMMEDIATELY.
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5. **CONCRETE:** USE THE SPECIFIED MIX DESIGN FOR ALL CONCRETE WORK. ENSURE PROPER CURING TIMES AND TECHNIQUES TO ACHIEVE DESIGNED STRENGTH.
6. **REINFORCEMENT:** PLACE AND SECURE ALL REINFORCEMENT BARS AS PER THE DRAWINGS AND SPECIFICATIONS. VERIFY CORRECT SIZES, SPACING, AND COVERAGE.
7. **FOUNDATIONS:** EXCAVATE AND PREPARE FOUNDATION AREAS ACCORDING TO PLANS. REMOVE ANY UNSUITABLE MATERIAL AND REPLACE WITH APPROVED FILL.
8. **BACKFILLING:** ENSURE PROPER BACKFILLING AND COMPACTION AROUND FOUNDATIONS TO PREVENT SETTLEMENT AND MAINTAIN STABILITY. OBTAIN PERMISSION FROM THE AUTHORIZING LICENSED PROFESSIONAL PRIOR TO BACKFILLING.
9. **UTILITIES:** CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. PROTECT AND MAINTAIN ALL UTILITIES DURING CONSTRUCTION.
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11. **SITE ACCESS:** ENSURE THAT SITE ACCESS POINTS, STAGING AREAS, AND STORAGE LOCATIONS ARE CLEARLY MARKED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
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CD-A1	IFR	2025-12-18	TE

ISSUED DRAWINGS

SAFRENE CONSTRUCTION - PROPOSED CRU BUILDING

LAND DESCRIPTION: BLK/PAR O PLAN 102468753 EXT 0
SOURCE QUARTER SECTION: SW-29-17-18-2
RM OF EDENWOLD NO.158

BRANT SAFINUK
1-162 HUSUM RD
RM OF SHERWOOD, SK S4K 0A4

AUTHORIZATION

PROFESSIONAL ENGINEER
BRANT SAFINUK
NUMBER 35203
2026-01-09
YR MN DAY
SASKATCHEWAN

VALIDATION

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Kiras Engineering Ltd.
Number 62228
Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
STRUCT	51629	
BLDG	51629	

ROOF PLANS

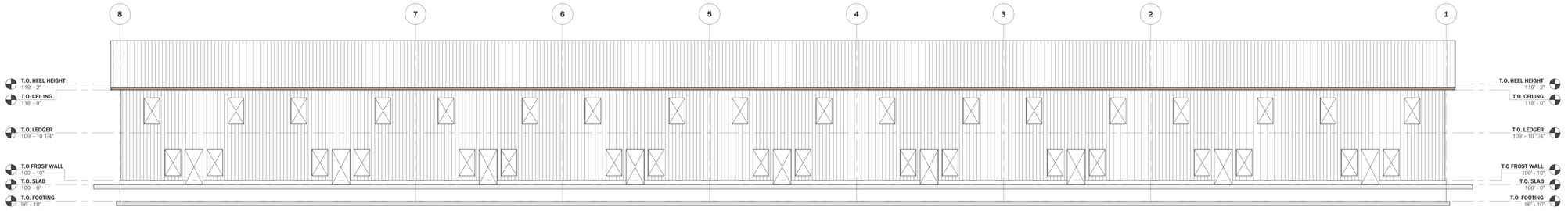
PROJECT NO:	SCALE:	PLOT SIZE:
23037	AS NOTED	36x48

PROJECT LEAD	Checker
PROJECT MANAGER	Checker
STRUCTURAL DESIGN LEAD	Designer
BIM MODELLER	PV

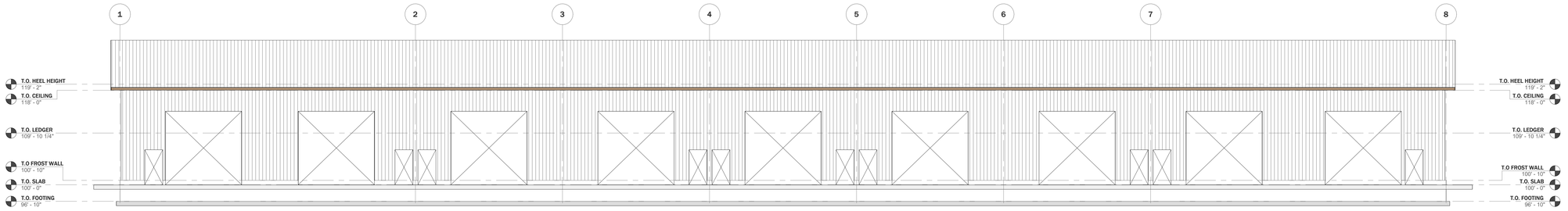
CD-A1

S231

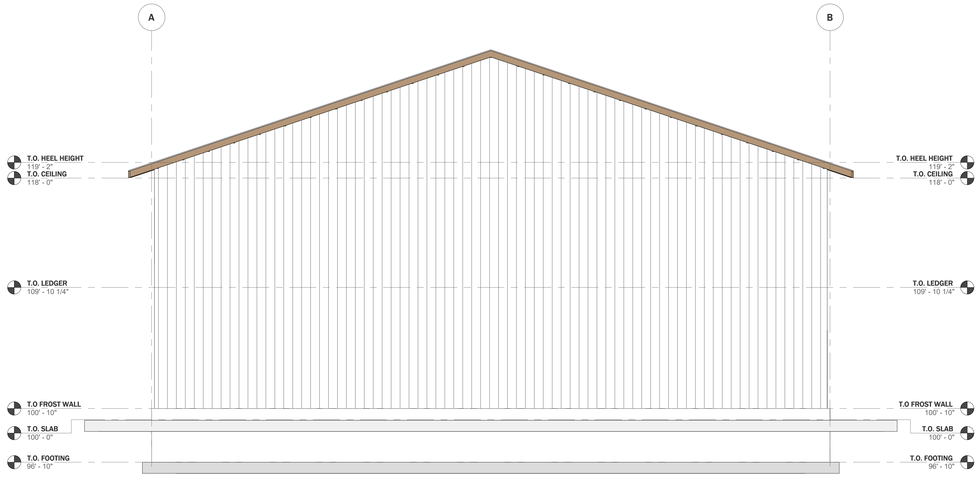
CD-P00



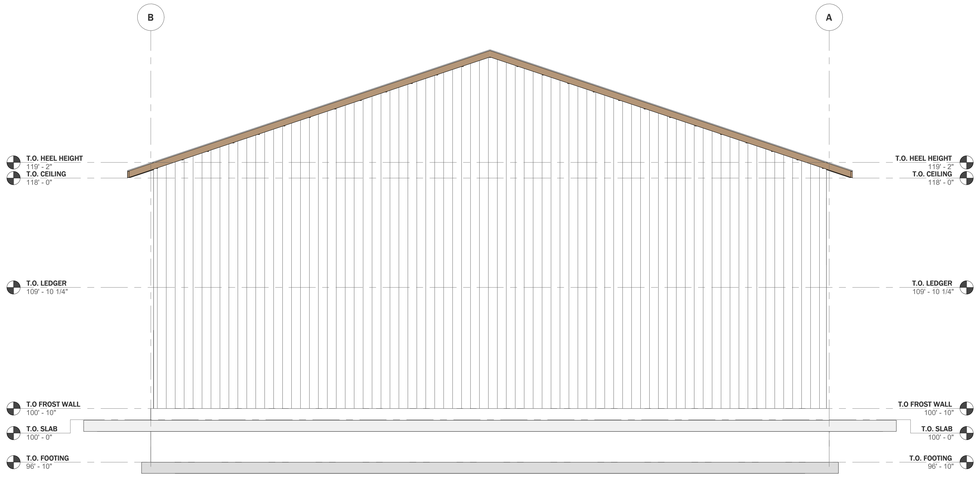
1 NORTH ELEVATION
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"



3 WEST ELEVATION
1/4" = 1'-0"



4 EAST ELEVATION
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BRANT SAFINUK
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VALIDATION

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23037	AS NOTED	36x48

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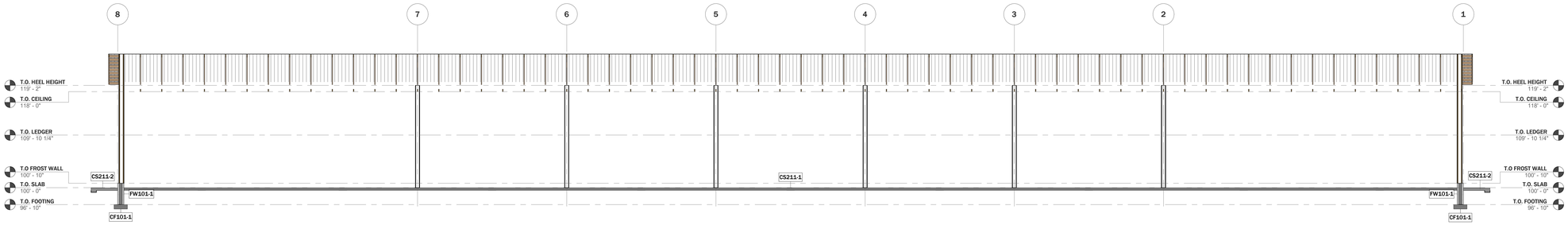
PROJECT MANAGER	Checker
STRUCTURAL DESIGN LEAD	Designer
BIM MODELLER	PV

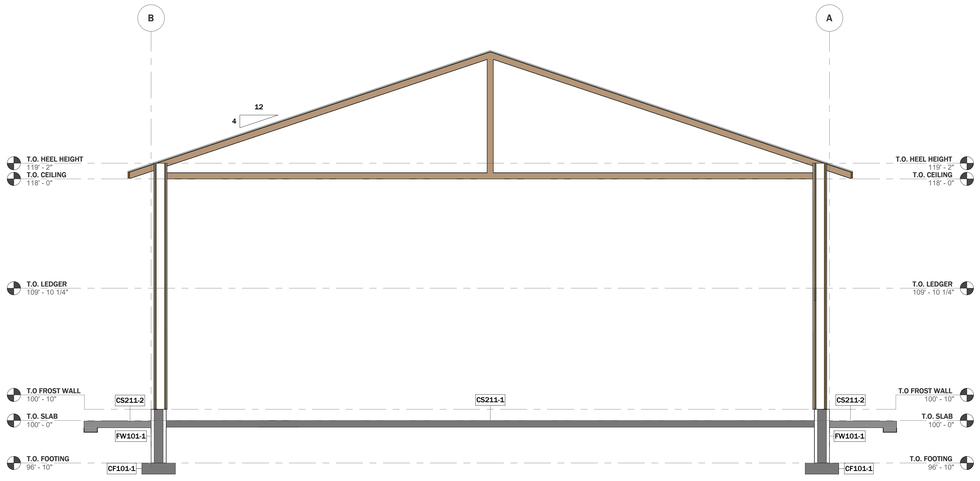
CD-A1

S301

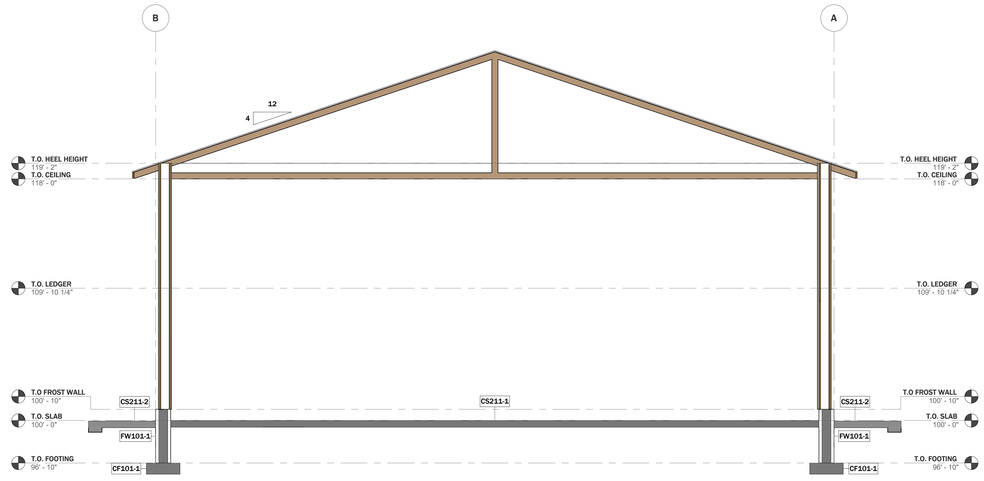
CD-P00



1 LONGITUDINAL SECTION
1/8" = 1'-0"



2 TRANSVERSE SECTION
1/4" = 1'-0"



3 TRANSVERSE SECTION
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KIRAS ENGINEERING

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RM OF EDENWOLD NO.158

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AUTHORIZATION

VALIDATION

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CERTIFICATE OF AUTHORIZATION
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Number 62228
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Discipline	Sk. Reg. No.	Signature
STRUCT	51629	
BLDG	51629	

BUILDING SECTIONS

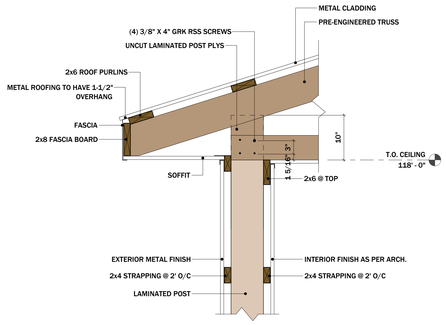
PROJECT NO:	SCALE:	PLOT SIZE:
23037	AS NOTED	36x48

PROJECT LEAD	Checker
PROJECT MANAGER	Checker
STRUCTURAL DESIGN LEAD	Designer
BIM MODELLER	PV

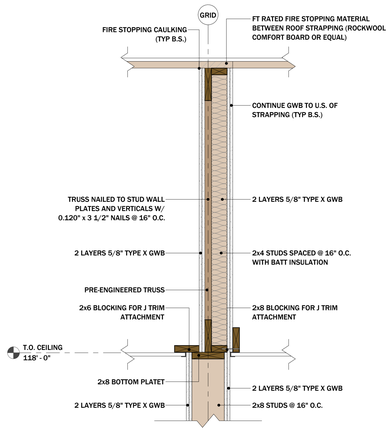
CD-A1

S401

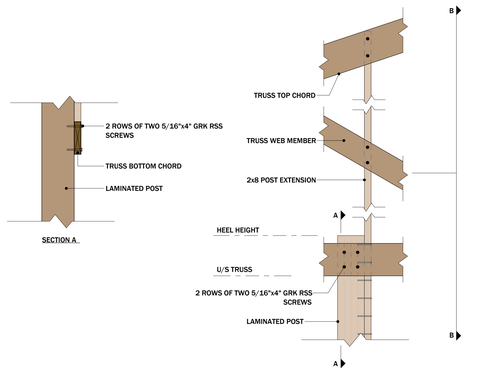
CD-P00



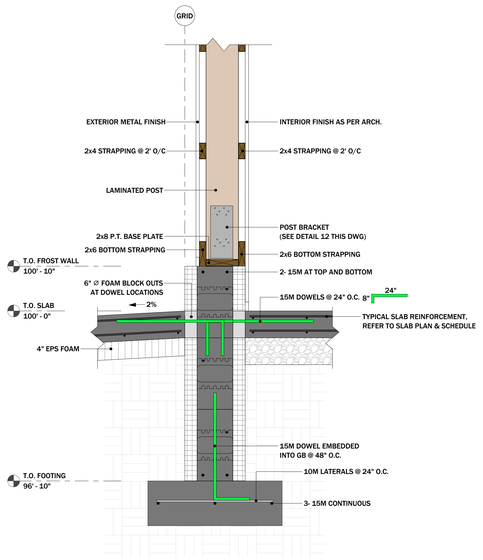
1 TYPICAL TRUSS TO WALL CONNECTION
1" = 1'-0"



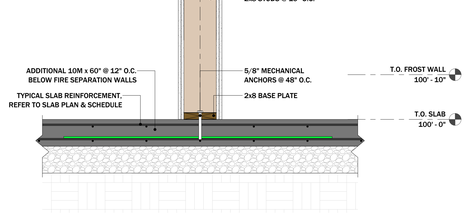
3 TYPICAL PARTITION WALL TRUSS FIRE RATING
1" = 1'-0"



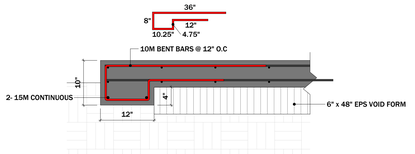
4 TYPICAL GABLE END FASTENING DETAIL
1" = 1'-0"



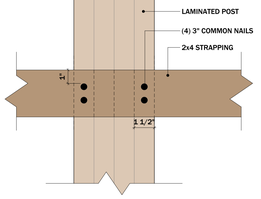
2 TYPICAL EXTERIOR WALL TO FDN CONNECTION
1" = 1'-0"



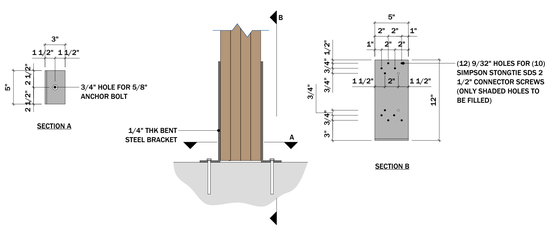
5 TYPICAL PARTITION WALL TO SLAB CONNECTION
1" = 1'-0"



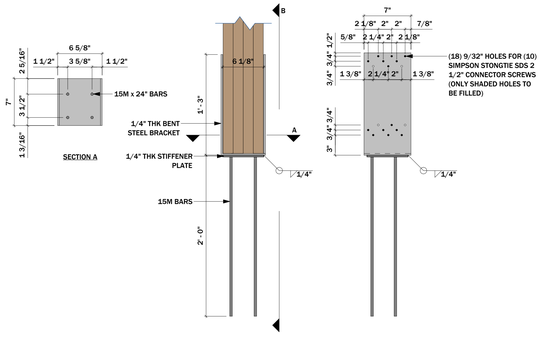
6 TYPICAL EXTERIOR SLAB THICKENING
1" = 1'-0"



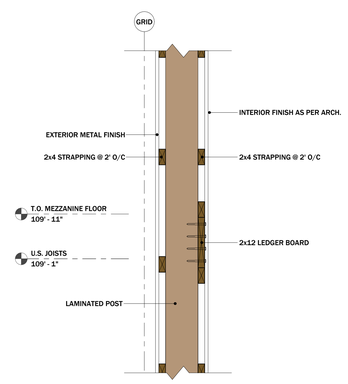
7 TYPICAL WALL STRAPPING FASTENING
3" = 1'-0"



8 TYPICAL POST BRACKET
1 1/2" = 1'-0"



9 TYPICAL POST BRACKET FOR OPENINGS
1 1/2" = 1'-0"



10 TYPICAL 9.25" LEDGER BOARD TO POST CONNECTION
1" = 1'-0"

KIRAS ENGINEERING

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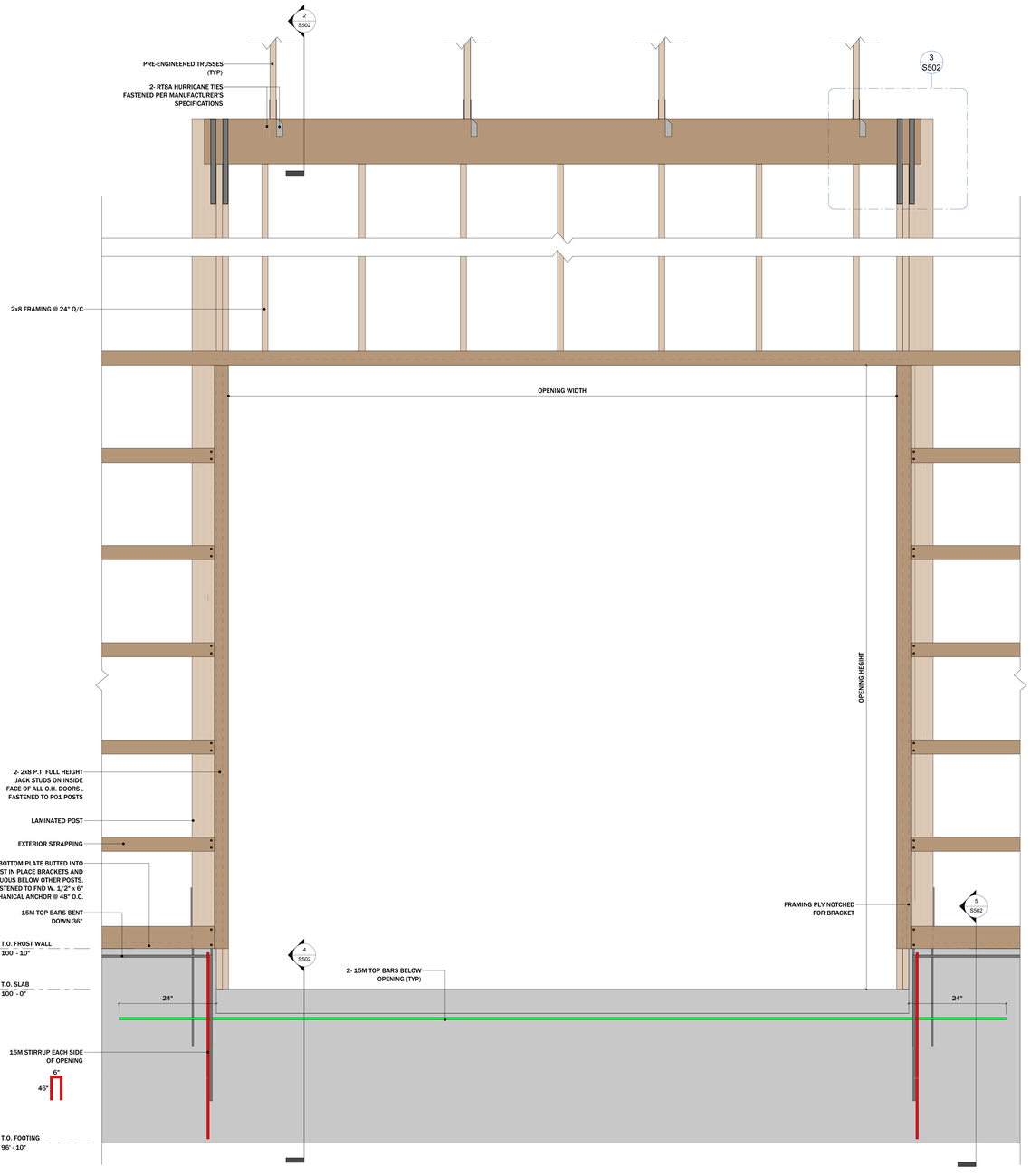
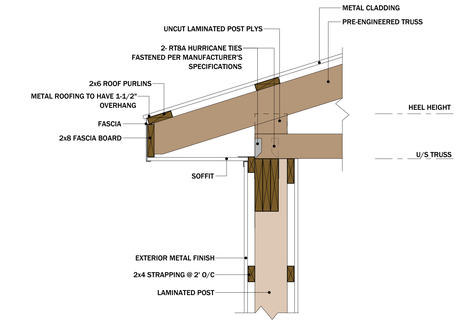
S501

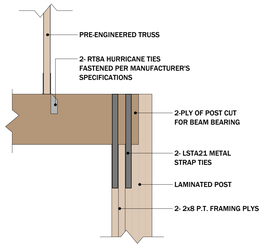
CD-P00



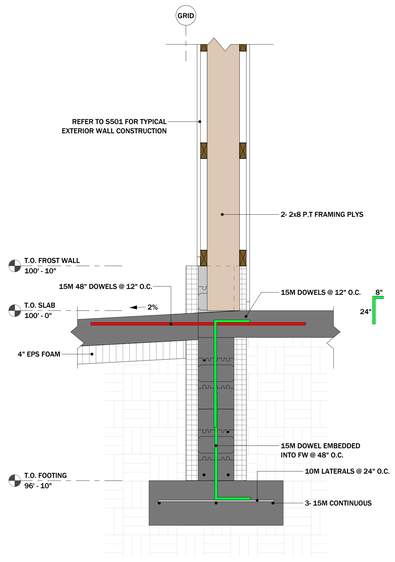
1 **TYPICAL SIDE WALL OPENING FRAMING**
1" = 1'-0"



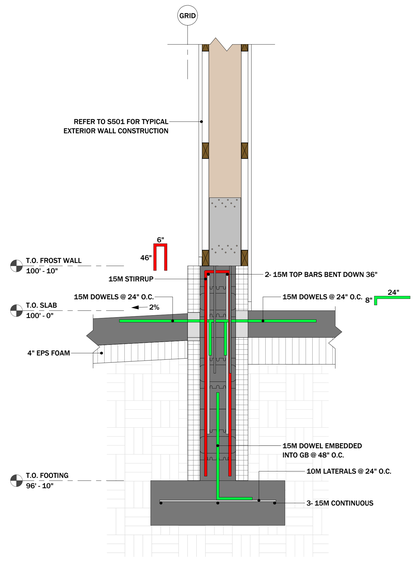
2 **TYPICAL TRUSS TO BEAM CONNECTION**
1" = 1'-0"



3 **TYPICAL BEAM TO POST CONNECTION**
1" = 1'-0"



4 **TYPICAL EXTERIOR WALL TO FND CONNECTION - AT OPENING**
1" = 1'-0"



5 **TYPICAL EXTERIOR WALL TO FND CONNECTION - BESIDE OPENING**
1" = 1'-0"

KIRAS ENGINEERING

GENERAL NOTES

1. **CODES AND STANDARDS:**
ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF APPLICABLE BUILDING CODES, LOCAL ORDINANCES, AND STANDARDS.
2. **DIMENSIONS:**
VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE AUTHORIZING LICENSED PROFESSIONAL IMMEDIATELY.
3. **MATERIALS AND WORKMANSHIP:**
ALL MATERIALS AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND IN ACCORDANCE WITH THE SPECIFICATIONS. ANY DEFECTIVE WORK MUST BE RECTIFIED AT THE CONTRACTORS EXPENSE.
4. **SOIL CONDITIONS:**
VERIFY THAT SOIL CONDITIONS CONFORM TO THE GEOTECHNICAL REPORT. REPORT ANY VARIATIONS TO THE AUTHORIZING LICENSED PROFESSIONAL.
5. **CONCRETE:**
USE THE SPECIFIED MIX DESIGN FOR ALL CONCRETE WORK. ENSURE PROPER CURING TIMES AND TECHNIQUES TO ACHIEVE DESIGNED STRENGTH.
6. **REINFORCEMENT:**
PLACE AND SECURE ALL REINFORCEMENT BARS AS PER THE DRAWINGS AND SPECIFICATIONS. VERIFY CORRECT SIZES, SPACING, AND COVERAGE.
7. **FOUNDATIONS:**
EXCAVATE AND PREPARE FOUNDATION AREAS ACCORDING TO PLANS. REMOVE ANY UNSUITABLE MATERIAL AND REPLACE WITH APPROVED FILL.
8. **BACKFILLING:**
ENSURE PROPER BACKFILLING AND COMPACTION AROUND FOUNDATIONS TO PREVENT SETTLEMENT AND MAINTAIN STABILITY. OBTAIN PERMISSION FROM THE AUTHORIZING LICENSED PROFESSIONAL PRIOR TO BACKFILLING.
9. **UTILITIES:**
CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. PROTECT AND MAINTAIN ALL UTILITIES DURING CONSTRUCTION.
10. **SAFETY:**
FOLLOW ALL SAFETY REGULATIONS AND GUIDELINES. PROVIDE AND MAINTAIN NECESSARY SAFETY BARRIERS, SIGNAGE, AND PROTECTIVE EQUIPMENT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND COMPLYING WITH ON-SITE SAFETY REQUIREMENTS.
11. **SITE ACCESS:**
ENSURE THAT SITE ACCESS POINTS, STAGING AREAS, AND STORAGE LOCATIONS ARE CLEARLY MARKED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
12. **CHANGES:**
ANY CHANGES TO THE CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE AUTHORIZING LICENSED PROFESSIONAL.
13. **COORDINATION:**
COORDINATE ALL WORK WITH OTHER DISCIPLINES AND TRADES AND ENSURE THAT ALL INSTALLATIONS DO NOT INTERFERE WITH EXISTING OR PLANNED WORK. ANY DISCREPANCIES BETWEEN DISCIPLINES OR DRAWINGS OR IN THE FIELD SHALL BE REPORTED TO THE AUTHORIZING LICENSED PROFESSIONAL IMMEDIATELY.
14. **INSPECTIONS:**
SCHEDULE AND PERFORM ALL REQUIRED INSPECTIONS AS REQUIRED BY LOCAL AUTHORITIES AND THE AUTHORIZING LICENSED PROFESSIONAL. NOTIFY THE AUTHORIZING LICENSED PROFESSIONAL A MINIMUM OF 72 HOURS PRIOR TO REQUIRING THE INSPECTION. DO NOT COVER ITEMS TO BE INSPECTED PRIOR TO INSPECTION.
15. **CLEAN UP:**
MAINTAIN A CLEAN AND ORDERLY WORK SITE. REMOVE DEBRIS AND WASTE MATERIALS PROMPTLY.
16. **SUBMITTALS:**
SUBMIT ALL REQUIRED SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES TO THE AUTHORIZING LICENSED PROFESSIONAL FOR REVIEW AND APPROVAL BEFORE FABRICATION OR INSTALLATION.

NO.	ISSUED FOR:	ISSUED DATE:	BY:
CD-P00	IFP	2026-01-09	TE
CD-A1	IFR	2025-12-18	TE

ISSUED DRAWINGS

SAFRENE CONSTRUCTION - PROPOSED CRU BUILDING

LAND DESCRIPTION: BLK/PAR O-PLAN 102468753 EXT 0
SOURCE QUARTER SECTION: SW-29-17-18-2
RM OF EDENWOLD NO.158

BRANT SAFINUK
1-162 HUSUM RD
RM OF SHERWOOD, SK S4K 0A4

AUTHORIZATION

PROFESSIONAL ENGINEER
BRANT SAFINUK
LICENCE NUMBER 35203
2026-01-09
YR. MN. DAY
SASKATCHEWAN

VALIDATION

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Kiras Engineering Ltd.
Number 02228
Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
STRUCT	51629	
BLDG	51629	

DETAILS

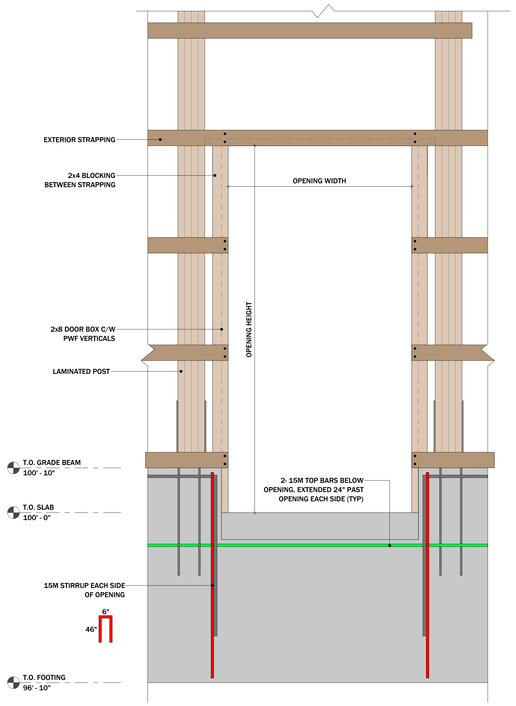
PROJECT NO:	SCALE:	PLOT SIZE:
23037	AS NOTED	36x48

PROJECT LEAD	Checker
PROJECT MANAGER	Checker
STRUCTURAL DESIGN LEAD	Designer
BIM MODELLER	PV

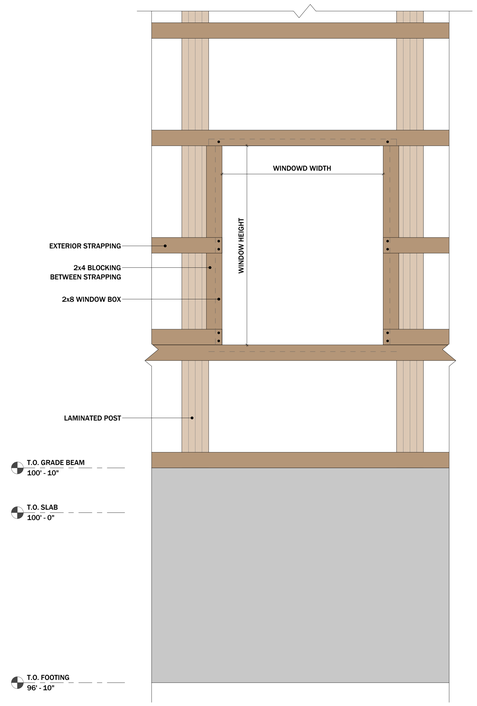
CD-A1

S502

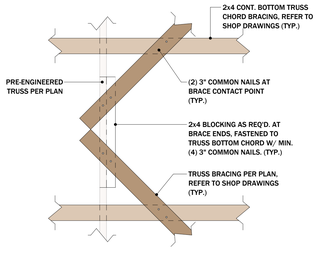
CD-P00



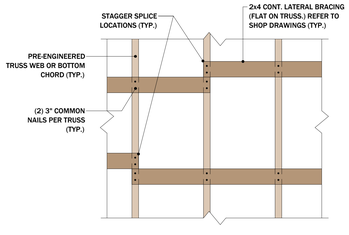
1 **TYPICAL DOOR FRAMING**
1" = 1'-0"



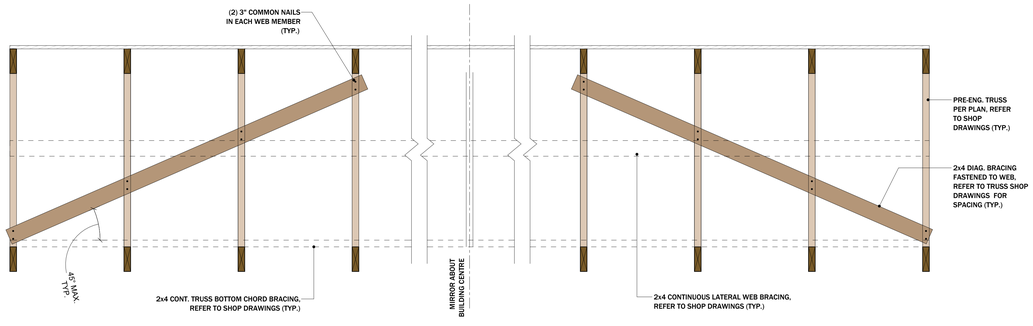
2 **TYPICAL WINDOW FRAMING**
1" = 1'-0"



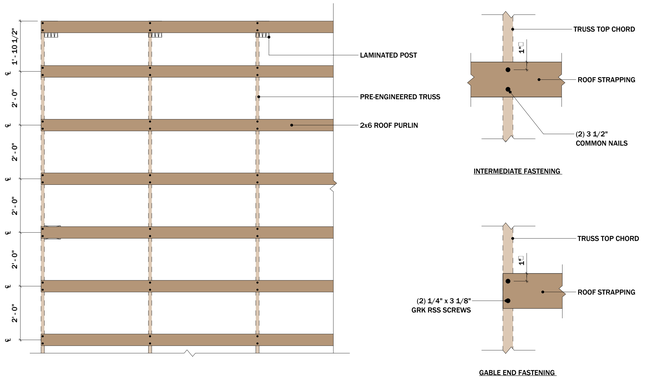
3 **TYPICAL TRUSS BOTTOM CHORD BRACING CONNECTION**
1" = 1'-0"



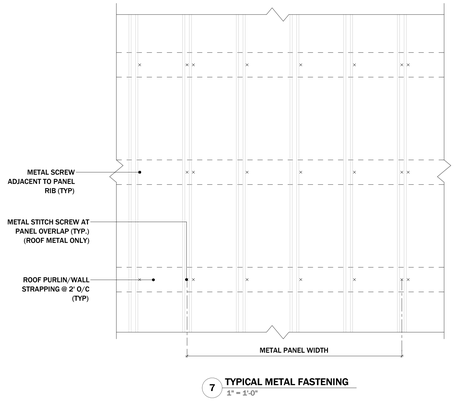
4 **TYPICAL LATERAL TRUSS BRACING CONNECTION**
1" = 1'-0"



5 **TYPICAL DIAGONAL TRUSS BRACING**
1" = 1'-0"



6 **TYPICAL ROOF PURLIN CONNECTION**
1/2" = 1'-0"



7 **TYPICAL METAL FASTENING**
1" = 1'-0"

KIRAS ENGINEERING

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AUTHORIZATION

PROFESSIONAL ENGINEER — TIMOTHY KIRAS — NUMBER 35203 — 2026-01-09 (YR MN DAY) — SASKATCHEWAN

VALIDATION

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Kiras Engineering Ltd.
Number 62228
Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
STRCT	51629	
BLDG	51629	

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