

Public Hearing - Development Permit DP-024-24

A G E N D A: Public Hearing to be held on
Thursday, July 18, 2024 at 9:00 A.M.
Virtual - Meeting ID: 640384789

<https://video.businessconnect.telus.com/join/640384789>

And with Council physically present in the County Council Chambers, Smoky Lake.

1. Opening:

- Public Hearing is called to order.
- Public wishing to be heard must sign in on the sign-in sheet.
- Confirmation is provided that the Public Hearing was advertised and notice was provided in accordance with the applicable legislation.
- Purpose of the hearing is summarized:
To obtain public input in regard to Development Permit DP-024-24: Supportive Living Facility, located on the lands legally described as River Lot 15, Victoria Settlement (North side of Victoria Trail) – Direct Control (DC2) District.
- Ground rules of the hearing and order of speaking are reviewed.

2. Staff Presentation:

- Smoky Lake County Planning Staff make their presentation(s).
- Council asks questions and/or request points of clarity.

3. Public Presentations via Written Submissions:

- Written submissions are read.
- Council asks questions and/or request points of clarity.

4. Public Presentations at the Public Hearing:

- Proponent's presentation.
- Persons signed in whom are **in opposition** to the proposed bylaw are called upon to speak.
- Council asks questions and/or request points of clarity.
- Persons signed in whom are **in support** of the proposed bylaw are called upon to speak.
- Council asks questions and/or request points of clarity.
- Anyone else who has not spoken and wishes to speak is called upon to speak.
- Council asks questions and/or request points of clarity.

5. Questions and Answers:

- Any Council member having any additional questions of any speaker or of the staff or those who have spoken may speak.

6. Closing Remarks:

- Declare the Public Hearing closed.



Meeting Date: Thursday, July 18, 2024

Topic: Development Permit DP-024-24: Supportive Living Facility, located on the lands legally described as River Lot 15, Victoria Settlement (North side of Victoria Trail) – Direct Control (DC2) District

Presented By: Planning & Development Services

Background: On October 4, 2023, the Metis Nation of Alberta submitted an application to amend Land Use Bylaw No. 1272-14, for the purposes of developing a 75-bed treatment facility (Supportive Living Facility). As administration began conducting its review of the application, it was determined that Land Use Bylaw No. 1272-14 did not include a definition for Supportive Living Facilities, nor did it include the necessary provisions to effectively ensure that these facilities are properly addressed and located in appropriate locations.

Bylaw No. 1453-23 was given First Reading on November 23, 2023. A Public Hearing on Bylaw No. 1453-23 was held on December 14, 2023, to hear arguments in support of and against the proposed Bylaw. Bylaw No. 1453-23 received Second and Third Readings on April 25, 2024.

Following the adoption of Bylaw No. 1453-23, the Applicant (The Metis Nation of Alberta) submitted an application for a Development Permit to Smoky Lake County. Administration has been working with the applicant to ensure the necessary documentation has been provided to Smoky Lake County prior to consideration of said application.

The proposed location of the Supportive Living Facility, the lands legally described as River Lot 15, Victoria Settlement, were redistricted to Direct Control (DC2) District by Bylaw No. 1453-23, thus making Council the Development Authority for this application. As the Development Authority, Council is the decision-maker with respect to whether or not a Development Permit is issued, and if a Development Permit is issued, what conditions it will be subject to.

While there is no statutory requirement to hold a Public Hearing on a Development Permit application within a Direct Control District, administration is recommending that a Public Hearing be held as the proposed Development has attracted a significant amount of public interest and has been the subject of numerous questions, comments and concerns raised by members of the public. Administration believes that in the spirit of public interest in the project that it would be prudent and beneficial to all parties for the proposed Development Permit to be the subject of a Public Hearing where all parties have an opportunity to be heard.

Administration has reviewed the Development Permit application and supporting documentation and provides a summary of the main points for reference:



GENERAL

- The proposed Supportive Living Facility will have a maximum capacity of 75 patients at any given time.
- The proposed Supportive Living Facility is approximately 4,236 square meters (45,600 square feet) in ground floor area and will have a maximum height of 8.1 meters (26.5 feet).
- The proposed Supportive Living Facility is being designed as a “recovery community” where clients will live on-site in a secure facility and will have access to services including opioid agonist treatment, counselling and employment supports.
- The proposed Supportive Living Facility will be a secure facility, including card-based access and on-site security monitoring of residents’ and staff’s activities.

WASTEWATER SERVICING

- The Applicant proposes to install a septic holding tank with a minimum holding capacity of 120,000 liters (4,237 cubic feet). The proposed use of a septic holding tank is congruent with Policy #56 of Smoky Lake County Bylaw No. 1305-17: *Victoria District Area Structure Plan* which requires that sanitary services for all developments located within the Plan area be provided as individual onsite systems.
- The Applicant’s engineers provided volume calculations per fixture by using the Alberta Private Sewage Disposal Systems Standard of Practice (2021), totaling 1.94 liters per second.
- All wastewater will be hauled by the Applicant from the site to sewage lagoons at the Hamlet of Warspite (primary) and the Hamlet of Bellis (secondary) at the sole expense of the Applicant.
- The Planning and Development Manager has confirmed with the County’s Environmental Operations Department that these lagoons have enough existing capacity to accommodate the estimated volume of wastewater that will be generated by the proposed Supportive Living Facility.

SOLID WASTE SERVICING

- The Applicant proposes to use outdoor garbage and recycling bins.
- Administration recommends that these bins be located in a corral that is screened from public view pursuant to Section 6.17.3 of Smoky Lake County Land Use Bylaw No. 1272-14.

WATER SERVICING

- The Applicant proposes to install a portable cistern with a minimum holding capacity of 120,000 liters (4,237 cubic feet) for its potable water needs. The proposed use of a portable cistern is congruent with Policy #56 of Smoky Lake County Bylaw No. 1305-17:



Victoria District Area Structure Plan which requires that water services for all developments located within the Plan area be provided as individual onsite systems.

- The Applicant's engineers provided volume calculations per fixture by using the National Building Code, totaling 7.6 liters per second.
- All potable water will be hauled from off-site at the sole expense of the Applicant.

STORMWATER MANAGEMENT

- The Applicant proposes the use of onsite swales and drainage ditches to capture stormwater before eventual discharge to the County ditch within the right-of-way of RGE RD 174A.

ON-SITE FIRE SUPPRESSION

- The Applicant proposes to construct a 50,000 gallon pond that will provide on-site water for fire suppression purposes.
- The Applicant proposes install a diesel-powered pump in conjunction with the proposed pond.
- Both the pond and the diesel-powered pump will be fenced for additional security and public safety.

ARCHITECTURAL DESIGN

- Smoky Lake County Bylaw No. 1305-17: *Victoria District Area Structure Plan* contains a number of policies that require specific design elements to be incorporated into developments located within the Plan area.
- Policy #65 requires an Applicant to submit elevation and façade information with a Development Permit application. The Applicant has satisfied this requirement.
- Policy #67 stipulates that commercial buildings located within the Plan area **may** be required to incorporate aspects of the Significant Architectural Features identified in Appendix B of the Bylaw. These Features include:
 - Shingled roof;
 - Gabled roof;
 - Log Construction;
 - 1.5/2 storey height;
 - Siting near Victoria Trail;
 - Cedar Shingle Siding;
 - South Facing;
 - Rectangular massing;
 - Symmetry in features;
 - Steep pitched roof;
 - White lathe finish;
 - White washing siding;



- Beveled siding;
- Plaster siding; and
- Exterior wall buttresses.
- The Applicant has incorporated several of these Significant Architectural Features in the proposed design including the use of gabled roofs, shingled roof, 1.5 storey height, rectangular massing and symmetry in features.
- Policy #69 stipulates that two of the three following options must be met, while encouraging that all three are met:
 - Option #1 - Future residential developments in the Plan area shall be a maximum of two storeys in height (not including the roof).
 - Option #2 - Rooflines of future developments in the plan area shall incorporate a steeply pitched roof (a rise/span ratio of 14:12 or greater).
 - Option #3 - Future residential, commercial and institutional developments in the Plan area shall generally be rectangular in shape.
 - The Applicant's proposed design satisfies Option # 1 and Option #3.
- Policy #70 stipulates that building features such as doors, windows, chimneys, dormers and gables should achieve symmetry in the overall design for commercial buildings within the Plan area. The Applicant's proposed design satisfies the intent of this Policy.
- Policy #72 stipulates that building colours and materials shall meet two of the three options below:
 - Option #1 – Heritage colours and/or natural wood shades shall be the principle colour of future residential, commercial and institutional buildings within the Heritage and Environment Area; the Commercial Area, and the Country Residential Area. Other colours may be used to highlight design and accent features such as trim, facia, windows, doors and porches.
 - Option #2 – Exterior finishes of future residential, commercial and institutional developments shall utilize or simulate the use of horizontal wood and/or shingle siding on the portion of the structure facing Victoria Trail and/or visible from the Victoria Trail.
 - Option #3 – For new developments, shingles or other roofing materials are to be selected from solid dark colour shades or heritage colours.
 - Despite the proposed development being located within the Agricultural Area and therefore exempt from the conditions imposed by Option #1, the Applicant's proposed colour scheme for the principal colour and accent features complies with the intent of Option #1.
 - The Applicant's proposed siding simulates the look of horizontal wood and therefore complies with the intent of Option #2.
 - The Applicant's proposed roofing materials satisfy the intent of Option #3.



GEOTECHNICAL ANALYSIS

- County administration requested that a geotechnical investigation be conducted by the Applicant pursuant to Policy #1 and Policy #24 of Smoky Lake County Bylaw No. 1305-17: *Victoria District Area Structure Plan*.
- The Applicant has provided a geotechnical investigation conducted by Shelby Engineering Ltd., dated May 29, 2024.
- The geotechnical investigation advanced 12 test holes and makes recommendations for foundation types that are feasible to support the proposed development. Administration recommends that adherence to the findings of the geotechnical investigation be made a condition of Development Permit approval.

FENCING

- Existing buffalo fencing is proposed to be used to secure the site during construction of the proposed development.
- During the final stages of construction, the applicant proposes to install an alternative fence for the front portion of the property (north-south along RGE RD 174A), subject to approval from the Development Authority.

ACCESS, TRAFFIC COUNTS, AND INTERNAL ROADS & PARKING

- The Applicant proposes a single access point off of RGE RD 174A to access the subject site.
- The Applicant will be required to obtain approval via an Approach Permit from the County's Road Foreman prior to construction of the proposed access.
- The proposed access will be required to meet the minimum specifications and standards established by Smoky Lake County Policy No. 03-05: *Approaches*, including, where applicable, the installation of an appropriately-sized culvert.
- The Applicant proposes to use a compacted gravel surface for both the internal road network and the parking areas.
- The parking area, including the dimensions of each stall, shall comply with Section 6.13 of Smoky Lake County Land Use Bylaw No. 1272-14.
- Should any improvements to the intersection of a highway and a local road be required as a result of the proposed development, the cost of those improvements shall be borne solely by the proponent, pursuant to Policy # 59 of Smoky Lake County Bylaw No. 1305-17: *Victoria District Area Structure Plan*.
- A traffic impact assessment conducted in 2005 for the Metis Crossing development was submitted as part of this Application and was supplemented with the following estimates of traffic volumes that will be generated by the proposed development:
 - Private vehicles (2 people per vehicle) = 14,000/year
 - Water and wastewater hauling vehicles = 200/year
 - Grocery/general supply vehicles = 110-135/year



- Handicap bus/multi-passenger transportation for families to visit = 35-60/year
- TOTAL VEHICLE TRAFFIC = 14,395/year (40 vehicles/day)
- The numbers above were calculated based on the following assumptions:
 - Private vehicles – based on staff required to operate the facility, maintenance workers, and four to six visitors per month per resident.
 - Water and wastewater hauling – one to two times per week for each water and wastewater.
 - Food and dry goods supply – one delivery per week or less (large amount of on-site dry and cold storage space reduces the number of deliveries required).
 - Medical/office/general supplies – no more than one delivery per week.
 - Miscellaneous or fast-delivery items – two to three times per month.

LANDSCAPING

- The Applicant proposes the use of a mix of Golden Willow and Columnar White Pine trees as perimeter screening.
- The proposed trees will be located inside of the proposed perimeter fencing.
- Administration recommends that as a condition of an approved Development Permit, that no tree clearing along the boundary of the lot be permitted, pursuant to Policy # 4 of Smoky Lake County Bylaw No. 1305-17: *Victoria District Area Structure Plan*.



APPENDIX "A" - PROPOSED CONDITIONS FOR DEVELOPMENT PERMIT DP-024-24

1. The proposed Development shall be sited and constructed as per the Site Plan, Overall Floor Plan (Drawing A2.1), Building Elevations (Drawing A4.1), Area 1 & 2 Building Elevations (A4.11), Area 3 & 4 Building Elevations (A4.12), Area 5 & 6 Building Elevations (A4.13), Area 7 Building Elevations (A4.14), Area 8 & 9 Building Elevations (A4.15), & Overall Building Sections (A5.1), dated June 19, 2024, attached to, and forming part of, this Development Permit.
2. Minimum setbacks from property lines shall be as follows:
 - a. Minimum setback from property line adjacent to RGE RD 174A (west property line) = 60.0 meters (196.85 feet).
 - b. Minimum setback from property line adjacent to property to the north = 40.0 meters (131.23 feet).
 - c. Minimum setback from property line adjacent to Victoria Trail (south property line) = 1,000 meters (3,280.84 feet).
 - d. Minimum setback from property line adjacent to property to the east = 40.0 meters (131.23 feet).
3. The proposed Development shall conform to the relevant Policies contained within Smoky Lake County Bylaw No. 1305-17: *Victoria District Area Structure Plan*, as amended.
4. The proposed Development shall be constructed in accordance with the findings and foundation recommendations contained within the geotechnical analysis, prepared by Shelby Engineering, dated May 29, 2024, attached to, and forming part of, this Development Permit.
5. Water and sanitary services for the proposed Development shall be provided as individual on-site systems. The Developer shall be responsible for all costs associated with the installation, maintenance, operation and use of all water and sanitary service systems relating to the proposed Development. Water and sanitary systems must meet all provincial requirements and regulations in force at the time of installation of said systems. The Developer shall provide to the Development Authority for Smoky Lake County, proof of compliance with these requirements and regulations.
6. Individual franchise utilities (i.e. power, telecommunications, etc.) shall be provided underground wherever possible to eliminate visual clutter that may negatively impact local viewsapes. Above ground utilities shall be located to the satisfaction of the Development Authority for Smoky Lake County.
7. Landscaping shall be provided by the Developer in accordance with the Site Plan, and said landscaping shall serve to act as a visual buffer between the proposed Development, including the proposed parking area, and adjacent lands. Landscaping shall be designed and located so as that the placement of said landscaping does not impair the visibility required for safe movement of persons or traffic, subject to the satisfaction of the Development Authority for Smoky Lake County.
8. The Developer shall provide an off-street parking area in accordance with Section 6.13 of Smoky Lake County Land Use Bylaw No. 1272-14. The Developer shall provide a minimum of sixty (60) off-street parking stalls with the following dimensions
 - a. Minimum width of stall = 2.7 meters (8.86 feet);



- b. Minimum depth of stall = 6.1 meters (20.01 feet);
 - c. Minimum width of maneuvering aisle (one-way) = 7.3 meters (8.86 feet); and
 - d. Minimum overall depth (including stall depth on both sides of a one-way maneuvering aisle) = 19.5 meters (63.97 feet).
9. The off-street parking area shall be graded, drained, compacted and surfaced to the satisfaction of the Development Authority.
10. A minimum of one (1) loading space shall be provided with the following dimensions:
 - a. Minimum width of loading space = 4.0 meters (13.12 feet);
 - b. Minimum depth of loading space = 8.0 meters (26.24 feet); and
 - c. Minimum height clearance = 4.3 meters (14.10 feet).
11. The loading space area shall be graded, drained, compacted and surfaced to the satisfaction of the Development Authority.
12. All signs, erected on land or affixed to the exterior of a building or structure, require a Development Permit from Smoky Lake County. No signs, billboards or advertising structures shall resemble or conflict with a traffic sign, nor shall it be a traffic hazard. No sign shall be of such size or design as to, in the opinion of the Development Authority, obstruct the vision of persons using roads abutting the parcel. The maximum area of any sign shall be 3.0 square meters (32.29 square feet). A flashing, animated or illuminated sign shall not be permitted where, in the opinion of the Development Authority, it might be objectionable to nearby residents or interfere with the movement of traffic. The area around sign structures shall be kept clean and free from overgrown vegetation, and free from refuse material. The Development Authority may require an engineer-approved plan prior to the issuance of a Development Permit for a sign in order to ensure said sign does not threaten public safety.
13. Fencing shall be constructed of materials which are to the satisfaction of the Development Authority. The electrification of fencing shall not be permitted.
14. The proposed Development shall commence within twelve (12) months from the date of issuance of this Development Permit and shall be completed within five (5) years from the date of issuance.
15. The Developer shall be required to obtain any and all approvals, permits, licenses and authorizations from any and all agencies, departments and authorities as may be required.
16. The Developer shall be required to apply for, and obtain, the following Safety Codes Act Permits:
 - a. Building Permit;
 - b. Gas Permit;
 - c. Electrical Permit;
 - d. Private Sewage Disposal Systems Permit; and
 - e. Plumbing Permit.
17. The Developer shall be required to submit to Smoky Lake County Development Permit fees in accordance with Smoky Lake County Bylaw No. 1463-24: *Planning and Development Permit Fees*. Development Permit fees are charged at a rate of \$1.00/\$1,000.00 of construction value and shall be payable to the County prior to the issuance of the Development Permit.



18. Should any upgrade or improvements to an intersection of a highway and local road are required as a result of the proposed Development, the costs of such upgrades or improvements shall be borne by the Developer.
19. Outdoor lighting fixtures that incorporate flood lights to illuminate large areas of the subject lands or a building shall not be permitted. Lighting shall be designed with Crime Prevention Through Environmental Design (CPTED) wherever possible, to the satisfaction of the Development Authority. Light trespass onto adjacent properties should be avoided wherever possible.
20. The Developer shall provide on-site water for fire-suppression purposes to the satisfaction of the Development Authority.
21. The Developer, general and private contractors shall, during the course of construction, renovation and demolition, keep the land in a reasonable condition so as not to constitute a nuisance, and shall secure all manner of debris so as to prevent it from blowing onto any other private or public property. At the conclusion of construction, renovation and demolition, all building materials shall be removed from the site. As well, the Developer shall prevent excess soil and debris from being spilled onto public road allowances, streets, lanes and sidewalks.
22. Should solid waste be stored outdoors, it shall be stored in a corral or appropriately screened/fenced location that is locked and secured at all times.
23. Storage of medical and hazardous wastes shall be done in accordance with relevant Provincial and Federal laws and regulations pertaining to same. A Site Plan and Floor Plan identifying the location of secure areas for the storage of medication and hazardous waste shall be provided to the Development Authority prior to the proposed Supportive Living Facility commencing operations.
24. Prior to the commencement of operations of the proposed Supportive Living Facility, confirmation that the Facility has been inspected by an executive officer under the *Public Health Act*, R.S.A. 2000, c P-37, as amended, shall be provided to the Development Authority.
25. Prior to the commencement of operations of the proposed Supportive Living Facility, confirmation that the operator of the Facility has current insurance coverage in accordance with Section 5 of the *Supportive Living Accommodation Licensing Regulation*, shall be provided to the Development Authority.
26. Prior to the commencement of operations of the proposed Supportive Living Facility, confirmation of the Facility's operator's corporate status shall be provided to the Development Authority.
27. Prior to the commencement of operations of the proposed Supportive Living Facility, a written process shall be provided to the Development Authority outlining processes that promote the security and safety of residents, including processes that account for all residents on a daily basis and ensure proper monitoring mechanisms or personnel are in place on a continuous basis (24 hours per day).
28. Throughout the course of operation of the proposed Supportive Living Facility, the operator shall comply with all relevant Federal and Provincial laws and regulations, including but not limited to, the *Public Health Act*, R.S.A. 2000, c P-37, the *Supportive Living Accommodation Licensing Regulation*, and all relevant Bylaws of Smoky Lake



County. Failure to maintain compliance with legislation, regulations or bylaws may result in Smoky Lake County exercising its rights under the *Municipal Government Act*, R.S.A. 2000, c. M-26, and Smoky Lake County Land Use Bylaw No. 1272-14, to take enforcement action, including, but not limited to, issuance of a Stop Order or revocation of a Development Permit.

DEVELOPMENT PERMIT APPLICATION FORM

Internal Use Only

Our File Number: _____ Roll Number: _____ Your File Number: _____

Applicant Information

Applicant/Agent: Melewka Homes Ltd Phone: _____

Address: 25 Corriveau Ave Cell Phone: _____

City/Prov. St. Albert Postal Code: T8N 5A3 Fax: _____

Email address: _____ Signature: [Signature] LEWIS SEMBISHKIEWICH

Applicant/Agent Authorization: I am the applicant/agent authorized to act on behalf of the registered owner and that the information given on this form is full and complete and is, to the best of my knowledge, a true statement of the facts relating to this application.

Registered Landowner Information

Owner same as applicant

Registered Owner: METIS CROSSING LTD Phone: _____

Address: 17339 Victoria Trail Fax: _____

City/Prov. Smoky Lake, Alberta Postal Code: T0A 3C0 Signature: _____

Section A - Property Information

Division _____

Legal: Lot _____ Block _____ Plan _____ and Part of _____ 1/4 Sec _____ Twp _____ Rge _____ W4M

Subdivision Name (if applicable) or Area of Development VICTORI 15

Rural Address/Street Address RL-15-58-17-4 Parcel Size 158.55 Acres

Number of existing dwellings on property (please describe) 0

Has any previous application been filed in connection with this property? Yes No

If yes, please describe the details of the application and file number:

Rezoning Application

Is the subject property near a steep slope (exceeding 15%)? Yes No

Is the subject property near or bounded by a body of water? Yes No

Is the subject property within 800m of a provincial highway? Yes No 450m

Is the subject property near a Confined Feeding Operation? Yes No Distance: _____

Is the subject property within 1.5km of a sour gas facility? Yes No Distance: _____

Is the subject property within 1.5km of a sewage treatment plant/lagoon? Yes No Distance: _____

Is the subject property immediately adjacent to the County boundary? Yes No

If yes, the adjoining municipality is: RGE ROAD 174A SMOKY LAKE COUNTY.

Section B – Proposed Development Information

Estimated Cost of Project \$ _____

Estimated Commencement Date June 01, 2024 Estimated Completion Date June, 31, 2025

Dwelling:
 Floor Area 45,600 sq. ft. % of Lot Occupied 100% Height of Dwelling 8.1 ft / m

Accessory Building:
 Floor Area 0 sq. ft. % of Lot Occupied 0 Height of Acc. Bldg 0 ft / m

Parking: # of Off-Street Parking Stalls (if applicable) _____

Land Use District (Zoning) of Property: Victoria Commercial District

Description of Work:
75 Beds Recovery centre

Section C – Preferred Method of Communication

When a decision has been made on your file, do you wish for us to:

call you for pick up mail the decision email the decision

Section 608(1) of the *Municipal Government Act*, R.S.A. 2000, c. M-26, as amended states:

608(1) Where this Act or a regulation or bylaw made under this Section requires a document to be sent to a person, the document may be sent by electronic means if

- a) the recipient has consented to receive documents from the sender by those electronic means and has provided an e-mail address, website or other electronic address to the sender for that purpose.

I/we grant consent for the Development Authority to communicate information and/or the decision electronically regarding my/our application. YES NO

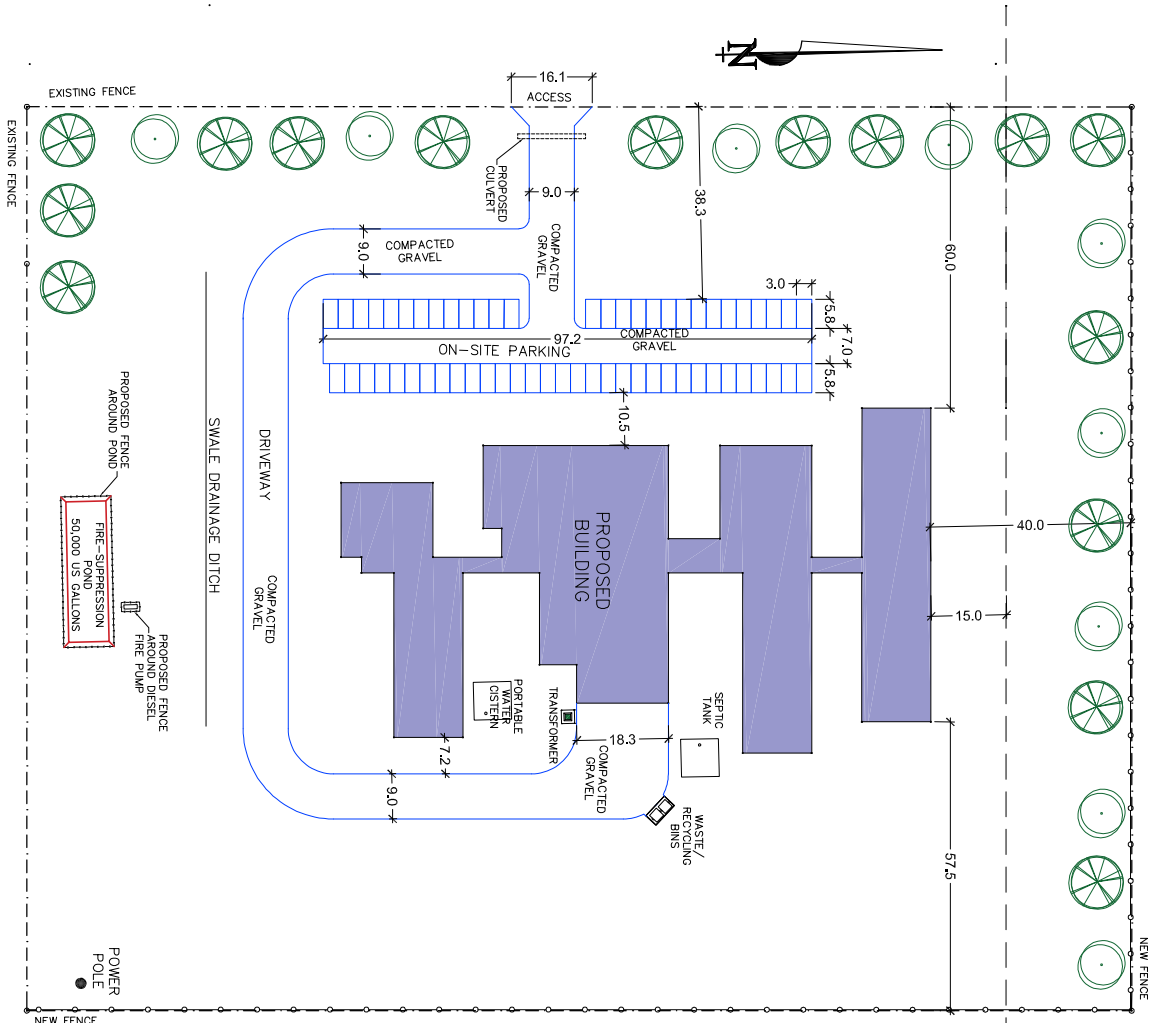
OFFICE USE ONLY

Type of Payment: DEBIT CASH CHEQUE
 Fee \$ _____
 Receipt # _____
 Receipt Date _____
 Date Received _____
 *and deemed complete by Development Authority.
 Entered into MuniSight PD # _____

Authorization:



Permitted Use Discretionary Use

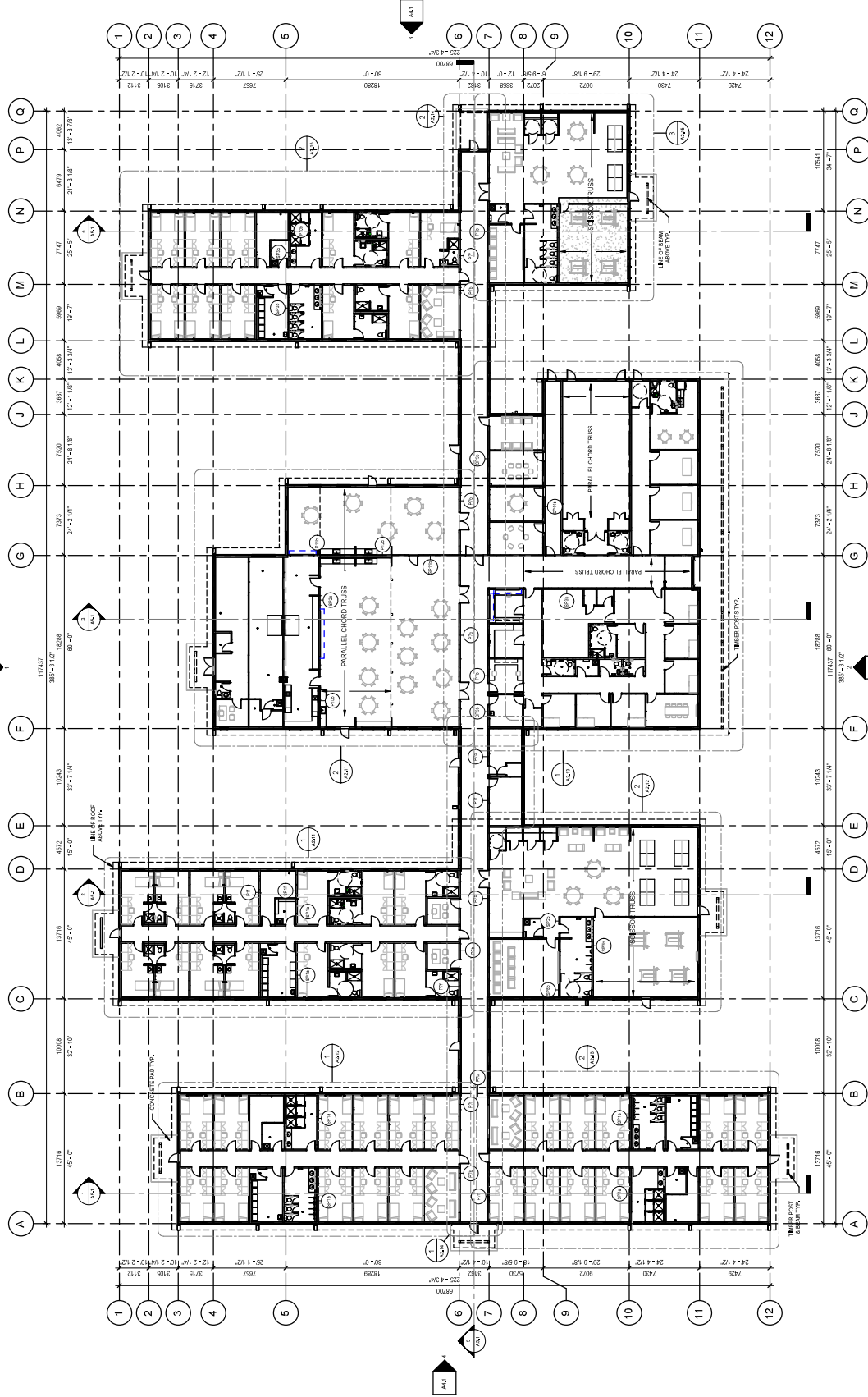
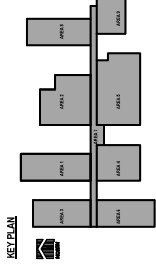
Issuing Officer's Name _____
 Issuing Officer's Signature _____
 Date of Approval _____
 Date Issued _____
 Comments and/or Variances _____



FIRE-SUPPRESSION POND
 APPROXIMATELY 50,000 US GALLONS
 POND DEPTH APPROX. 9'-0" DEEP
 OR ANY OTHER SIZE WITH VOLUME
 OF 6682 CUBIC FT.
 MINIMUM 2.0m FROM EDGE OF POND
 PROVIDE A FENCED AREA OF A 6FT
 BY 12FT FOR DIESEL FIRE PUMP

SEPTIC AND DOMESTIC WATER TANKS
 EACH NEED TO BE 4237 CU FT OR
 ABOUT 120,000LITERS FOR A WEEK OF
 STORAGE

-  GOLDEN WILLOW
SALIX ALBA VITELLINA'
-  COLUMNAR WHITE PINE
PINUS STROBUS 'FASTIGIATA'



MES ARCHITECTURE LTD.,
REGISTERED ARCHITECTS TO THE
ARCHITECTS ACT OF ALBERTA.

MELEWKA STRUCTURES &
DESIGN
1855 101 AVENUE SW,
CALGARY, ALBERTA T2C 0A8
TEL: 403.243.1100
WWW.MESARCHITECTURE.COM

List of Consultants

Structural: MELEWKA STRUCTURES & DESIGN
Mechanical: MELEWKA STRUCTURES & DESIGN
Civil: MELEWKA STRUCTURES & DESIGN
Landscape: MELEWKA STRUCTURES & DESIGN

MELEWKA STRUCTURES & DESIGN
Melewka Structures & Design
SKOKY LAKE ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

Notes:
Issued For Permit
Issued For Development Permit
Issued For Building Permit
Revisions:
1 FOR REVIEW

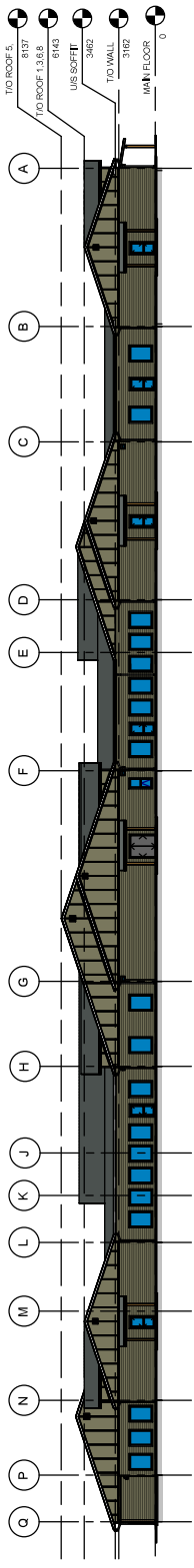
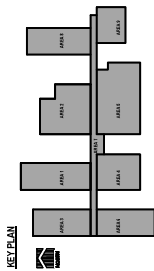
OVERALL FLOOR PLAN

Project number: MM24001
Date: 2024/06/19
Drawn by: DJ
Checked by: DJ

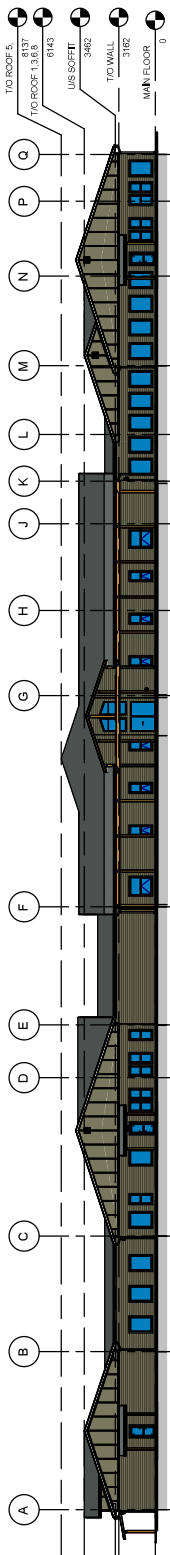
DO NOT SCALE DRAWINGS

A2.1

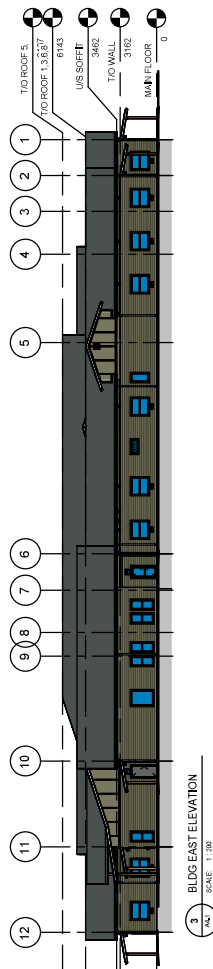




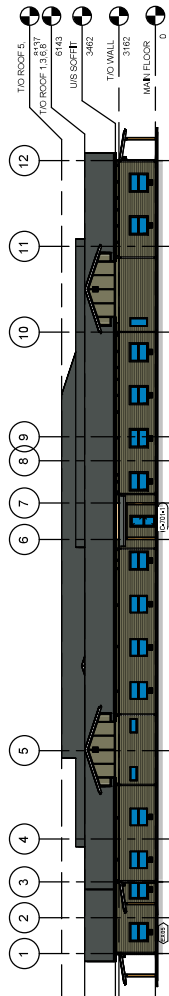
1. BLDG NORTH ELEVATION
SCALE 1:200



2. BLDG SOUTH ELEVATION
SCALE 1:200



3. BLDG EAST ELEVATION
SCALE 1:200



4. BLDG WEST ELEVATION
SCALE 1:200

List of Consultants

Structural	
Mechanical	
Electrical	
Civil	Zak Gouda/Key
Landscaping	

MELEWKA STRUCTURES & DESIGN

SKOOKY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

Notes

- Issued for Permit
- Issued for Development Permit
- Issued for Building Permit
- Revisions
- 1 FOR REVIEW

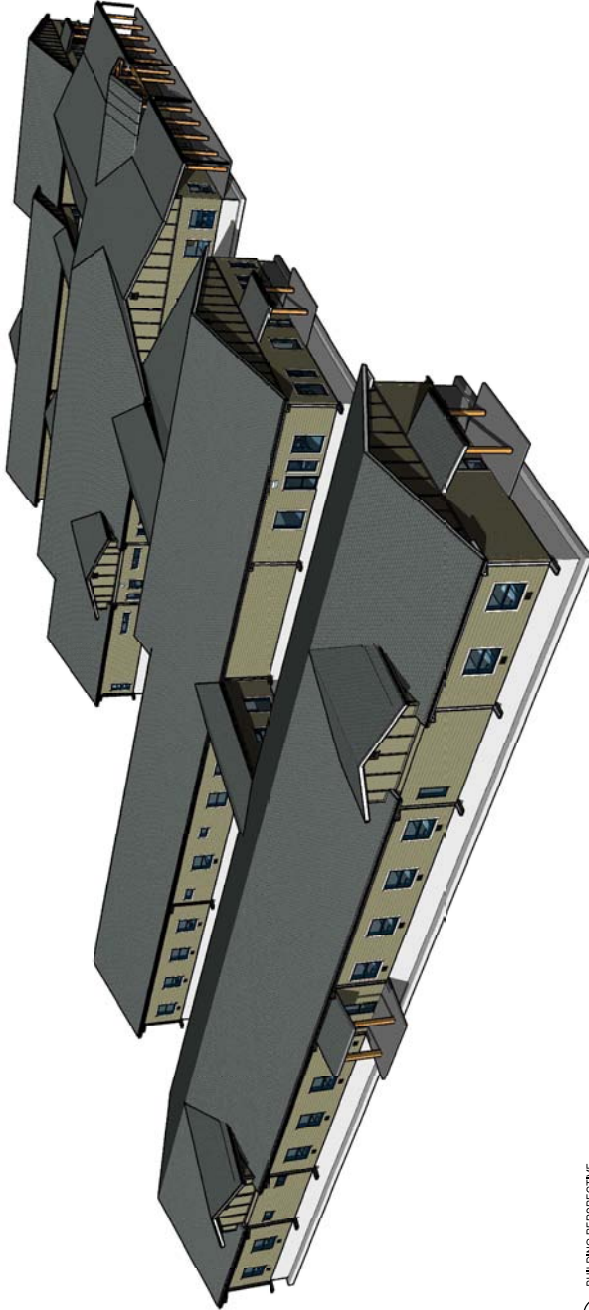
24/07/20

BUILDING ELEVATIONS

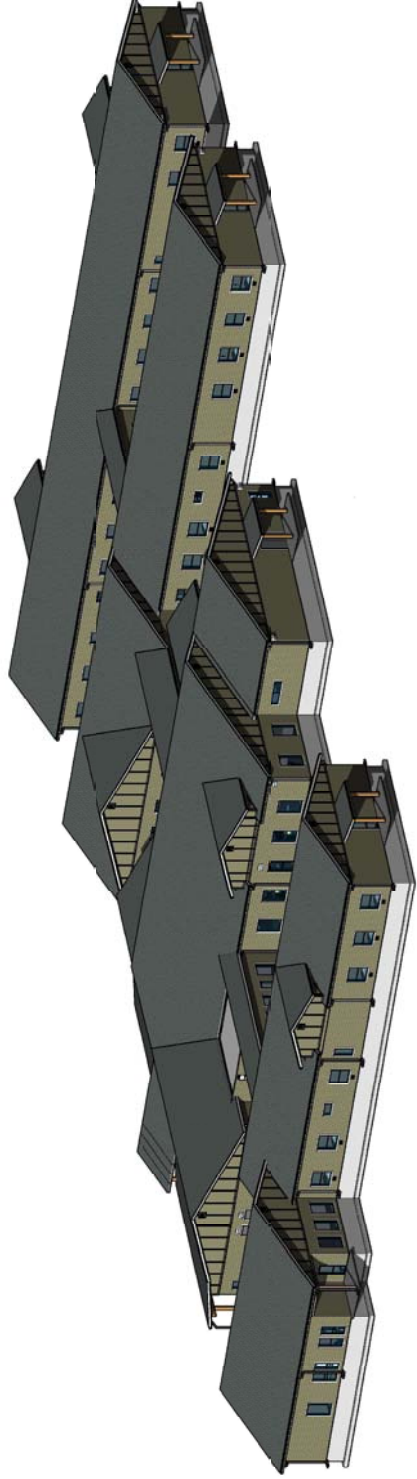
Project number	MMW001
Date	2024/06/19
Drawn by	Author
Checked by	Checker

DO NOT SCALE DRAWINGS

A4.1



1 BUILDING PERSPECTIVE
SCALE



2 BUILDING PERSPECTIVE
SCALE

MES ARCHITECTURE LTD.
REGISTERED ARCHITECTS TO THE
ARCHITECTS ACT OF ALBERTA

3015 100 Avenue S.W.
Edmonton, Alberta T6C 1B7
Canada
Phone: 780.443.1111
Fax: 780.443.1112
www.mesarchitect.com

List of Consultants

Structural	
Mechanical	
Electrical	
Civil	Zaha Group Inc.
Landscape	

MELEWKA STRUCTURES & DESIGN

Melewka
Structures & Design
SMOKY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

Notes

Issued for Permit

Issued for Development Permit

Issued for Building Permit

Revisions

1 FSP REVIEW

240527

BUILDING PERSPECTIVES

Project Number	MMA4001
Date	2020/05/19
Drawn by	Author
Checked by	Checker

DO NOT SCALE DRAWINGS

A4.2

MES ARCHITECTURE LTD.
REGISTERED PARLANT TO THE
ARCHITECTS ACT OF ALBERTA

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Edmonton, Alberta T6A 4S4
Canada
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www.mesarchitecture.com

List of Consultants

Structural	
Mechanical	
Electrical	
Cost	Zak Gouda/BA
Landscaping	

MELEWKA STRUCTURES & DESIGN

Melewka
Structures & Design
SKIRY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

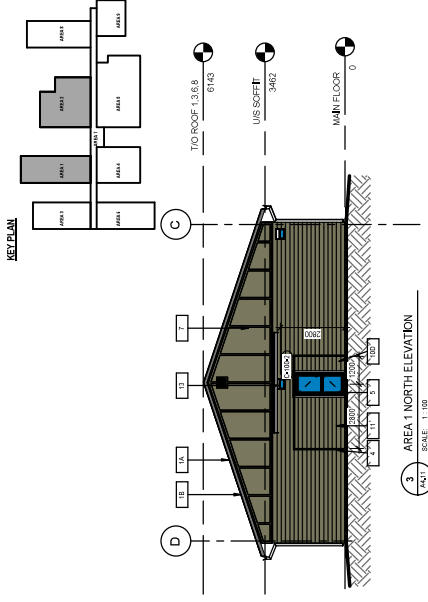
Notes:
Issued For Permit
Issued For Development Permit
Issued For Building Permit
Revisions:
1 FOR REVIEW

AREA 1 & 2 BUILDING ELEVATIONS

Project number	MM4001
Date	2024/03/19
Drawn by	Author
Checked by	Checker

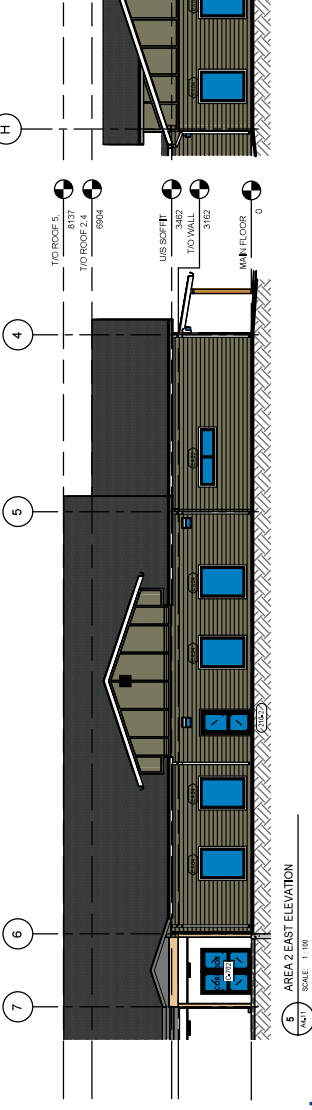
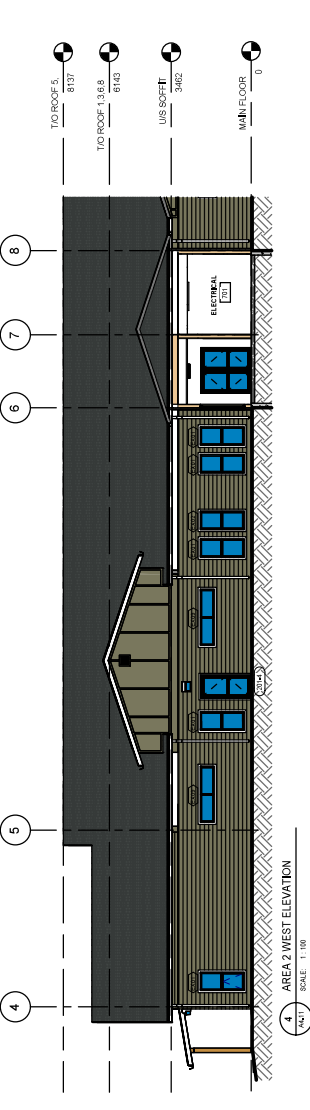
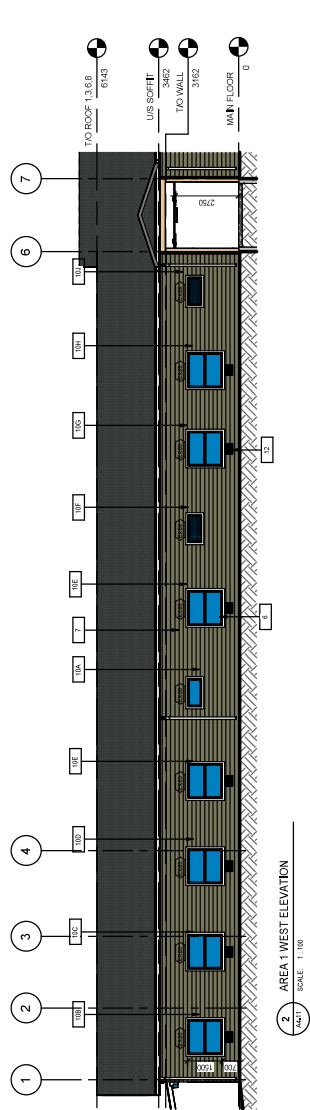
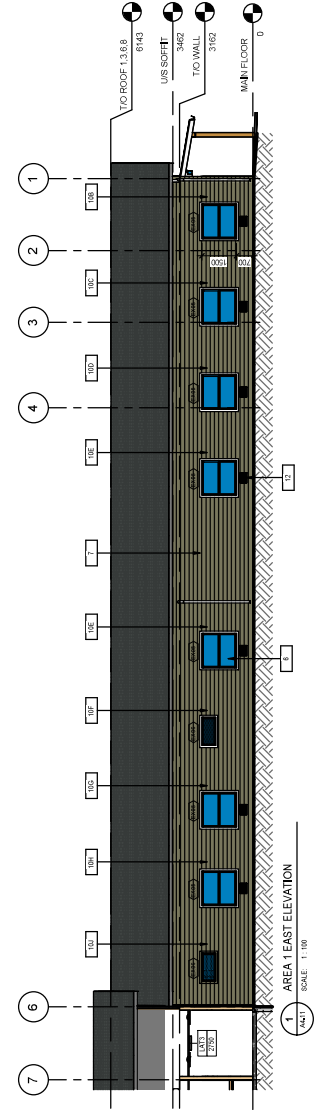
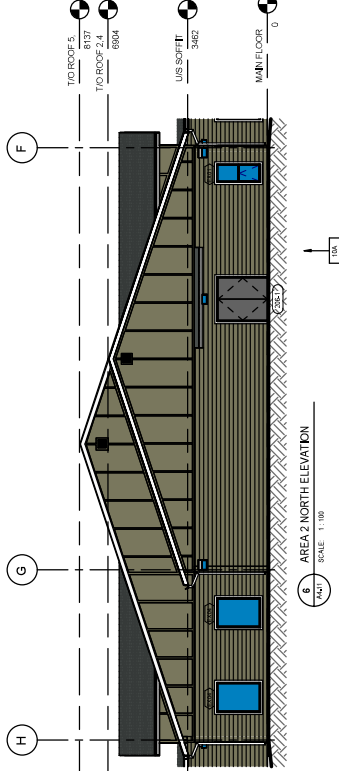
DO NOT SCALE DRAWINGS

A4.11



KEYNOTE LEGEND

KEYNOTE NO.	KEYNOTE TEXT
1A	OPTION 1 SLOPED ASPHALT SINGLE ROOF - COLOUR DARK GREY OR SIMILAR
1B	OPTION 2 SLOPED PREFINISHED STANDING SEAM METAL ROOF - COLOUR DARK GREY
2	PREFINISHED METAL GUTTER AND DOWNSPOUT - COLOUR WHITE
3A	18mm FIBRE CEMENT SMOOTH FASCIA - COLOUR WHITE
3B	PREFINISHED METAL FLASHING - COLOUR WHITE
4	INSULATED PLYWOOD METAL DOOR AND FRAME - COLOUR BLACK
5	INSULATED PLYWOOD METAL WINDOW FRAME - COLOUR BLACK
6	COLOURED GLASS BLOCK WINDOW - COLOUR GREEN OR SIMILAR
7	FIBRE CEMENT HORIZONTAL LAP SIDING - COLOUR MUDFLATS GREEN OR SIMILAR
8A	
8B	
10A	
10B	
10C	
10D	
10E	
10F	
10G	
10H	
10J	
11	SIEMENS CONNECTION - SEE MECHANICAL
12	MECHANICAL EQUIPMENT - SEE MECHANICAL
13	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL



MES ARCHITECTURE LTD.
 REGISTERED PARTNER TO THE
 ARCHITECTURE ACT OF ALBERTA

2024/06/19
 2024/06/19
 2024/06/19
 2024/06/19

MELEWKA STRUCTURES &
 DESIGN

MELEWKA
 STRUCTURES &
 DESIGN

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 DESIGN

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MELEWKA STRUCTURES &
 DESIGN

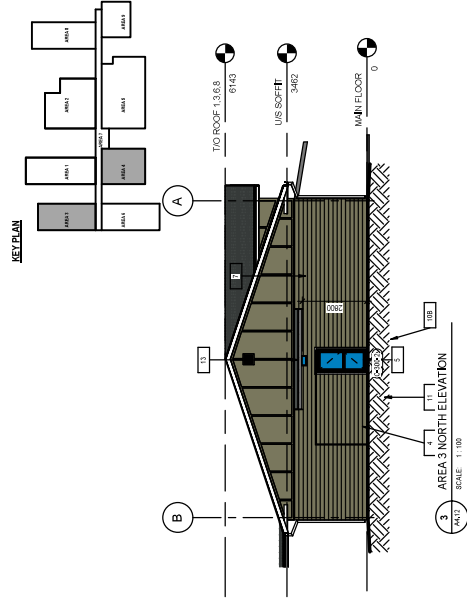
MELEWKA
 STRUCTURES &
 DESIGN

MELEWKA
 STRUCTURES &
 DESIGN

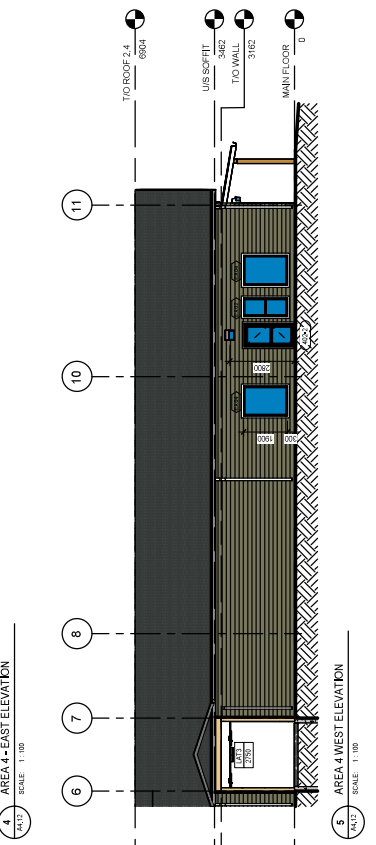
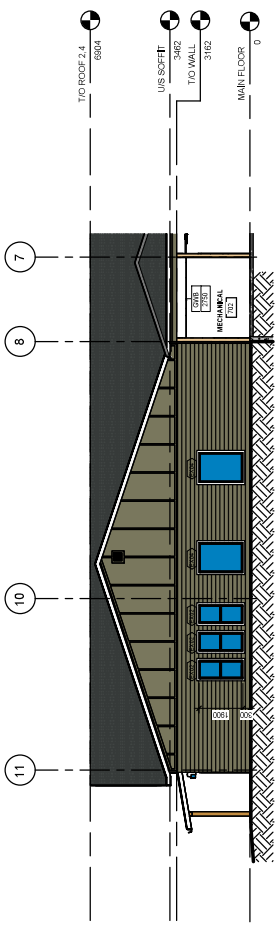
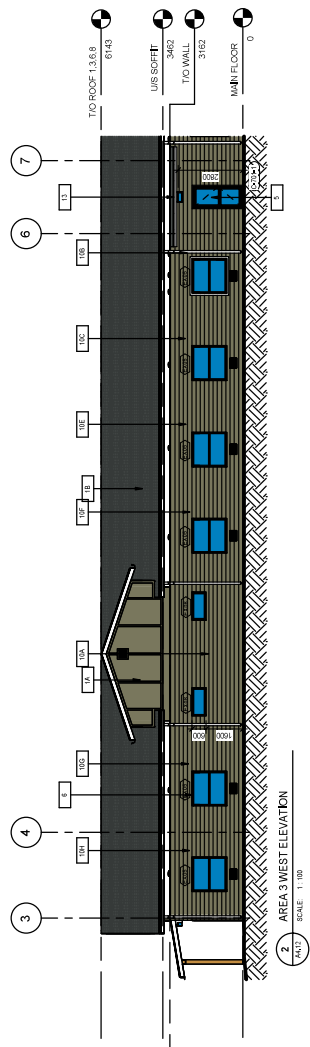
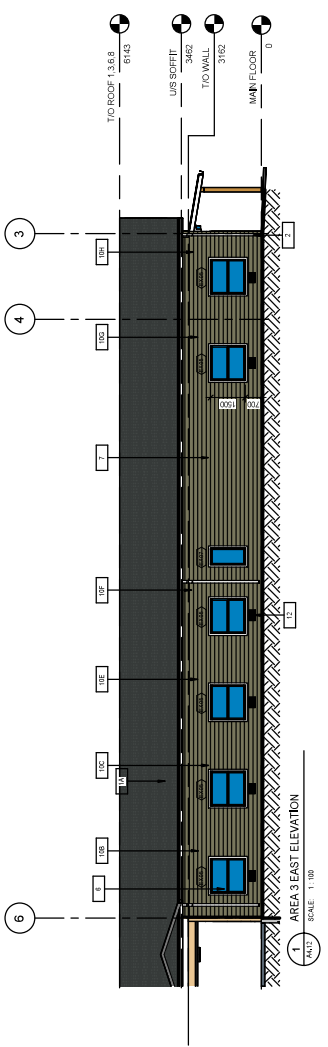
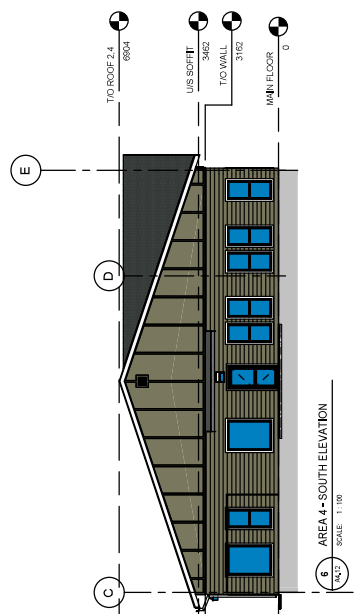
MELEWKA STRUCTURES &
 DESIGN

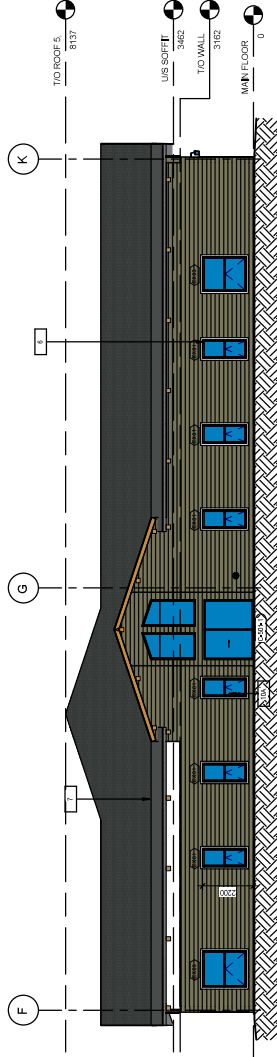
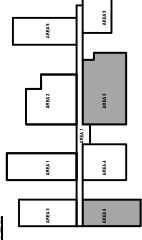
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 STRUCTURES &
 DESIGN

MELEWKA
 STRUCTURES &
 DESIGN

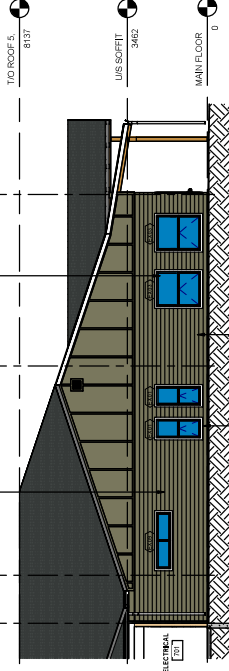


KEYNOTE NO.	KEYNOTE TEXT
1A	OPTION 1 SLOPED ASPHALT SINGLE ROOF
1B	OPTION 2 SLOPED PRE-FINISHED STANDING SEAM METAL ROOF - COLOUR DARK GREY
2	PRE-FINISHED METAL GUTTER AND DOWNSPOUT - COLOUR WHITE
3A	184mm FIBRE CEMENT SMOOTH FASCIA - COLOUR WHITE
3B	PRE-FINISHED METAL FLASHING - COLOUR WHITE
4	INSULATED YELLOW METAL DOOR AND FRAME - COLOUR BLACK
5	INSULATED YELLOW METAL WINDOW AND FRAME - COLOUR BLACK
6	FIBRE CEMENT HORIZONTAL LAP SIDING - COLOUR MUDPLATS GREEN OR SIMILAR
7	FIBRE CEMENT HORIZONTAL LAP SIDING - COLOUR MUDPLATS GREEN OR SIMILAR
8A	
8B	
10A	
10B	
10C	
10E	
10F	
10G	
10H	
10I	
10J	
11	GANTRY CONNECTION - SEE MECHANICAL
12	MECHANICAL EQUIPMENT - SEE MECHANICAL
13	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL

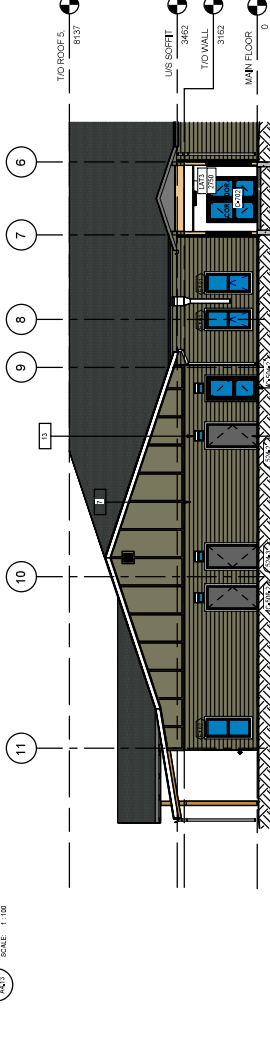




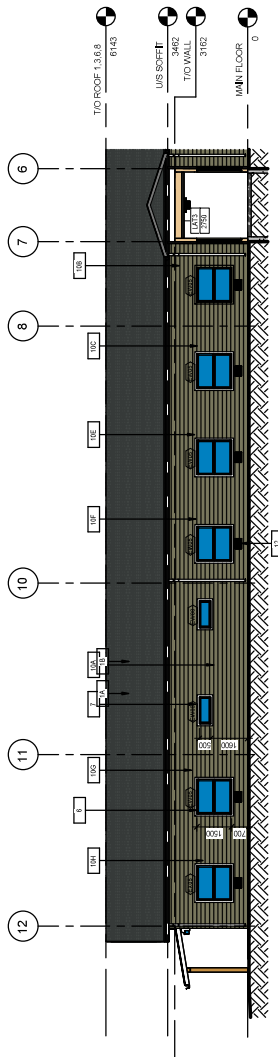
1 AREA 5 - SOUTH ELEVATION
SCALE: 1:100



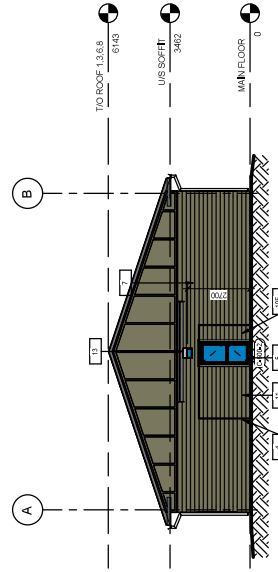
3 AREA 5 - WEST ELEVATION
SCALE: 1:100



2 AREA 5 - EAST ELEVATION
SCALE: 1:100



4 AREA 6 - EAST ELEVATION
SCALE: 1:100



5 AREA 6 - SOUTH ELEVATION
SCALE: 1:100

KEYNOTE NO.	KEYNOTE TEXT
1A	OPTION 1 SLOPED ASPHALT SHINGLE ROOF - COLOUR: SLATE GREY OR SIMILAR
1B	OPTION 2 SLOPED PRE-FINISHED STANDING SEAM METAL ROOF - COLOUR: DARK GREY
2	PRE-FINISHED METAL GUTTER AND DOWNSPOUT - COLOUR: WHITE
3A	184mm FIBRE CEMENT SMOOTH FASCIA - COLOUR: WHITE
3B	PRE-FINISHED METAL FLASHING - COLOUR: WHITE
4	PRE-FINISHED METAL DOWNPIPE - COLOUR: SLATE GREY OR SIMILAR
5	INSULATED METAL ROOFING - COLOUR: SLATE GREY OR SIMILAR
6	INSULATED METAL ROOFING - COLOUR: SLATE GREY OR SIMILAR
7	FIBRE CEMENT HORIZONTAL LAP SIDING - COLOUR: MUDPLATIS GREEN OR SIMILAR
8A	
8B	
10A	
10B	
10C	
10D	
10E	
10F	
10G	
10H	
10I	
10J	
11	SIAMSE CONNECTION - SEE MECHANICAL
12	MECHANICAL EQUIPMENT - SEE MECHANICAL
13	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL

MES ARCHITECTURE LTD.,
REGISTERED PARLANT TO THE
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1815 120th Avenue, Suite 101
Edmonton, Alberta T6E 4Y4
Tel: 780-443-1111
Fax: 780-443-1112
www.mesarchitecture.com

LIST OF CONSULTANTS

Structural: _____
Mechanical: _____
Electrical: _____
Civil: _____
Landscape: _____

MELEWKA STRUCTURES & DESIGN
Melewka Structures & Design
SMOXY LAKE, ALBERTA

METIS NATIONS OF ALBERTA
COMMUNITY RECOVERY CENTRE

Notes:
Issued For Permit
Issued For Development Permit
Issued For Building Permit
Revisions:
1 FOR REVIEW

24/04/21

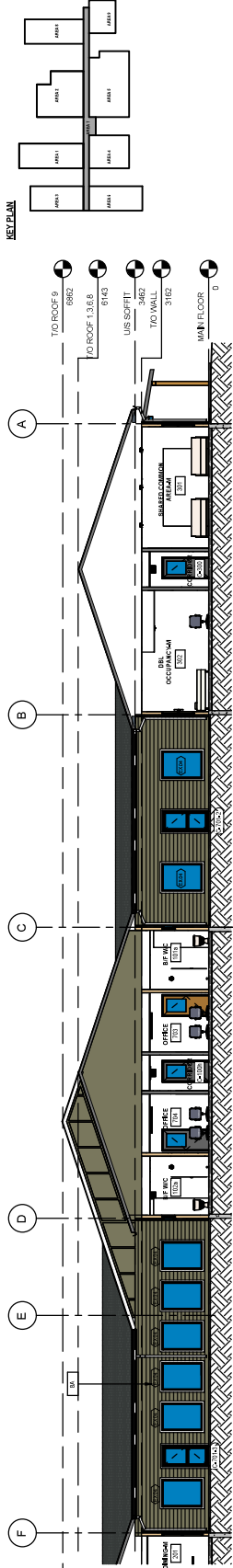
AREA 5 & 6 BUILDING ELEVATIONS

Project number: MM4001
Date: 2020/03/19
Drawn by: Author
Checked by: Checker

DO NOT SCALE DRAWINGS

A4.13

MEZPLAN



MES INC. IS REGISTERED, LICENSED AND QUALIFIED TO PROVIDE ARCHITECTURAL SERVICES TO THE ARCHITECTS ACT OF ALBERTA.

2024/08/13

List of Consultants

Discipline	Consultant
Structural	...
Mechanical	...
Electrical	...
Civil	...
Landscape	...

MELEWKA STRUCTURES & DESIGN

Melewka Structures & Design
SKOKY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

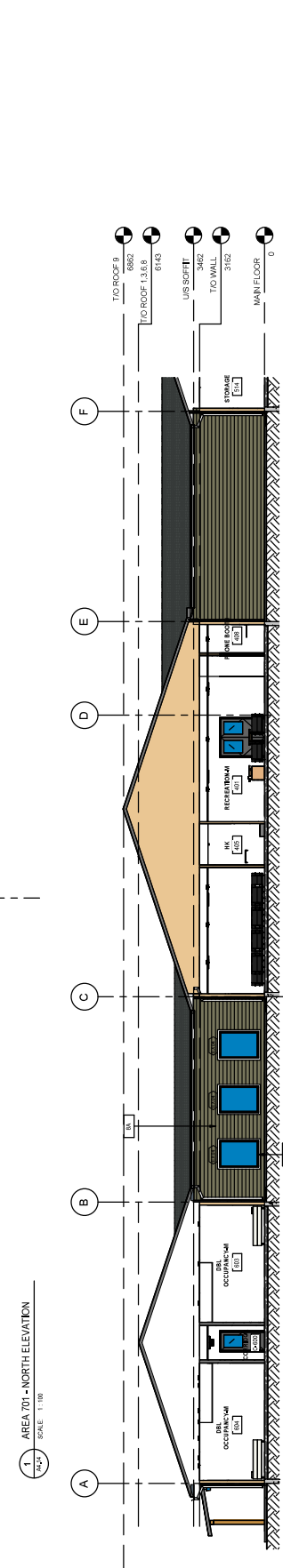
Issue for Permit
Issue for Development Permit
Issue for Building Permit
Revisions
1 FOR REVIEW

AREA 7 BUILDING ELEVATIONS

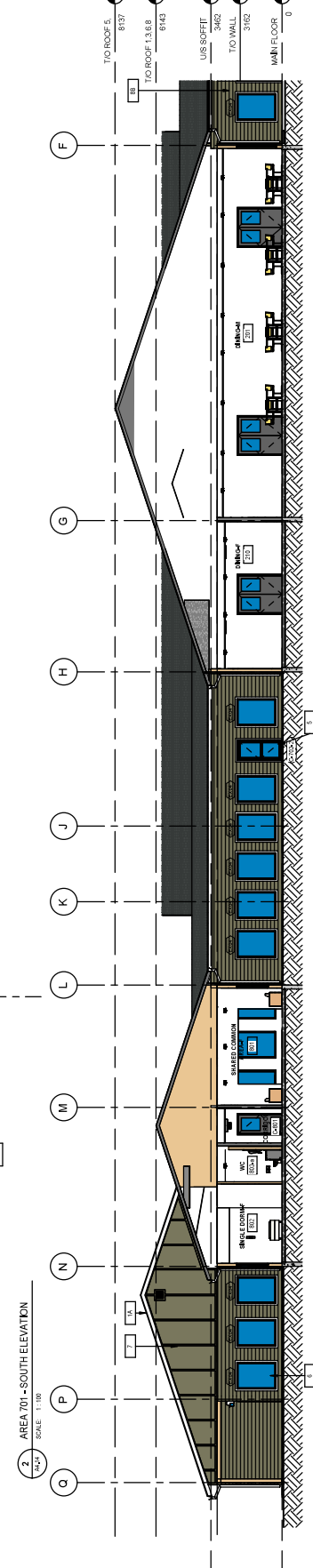
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Date	2024/08/13
Drawn by	...
Checked by	...

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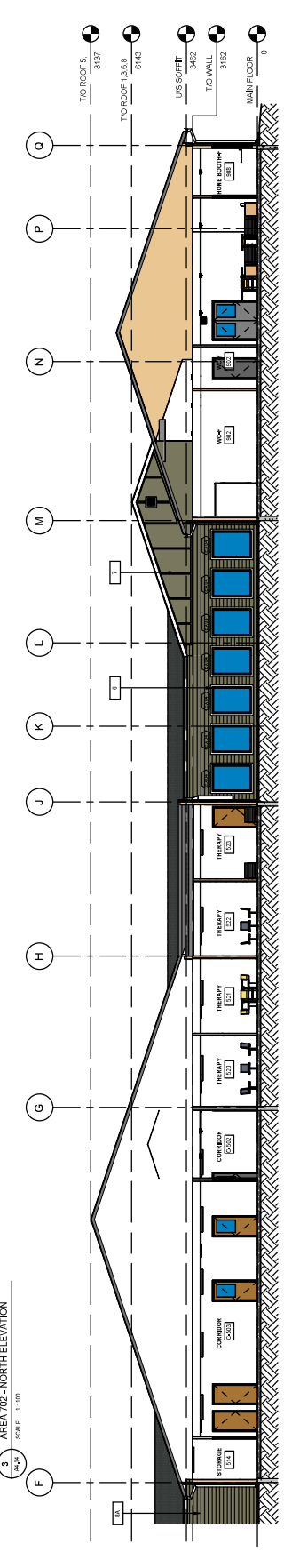
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1 AREA 701 - NORTH ELEVATION
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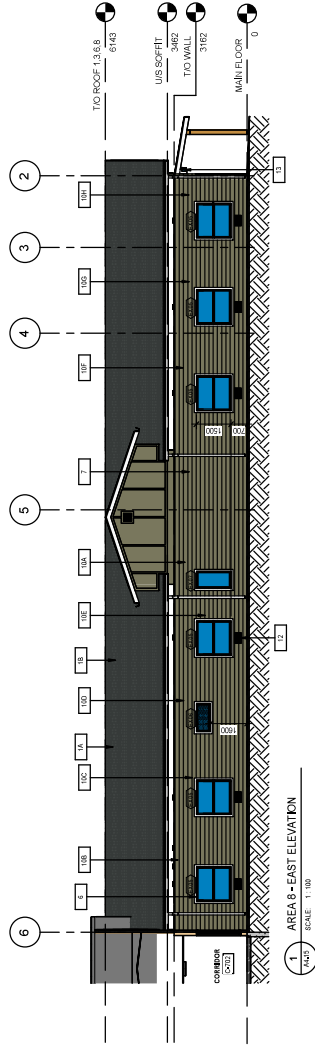
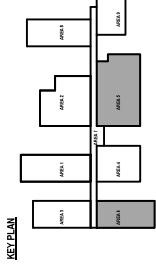
2 AREA 701 - SOUTH ELEVATION
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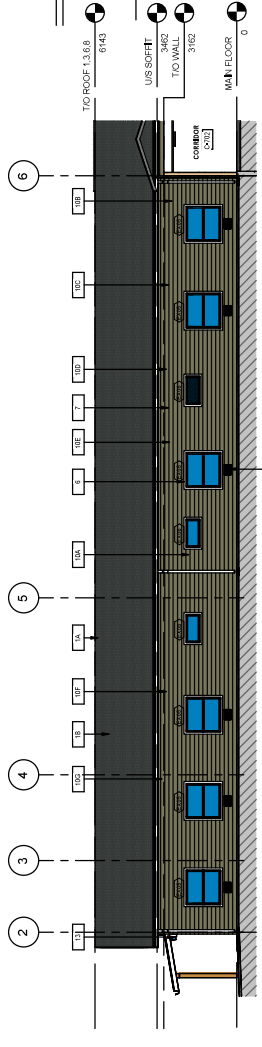
3 AREA 702 - NORTH ELEVATION
SCALE: 1:100



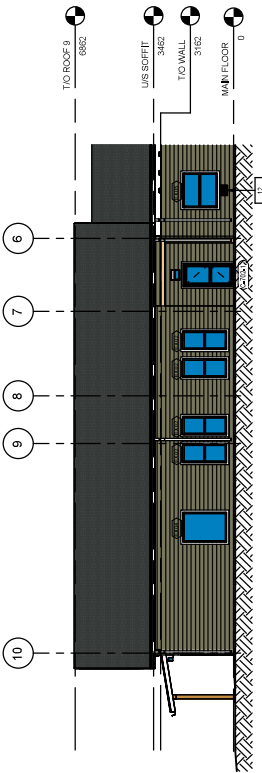
4 AREA 702 - SOUTH ELEVATION
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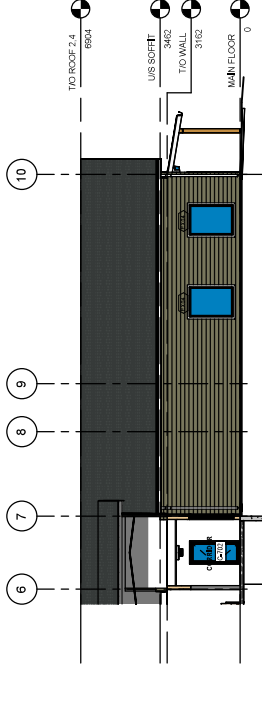
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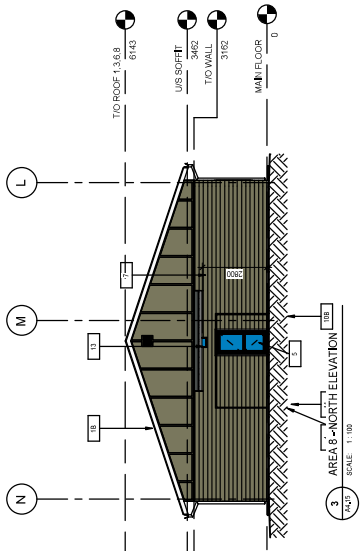
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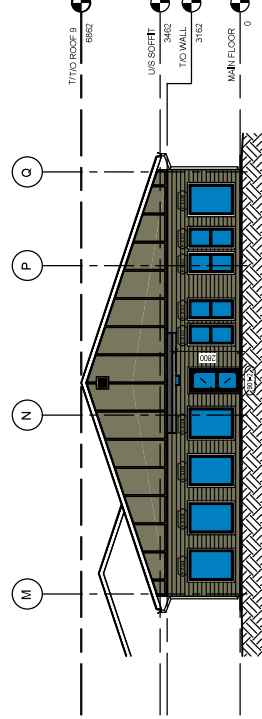
4 AREA 9 - EAST ELEVATION
SCALE: 1:100



5 AREA 9 - WEST ELEVATION
SCALE: 1:100



3 AREA 8 - NORTH ELEVATION
SCALE: 1:100



6 AREA 9 - SOUTH ELEVATION
SCALE: 1:100

KEYNOTE NO.	KEYNOTE TEXT
1A	OPTION 1 SLOPED ASPHALT SINGLE ROOF - COLOUR METAL GREY OR SIMILAR
1B	OPTION 2 SLOPED PRE-FINISHED STANDING SEAM METAL ROOF - COLOUR DARK GREY
2	PRE-FINISHED METAL GUTTER AND DOWNSPOUT - COLOUR WHITE
3A	184mm FIBRE CEMENT SMOOTH FASCIA - COLOUR WHITE
3B	PRE-FINISHED METAL FLASHING - COLOUR WHITE
4	18mm FIBRE CEMENT BOARD - COLOUR WHITE
5	18mm FIBRE CEMENT BOARD - COLOUR WHITE
6	18mm FIBRE CEMENT BOARD - COLOUR WHITE
7	18mm FIBRE CEMENT BOARD - COLOUR WHITE
8	18mm FIBRE CEMENT BOARD - COLOUR WHITE
9	18mm FIBRE CEMENT BOARD - COLOUR WHITE
10A	18mm FIBRE CEMENT BOARD - COLOUR WHITE
10B	18mm FIBRE CEMENT BOARD - COLOUR WHITE
10C	18mm FIBRE CEMENT BOARD - COLOUR WHITE
10D	18mm FIBRE CEMENT BOARD - COLOUR WHITE
10E	18mm FIBRE CEMENT BOARD - COLOUR WHITE
10F	18mm FIBRE CEMENT BOARD - COLOUR WHITE
10G	18mm FIBRE CEMENT BOARD - COLOUR WHITE
10H	18mm FIBRE CEMENT BOARD - COLOUR WHITE
10I	18mm FIBRE CEMENT BOARD - COLOUR WHITE
10J	18mm FIBRE CEMENT BOARD - COLOUR WHITE
11	18mm FIBRE CEMENT BOARD - COLOUR WHITE
12	18mm FIBRE CEMENT BOARD - COLOUR WHITE
13	18mm FIBRE CEMENT BOARD - COLOUR WHITE

MES ARCHITECTURE LTD.
REGISTERED PROFESSIONAL ARCHITECTS
10000 100th Street, Edmonton, Alberta T5A 0K6
Tel: 780-443-1111
www.mesarchitecture.com

LIST OF CONSULTANTS

MEASUREMENT: Metric
DATE: 2024/06/19
DRAWN BY: [Name]
CHECKED BY: [Name]

MELEWKA STRUCTURES & DESIGN
MELEWKA Structures & Design
SASKY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

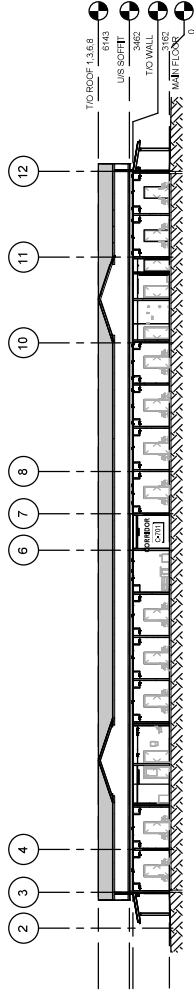
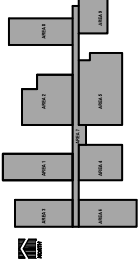
Project Number: MM4001
Date: 2024/06/19
Drawn by: [Name]
Checked by: [Name]

AREA 8 & 9 BUILDING ELEVATIONS

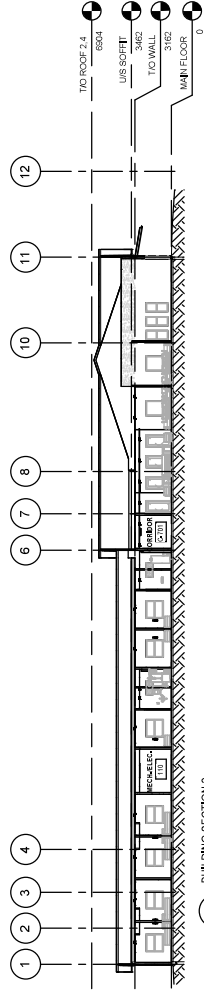
DO NOT SCALE DRAWINGS

A4.15

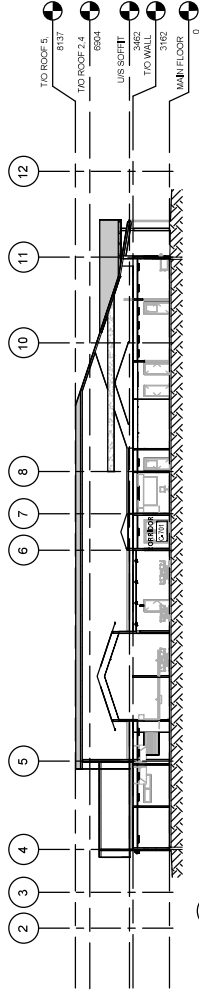
MELEWKA



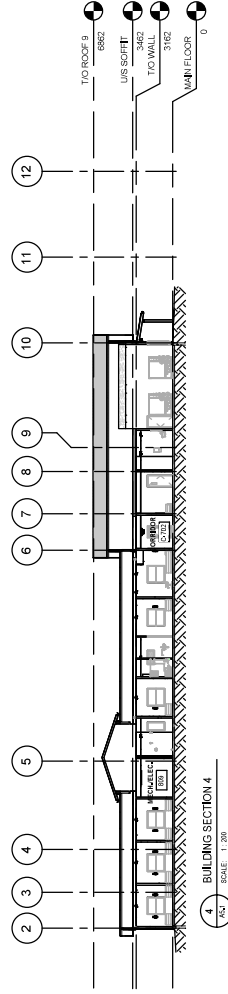
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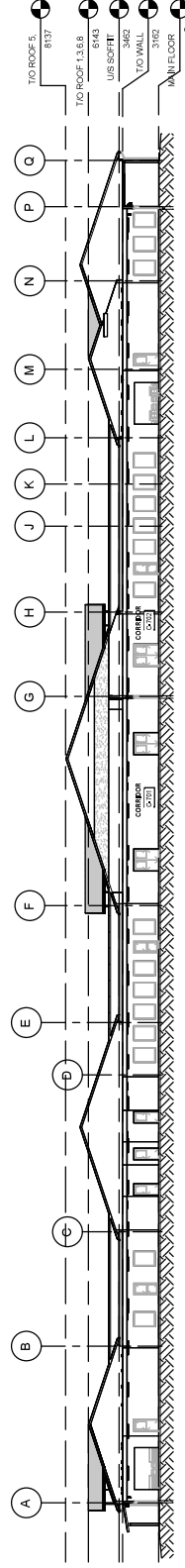
2 BUILDING SECTION 2
SCALE: 1:200



3 BUILDING SECTION 3
SCALE: 1:200



4 BUILDING SECTION 4
SCALE: 1:200



5 BUILDING SECTION 5
SCALE: 1:200

MES ARCHITECTURE LTD.
REGISTERED ARCHITECTS TO THE ARCHITECTS ACT OF ALBERTA.
8155 126th Avenue, Suite 100
Edmonton, Alberta T6E 4E2
Canada. Tel: 780.441.8155 or 780.441.8156
Fax: 780.441.8157
www.mesarchitect.com

List of Consultants	
Structural	
Mechanical	
Electrical	
Civil	Zaid Gouda/Ally
Landscape	

MELEWKA STRUCTURES & DESIGN
 MELEWKA STRUCTURES & DESIGN
SMOKY LAKE, ALBERTA

MELEWKA STRUCTURES & DESIGN
METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

Notes:
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Issued for Development Permit
Issued for Building Permit
Revisions:
1 FOR REVIEW
24/05/21

OVERALL BUILDING SECTIONS

Project number	MM4001
Date	2020/06/19
Drawn by	Author
Checked by	Checker

DO NOT SCALE DRAWINGS

A5.1

NOTES:
 1. All drawings shall be in accordance with the applicable codes and standards.
 2. All drawings shall be in accordance with the applicable codes and standards.
 3. All drawings shall be in accordance with the applicable codes and standards.

CONSULTANTS:
 Name: _____
 Address: _____
 Phone: _____
 Email: _____

PRELIMINARY
 NOT FOR CONSTRUCTION

TWS
 Engineering Ltd.
 STRUCTURAL & MECHANICAL
 ELECTRICAL, CIVIL CONSULTING

MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN
 ARCHITECTURE INCORPORATED
 1000 - 10th Street, N.W. Calgary, Alberta T2C 1P7
 Phone: (403) 270-5555 Fax: (403) 270-7272

PROJECT:
 METS NATION OF AB
 COMMUNITY RECOVERY
 CENTER
 SMOKEY LAKE ALBERTA

DRAWING:
 TYPICAL DETAILS

CLIENT:
 A. ISSUED FOR CLIENT REVIEW: 2024/02/24
 B. ISSUED FOR CLIENT REVIEW: 2024/02/24

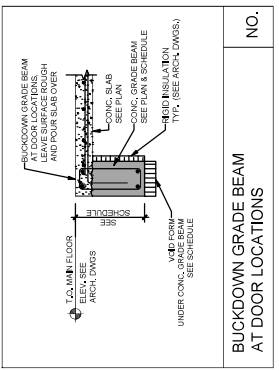
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DATE:
 2024-02-24

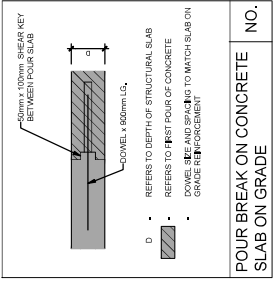
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 GH

DRAWING NO.:
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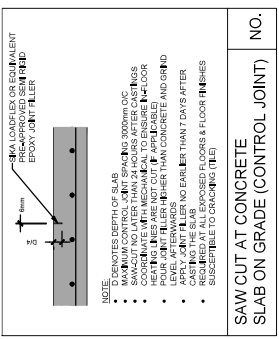
REV. NO.:
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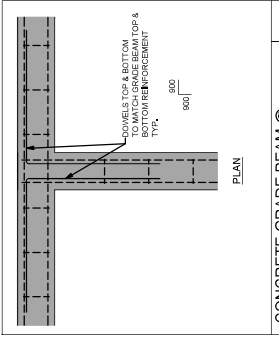
BUCKDOWN GRADE BEAM AT DOOR LOCATIONS NO.



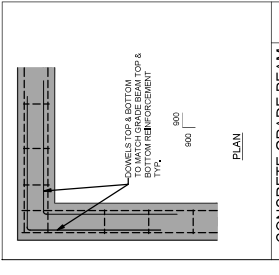
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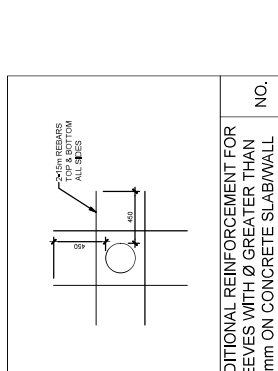
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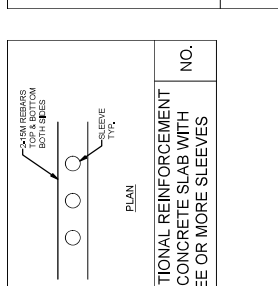
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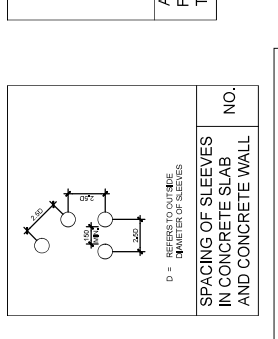
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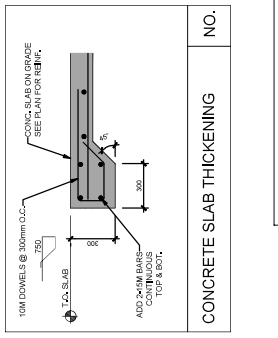
ADDITIONAL REINFORCEMENT FOR CONCRETE SLAB WITH THREE OR MORE SLEEVES NO.



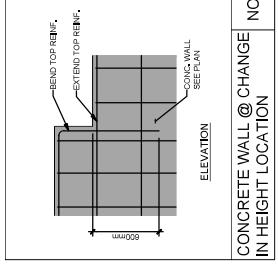
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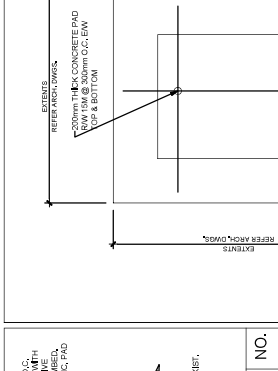
SPACING OF SLEEVES IN CONCRETE SLAB AND CONCRETE WALL NO.



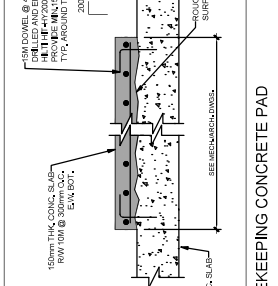
CONCRETE SLAB THICKENING NO.



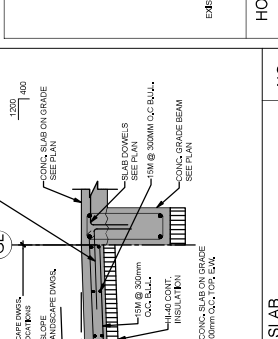
CONCRETE WALL @ CHANGE IN HEIGHT LOCATION NO.



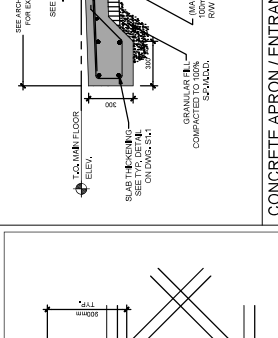
HOUSEKEEPING CONCRETE PAD NO.



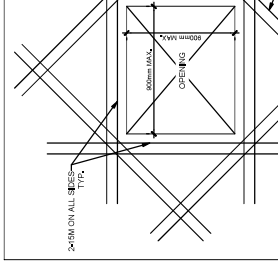
CORNER WALL DETAIL NO.



WOOD COLUMN TO CONCRETE SLAB CONNECTION NO.



CONCRETE APRON / ENTRANCE SLAB NO.



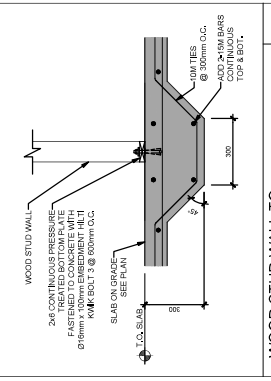
CONCRETE SLAB ON GRADE OPENING REINFORCEMENT NO.

NOTES:
 1. All drawings are to be read in conjunction with the contract documents.
 2. All materials to be used shall conform to the relevant standards.
 3. All work shall be in accordance with the current edition of the National Building Code of Canada.
 4. All dimensions are in millimeters unless otherwise stated.
 5. All materials shall be of the highest quality available.
 6. All work shall be completed in a timely manner.
 7. All materials shall be protected during construction.
 8. All work shall be inspected and approved by the relevant authorities.
 9. All materials shall be stored in a secure and dry location.
 10. All work shall be completed in accordance with the project schedule.

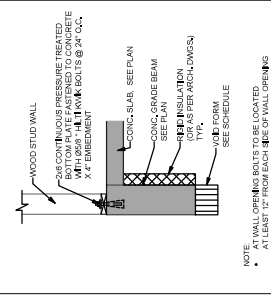
CONSULTANTS:
 ARCHITECT: [Name]
 ENGINEER: [Name]
 CONTRACTOR: [Name]

**PRELIMINARY
NOT FOR CONSTRUCTION**

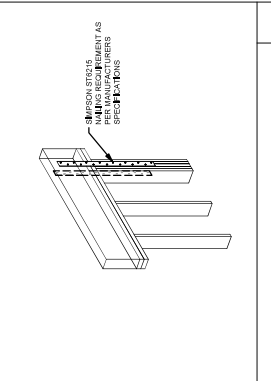
TWSS
 Engineering Ltd.
 STRUCTURAL & MECHANICAL
 ELECTRICAL ENGINEERING



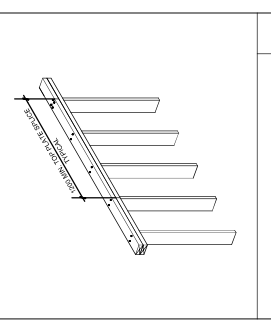
WOOD STUD WALL TO CONCRETE SLAB CONNECTION
NO.



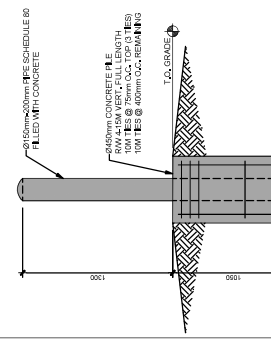
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NO.



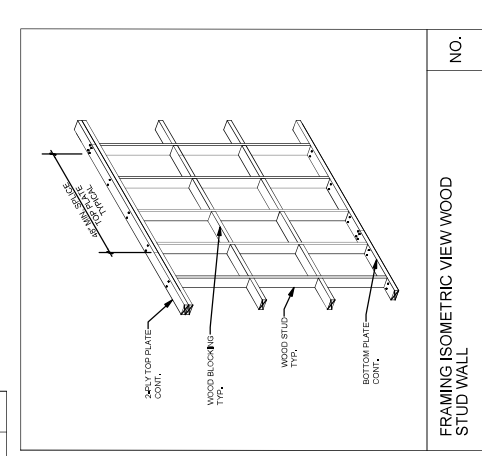
WOOD BEAM TO COLUMN CONNECTION (BEAM PARALLEL TO WALL)
NO.



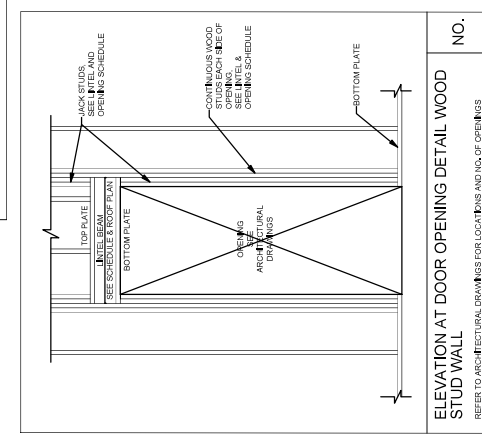
TYPICAL TOP PLATE SPLICE
NO.



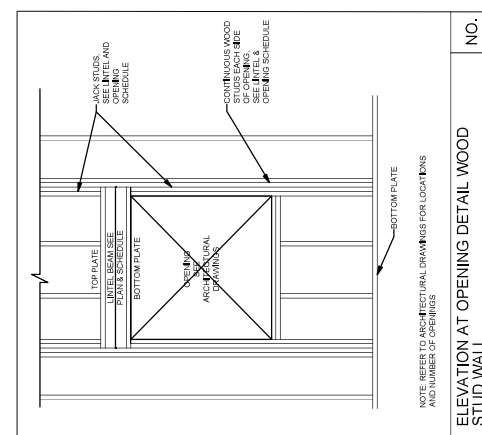
BOLLARD CONSTRUCTION
NO.



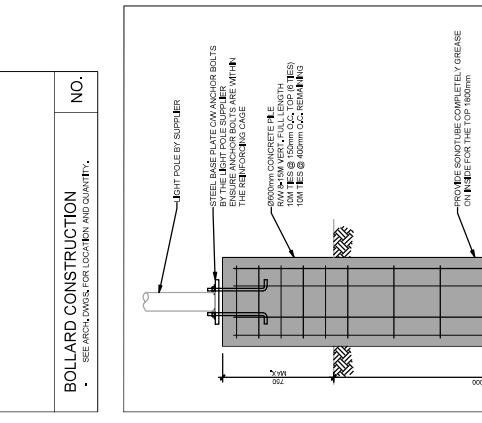
FRAMING ISOMETRIC VIEW WOOD STUD WALL
NO.



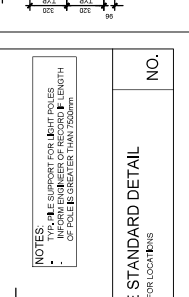
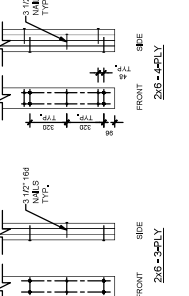
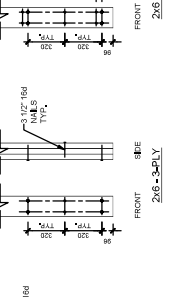
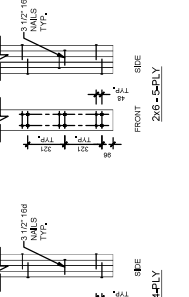
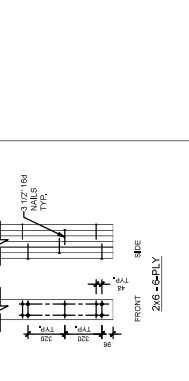
ELEVATION AT DOOR OPENING DETAIL WOOD STUD WALL
NO.



ELEVATION AT OPENING DETAIL WOOD STUD WALL
NO.



LIGHT POLE PILE STANDARD DETAIL
NO.



MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN
 ARCHITECTURAL & MECHANICAL ENGINEERS
 1000 BAYVIEW AVENUE, SUITE 100, SCARBOROUGH, ONTARIO M1B 2Y7

PROJECT: METS NATION OF AB COMMUNITY RECOVERY CENTER
 SMOKY LAKE ALBERTA

DRAWING: TYPICAL DETAILS

FILE	DRAWING
PROJECT NO.	100-DALLAS
SCALE	AS SHOWN
DATE	2023-07-01
DRAWN BY:	GR
CHECKED BY:	GR

DRAWING NO.: S0.3

NO. A

PLY BUILT-UP WOOD COLUMN NAILING REQUIREMENTS

NOTES:
 1. This drawing is to be used in conjunction with the approved site plan and all other drawings of the project.
 2. All dimensions are in millimeters, unless otherwise specified.
 3. All drawings are the property of the Architect.
 4. This drawing is intended for informational purposes only.
 5. The Architect is not responsible for the accuracy of the information provided in this drawing.
 6. The Architect is not responsible for the accuracy of the information provided in this drawing.
 7. The Architect is not responsible for the accuracy of the information provided in this drawing.
 8. The Architect is not responsible for the accuracy of the information provided in this drawing.
 9. The Architect is not responsible for the accuracy of the information provided in this drawing.
 10. The Architect is not responsible for the accuracy of the information provided in this drawing.
 11. The Architect is not responsible for the accuracy of the information provided in this drawing.
 12. The Architect is not responsible for the accuracy of the information provided in this drawing.

CONSULTANTS:

**PRELIMINARY
 NOT FOR CONSTRUCTION**

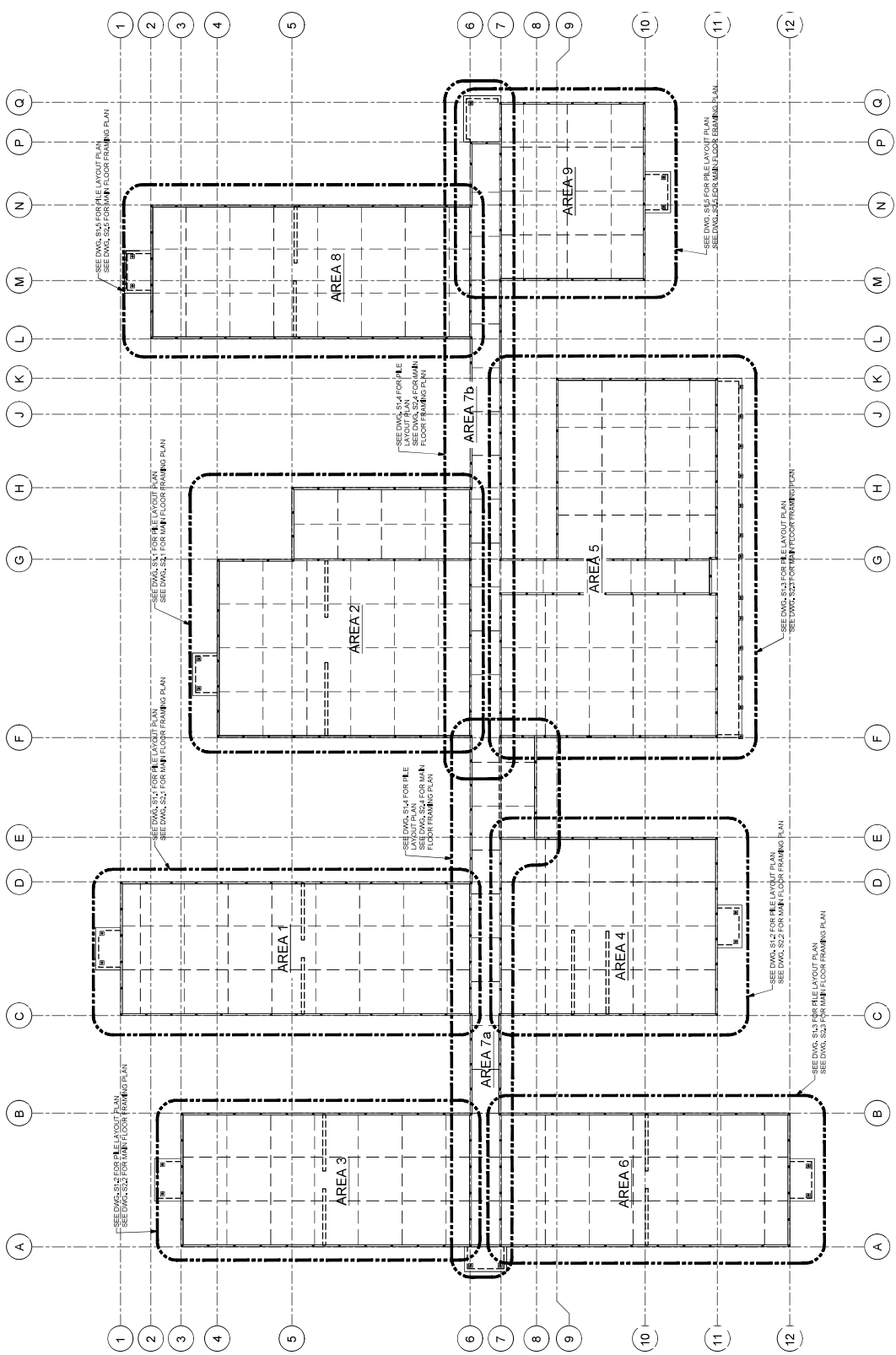
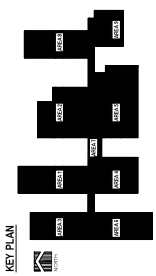


CLIENT	MELEWKA STRUCTURES & DESIGN
PROJECT	METIS NATION OF AB COMMUNITY RECOVERY CENTER
LOCATION	SMOKY LAKE ALBERTA
DATE	2024-07-24
DESIGNER	MELEWKA STRUCTURES & DESIGN
CHECKER	MELEWKA STRUCTURES & DESIGN
APPROVED	MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN
 ARCHITECTURE INC.
 1000 10th Street, Suite 100
 Smoky Lake, Alberta T0A 1R0
 Phone: (403) 788-1111 Fax: (403) 788-1112

MELEWKA STRUCTURES & DESIGN
 1000 10th Street, Suite 100
 Smoky Lake, Alberta T0A 1R0
 Phone: (403) 788-1111 Fax: (403) 788-1112

TITLE	OVERALL PILE LAYOUT AND MAIN FLOOR FRAMING PLAN
PROJECT NO.	TSG-24-0006
SCALE	AS SHOWN
DATE	2024-07-24
DRAWN BY:	GR
CHECKED BY:	GR
DRAWING NO.	S10
REVISION	A



OVERALL PILE LAYOUT AND MAIN FLOOR FRAMING PLAN
 SCALE: 1:200



NOTES:
 1. This drawing is a preliminary design and is subject to change without notice.
 2. All dimensions are in millimeters unless otherwise specified.
 3. The drawing is intended for informational purposes only and is not to be used for construction.
 4. The drawing is the property of the business.
 5. All drawings must be approved by the business.
 6. This drawing is not to be used for construction purposes.
 7. The drawing is not to be used for construction purposes.
 8. The drawing is not to be used for construction purposes.
 9. The drawing is not to be used for construction purposes.
 10. The drawing is not to be used for construction purposes.

CONSULTANTS:
 MELEWKA STRUCTURES & DESIGN
 KUMULIN SULLIVAN ARCHITECTURE INC.

PRELIMINARY NOT FOR CONSTRUCTION

TWS Engineering Ltd.
 STRUCTURAL & MECHANICAL
 ELECTRICAL & MECHANICAL CONSULTING

CLIENT:
 MELEWKA STRUCTURES & DESIGN

PROJECT:
 METS NATION OF AB
 COMMUNITY RECOVERY
 CENTER
 SMOKY LAKE ALBERTA

DRAWING:
 PARTIAL PILE LAYOUT
 PLANS

TITLE:
 PARTIAL PILE LAYOUT PLAN - AREA 2

PROJECT NO.:
 TSG-D-14000

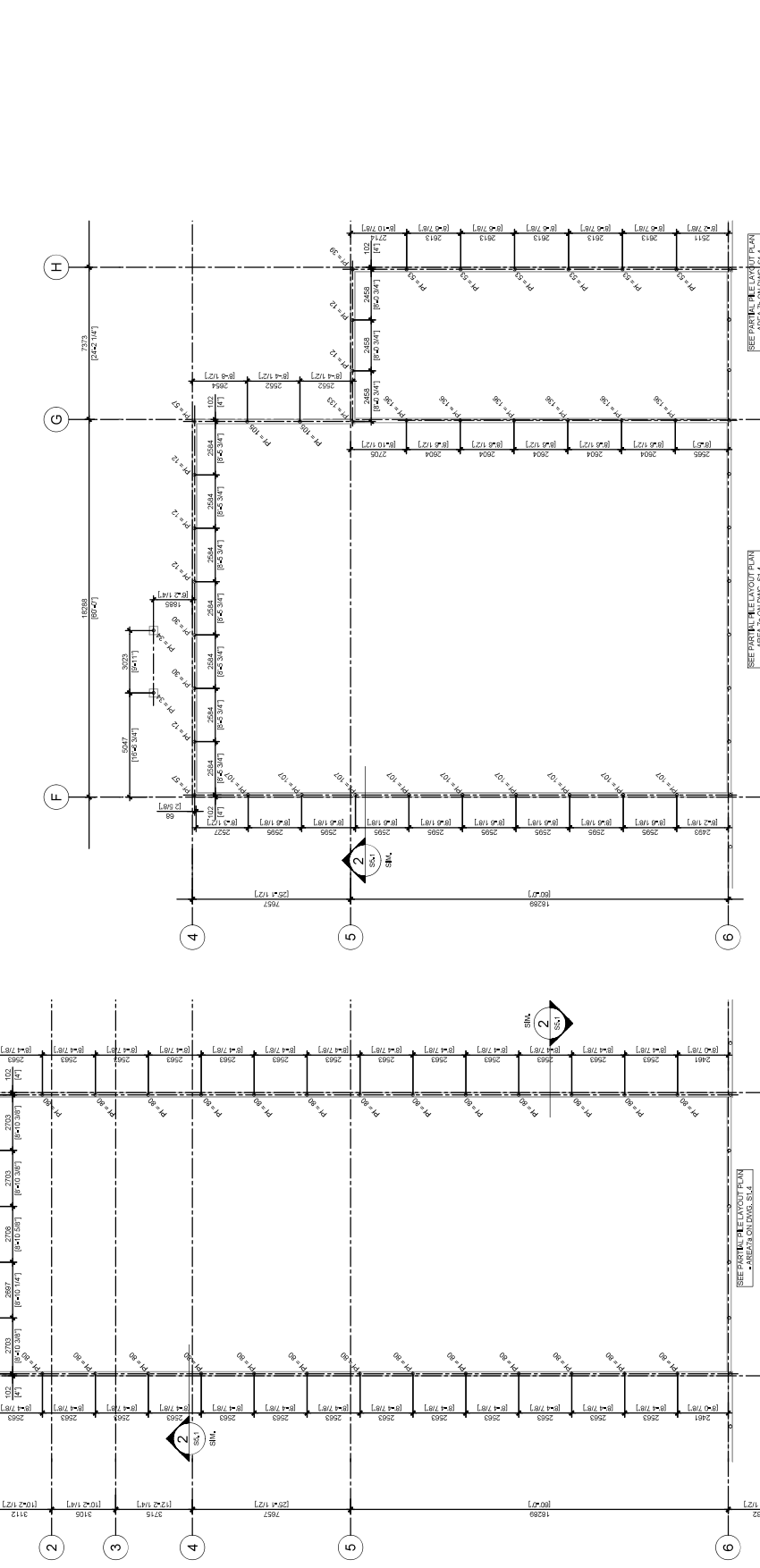
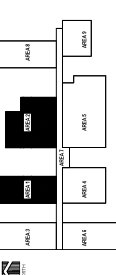
SCALE:
 1:500

DATE:
 2024-07-01

DRAWN BY:
 GJ

DRAWING NO.:
 S1.1

SECTION:
 A



PARTIAL PILE LAYOUT PLAN - AREA 2
 SCALE 1:500
 NORTH

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S01.
2. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S02.
3. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
4. SEE MECHANICAL DRAWINGS FOR WELDED TIE INSTALLATIONS.
5. FOR STEEL TIE @ 400 @ ELEV. 400 UNLESS NOTED.

LEGEND:
 P1 = COMPRESSIVE LOAD PILE

PARTIAL PILE LAYOUT PLAN - AREA 1
 SCALE 1:500
 NORTH

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S01.
2. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S02.
3. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
4. SEE MECHANICAL DRAWINGS FOR WELDED TIE INSTALLATIONS.
5. FOR STEEL TIE @ 400 @ ELEV. 400 UNLESS NOTED.

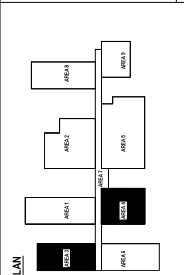
LEGEND:
 P1 = COMPRESSIVE LOAD PILE

NOTES:

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S1.1.
2. SEE TYPICAL DETAILS ON DRAWING S1.1.
3. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
4. SEE MECHANICAL DRAWINGS FOR WEERFLOOR TIE INSTALLATIONS.
5. 1/4" COL. STEEL PILE CAP @ ELEV. +5.00 UNLESS NOTED OTHERWISE.

These drawings may not be reproduced without the permission of the Architect.

CONSULTANTS:



PRELIMINARY NOT FOR CONSTRUCTION



REVISION	DESCRIPTION	DATE
A	ISSUED FOR CLIENT REVIEW	2023/04/24
B	ISSUED FOR CLIENT REVIEW	2023/04/24

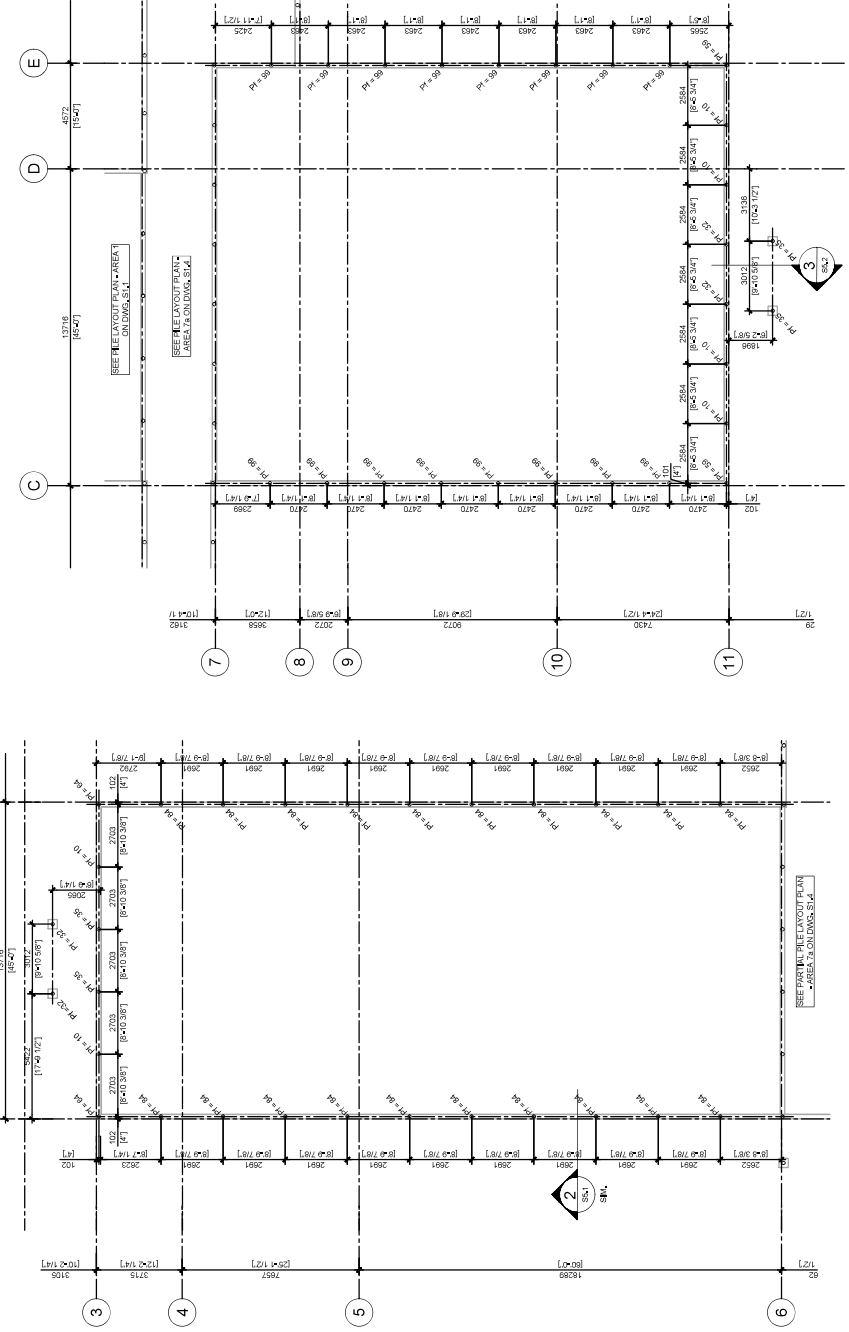
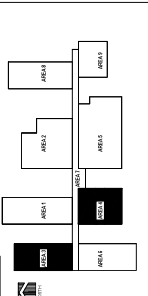
CLIENT
MELEWKA STRUCTURES & DESIGN

PROJECT
METIS NATION OF AB COMMUNITY RECOVERY CENTER
SMOKY LAKE ALBERTA

DRAWING
PARTIAL PILE LAYOUT PLANS

TITLE
PROJECT NO.: TSG-D04590
SCALE: 1/4" = 1'-0"
DATE: 2023-04
DRAWN BY: GRI
DRAWING NO.: S12

KEY PLAN

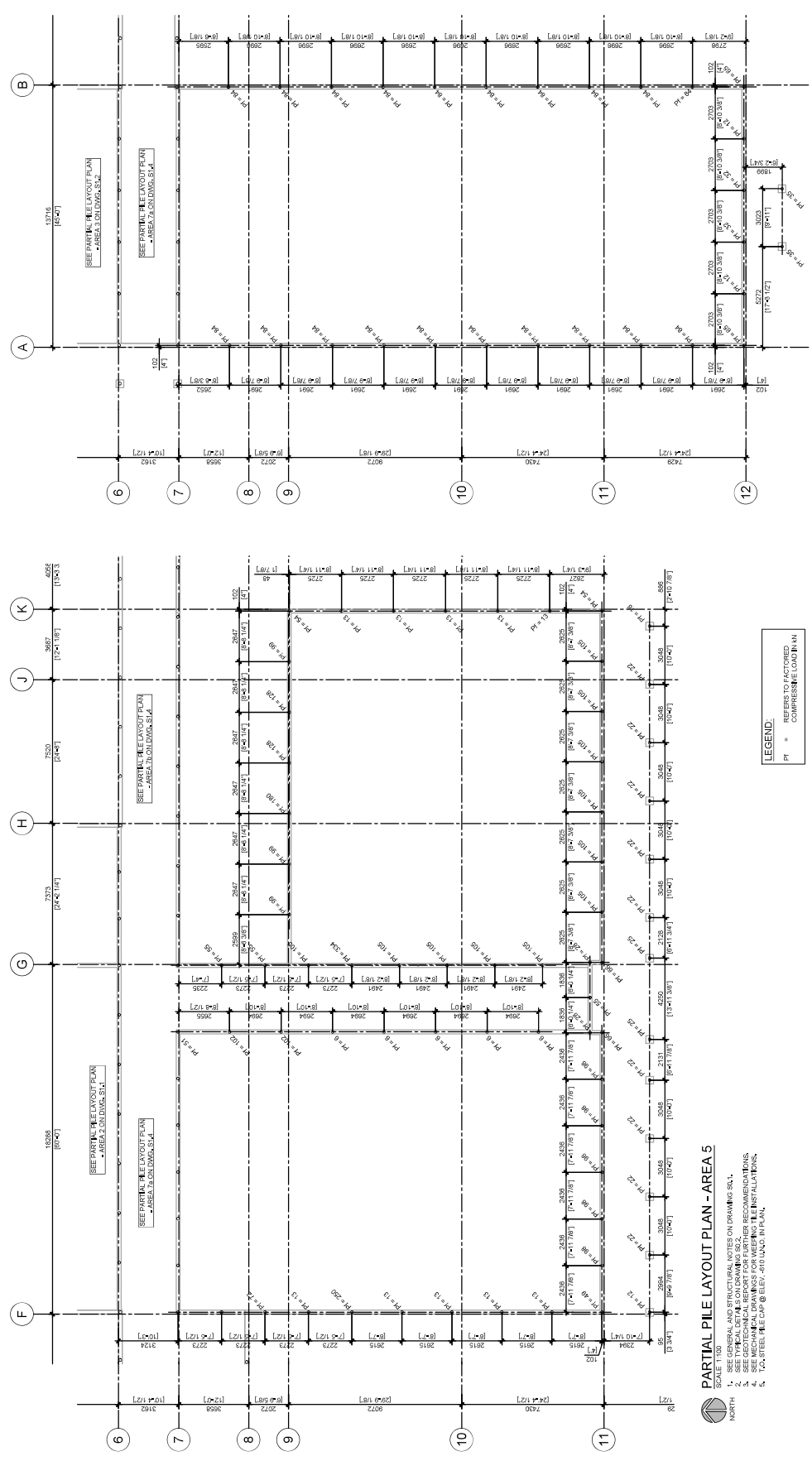
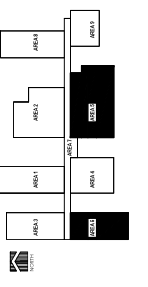


PARTIAL PILE LAYOUT PLAN - AREA 3
SCALE: 1/40
NORTH
LEGEND:
PI = REFERS TO FACTORED COMPRESSIVE LOAD IN kN

PARTIAL PILE LAYOUT PLAN - AREA 4
SCALE: 1/30
NORTH
LEGEND:
PI = REFERS TO FACTORED COMPRESSIVE LOAD IN kN

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S1.1.
2. SEE TYPICAL DETAILS ON DRAWING S1.1.
3. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
4. SEE MECHANICAL DRAWINGS FOR WEERFLOOR TIE INSTALLATIONS.
5. 1/4" COL. STEEL PILE CAP @ ELEV. +5.00 UNLESS NOTED OTHERWISE.

NOTES:
 1. This drawing shall be read in conjunction with the drawings of the project.
 2. All dimensions are in millimeters unless otherwise stated.
 3. All drawings shall be prepared in accordance with the standards of the profession.
 4. This drawing may be reproduced without the permission of the author.



PARTIAL PILE LAYOUT PLAN - AREA 5
 SCALE: 1:100
 NORTH

PARTIAL PILE LAYOUT PLAN - AREA 6
 SCALE: 1:100
 NORTH

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S01.
2. SEE TYPICAL DETAILS ON DRAWING S02.
3. SEE MECHANICAL DRAWINGS FOR WEIRING TILE INSTALLATIONS.
4. 1.25" STEEL PILE CAP @ ELEV. 570 UNCG. IN PLAN.

LEGEND:
 P1 = 1.25" STEEL PILE CAP @ ELEV. 570 UNCG. IN PLAN
 P2 = 1.25" STEEL PILE CAP @ ELEV. 570 UNCG. IN PLAN
 P3 = 1.25" STEEL PILE CAP @ ELEV. 570 UNCG. IN PLAN

**PRELIMINARY
 NOT FOR CONSTRUCTION**



NO.	DESCRIPTION	DATE
A.	ISSUED FOR CLIENT REVIEW	2023/05/24
B.	ISSUED FOR CLIENT REVIEW	2023/05/24

**MELEWKA STRUCTURES &
 DESIGN**

KUMLIN SULLIVAN
 STRUCTURAL & MECHANICAL
 ELECTRICAL CIVIL CONSULTING

PROJECT:
 METS NATION OF AB
 COMMUNITY RECOVERY
 CENTER
 SMOKY LAKE ALBERTA

DRAWING:
 PARTIAL PILE LAYOUT
 PLANS

TITLE	DATE
PROJECT NO.	100-04-0000
SCALE	AS SHOWN
DATE	2023-05-24
DRAWN BY:	SM
CHECKED BY:	SM
DRAWING NO.	S13

S13
A

NOTES:
 1. This drawing shall be read in conjunction with the contract documents and specifications.
 2. The Engineer is not responsible for the design of the foundation for any structure other than that shown on this drawing.
 3. The design shall be based on the information provided by the client and shall be subject to change without notice.
 4. The design shall be based on the information provided by the client and shall be subject to change without notice.
 5. The design shall be based on the information provided by the client and shall be subject to change without notice.

CONSULTANTS:
 TWS Engineering Ltd.
 Structural & Mechanical
 Electrical & Mechanical Consulting

**PRELIMINARY
 NOT FOR CONSTRUCTION**



**MELEWKA STRUCTURES &
 DESIGN**

KUMLIN SULLIVAN
 ARCHITECTURE INCORPORATED

**PROJECT:
 METS NATION OF AB
 COMMUNITY RECOVERY
 CENTER**

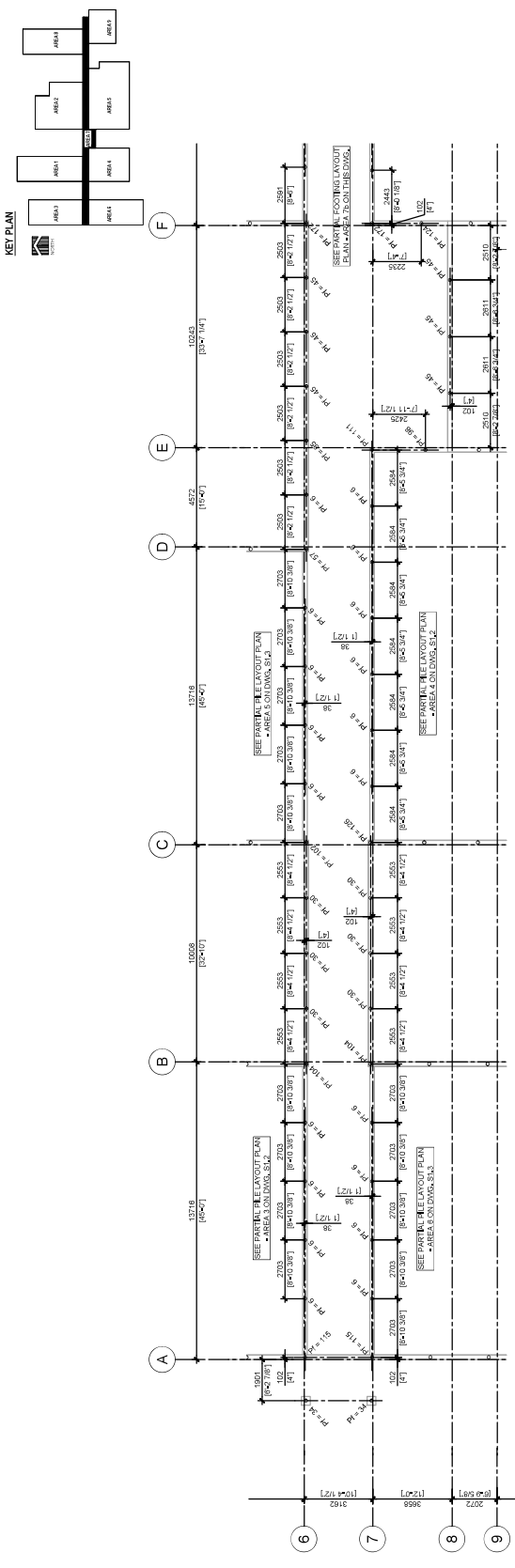
**DRAWING:
 PARTIAL PILE LAYOUT
 PLANS**

SMOKEY LAKE ALBERTA

**FILE:
 PRODUCT NO.:
 SCALE:
 DATE:
 DRAWN BY:
 CHECKED BY:**

S1.4

A



PARTIAL PILE LAYOUT PLAN - AREA 7a
 SCALE: 1/8" = 1'-0"

- SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S0.1.
- SEE TYPICAL DETAILS ON DRAWING S0.2.
- SEE MECHANICAL DRAWINGS FOR WEARING TILE INSTALLATIONS.
- SEE MECHANICAL DRAWINGS FOR WEARING TILE INSTALLATIONS.
- 1/2" STEEL PILE CAP @ ELEV. +610.000, IN PLAN.



PARTIAL PILE LAYOUT PLAN - AREA 7b
 SCALE: 1/8" = 1'-0"

- SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S0.1.
- SEE TYPICAL DETAILS ON DRAWING S0.2.
- SEE MECHANICAL DRAWINGS FOR WEARING TILE INSTALLATIONS.
- SEE MECHANICAL DRAWINGS FOR WEARING TILE INSTALLATIONS.
- 1/2" STEEL PILE CAP @ ELEV. +610.000, IN PLAN.

LEGEND:
 PF = COMPRESSION FACTORS
 COMPRESSIVE LOAD IN KIP

LEGEND:
 PF = COMPRESSION FACTORS
 COMPRESSIVE LOAD IN KIP

NOTES:

- 1. This drawing shall be read in conjunction with the contract documents and the geotechnical report.
- 2. All dimensions are in millimeters unless otherwise indicated.
- 3. All dimensions are to the face of the member unless otherwise indicated.
- 4. All dimensions are to the centerline of the member unless otherwise indicated.
- 5. All dimensions are to the centerline of the member unless otherwise indicated.
- 6. All dimensions are to the centerline of the member unless otherwise indicated.
- 7. All dimensions are to the centerline of the member unless otherwise indicated.
- 8. All dimensions are to the centerline of the member unless otherwise indicated.
- 9. All dimensions are to the centerline of the member unless otherwise indicated.
- 10. All dimensions are to the centerline of the member unless otherwise indicated.

CONSULTANTS:

MELEWKA STRUCTURES & DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION



REV	DESCRIPTION	DATE
A	ISSUED FOR CLIENT REVIEW	2023/05/24
B	ISSUED FOR CLIENT REVIEW	2023/05/24

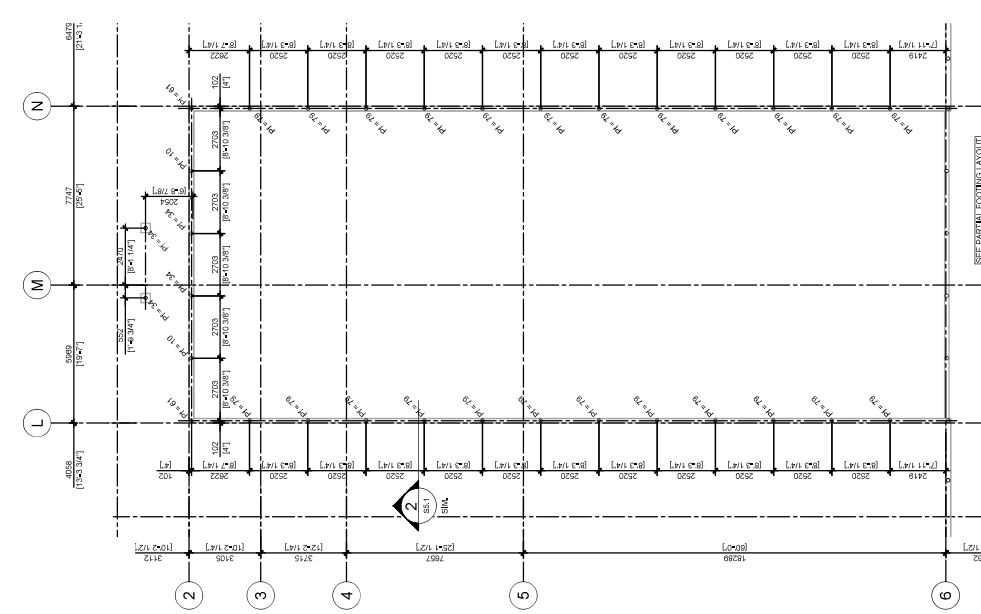
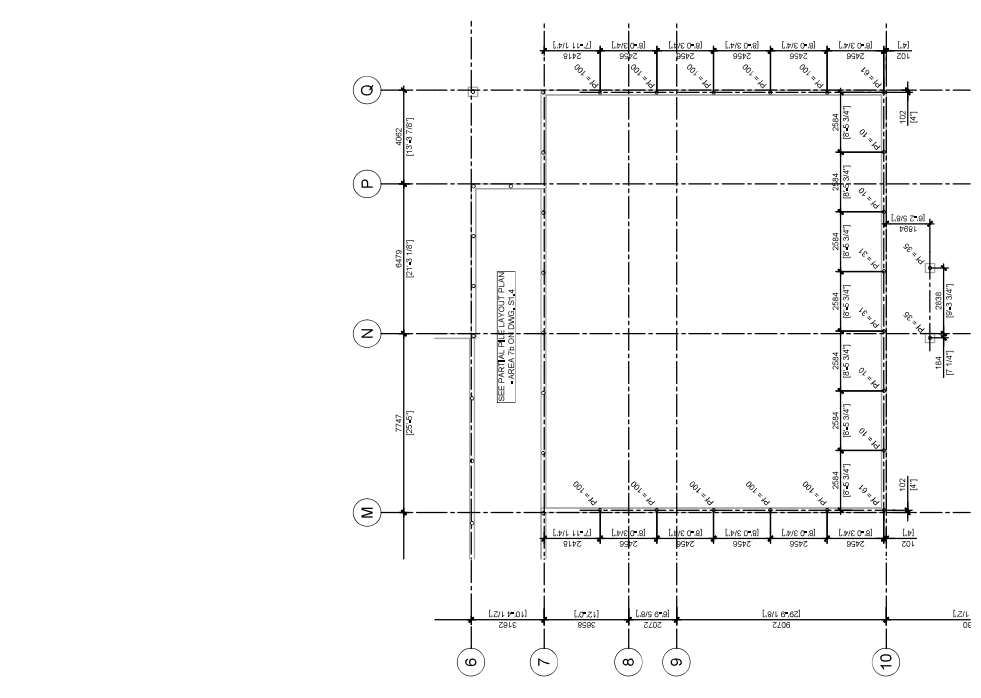
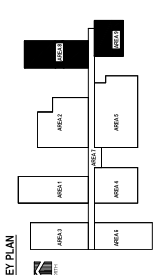
CLIENT
MELEWKA STRUCTURES & DESIGN

KUMULIN SULLIVAN
ARCHITECTURE INCORPORATED
10000 160th Street, Edmonton, Alberta T5A 0K7
Phone: (780) 463-3333 Fax: (780) 463-3334
www.kumulinsullivan.com

PROJECT:
METIS NATION OF AB
COMMUNITY RECOVERY
CENTER
SMOKEY LAKE ALBERTA

DRAWING:
PARTIAL PILE LAYOUT
PLANS

TITLE:
DRAWING NO.:
PROJECT NO.:
SCALE:
DATE:
DRAWN BY:
DRAWING NO.: S1.5
REV: 001



LEGEND:

REFERS TO FACTORED
COMPRESSION LOAD

PT =

LEGEND:

REFERS TO FACTORED
COMPRESSION LOAD

PT =

NOTES:
 1. This drawing is to be read in conjunction with the relevant schedule of materials, specifications and details.
 2. All dimensions are in millimeters unless otherwise stated.
 3. All drawings are to be read in conjunction with the relevant schedule of materials, specifications and details.
 4. All drawings are to be read in conjunction with the relevant schedule of materials, specifications and details.
 5. All drawings are to be read in conjunction with the relevant schedule of materials, specifications and details.
 6. All drawings are to be read in conjunction with the relevant schedule of materials, specifications and details.
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 9. All drawings are to be read in conjunction with the relevant schedule of materials, specifications and details.
 10. All drawings are to be read in conjunction with the relevant schedule of materials, specifications and details.

CONSULTANTS:
 MELEWKA STRUCTURES & DESIGN
 KUMULIN SULLIVAN
 METS NATION OF AB
 COMMUNITY RECOVERY CENTER

**PRELIMINARY
 NOT FOR CONSTRUCTION**



MELEWKA STRUCTURES & DESIGN
KUMULIN SULLIVAN
METS NATION OF AB COMMUNITY RECOVERY CENTER
 10000 100th Street, Edmonton, Alberta T5A 0A6
 Phone: (780) 763-1111 Fax: (780) 763-1112
 Email: info@melewka.com

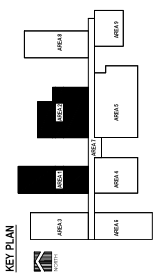
REV	DESCRIPTION	DATE
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2	ISSUED FOR CLIENT REVIEW	2024-07-24
3	ISSUED FOR CLIENT REVIEW	2024-07-24
4	ISSUED FOR CLIENT REVIEW	2024-07-24
5	ISSUED FOR CLIENT REVIEW	2024-07-24
6	ISSUED FOR CLIENT REVIEW	2024-07-24
7	ISSUED FOR CLIENT REVIEW	2024-07-24
8	ISSUED FOR CLIENT REVIEW	2024-07-24
9	ISSUED FOR CLIENT REVIEW	2024-07-24
10	ISSUED FOR CLIENT REVIEW	2024-07-24

CLIENT:
 MELEWKA STRUCTURES & DESIGN

PROJECT:
 METS NATION OF AB
 COMMUNITY RECOVERY CENTER
 SMOKEY LAKE ALBERTA

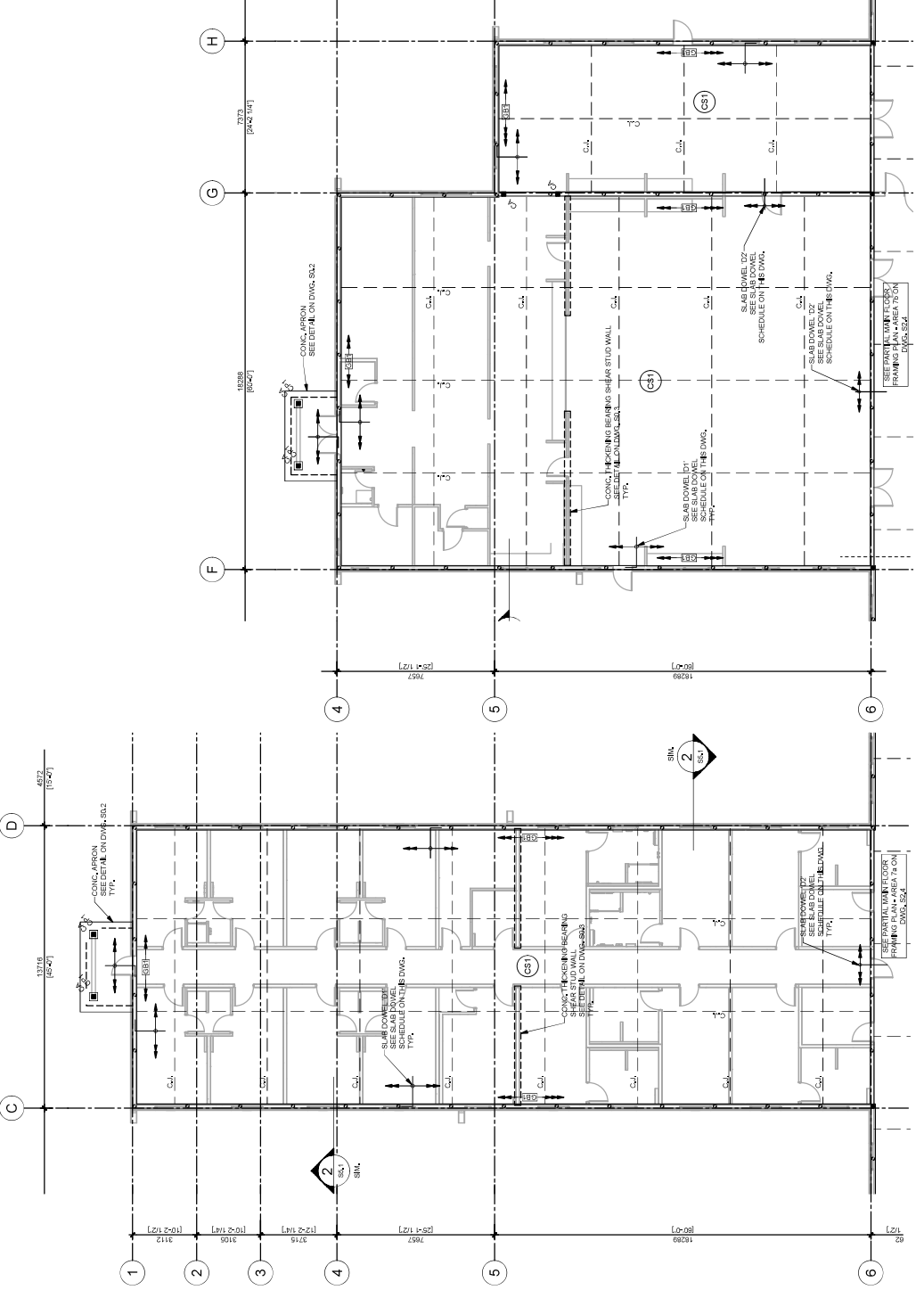
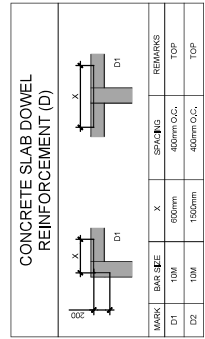
DRAWING:
 PARTIAL MAIN FLOOR
 FRAMING PLANS

FILE	DATE
PROJECT NO.	100-24-0000
SCALE	1:100
DATE	2024-07-24
DRAWN BY:	GR
CHECKED BY:	GR
DRAWING NO.:	S2.1
REV. NO.:	A



MARK	DESCRIPTION
GBT	200mm x 600mm 2400 TOP 2400 BOT 10M @ 300mm O.C. TIES
CS1	100mm THK CONIC SLAB ON GRADE RW ON 10M VARIOUS BARBER SEE GEOTECHNICAL REPORT FOR SCHEDULE ON THIS DWG.
CP1	400mm x 400mm x 1500mm TALL CONIC PIER RW 10M TIES @ 2.0M O.C.

MARK	DESCRIPTION
CS1	100mm THK CONIC SLAB ON GRADE RW ON 10M VARIOUS BARBER SEE GEOTECHNICAL REPORT FOR SCHEDULE ON THIS DWG.
CP1	400mm x 400mm x 1500mm TALL CONIC PIER RW 10M TIES @ 2.0M O.C.



PARTIAL MAIN FLOOR FRAMING PLAN - AREA 2

- 1. SEE GENERAL STRUCTURAL NOTES ON DRAWING S0.1.
- 2. SEE GEOTECHNICAL REPORT FOR FOOTING SUBBASE PREPARATION.
- 3. SEE GEOTECHNICAL REPORT FOR FOOTING SUBBASE PREPARATION.
- 4. SEE GEOTECHNICAL REPORT FOR FOOTING SUBBASE PREPARATION.
- 5. C.A. REFERS TO CONTROL JOINT (S.W./C.T.). SEE DETAIL ON DWG. S0.2.

PARTIAL MAIN FLOOR FRAMING PLAN - AREA 1

- 1. SEE GENERAL STRUCTURAL NOTES ON DRAWING S0.1.
- 2. SEE GEOTECHNICAL REPORT FOR FOOTING SUBBASE PREPARATION.
- 3. SEE GEOTECHNICAL REPORT FOR FOOTING SUBBASE PREPARATION.
- 4. SEE GEOTECHNICAL REPORT FOR FOOTING SUBBASE PREPARATION.
- 5. C.A. REFERS TO CONTROL JOINT (S.W./C.T.). SEE DETAIL ON DWG. S0.2.

NOTES:
 1. This drawing shall be read in conjunction with the contract documents and specifications.
 2. The contractor shall be responsible for obtaining all necessary permits for this work.
 3. All dimensions shall be in millimeters unless otherwise specified.
 4. The contractor shall be responsible for providing all necessary site access and protection.
 5. The contractor shall be responsible for providing all necessary site security.
 6. The contractor shall be responsible for providing all necessary site cleanup.
 7. The contractor shall be responsible for providing all necessary site restoration.
 8. The contractor shall be responsible for providing all necessary site monitoring.
 9. The contractor shall be responsible for providing all necessary site reporting.
 10. The contractor shall be responsible for providing all necessary site records.

CONSULTANTS:
 MELEWKA STRUCTURES & DESIGN

**PRELIMINARY
NOT FOR CONSTRUCTION**

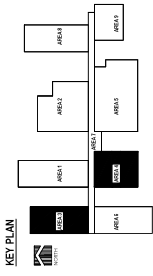
TWS
Engineering Ltd.
STRUCTURAL | MECHANICAL
ELECTRICAL | CIVIL CONSULTING

CLIENT: MELEWKA STRUCTURES & DESIGN
 PROJECT: METS NATION OF AB COMMUNITY RECOVERY CENTER
 DRAWING: PARTIAL MAIN FLOOR FRAMING PLANS

DATE: 2023-07-24
 DRAWN BY: [Name]
 CHECKED BY: [Name]

SCALE: 1:100
 SHEET NO: S2.2

PROJECT NO: [Number]
 DRAWING NO: [Number]

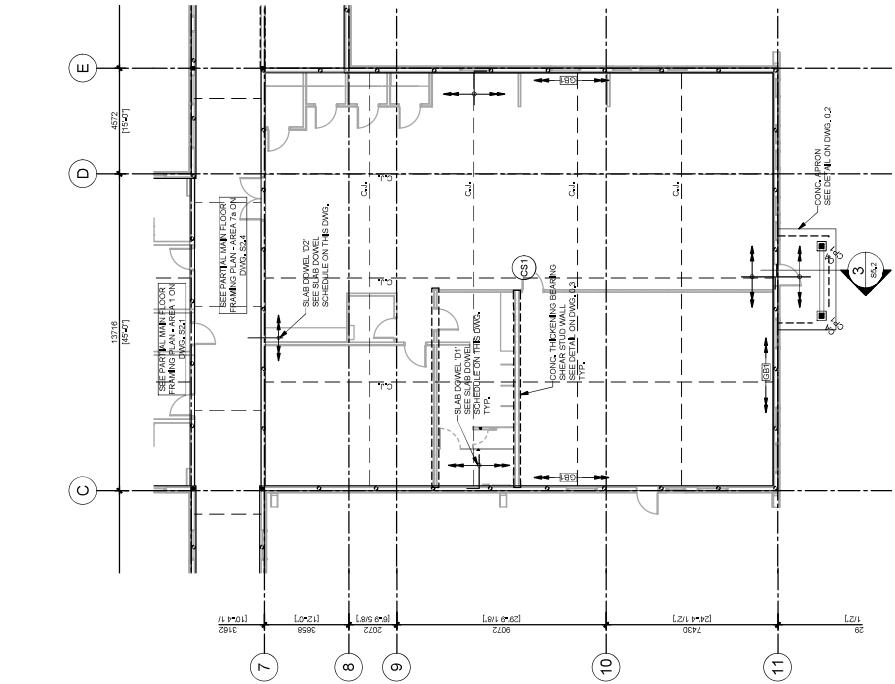


CONCRETE GRADE BEAM SCHEDULE (GB)	
MARK	GB1
DIMENSION	200mm x 600mm
STEEL REINFORCEMENT	3-20M TOP, 3-20M BOT, 10M @ 300mm O.C., 11ES
SCHEMATIC SECTION	
VOID FORM	150mm

CONCRETE SLAB SCHEDULE (CS)	
MARK	CS1
DESCRIPTION	150mm THK CONG. SLAB ON GROUND 10M @ 400mm O.C. EACH WAY TOP 10M @ 400mm O.C. EACH WAY BOT 10M @ 400mm O.C. EACH WAY TOP SUB-BASE PREPARATION

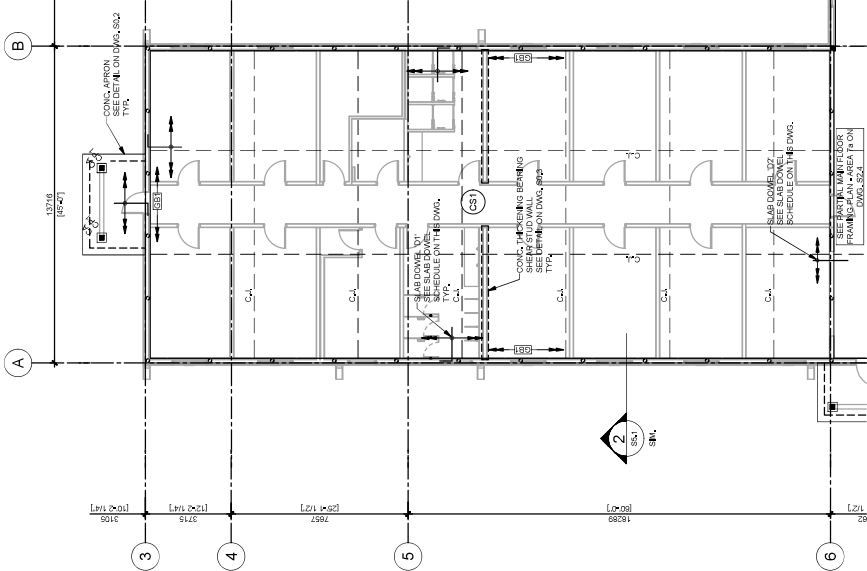
CONCRETE PIER SCHEDULE (CP)	
MARK	CP1
DESCRIPTION	400mm x 400mm x 1500mm TALL CONG. PIER W/ 4-20M VERT. 10M TIES @ 9" O.C.

CONCRETE SLAB DOWEL REINFORCEMENT (D)					
MARK	D1, D2	BAR SIZE	X	SPACING	REMARKS
D1	10M	600mm	X	400mm O.C.	TOP
D2	10M	1500mm	X	400mm O.C.	TOP



PARTIAL MAIN FLOOR FRAMING PLAN - AREA 4
 SCALE: 1:100

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S2.1.
2. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S2.2.
3. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S2.3.
4. SEE MECHANICAL DRAWINGS FOR WEIRING TILE INSTALLATION.
5. C.A. REFERS TO CONTROL JUMP (S/W 057); SEE DETAIL ON DWG. S2.2.



PARTIAL MAIN FLOOR FRAMING PLAN - AREA 3
 SCALE: 1:100

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S2.1.
2. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S2.2.
3. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S2.3.
4. SEE MECHANICAL DRAWINGS FOR WEIRING TILE INSTALLATION.
5. C.A. REFERS TO CONTROL JUMP (S/W 057); SEE DETAIL ON DWG. S2.2.

NOTES:
 1. This drawing shall be read in conjunction with the contract documents and specifications.
 2. All dimensions are in millimeters unless otherwise stated.
 3. All framing is to be steel unless otherwise stated.
 4. All framing is to be shop primed and painted to meet the requirements of the contract documents.
 5. All framing is to be erected under the supervision of the fabricator.
 6. This drawing is the property of the fabricator.
 7. All framing is to be erected under the supervision of the fabricator.
 8. All framing is to be erected under the supervision of the fabricator.
 9. All framing is to be erected under the supervision of the fabricator.
 10. All framing is to be erected under the supervision of the fabricator.
 11. All framing is to be erected under the supervision of the fabricator.
 12. All framing is to be erected under the supervision of the fabricator.
 13. All framing is to be erected under the supervision of the fabricator.
 14. All framing is to be erected under the supervision of the fabricator.
 15. All framing is to be erected under the supervision of the fabricator.

CONSULTANTS:
 ARCHITECT: [Redacted]
 STRUCTURAL ENGINEER: [Redacted]
 MECHANICAL ENGINEER: [Redacted]
 ELECTRICAL ENGINEER: [Redacted]

PRELIMINARY
 NOT FOR CONSTRUCTION



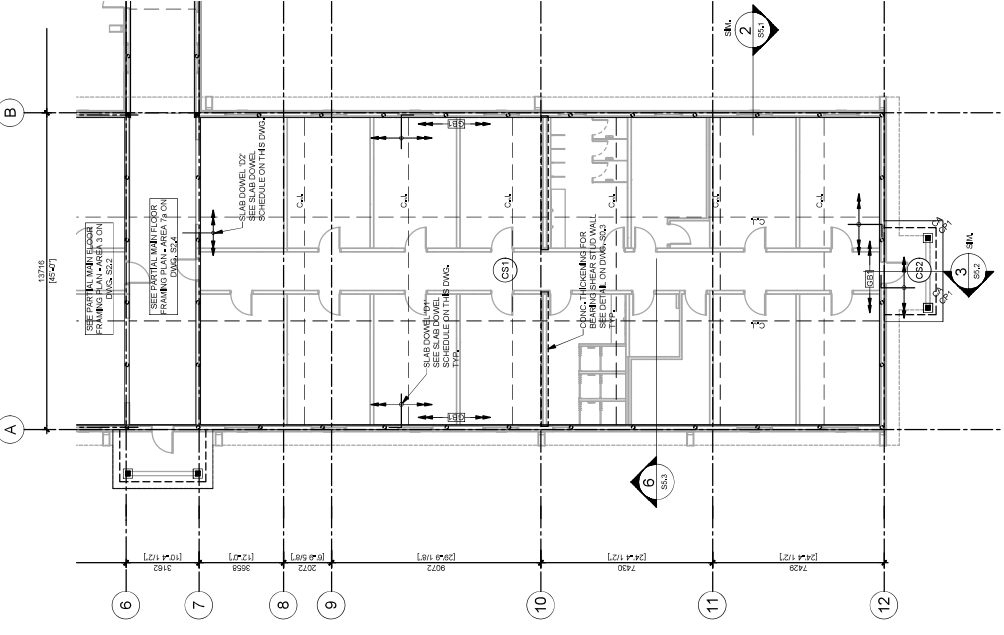
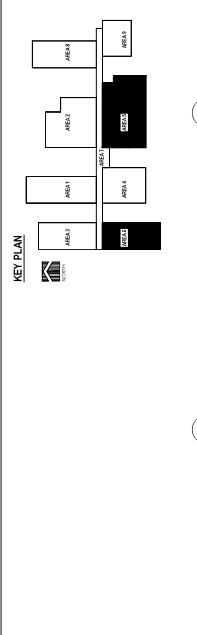
TWS
 Engineering Ltd.
 STRUCTURAL | MECHANICAL
 ELECTRICAL | CIVIL CONSULTING

CLIENT	MELEWKA STRUCTURES & DESIGN
PROJECT	WETS NATION OF AB COMMUNITY RECOVERY CENTER
ADDRESS	SMOKY LAKE ALBERTA
DATE	2024-07-24
DESIGNED BY	[Redacted]
CHECKED BY	[Redacted]
APPROVED BY	[Redacted]

KUMULIN SULLIVAN
 PROJECT MANAGER
 10000 100th Street, Edmonton, Alberta T5C 2E7
 Phone: (780) 703-5333
 Fax: (780) 703-5334
 Email: kumulin@kumulin.com

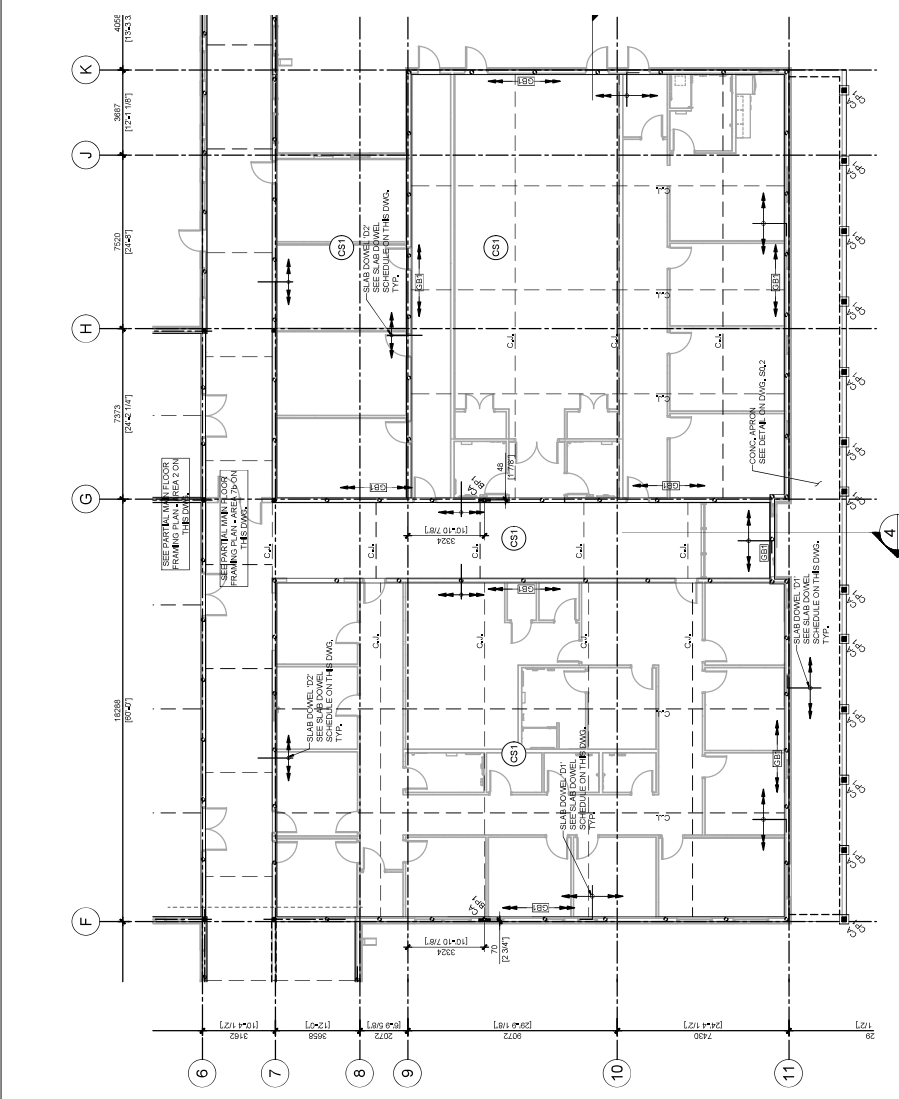
MELEWKA STRUCTURES & DESIGN
 10000 100th Street, Edmonton, Alberta T5C 2E7
 Phone: (780) 703-5333
 Fax: (780) 703-5334
 Email: melewka@melewka.com

TITLE	PARTIAL MAIN FLOOR FRAMING PLANS
PROJECT NO.	100-04-0000
SCALE	1:100
DATE	2024-07-24
DRAWN BY:	[Redacted]
CHECKED BY:	[Redacted]
APPROVED BY:	[Redacted]
DRAWING NO.	S2.3
REV.	A



PARTIAL MAIN FLOOR FRAMING PLAN - AREA 6
 SCALE: 1:100
 NORTH

- SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S6.1.
- SEE MECHANICAL DRAWINGS FOR MECHANICAL INSTALLATIONS.
- SEE MECHANICAL DRAWINGS FOR WEERING TIE INSTALLATIONS.
- SEE MECHANICAL DRAWINGS FOR WEERING TIE INSTALLATIONS.
- SEE MECHANICAL DRAWINGS FOR WEERING TIE INSTALLATIONS.
- C.A. REFERS TO CONTROL JOINT (S/W/C/J). SEE DETAIL ON DWG. S6.2.



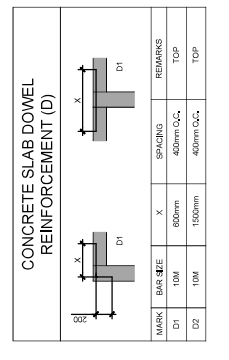
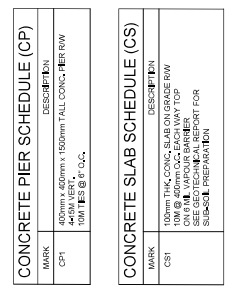
PARTIAL MAIN FLOOR FRAMING PLAN - AREA 5
 SCALE: 1:100
 NORTH

- SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S6.1.
- SEE TYPICAL DETAILS ON DRAWING S6.2.
- SEE GEOTECHNICAL REPORT FOR FOOTING SUBGRADE PREPARATION.
- SEE MECHANICAL DRAWINGS FOR MECHANICAL INSTALLATIONS.
- FOR STEEL BASE PLATE DETAIL, SEE DWG. S4.1.
- C.J. REFERS TO CONTROL JOINT (S/W/C/J). SEE DETAIL ON DWG. S6.2.

CONCRETE PIER SCHEDULE (CP)	
MARK	DESCRIPTION
CP1	400mm x 400mm x 1500mm TALL CONG. PIER RW 100mm VERT. @ 6' O.C.

CONCRETE SLAB SCHEDULE (CS)	
MARK	DESCRIPTION
CS1	100mm THK. CONG. SLAB ON GRADE RW ON 100mm VAPOUR BARRIER WITH 100mm VERT. @ 6' O.C. SUBGRADE PREPARATION

CONCRETE GRADE BEAM SCHEDULE (GB)	
MARK	DESCRIPTION
GB1	200mm x 600mm 200mm TOP 200mm BOT. 100mm @ 300mm O.C. TIES



CONCRETE SLAB DOWEL REINFORCEMENT (D)			
MARK	BAR SIZE	SPACING	REMARKS
D1	10M	600mm	TOP
D2	10M	1500mm	TOP

NOTES:
 1. SEE GENERAL STRUCTURAL NOTES ON DRAWING SET.
 2. SEE MECHANICAL DRAWINGS FOR MECHANICAL SERVICES.
 3. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL SERVICES.
 4. SEE MECHANICAL DRAWINGS FOR MECHANICAL SERVICES.
 5. SEE MECHANICAL DRAWINGS FOR MECHANICAL SERVICES.

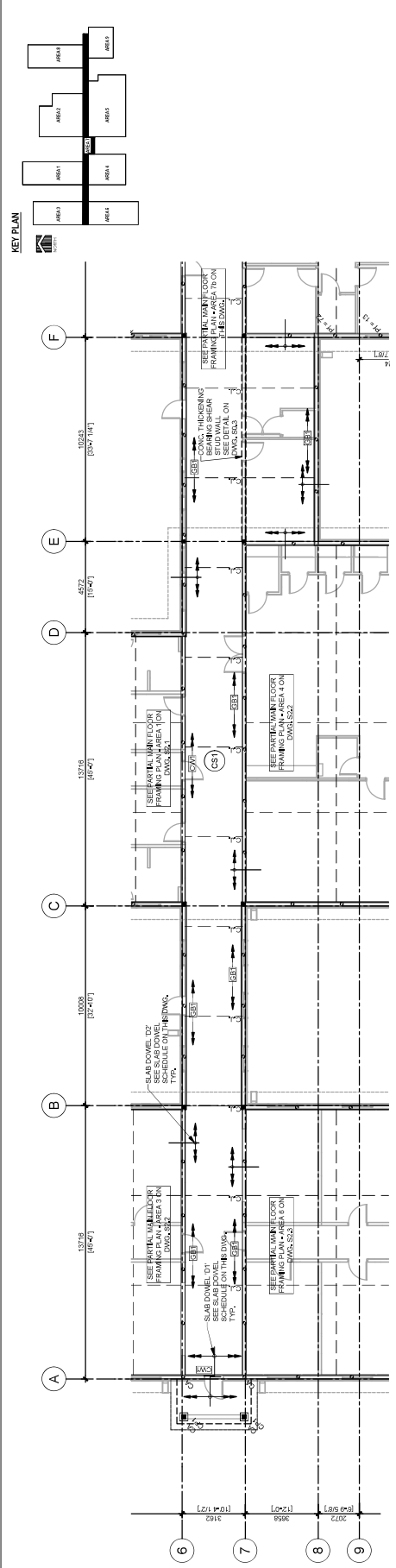
CONSULTANTS:
 MELEWKA STRUCTURES & DESIGN
 KUMULIN ARCHITECTURE INC.

**PRELIMINARY
 NOT FOR CONSTRUCTION**



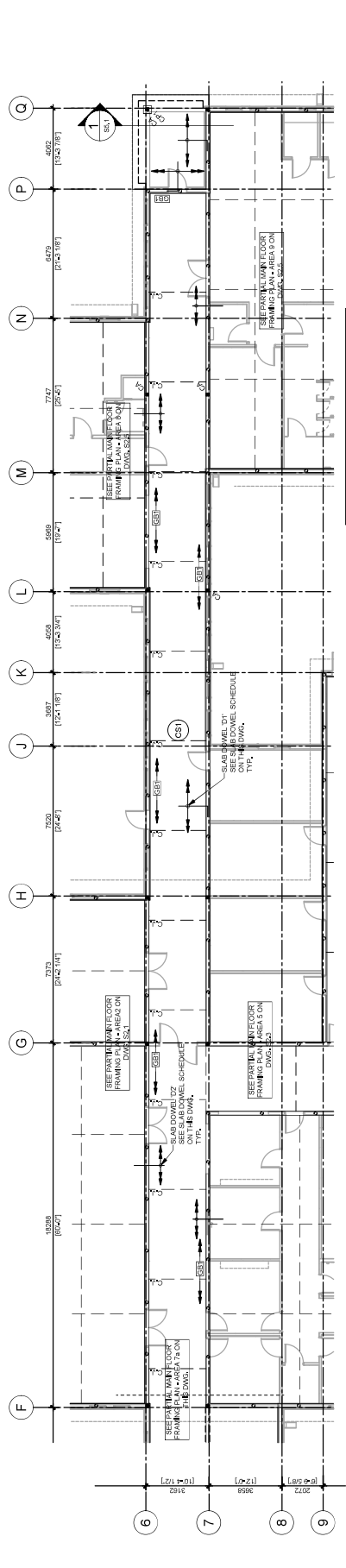
CLIENT	MELEWKA STRUCTURES & DESIGN
PROJECT	NETS NATION OF AB COMMUNITY RECOVERY CENTER
DATE	2024-07-24
DESIGNED BY	MELEWKA STRUCTURES & DESIGN
CHECKED BY	MELEWKA STRUCTURES & DESIGN
APPROVED BY	MELEWKA STRUCTURES & DESIGN

PROJECT	NETS NATION OF AB COMMUNITY RECOVERY CENTER
CLIENT	MELEWKA STRUCTURES & DESIGN
DATE	2024-07-24
DESIGNED BY	MELEWKA STRUCTURES & DESIGN
CHECKED BY	MELEWKA STRUCTURES & DESIGN
APPROVED BY	MELEWKA STRUCTURES & DESIGN
DRAWING NO.	S2.4
SCALE	AS SHOWN
DATE	2024-07-24
DRAWN BY	GT
CHECKED BY	GT
APPROVED BY	GT
TITLE	PARTIAL MAIN FLOOR FRAMING PLANS
PROJECT NO.	2024-07-24
SCALE	AS SHOWN
DATE	2024-07-24
DRAWN BY	GT
CHECKED BY	GT
APPROVED BY	GT
DRAWING NO.	S2.4
SCALE	AS SHOWN
DATE	2024-07-24
DRAWN BY	GT
CHECKED BY	GT
APPROVED BY	GT



PARTIAL MAIN FLOOR FRAMING PLAN - AREA 7a
 SCALE 1:100

- SEE GENERAL STRUCTURAL NOTES ON DRAWING SET.
- SEE MECHANICAL DRAWINGS FOR MECHANICAL SERVICES.
- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL SERVICES.
- SEE MECHANICAL DRAWINGS FOR MECHANICAL SERVICES.



PARTIAL MAIN FLOOR FRAMING PLAN - AREA 7b
 SCALE 1:100

- SEE GENERAL STRUCTURAL NOTES ON DRAWING SET.
- SEE MECHANICAL DRAWINGS FOR MECHANICAL SERVICES.
- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL SERVICES.
- SEE MECHANICAL DRAWINGS FOR MECHANICAL SERVICES.

CONCRETE GRADE BEAM SCHEDULE (GB)

MARK	GB1
DESCRIPTION	200mm x 600mm x200mm TOP, 100mm O.C. TIES
DIMENSION	200mm x 600mm
STEEL REINFORCEMENT	100 @ 300mm O.C. TIES

CONCRETE PIER SCHEDULE (CP)

MARK	CP1
DESCRIPTION	400mm x 400mm x 1500mm TALL CONCRETE PIER WITH TIES @ 6" O.C.

CONCRETE SLAB SCHEDULE (CS)

MARK	CS1
DESCRIPTION	150mm THK. CONC. SLAB ON TOP OF CONCRETE PIERS WITH 100 @ 400mm O.C. EACH WAY TOP ON 100 @ 400mm O.C. BARS WITH SUBSIDIARY PREPARATION

CONCRETE PIER SCHEDULE (CP)

MARK	CP1
DESCRIPTION	400mm x 400mm x 1500mm TALL CONCRETE PIER WITH TIES @ 6" O.C.

CONCRETE SLAB SCHEDULE (CS)

MARK	CS1
DESCRIPTION	150mm THK. CONC. SLAB ON TOP OF CONCRETE PIERS WITH 100 @ 400mm O.C. EACH WAY TOP ON 100 @ 400mm O.C. BARS WITH SUBSIDIARY PREPARATION

CONCRETE SLAB DOWEL REINFORCEMENT (D)

MARK	D1, D2
BAR SIZE	10M, 150mm
SPACING	600mm, 400mm O.C.
REMARKS	TOP, TOP

NOTES:
 1. This drawing shall be read in conjunction with the contract documents.
 2. All dimensions are in millimeters unless otherwise specified.
 3. All materials shall be of the highest quality available.
 4. All work shall be in accordance with the applicable building codes.
 5. The contractor shall be responsible for obtaining all necessary permits.
 6. The contractor shall be responsible for the safety of the work.
 7. The contractor shall be responsible for the protection of the existing structure.
 8. The contractor shall be responsible for the disposal of all waste.
 9. The contractor shall be responsible for the cleanup of the site.
 10. The contractor shall be responsible for the completion of the work.

CONSULTANTS:
 ARCHITECT: [Name]
 STRUCTURAL ENGINEER: [Name]
 MECHANICAL ENGINEER: [Name]
 ELECTRICAL ENGINEER: [Name]

PRELIMINARY
 NOT FOR CONSTRUCTION

TWS
 Engineering Ltd.
 STRUCTURAL | MECHANICAL
 ELECTRICAL | CIVIL CONSULTING

MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN
 ARCHITECTURE INC.

NETS NATION OF AB
COMMUNITY RECOVERY CENTER
 SMOKEY LAKE ALBERTA

PARTIAL MAIN FLOOR FRAMING PLANS

SCALE
 1:50

DATE
 2024-07-15

DRAWN BY
 [Name]

DRAWING NO.
 S2.5

SCALE
 1:50

DATE
 2024-07-15

DRAWN BY
 [Name]

DRAWING NO.
 S2.5

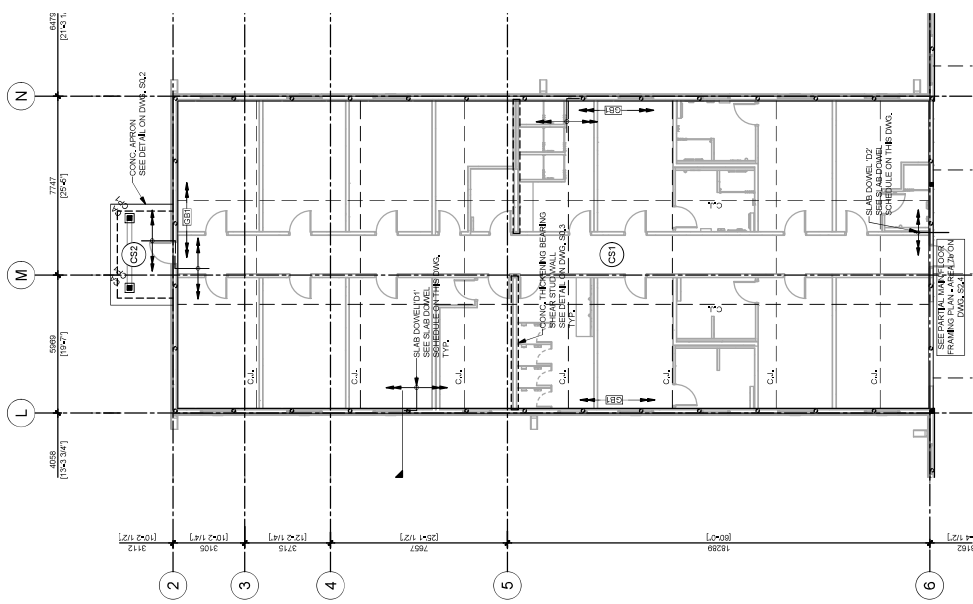
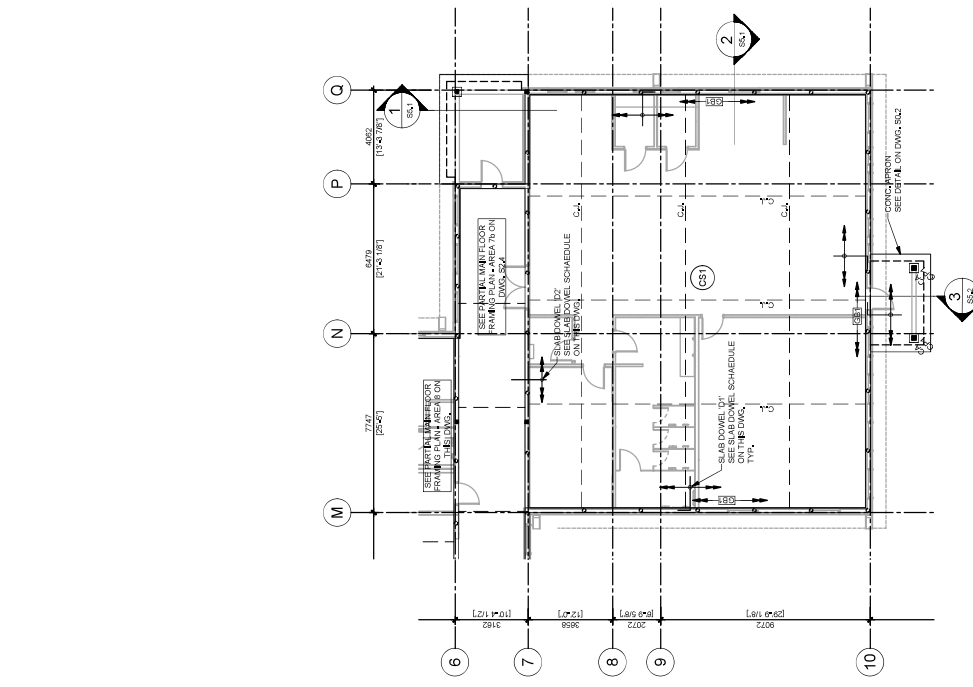


CONCRETE GRADE BEAM SCHEDULE (GB)	
MARK	GB1
DIMENSION	200mm x 400mm
STEEL REINFORCEMENT	2-20# TOP 2-20# BOT 10# @ 300mm O.C. TIES
SCHEMATIC SECTION	
VOID FORM	150mm

CONCRETE SLAB SCHEDULE (CS)	
MARK	CS1
DESCRIPTION	150mm THK. CONG. SLAB ON TOP OF 10# @ 400mm O.C. EACH WAY TOP OR 8# @ 100mm VAPOUR BARRIER TOP SUB-BEAM PREPARATION

CONCRETE PIER SCHEDULE (CP)	
MARK	CP1
DESCRIPTION	150mm x 150mm x 150mm TALL CONG. PIER RW 4-20# VERT. 10# TIES @ 100mm

CONCRETE SLAB DOMEL REINFORCEMENT (D)	
MARK	D1
BAR SIZE	X
SPACING	400mm O.C.
REMARKS	TOP
D1	10#
D2	150mm
	400mm O.C.
	TOP



PARTIAL MAIN FLOOR FRAMING PLAN - AREA 9

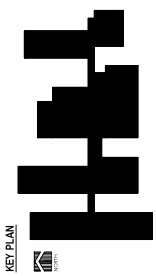
SCALE 1:50
 NORTH

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S2.1.
 2. SEE TYPICAL DETAILS ON DRAWING S2.2.
 3. SEE GEOTECHNICAL REPORT FOR FOOTING SUBBASE PREPARATION.
 4. SEE MECHANICAL DRAWINGS FOR NEEDS IN THESE AREAS.

PARTIAL MAIN FLOOR FRAMING PLAN - AREA 8

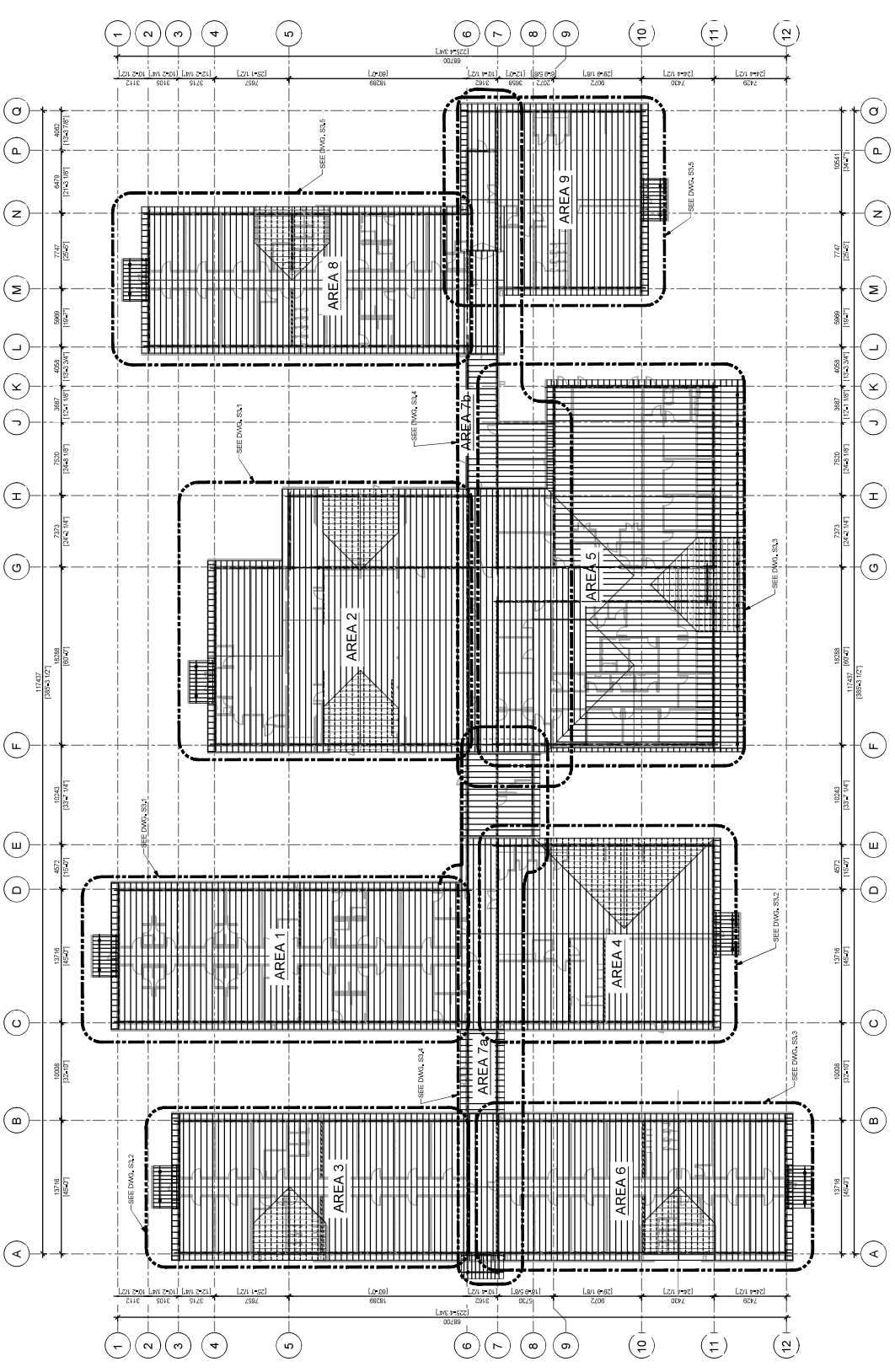
SCALE 1:50
 NORTH

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S2.1.
 2. SEE TYPICAL DETAILS ON DRAWING S2.2.
 3. SEE GEOTECHNICAL REPORT FOR FOOTING SUBBASE PREPARATION.
 4. SEE MECHANICAL DRAWINGS FOR NEEDS IN THESE AREAS.



KEY PLAN

NOTES:
 1. This drawing is to be read in conjunction with the relevant specifications and drawings.
 2. All dimensions are in millimeters unless otherwise stated.
 3. All drawings are the property of the business.
 4. This drawing is preliminary and is not to be used for construction purposes.
 5. All drawings are the property of the business.
 6. This drawing is preliminary and is not to be used for construction purposes.
 7. All drawings are the property of the business.
 8. This drawing is preliminary and is not to be used for construction purposes.
 9. All drawings are the property of the business.
 10. This drawing is preliminary and is not to be used for construction purposes.



OVERALL ROOF FRAMING PLAN
 SCALE 1:200
 NORTH

PRELIMINARY
 NOT FOR CONSTRUCTION



CLIENT	MELEWKA STRUCTURES & DESIGN
PROJECT	MELEWKA STRUCTURES & DESIGN
DATE	2023-07-24
DESIGNED BY	MELEWKA STRUCTURES & DESIGN
CHECKED BY	MELEWKA STRUCTURES & DESIGN
DATE	2023-07-24

MELEWKA STRUCTURES & DESIGN
 KUMULIN SULLIVAN
 STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL CONSULTING

PROJECT: METS NATION OF AB COMMUNITY RECOVERY CENTER
 SMOKY LAKE ALBERTA

DRAWING: OVERALL ROOF FRAMING PLAN

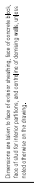
TITLE	OVERALL ROOF FRAMING PLAN
PROJECT NO.	TWS-24-0001
SCALE	1:200
DATE	2023-07-24
DRAWN BY:	SM
CHECKED BY:	SM

DRAWING NO: S3.0
 SHEET NO: A

NOTES:
 1. This drawing shall be read in conjunction with the contract documents and specifications.
 2. All dimensions are in millimeters unless otherwise indicated.
 3. The contractor shall be responsible for obtaining all necessary permits.
 4. The contractor shall be responsible for ensuring that all work is completed in accordance with the approved drawings.
 5. The contractor shall be responsible for ensuring that all work is completed in accordance with the approved drawings.

CONSULTANTS:
 ARCHITECT: [Name]
 STRUCTURAL ENGINEER: [Name]
 MECHANICAL ENGINEER: [Name]

PRELIMINARY NOT FOR CONSTRUCTION



MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN ARCHITECTURE INC.
 PROJECT: METS NATION OF AB COMMUNITY RECOVERY CENTER
 SMOKY LAKE ALBERTA

DRAWING: PARTIAL ROOF FRAMING PLANS

FILE: S3.1

PROJECT NO.: [Number]
SCALE: [Scale]
DATE: [Date]
DRAWN BY: [Name]
CHECKED BY: [Name]

REVISIONS:

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

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DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

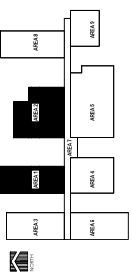
BY: [Name]

DATE: [Date]

BY: [Name]

DATE: [Date]

KEY PLAN



ROOF FRAMING SCHEDULE (R)

MARK	DESCRIPTION
R1	WOOD ROOF TRUSSES @ 400mm O.C.
R2	30x35 (DxH) @ 400mm O.C. SPF NO.12

NOTES:
 1. WOOD TRUSSES TO BE DESIGNED BY WOOD SUPPLIER.
 2. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED ON SITE PRIOR TO JOIST FABRICATION.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 4. REFER TO MECHANICAL DRAWINGS FOR ROOF SLOPES.
 5. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 6. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 7. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.

WOOD BEAM SCHEDULE

MARK	SIZE	SPECIES / GRADE
WB1	3x4 x 17.98' LVL	P1.7 SPF NO.12
WB2	3x4 x 17.98' LVL	310P4-04E
WB3	3x4 x 17.98' LVL	P1.7 SPF NO.12
WB4	3x4 x 17.98' LVL	310P4-04E

WOOD COLUMN SCHEDULE (WC)

MARK	SIZE	SPECIES / GRADE
WC1	194x194 (R/R)	P1.7 SPF NO.12
WC2	48V 30x154 (DxH)	SPF NO.12
WC3	30V 30x154 (DxH)	SPF NO.12
WC4	5 1/2" x 5 1/2" PSL	1/2E PARALLEL

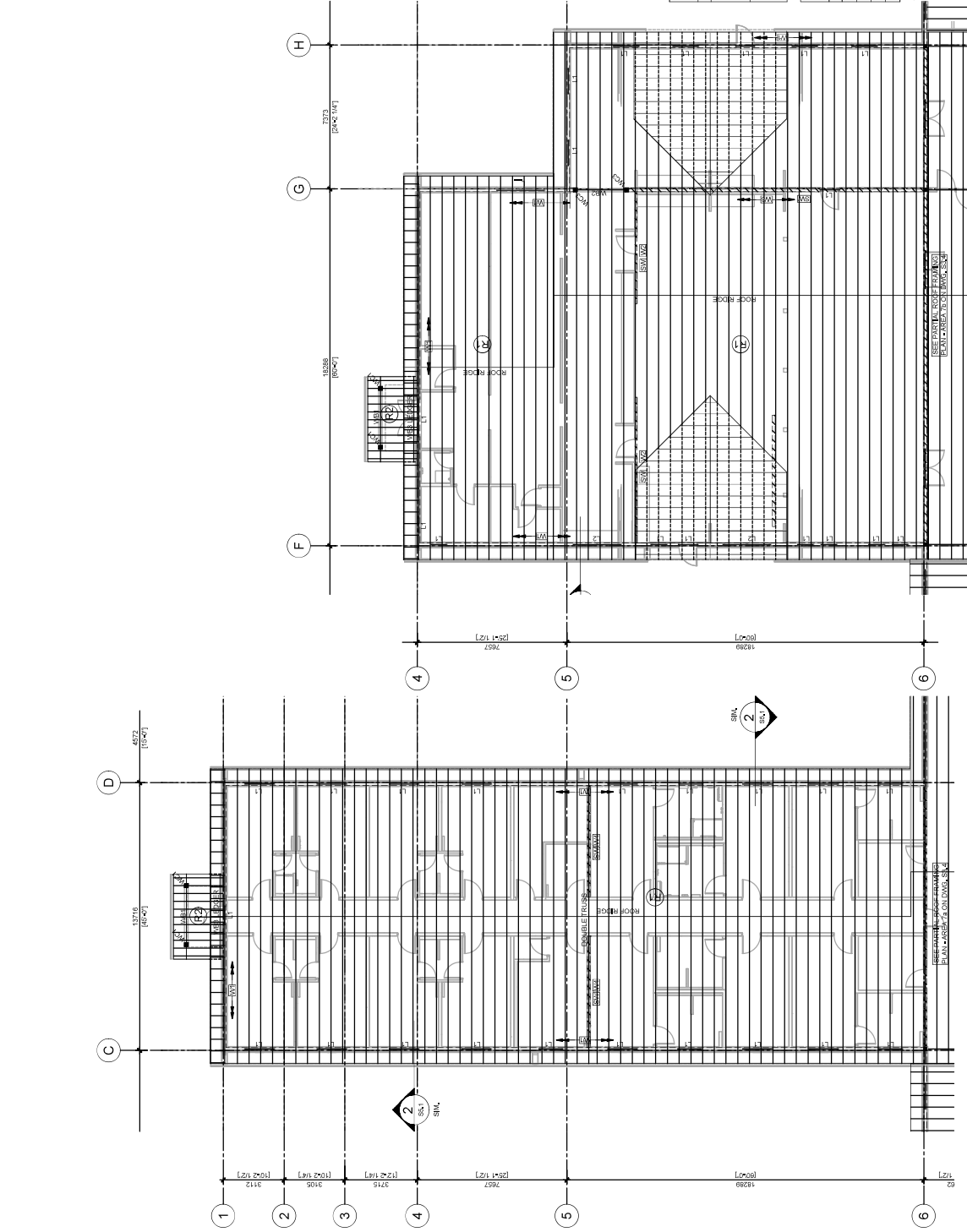
WOOD LINTEL BEAM SCHEDULE (L)

MARK	SIZE	SPECIES / GRADE
L1	2x4x8 STUDS @ 400mm O.C.	SPF NO.12 STUDS PLATES
L2	2x4x8 STUDS @ 400mm O.C.	SPF NO.12 STUDS PLATES

WOOD STUD WALL SCHEDULE (W)

MARK	DESCRIPTION
W1	30x154 (DxH) @ 400mm O.C.
W2	30x154 (DxH) @ 400mm O.C.
W3	30x154 (DxH) @ 400mm O.C.

NOTE: PROVIDE HORIZONTAL BRACING TO MATCH STUD SIZE @ 1200mm O.C. SPACED VERTICALLY.



PARTIAL ROOF FRAMING PLAN - AREA 2

SCALE 1:100

NOTES:
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S01.
 2. CONTRACTOR TO COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO TRUSS FABRICATION.
 3. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED ON SITE PRIOR TO JOIST FABRICATION.
 4. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 5. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 6. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 7. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.

GENERAL AND MECHANICAL DRAWINGS:

REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.

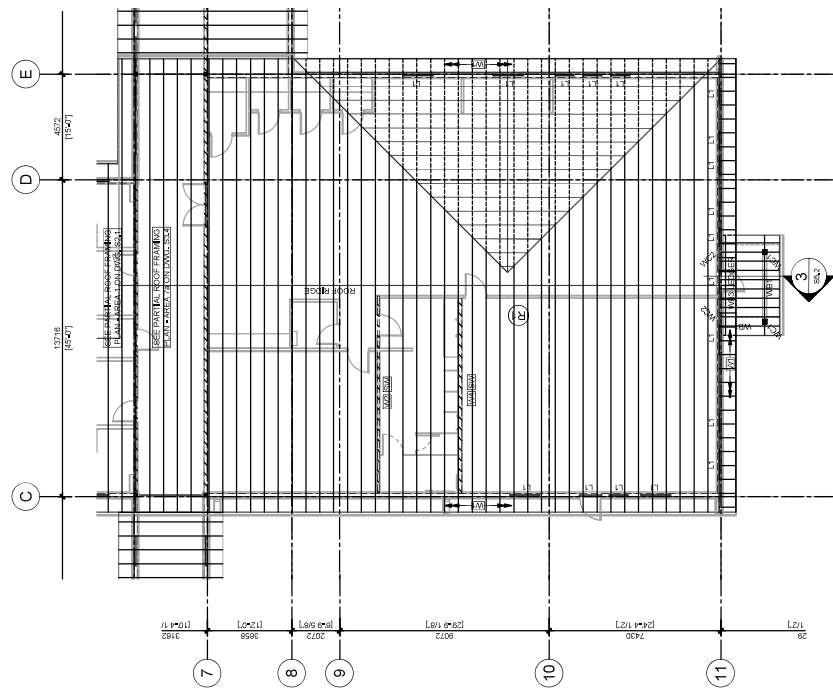
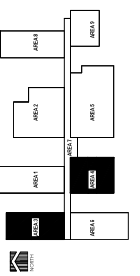
REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.

REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.

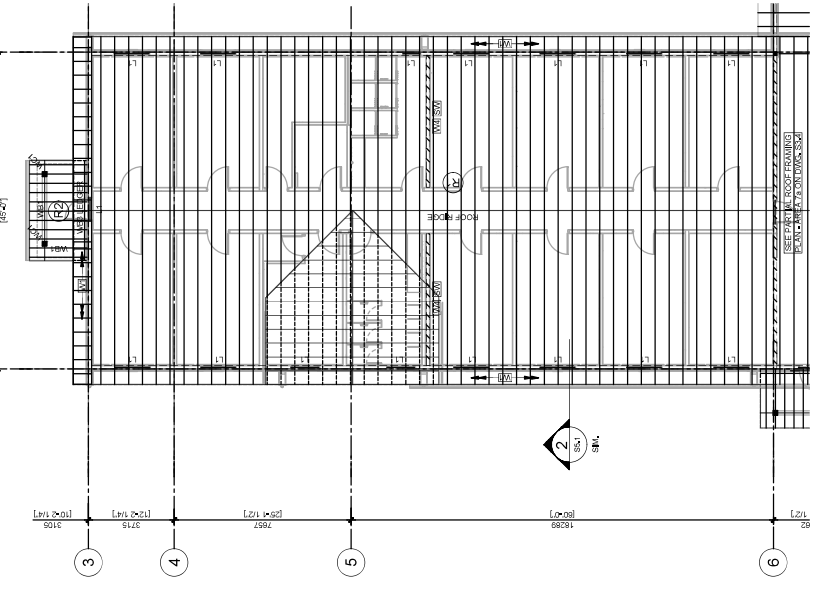
REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.

REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.

NOTES:
 1. This drawing is to be read in conjunction with the relevant schedule and all other drawings on this set.
 2. All dimensions are in millimeters unless otherwise stated.
 3. All materials are to be supplied by the client.
 4. All work is to be done in accordance with the relevant building code.
 5. All work is to be done in accordance with the relevant fire code.
 6. All work is to be done in accordance with the relevant accessibility code.
 7. All work is to be done in accordance with the relevant environmental code.
 8. All work is to be done in accordance with the relevant health and safety code.
 9. All work is to be done in accordance with the relevant occupational health and safety code.
 10. All work is to be done in accordance with the relevant electrical code.
 11. All work is to be done in accordance with the relevant plumbing code.
 12. All work is to be done in accordance with the relevant gas code.
 13. All work is to be done in accordance with the relevant mechanical code.
 14. All work is to be done in accordance with the relevant fire alarm code.
 15. All work is to be done in accordance with the relevant fire suppression code.
 16. All work is to be done in accordance with the relevant lift code.
 17. All work is to be done in accordance with the relevant escalator code.
 18. All work is to be done in accordance with the relevant stairs code.
 19. All work is to be done in accordance with the relevant ramps code.
 20. All work is to be done in accordance with the relevant barriers code.
 21. All work is to be done in accordance with the relevant signage code.
 22. All work is to be done in accordance with the relevant lighting code.
 23. All work is to be done in accordance with the relevant acoustics code.
 24. All work is to be done in accordance with the relevant energy code.
 25. All work is to be done in accordance with the relevant sustainability code.
 26. All work is to be done in accordance with the relevant green building code.
 27. All work is to be done in accordance with the relevant smart building code.
 28. All work is to be done in accordance with the relevant digital building code.
 29. All work is to be done in accordance with the relevant resilient building code.
 30. All work is to be done in accordance with the relevant future-ready building code.

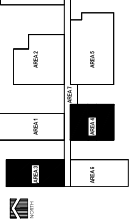


PARTIAL ROOF FRAMING PLAN - AREA 4
 SCALE: PROVIDE HORIZONTAL BLOODING TO MATCH STUD SIZE @ 100mm O.C. SPACED VERTICALLY.
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S41.
 2. SEE TYPICAL DETAILS ON DRAWING S42.
 3. COMMERCIAL AS WORK SHOWN.
 4. TRUSS JOISTS AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOIST SUPPLIER.
 5. PROVIDE JOIST BRACING AS REQUIRED SPACED AT 200mm MAX TOP & BOTTOM CHORD.
 6. REFER TO ARCHITECTURAL DRAWINGS FOR ROOMS AND ROOF HATCH WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 7. ZZZZZZ REFERS TO SHEARWALL. SEE DETAIL AND SCHEDULE ON DWG. S41.



PARTIAL ROOF FRAMING PLAN - AREA 3
 SCALE: PROVIDE HORIZONTAL BLOODING TO MATCH STUD SIZE @ 100mm O.C. SPACED VERTICALLY.
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S41.
 2. SEE TYPICAL DETAILS ON DRAWING S42.
 3. COMMERCIAL AS WORK SHOWN.
 4. TRUSS JOISTS AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOIST SUPPLIER.
 5. PROVIDE JOIST BRACING AS REQUIRED SPACED AT 200mm MAX TOP & BOTTOM CHORD.
 6. REFER TO ARCHITECTURAL DRAWINGS FOR ROOMS AND ROOF HATCH WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 7. ZZZZZZ REFERS TO SHEARWALL. SEE DETAIL AND SCHEDULE ON DWG. S41.

KEY PLAN



ROOF FRAMING SCHEDULE (R)

MARK	DESCRIPTION
R1	WOOD ROOF TRUSS @ 600mm O.C.
R2	3x20S (Dx10) @ 400mm O.C. SPF NO.12

NOTES:
 • WOOD TRUSS TO BE DESIGNED BY WOOD SUPPLIER.
 • WOOD JOIST AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOIST SUPPLIER.
 • PROVIDE JOIST BRACING @ 200mm O.C. (MAX).
 • ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 • ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE RELEVANT BUILDING CODES.

WOOD BEAM SCHEDULE

MARK	SIZE	SPECIES/GRADE
WB1	3x11 V 3x20S (Dx12)	P.T., SPF NO. 12
WB2	3x11 V 3x11 7/8" LVL	3100P&J2E
WB3	3x20S (Dx12)	P.T., SPF NO. 12
WB4	3x11 V 3x11 1/8" LVL	3100P&J2E

WOOD COLUMN SCHEDULE (WC)

MARK	SIZE	SPECIES / GRADE
WC1	16x114K (B48)	P.T., SPF NO. 12
WC2	4x1 V 38x140 (Dx6)	SPF NO. 12
WC3	3x1 V 38x184 (Dx6)	SPF NO. 12
WC4	5.1x4 x 5.14 FSL	T&E PARALLEL

WOOD LINTEL BEAM SCHEDULE (L)

MARK	SIZE	SPECIES/GRADE
L1	3x11 V 3x11 7/8" LVL	3100P&J2E
L2	2x12x12 STUDS @ 400mm O.C.	SPF NO. 12
L3	2x12x12 STUDS @ 400mm O.C.	SPF NO. 12
L4	2x12x12 STUDS @ 400mm O.C.	SPF NO. 12

WOOD STUD WALL SCHEDULE (W)

MARK	DESCRIPTION
W1	3x140 (Dx6) @ 400mm O.C.
W2	3x140 (Dx6) @ 400mm O.C.
W3	3x140 (Dx6) @ 400mm O.C.
W4	3x140 (Dx6) @ 400mm O.C.

NOTES:
 • PROVIDE HORIZONTAL BLOODING TO MATCH STUD SIZE @ 100mm O.C. SPACED VERTICALLY.
 • ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 • ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE RELEVANT BUILDING CODES.

**PRELIMINARY
 NOT FOR CONSTRUCTION**



REVISION	DATE	BY	DESCRIPTION
1	2024-01-15	JM	ISSUED FOR CLIENT REVIEW
2	2024-01-20	JM	ISSUED FOR CLIENT REVIEW

CLIENT
 MELEWKA STRUCTURES & DESIGN

PROJECT
 METS NATION OF AB COMMUNITY RECOVERY CENTER
 SMOKY LAKE ALBERTA

DRAWING
 PARTIAL ROOF FRAMING PLANS

FILE	PROJECT NO.	SCALE	DATE	DRAWN BY	REV. NO.
	100-24-0000	1/8" = 1'-0"	2024-01-15	JM	01

DRAWING NO.: S3.2 **A**

NOTES:
 1. THIS DRAWING IS TO BE USED IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS PROJECT.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 3. ALL MATERIALS AND SPECIFICATIONS ARE TO BE AS SHOWN ON THE DRAWING.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.

CONSULTANTS:

**PRELIMINARY
 NOT FOR CONSTRUCTION**

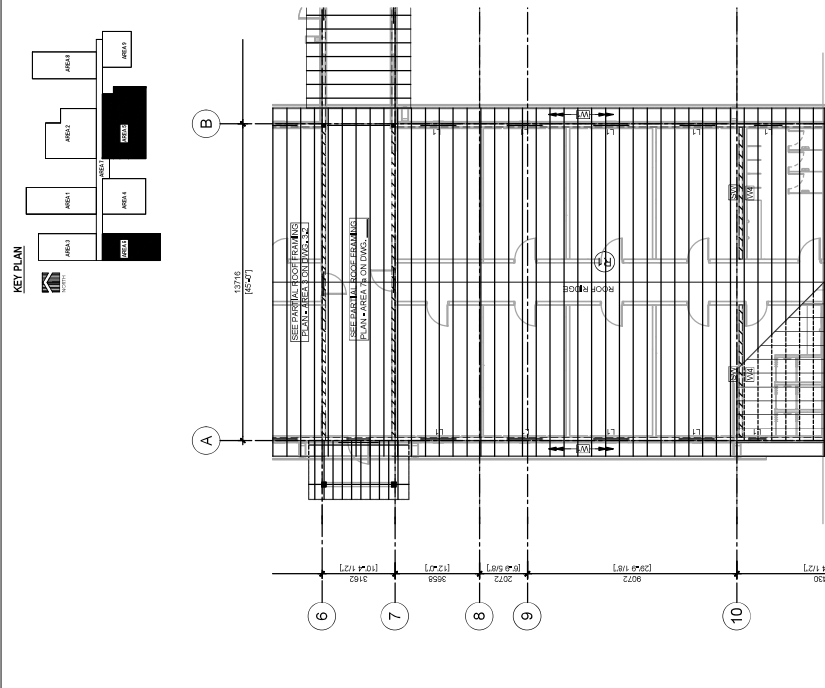


CLIENT	MELEWKA STRUCTURES & DESIGN
PROJECT	MELEWKA STRUCTURES & DESIGN
DATE	2024-07-24
DESIGNED BY	MELEWKA STRUCTURES & DESIGN
CHECKED BY	MELEWKA STRUCTURES & DESIGN
APPROVED BY	MELEWKA STRUCTURES & DESIGN

KUMULIN SULLIVAN
 ARCHITECTURAL PROJECTS LTD.
 10000 100th Street, Edmonton, Alberta T5A 0A7
 Phone: (780) 781-3333 Fax: (780) 781-3334
 Email: info@kumulin.com

PROJECT: METS NATION OF AB COMMUNITY RECOVERY CENTER
LOCATION: SMOKEY LAKE ALBERTA
DRAWING: PARTIAL ROOF FRAMING PLANS
SCALE: 1:100

FILE	SMOKEY
PROJECT NO.	100-24-0000
SCALE	1:100
DATE	2024-07-24
DRAWN BY:	MELEWKA
CHECKED BY:	MELEWKA
APPROVED BY:	MELEWKA
DRAWING NO.:	S3.3
REV. NO.:	A



PARTIAL ROOF FRAMING PLAN - AREA 5
 SCALE 1:100

WOOD LINTEL BEAM SCHEDULE (L)

MARK	SIZE	SPECIES/GRADE
L1	3PLY 1.3M x 7.14 LVL CONT. PLATE 2 CONT. STUD E5	310R2Q4E-HEADER SFP NO. 172+STUDSPLATES
L2	3PLY 1.3M x 9.14 LVL CONT. PLATE 2 CONT. STUD E5	310R2Q4E-HEADER SFP NO. 172+STUDSPLATES

WOOD STUD WALL SCHEDULE (W)

MARK	DESCRIPTION
W1	38x184 (2x8) @ 400mm O.C.
W2	38x184 (2x8) @ 400mm O.C.
W3	38x184 (2x8) @ 400mm O.C.
W4	38x184 (2x8) @ 400mm O.C.

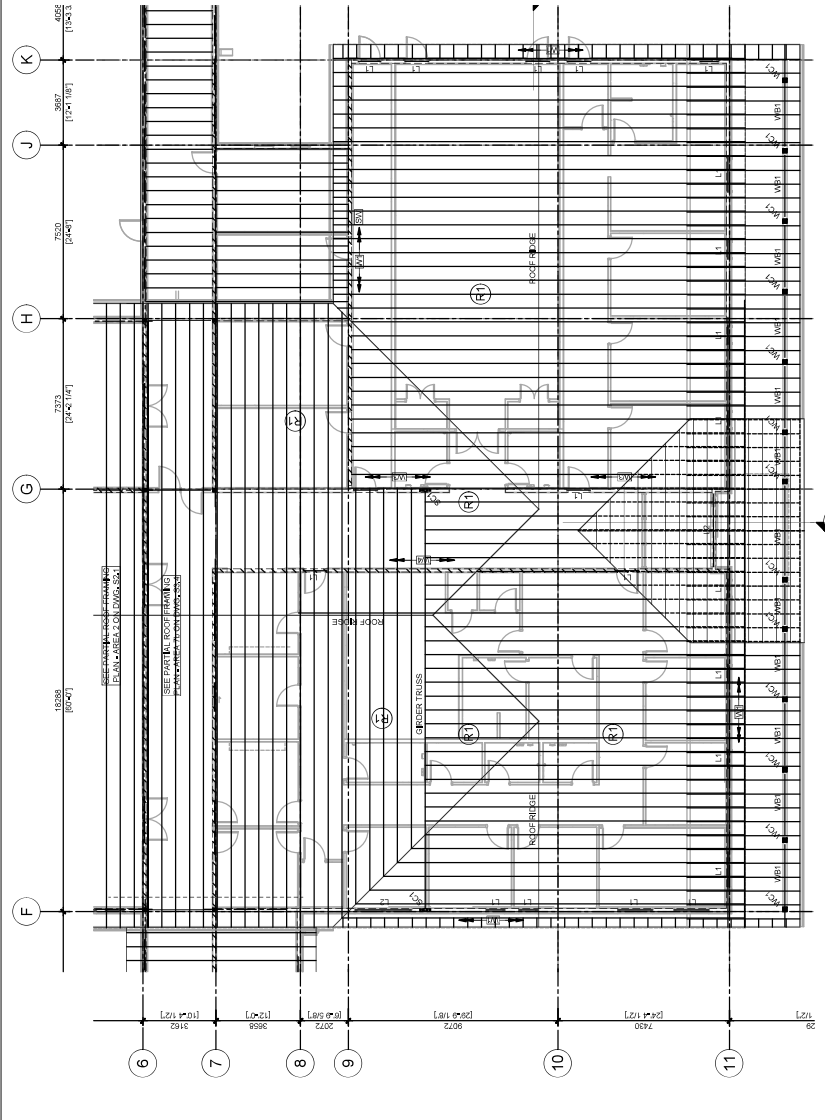
NOTE: PROVIDE HORIZONTAL BRACING TO MATCH STUD W/BE @ 1000mm O.C. SPACED VERTICALLY.

WOOD BEAM SCHEDULE

MARK	SIZE	SPECIES/GRADE
WB1	32x118 (2x6) (2x12)	P.V.T. SFP NO. 112
WB2	32x118 (2x6) (2x12)	310R2Q4E
WB3	32x118 (2x6) (2x12)	P.V.T. SFP NO. 112
WB4	32x118 (2x6) (2x12)	310R2Q4E

WOOD COLUMN SCHEDULE (WC)

MARK	SIZE	SPECIES/GRADE
WC1	184x184 (8x8)	P.V.T. SFP NO. 112
WC2	48x138 (4x8)	SFP NO. 112
WC3	38x184 (2x8)	SFP NO. 112
WC4	51x74 (5 1/4 FLS)	1-2E PARALLAM



PARTIAL ROOF FRAMING PLAN - AREA 6
 SCALE 1:100

ROOF FRAMING SCHEDULE (R)

MARK	DESCRIPTION	SIZE	SPECIES/GRADE
R1	WOOD ROOF TRUSS	600mm O.C.	P.V.T. SFP NO. 112
R2	WOOD ROOF TRUSS	600mm O.C.	P.V.T. SFP NO. 112

STEEL COLUMN SCHEDULE (SC)

MARK	SIZE	GRADE
SC1	HSS 102x102x6.4	350W

NOTE: SEE BASE PLATE DETAILS ON DWG. S41

NOTES:
 1. THIS DRAWING IS TO BE USED IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS PROJECT.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 3. ALL MATERIALS AND SPECIFICATIONS ARE TO BE AS SHOWN ON THE DRAWING.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.

CONTRACTOR TO ACCORDATE ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
 1. SEE TYPICAL DETAILS ON DRAWING S41.
 2. PROVIDE HORIZONTAL BRACING TO MATCH STUD W/BE @ 1000mm O.C. SPACED VERTICALLY.
 3. PROVIDE HORIZONTAL BRACING TO MATCH STUD W/BE @ 1000mm O.C. SPACED VERTICALLY.
 4. TRUSS JOISTS AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOIST SUPPLIER.
 5. ALL DIMENSIONS AND ELEVATIONS SHALL BE OBTAINED FROM THE JOIST SUPPLIER PRIOR TO JOIST FABRICATION.
 6. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 7. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 8. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 9. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 10. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 11. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 12. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
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 15. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 16. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 17. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 18. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 19. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
 20. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.

NOTES:
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S4.1.
 2. SEE TYPICAL DETAILS ON DRAWING S4.2.
 3. COMMENTS OF WORK SHALL BE MADE IN ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
 4. TRUSS JOINTS AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOINT SUPPLIER.
 5. PROVIDE JOINT BRIDGING AS REQUIRED SPACED AT 2400mm MAX TOP & BOTTOM CHORD.
 6. OCCURRENCE OF JOINT BRIDGING SHALL BE INDICATED BY ARCHITECTURAL AND MECHANICAL DRAWING.
 7. ZZZZZZZZ REFERS TO SHEARWALL. SEE DETAIL AND SCHEDULE ON DWG. S4.1

CONSULTANT/REVISIONS

NO.	DATE	DESCRIPTION
1	15/07/2024	ISSUED FOR CLIENT REVIEW
2	20/07/2024	ISSUED FOR CLIENT REVIEW

PRELIMINARY NOT FOR CONSTRUCTION

TWS Engineering Ltd.
 STRUCTURAL & MECHANICAL ELECTRICAL & MECHANICAL CONSULTING

MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN ARCHITECTURE INC.
 10000 170th St. Suite 100, Edmonton, Alberta T5C 1K7

PROJECT: METS NATION OF AB COMMUNITY RECOVERY CENTER

SMOKEY LAKE ALBERTA

PARTIAL ROOF FRAMING PLANS

SCALE: 1:100

DRAWN BY: [Name]

DATE: [Date]

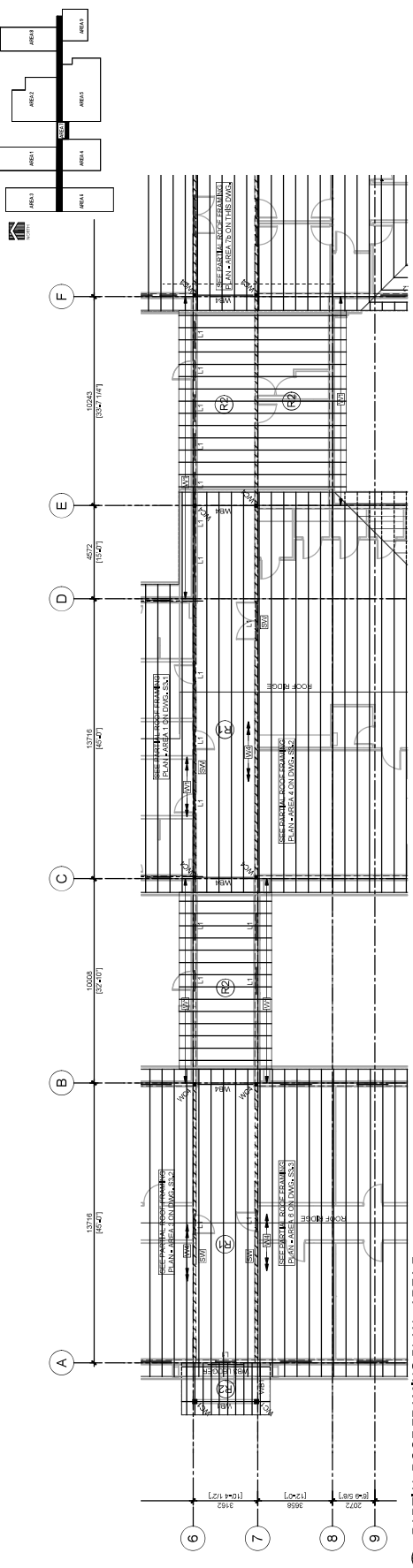
DRAWING NO: S3.4

REV: 01

8/10/2024

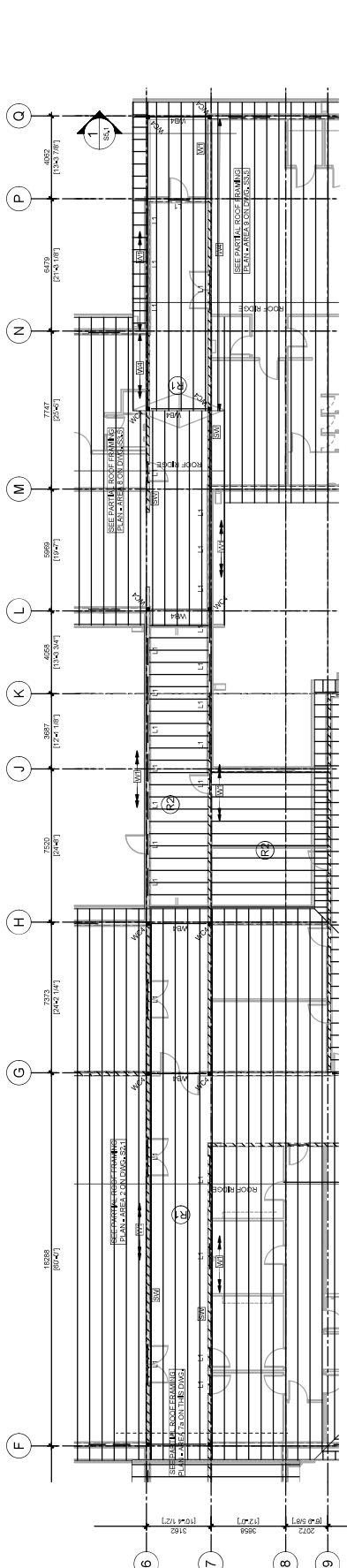
A

KEY PLAN



PARTIAL ROOF FRAMING PLAN - AREA 7a

- SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S4.1.
- SEE TYPICAL DETAILS ON DRAWING S4.2.
- COMMENTS OF WORK SHALL BE MADE IN ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
- TRUSS JOINTS AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOINT SUPPLIER.
- PROVIDE JOINT BRIDGING AS REQUIRED SPACED AT 2400mm MAX TOP & BOTTOM CHORD.
- OCCURRENCE OF JOINT BRIDGING SHALL BE INDICATED BY ARCHITECTURAL AND MECHANICAL DRAWING.
- ZZZZZZZ REFERS TO SHEARWALL. SEE DETAIL AND SCHEDULE ON DWG. S4.1



PARTIAL ROOF FRAMING PLAN - AREA 7b

- SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S4.1.
- SEE TYPICAL DETAILS ON DRAWING S4.2.
- COMMENTS OF WORK SHALL BE MADE IN ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
- TRUSS JOINTS AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOINT SUPPLIER.
- PROVIDE JOINT BRIDGING AS REQUIRED SPACED AT 2400mm MAX TOP & BOTTOM CHORD.
- OCCURRENCE OF JOINT BRIDGING SHALL BE INDICATED BY ARCHITECTURAL AND MECHANICAL DRAWING.
- ZZZZZZZ REFERS TO SHEARWALL. SEE DETAIL AND SCHEDULE ON DWG. S4.1

WOOD BEAM SCHEDULE

MARK	SIZE	SPECIES/GRADE
WB1	3x4Y 3x296 (D12)	P.T. SFF NO. 1/2
WB2	3x4Y 3M x 1178 LVL	3100R-HQZE
WB3	3x296 (D12)	P.T. SFF NO. 1/2
WB4	3x4Y 3M x 181 LVL	3100R-HQZE

WOOD LINTEL BEAM SCHEDULE (L)

MARK	SIZE	SPECIES/GRADE
L1	3x4Y 1 3/4" x 7 1/4" LVL	3100R-HQZE
L2	2 CONT. STUDS @ 400mm O.C.	P.T. SFF NO. 1/2
L3	3x4Y 1 3/4" x 5 1/4" LVL	3100R-HQZE
L4	2 CONT. STUDS @ 400mm O.C.	P.T. SFF NO. 1/2

WOOD STUD WALL SCHEDULE (W)

MARK	DESCRIPTION
W1	3x4Y 1 3/4" x 240 @ 400mm O.C.
W2	3x4Y 1 3/4" x 240 @ 400mm O.C.
W3	3x4Y 1 3/4" x 240 @ 400mm O.C.
W4	3x4Y 1 3/4" x 240 @ 400mm O.C.

WOOD COLUMN SCHEDULE (WC)

MARK	SIZE	SPECIES/GRADE
WC1	18x184 (R6)	P.T. SFF NO. 1/2
WC2	3x4Y 3x4 (D12)	SFF NO. 1/2
WC3	3x4Y 3x4 (D12)	SFF NO. 1/2
WC4	5 1/4" x 5 1/4" PSL	REPARALLAM

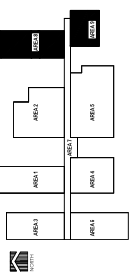
WOOD TRUSS TO BE DESIGNED BY WOOD SUPPLIER.

- ALL DOUBLE JOINT JOIST BEAMS ON WALL TO BE SUPPORTED WITH H/R
- WOOD TRUSS TO BE DESIGNED BY WOOD SUPPLIER.
- PROVIDE BRIDGING @ 2400mm O.C. MAX. BY SUPPLIER'S ENGINEER
- DESIGN WALL SUPPORT CONNECTIONS.

NOTE: TRUSS JOINT BRIDGING SHALL BE VERIFIED ON SITE PRIOR TO JOIST FABRICATION.

- ALL DOUBLE JOINT JOIST BEAMS ON WALL TO BE SUPPORTED WITH H/R
- WOOD TRUSS TO BE DESIGNED BY WOOD SUPPLIER.
- PROVIDE BRIDGING @ 2400mm O.C. MAX. BY SUPPLIER'S ENGINEER
- DESIGN WALL SUPPORT CONNECTIONS.

NOTES:
 1. All drawings are to be read in conjunction with the contract documents.
 2. The contractor shall be responsible for obtaining all necessary permits.
 3. All work shall be done in accordance with the applicable building codes.
 4. The contractor shall be responsible for the accuracy of all dimensions and elevations.
 5. The contractor shall be responsible for the accuracy of all material specifications.
 6. The contractor shall be responsible for the accuracy of all construction methods.
 7. The contractor shall be responsible for the accuracy of all construction details.
 8. The contractor shall be responsible for the accuracy of all construction schedules.
 9. The contractor shall be responsible for the accuracy of all construction drawings.
 10. The contractor shall be responsible for the accuracy of all construction documents.



ROOF FRAMING SCHEDULE (R)

MARK	DESCRIPTION
R1	WOOD ROOF TRUSS @ 600mm O.C.
R2	38x133 (2x10) @ 600mm O.C. SPF NO. 1/2

- NOTES:**
- 1. ALL DIMENSIONS BY ARCH. UNLESS OTHERWISE NOTED.
 - 2. ALL DIMENSIONS TO FACE UNLESS OTHERWISE NOTED.
 - 3. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.
 - 4. ALL DIMENSIONS TO OUTLINE UNLESS OTHERWISE NOTED.
 - 5. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.
 - 6. ALL DIMENSIONS TO FACE UNLESS OTHERWISE NOTED.
 - 7. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.
 - 8. ALL DIMENSIONS TO OUTLINE UNLESS OTHERWISE NOTED.
 - 9. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.
 - 10. ALL DIMENSIONS TO FACE UNLESS OTHERWISE NOTED.

WOOD BEAM SCHEDULE

MARK	SIZE	SPECIES/GRADE
WB1	34x17 (2x12)	P.T., SPF NO. 1/2
WB2	34x17 (2x12)	310P-FURU
WB3	38x26 (2x12)	P.T., SPF NO. 1/2
WB4	34x17 (2x12)	310P-FURU

WOOD COLUMN SCHEDULE (WC)

MARK	SIZE	SPECIES/GRADE
WC1	194x194 (8x8)	P.T., SPF NO. 1/2
WC2	314x314 (12x12)	SPF NO. 1/2
WC3	314x314 (12x12)	SPF NO. 1/2
WC4	5 1/4" x 5 1/4" PSL	1/2E PARALLAM

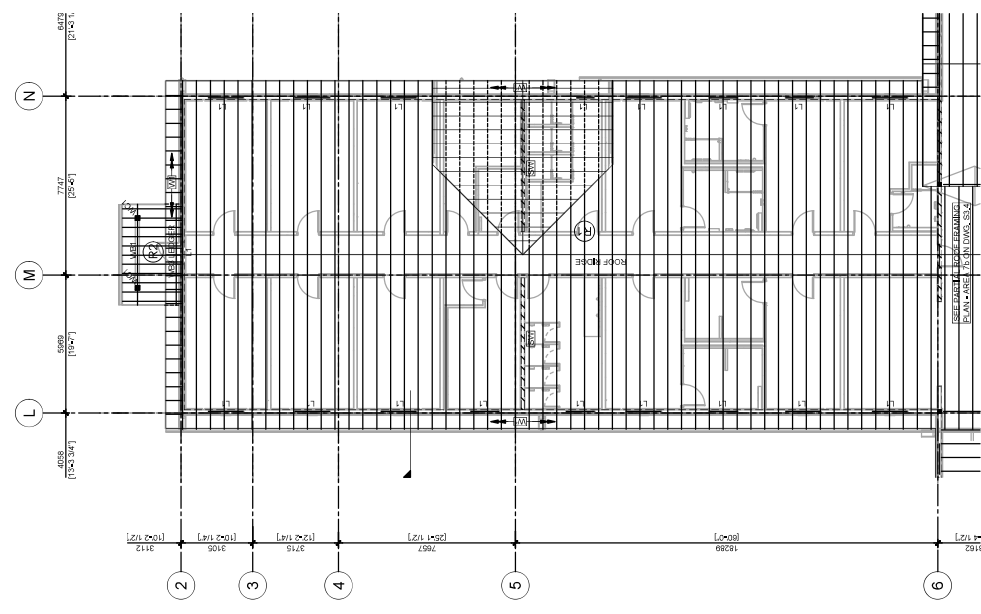
WOOD LINTEL BEAM SCHEDULE (L)

MARK	SIZE	SPECIES/GRADE
L1	34x17 (2x12)	P.T., SPF NO. 1/2
L2	34x17 (2x12)	310P-FURU
L3	34x17 (2x12)	P.T., SPF NO. 1/2
L4	34x17 (2x12)	310P-FURU

WOOD STUD WALL SCHEDULE (W)

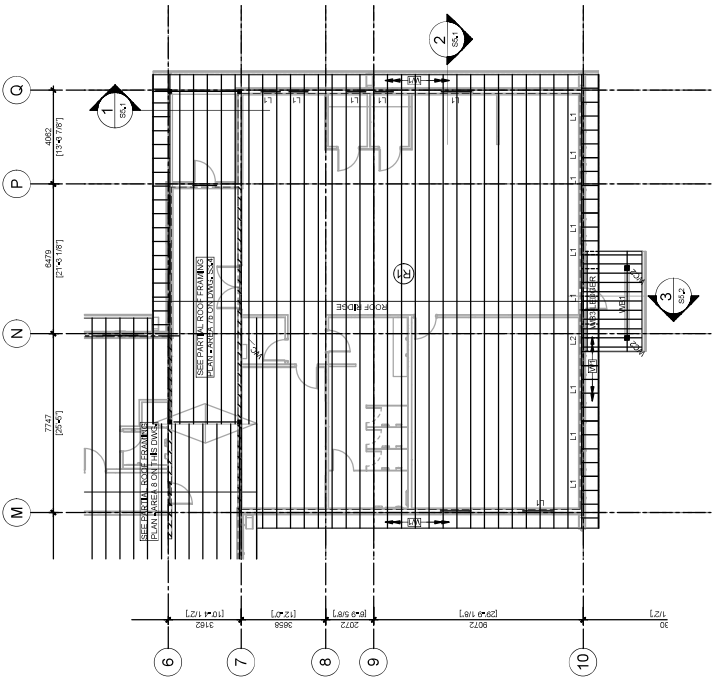
MARK	DESCRIPTION
W1	38x141 (2x8) @ 400mm O.C.
W2	38x141 (2x8) @ 400mm O.C.
W3	38x141 (2x8) @ 400mm O.C.
W4	38x141 (2x8) @ 400mm O.C.

NOTE: PROVIDE HORIZONTAL BLOOMING TO MATCH STUD SIZE @ 1200mm O.C. SPACED VERTICALLY.



PARTIAL ROOF FRAMING PLAN - AREA 8
 SCALE: 1/8" = 1'-0"

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S2.1.
2. SEE TYPICAL DETAILS ON DRAWING S2.2.
3. PROVIDE ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
4. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED ON SITE PRIOR TO LAYOUT AND CONSTRUCTION.
5. PROVIDE JOIST BRACING AS REQUIRED SPACED AT 2400mm MAX TOP & BOTTOM CHORD.
6. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ROOF HATCH WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
7. ZZZZZZZZ REFERS TO SHEARWALL. SEE DETAIL AND SCHEDULE ON DWG. S4.1.



PARTIAL ROOF FRAMING PLAN - AREA 9
 SCALE: 1/8" = 1'-0"

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S2.1.
2. SEE TYPICAL DETAILS ON DRAWING S2.2.
3. PROVIDE ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
4. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED ON SITE PRIOR TO LAYOUT AND CONSTRUCTION.
5. PROVIDE JOIST BRACING AS REQUIRED SPACED AT 2400mm MAX TOP & BOTTOM CHORD.
6. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ROOF HATCH WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
7. ZZZZZZZZ REFERS TO SHEARWALL. SEE DETAIL AND SCHEDULE ON DWG. S4.1.

**PRELIMINARY
 NOT FOR CONSTRUCTION**



**MELEWKA STRUCTURES &
 DESIGN**

**KUMLIN SULLIVAN
 STRUCTURAL & MECHANICAL
 ELECTRICAL CIVIL CONSULTING**

**METS NATION OF AB
 COMMUNITY RECOVERY
 CENTER**
 SMOKY LAKE ALBERTA

**DRAWING
 PARTIAL ROOF FRAMING
 PLANS**

FILE	2024-001
PROJECT NO.	2024-001
SCALE	1/8" = 1'-0"
DATE	14/04/2024
DRAWN BY:	[Name]
CHECKED BY:	[Name]
DRAWING NO.	S3.5
REV. NO.	A

NOTES:
 1. This drawing shall be read in conjunction with the contract documents and specifications.
 2. The Engineer is not responsible for the design of the foundation or the pile cap.
 3. The Contractor shall verify the location and depth of all existing utilities prior to construction.
 4. All drawings shall be submitted to the Engineer for review and approval.
 5. The Contractor shall be responsible for obtaining all necessary permits and approvals.
 6. The Contractor shall maintain access to all adjacent properties at all times.
 7. The Contractor shall be responsible for the safety of all workers and the public.
 8. The Contractor shall be responsible for the removal and disposal of all waste materials.
 9. The Contractor shall be responsible for the protection of all existing structures and utilities.
 10. The Contractor shall be responsible for the completion of all work within the specified time frame.

CONSULTANTS:
 TWS Engineering Ltd.
 Structural, Mechanical, Electrical, Civil Consulting
 10010 104 Street, Edmonton, Alberta T5C 1K8
 Phone: (780) 443-2828
 Fax: (780) 443-2829
 Email: info@tws.ca
 Website: www.tws.ca

**PRELIMINARY
 NOT FOR CONSTRUCTION**

**MELEWKA STRUCTURES &
 DESIGN**

KUMLIN SULLIVAN
 ARCHITECTURE PLANOLOG LTD.
 10010 104 Street, Edmonton, Alberta T5C 1K8
 Phone: (780) 443-2828
 Fax: (780) 443-2829
 Email: info@kumlinsullivan.com
 Website: www.kumlinsullivan.com

PROJECT:
 METS NATION OF AB
 COMMUNITY RECOVERY
 CENTER
 SMOKY LAKE ALBERTA

**DRAWING
 DETAILS**

TITLE
 DRAWING NO.
 PROJECT NO.
 SCALE
 DATE
 DRAWN BY:
 CHECKED BY:

CLIENT

REVISIONS

DATE

BY

DATE

BY

DATE

BY

DATE

BY

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BY

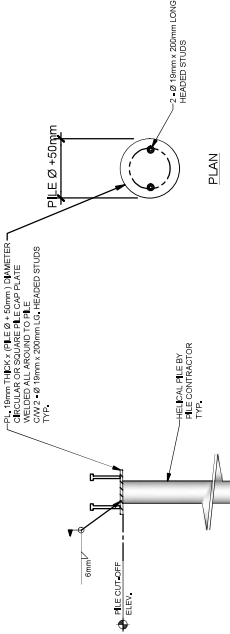
DATE

BY

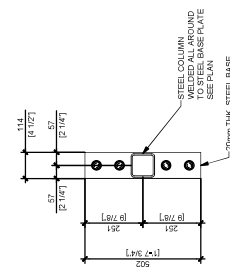
DATE

BY

DATE



DETAIL - PILE CAP PLATE
 SCALE 1:20



DETAIL - STEEL BASE PLATE (BP1)
 SCALE 1:10



**PRELIMINARY
 NOT FOR CONSTRUCTION**

**MELEWKA STRUCTURES &
 DESIGN**

KUMLIN SULLIVAN
 ARCHITECTURE PLANOLOG LTD.
 10010 104 Street, Edmonton, Alberta T5C 1K8
 Phone: (780) 443-2828
 Fax: (780) 443-2829
 Email: info@kumlinsullivan.com
 Website: www.kumlinsullivan.com

PROJECT:
 METS NATION OF AB
 COMMUNITY RECOVERY
 CENTER
 SMOKY LAKE ALBERTA

**DRAWING
 DETAILS**

TITLE
 DRAWING NO.
 PROJECT NO.
 SCALE
 DATE
 DRAWN BY:
 CHECKED BY:

CLIENT

REVISIONS

DATE

BY

DATE

BY

DATE

BY

DATE

S4.1

A

NOTES:
 1. The drawings are to be read in conjunction with the contract documents.
 2. The drawings are to be read in conjunction with the contract documents.
 3. The drawings are to be read in conjunction with the contract documents.
 4. The drawings are to be read in conjunction with the contract documents.
 5. The drawings are to be read in conjunction with the contract documents.
 6. The drawings are to be read in conjunction with the contract documents.
 7. The drawings are to be read in conjunction with the contract documents.
 8. The drawings are to be read in conjunction with the contract documents.
 9. The drawings are to be read in conjunction with the contract documents.
 10. The drawings are to be read in conjunction with the contract documents.

CONSULTANTS:
 ARCHITECT: [Name]
 STRUCTURAL ENGINEER: [Name]
 MECHANICAL ENGINEER: [Name]
 ELECTRICAL ENGINEER: [Name]

**PRELIMINARY
NOT FOR CONSTRUCTION**



NO.	REVISION	DATE
1	ISSUED FOR CLIENT REVIEW	2024-02-24
2	ISSUED FOR CLIENT REVIEW	2024-02-24

CLIENT
 MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN
 ARCHITECTURE INC.

PROJECT:
 METS NATION OF AB
 COMMUNITY RECOVERY
 CENTER
 SMOKEY LAKE ALBERTA

DRAWING SECTIONS

TITLE	DRAWING
SECTION 1	SECTION 2

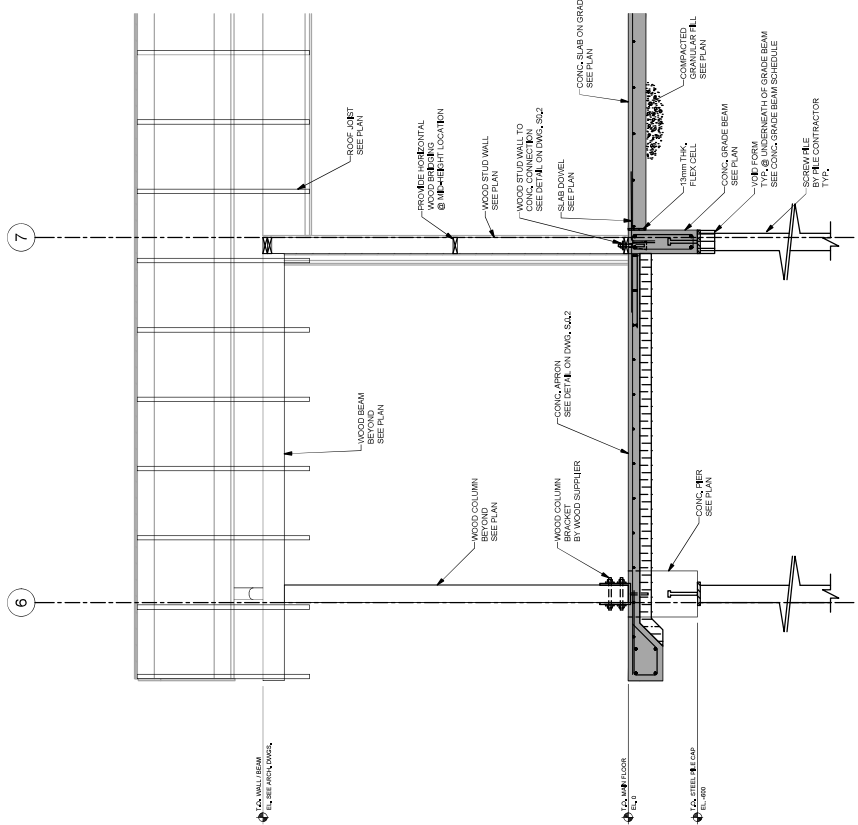
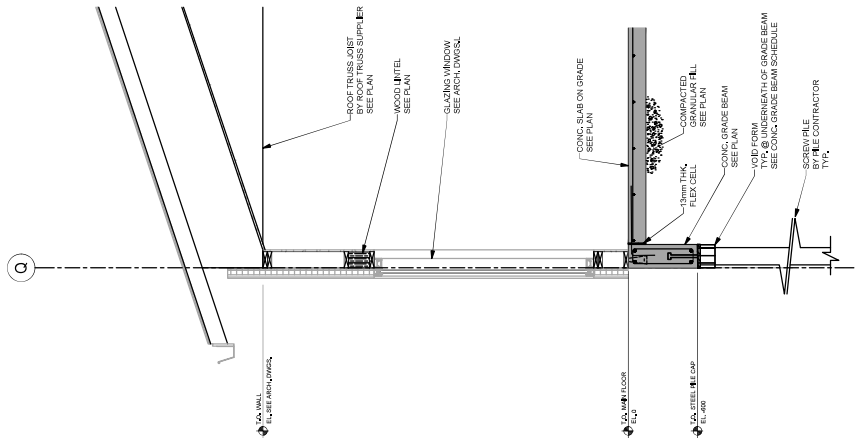
SCALE
 1/4" = 1'-0"

DATE
 2024-02-24

DRAWN BY:
 [Name]

DRAWING NO.:
 S5.1

REV. NO.:
 A



NOTES:
1. This drawing is to be read in conjunction with the other drawings of this project.
2. All dimensions are in imperial units unless otherwise specified.
3. All framing is to be installed in accordance with the relevant building code.
4. All framing is to be installed in accordance with the relevant building code.
5. All framing is to be installed in accordance with the relevant building code.
6. All framing is to be installed in accordance with the relevant building code.

CONSULTANT/ITEMS

PRELIMINARY
NOT FOR CONSTRUCTION



REVISION	DESCRIPTION

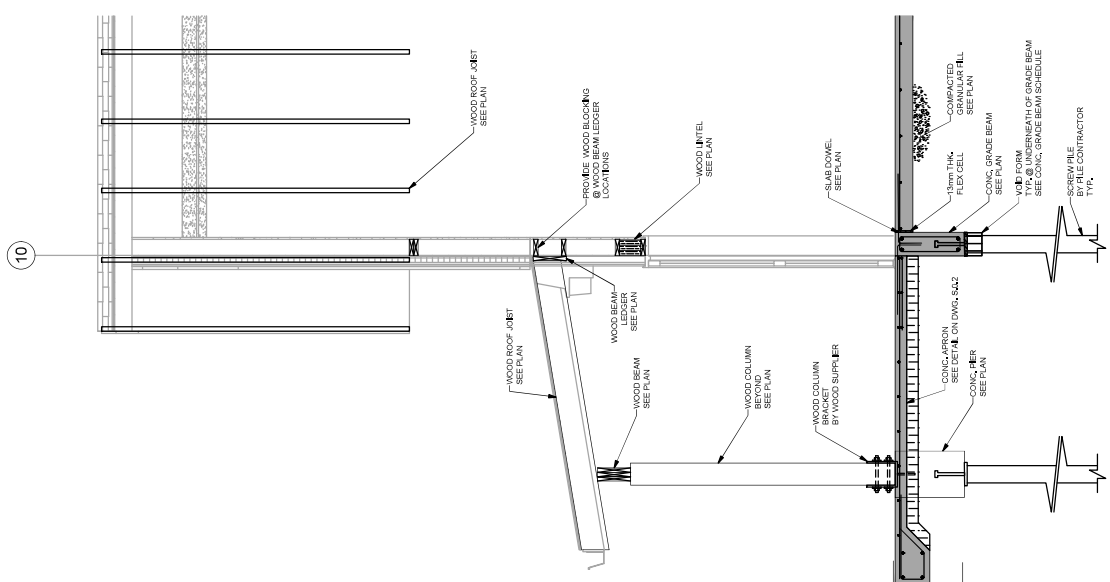
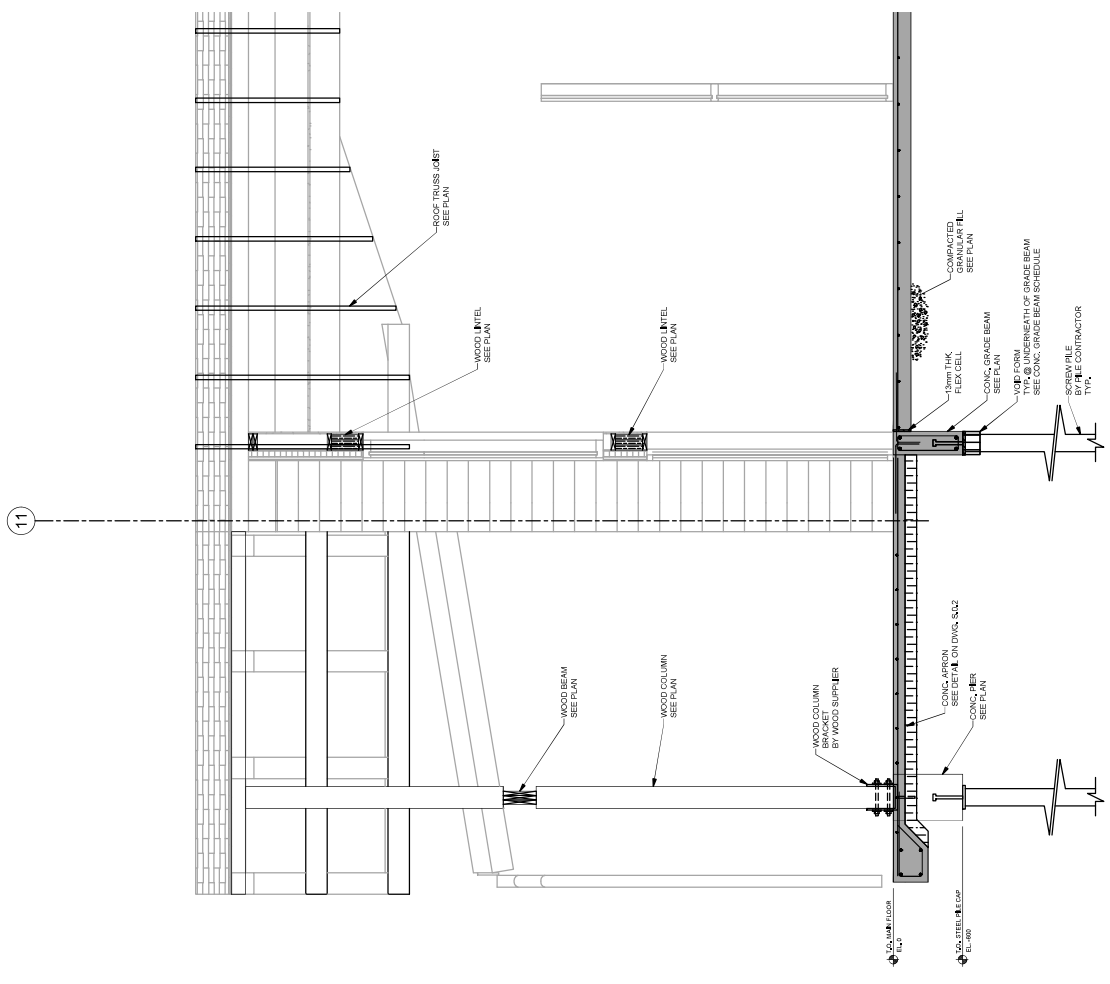
MELEWKA STRUCTURES & DESIGN

KUMULIN SULLIVAN
STRUCTURAL | MECHANICAL | ELECTRICAL | CIVIL CONSULTING
1000 10th Ave SW, Calgary, Alberta T2K 3Z5
Phone: (403) 270-5737

**METS NATION OF AB
COMMUNITY RECOVERY
CENTER**
SMOXY LAKE ALBERTA

SECTIONS



FILE	
PROJECT NO.	TSG 240302
SCALE	1/4" = 1'-0"
DATE	2024-06-14
DRAWN BY:	JSM/JAM
CHECKED BY:	JSM/JAM
DRAWING NO.	S512
REV. NO.	A



SECTION 4
SCALE
REF.?

SECTION 3
SCALE
REF.?



To:	Lewis Semashkewich	From:	Nathaniel Gomez, E.I.T.
Office:	Melewka Structures & Designs	Pages:	2 (including this page)
Email:		Date:	May 29, 2024
File # :	1-24462	Cc:	

Project: Recovery Center – Lot 15, Range Road 174A, Smoky Lake, AB

PRELIMINARY FINDINGS AND FOUNDATION RECOMMENDATIONS

Twelve test holes were advanced for this development to depths ranging from 2.3m to 14.95m below grade. The general stratigraphy encountered at the test hole locations comprised surficial topsoil underlain by native silt/sand followed by a variable glacial till deposit comprising silt, sand and clay till. Draft test hole logs and a site plan are attached.

Surficial topsoil was encountered at each test hole location and extended to depths ranging from 150mm to 275mm. Trace amounts of topsoil were noted in the upper portion of the native deposit up to 600mm below grade. The silt was generally soft to stiff and moist to wet. The sand was generally loose to compact and moist to saturated. The clay till was generally stiff to very stiff and moist.

Groundwater and slough accumulation was recorded upon completion of drilling at each test hole location to depths up to 2.0m and 2.1m, respectively. Water seepage was noted during drilling starting from depths as shallow as 900mm below grade.

The depths indicate below are referenced to site grades as existed at the time of the geotechnical drilling. Appropriate adjustments must be made to the depths with consideration to any difference between the referenced grades and final grades.

The following preliminary foundation options are considered feasible to support proposed development:

Table 1: Shallow Footings

Footing Type	Factored ULS Base Resistance	SLS Bearing Pressure
Strip	75 kPa	50 kPa
Square	90 kPa	60 kPa

- ULS based on Geotechnical Resistance Factor (Φ) of 0.5
- Must be founded on native inorganic soil, not on fill/topsoil

- Minimum depth of cover of 1.5m required for perimeter footings in heated structures
- Use of a mud slab will be required to protect the subgrade

Table 2: Cast-In-Place Concrete Friction Piles

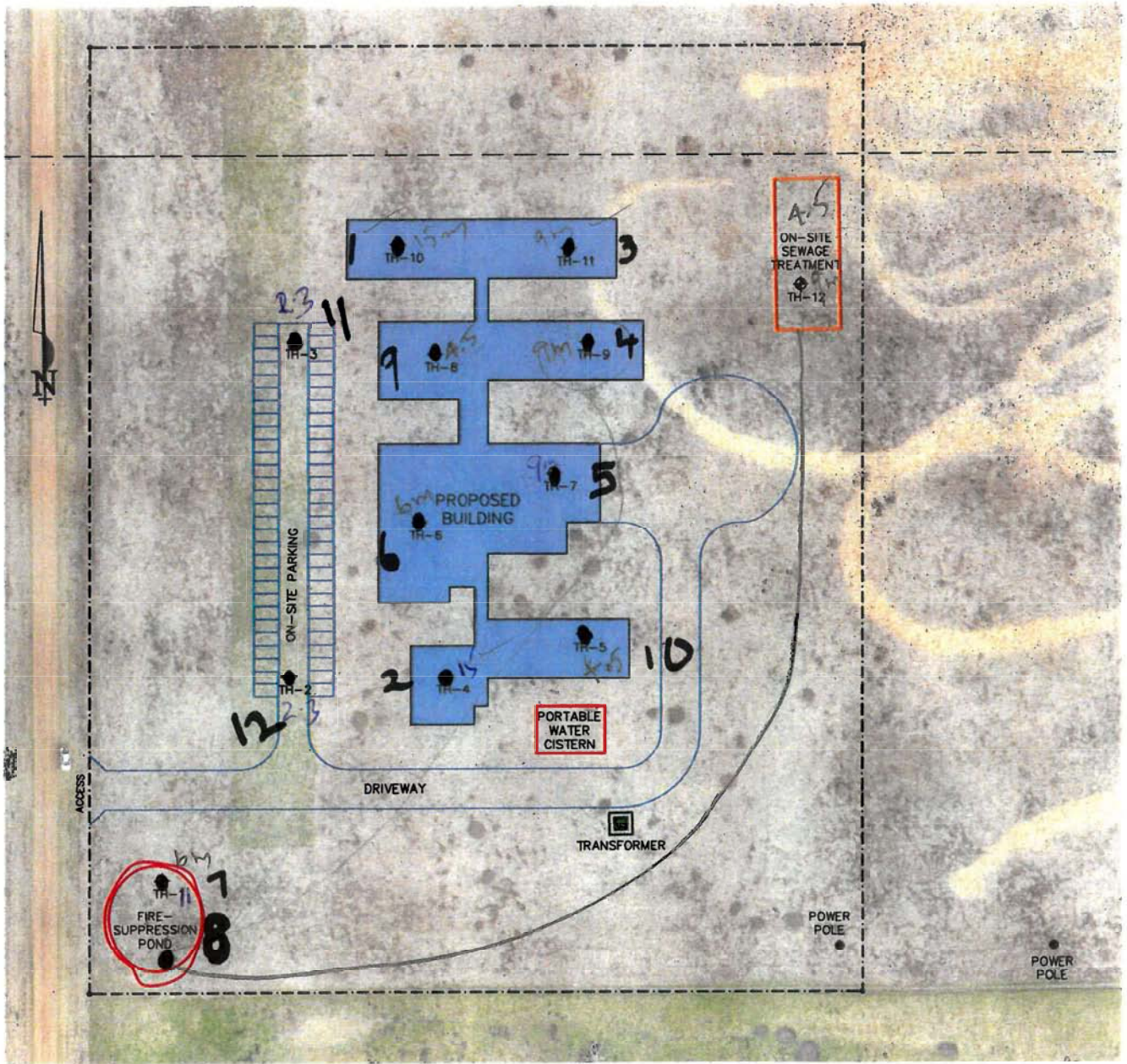
Depth Below Existing Grade (m)	Factored ULS Skin Friction (kPa)
0.0 to 1.5	0
1.5 to 3.0	18
3.0 to 9.0	20
9.0 to 15.0	23
Below 15.0	25

- ULS based on Geotechnical Resistance Factor (Φ) of 0.4
- Minimum pile length of 6.0m; Minimum pile diameter of 400mm
- Casing should be available and used to control seepage and sloughing
- If long piles are needed, consideration could be given to the use of CFA piles. The design of CFA piles installed to depths below 9.0m from existing grade can also utilize a factored ULS base resistance value of 450kPa, used in combination with skin friction

The information provided above is preliminary, and subject to revision in whole or in part upon completion of laboratory testing.




Nathaniel Gomez, E.I.T.




RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-01		
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/23/24		PROJECT NO.: 1-24462		
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:		
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> HOLLOW STEM	<input type="checkbox"/> CORE
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

Depth (m)	POCKET PEN (kPa)		SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)		
	100	200									300	400
	STANDARD PENETRATION (N)											
	20	40	60	80								
	PLASTIC		M.C.	LIQUID								
	20	40	60	80								

1						TOPSOIL: To 250mm.	OR			
2						SILT: Sandy, firm, low plastic, moist, light brown, trace oxides to 600mm.	ML			
3					8	SAND: Silty, fine grained, moist, brown, trace oxides to 1.1m.	SM			
4						-trace gravel, clay till lumps from 900mm.				
5						CLAY TILL: Silty, sandy, stiff to very stiff, medium plastic, moist, brown, trace gravel, oxides to 6.9m.				
6					10	-trace coal from 2.4m.				
7						-trace sand pockets from 3.0m.				
8										
9					36	-brown and dark grey from 3.8m.	TILL		Water seepage from 4.0m.	
10						-150mm thick saturated sand layer at 4.0m.				
11						-dark grey from 4.0m.				
12						-trace silt pockets from 4.6m.				
13						-150mm thick silt layer, sandy, low plastic, moist, dark grey, trace oxides, clay lumps at 5.3m.				
14						-stiff, trace sand lenses from 5.5m.				
15					9	SAND: Silty, fine grained, saturated, dark grey, trace clay lumps to 11.3m.				
16						-loose from 7.0m.			Poor sample recovery from auger at 7.5m.	
17										
18					13	-compact, trace oxides from 8.5m.			Poor sample recovery from auger at 8.3m.	
19							SM			
20										

	#172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1	LOGGED BY: MD	COMPLETION DEPTH: 14.95 m
		REVIEWED BY: SD	COMPLETION DATE: 5/23/24
		FIGURE NO.: 3	Page 1 of 2

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-01					
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/23/24		PROJECT NO.: 1-24462					
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:					
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> HOLLOW STEM	<input type="checkbox"/> CORE			
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND			
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa) <input type="checkbox"/>	SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	100 200 300 400								
11.0		<input checked="" type="checkbox"/>	21	18	-trace silt pockets from 10.5m.				
12.0		<input checked="" type="checkbox"/>	23		CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, dark grey, trace gravel, oxides to 12.0m.	TILL		Standpipe installed to 12.2m due to sloughing.	
12.0		<input checked="" type="checkbox"/>	24	22					
12.0		<input checked="" type="checkbox"/>	25		SAND: Silty, fine to medium grained, saturated, dark grey from 12.0m.				
13.0		<input checked="" type="checkbox"/>	26						
13.0		<input checked="" type="checkbox"/>	27	31	-medium to coarse grained, trace gravel from 13.1m.	SM			
14.0		<input checked="" type="checkbox"/>	28		-trace clay lumps from 13.7m.				
15.0		<input checked="" type="checkbox"/>	29						
15.0		<input checked="" type="checkbox"/>	30	26	CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, dark grey, trace gravel, sand pockets to 14.95m.	TILL			
DEPTH OF TEST HOLE 14.95 METRES WATER AT 2.3 METRES UPON COMPLETION SLOUGH TO 6.7 METRES UPON COMPLETION STANDPIPE INSTALLED									
		#172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1			LOGGED BY: MD REVIEWED BY: SD FIGURE NO.: 3		COMPLETION DEPTH: 14.95 m COMPLETION DATE: 5/23/24		
Page 2 of 2									


RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-02					
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/23/24		PROJECT NO.: 1-24462					
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:					
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> HOLLOW STEM	<input type="checkbox"/> CORE			
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND			
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa)	SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	100 200 300 400 ▲ STANDARD PENETRATION (N) ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80								
1.0			1		TOPSOIL: To 275mm.	OR		Water seepage from 1.8m.	
			2		SILT: Sandy, soft to firm, low plastic, moist, light grey, trace oxides, white deposits, rootlets to 600mm.	ML			
			3	10	SAND: Silty, fine grained, moist, trace oxides to 1.4m.	SM			
			4		-loose to compact from 900mm.				
2.0			5		CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, dark grey, some sand, trace gravel, oxides, white deposits to 2.1m.	TILL			
			6	22	SAND: Fine to medium grained, saturated, brown, trace oxides to 5.2m.				
			7		-compact, some clay lumps, trace white deposits from 2.4m.				
3.0			8						
			9	20	-dark brown and grey from 3.8m.	SA			
4.0			10						
5.0			11						
			12	10	CLAY TILL: Silty, sandy, stiff, medium plastic, moist, dark grey, trace gravel, oxides to 14.5m.				
6.0			13						
			14						
7.0			15	15					
			16						
8.0			17						
			18	18					
9.0			19						
			20			TILL			



#172, 2693 BROADMOOR BLVD.
SHERWOOD PARK, AB
T8H 0G1

LOGGED BY: MD
REVIEWED BY: SD
FIGURE NO.: 4

COMPLETION DEPTH: 14.50 m
COMPLETION DATE: 5/23/24

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-02						
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/23/24		PROJECT NO.: 1-24462						
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:						
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPT						
		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> HOLLOW STEM						
<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL		<input type="checkbox"/> SLOUGH						
		<input type="checkbox"/> GROUT		<input type="checkbox"/> DRILL CUTTINGS						
		<input type="checkbox"/> SAND								
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa) <input type="checkbox"/> 100 200 300 400		SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	<input checked="" type="checkbox"/> STANDARD PENETRATION (N) <input checked="" type="checkbox"/> 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80									
11.0			<input checked="" type="checkbox"/>	21	18				No SPTs after 10.35m due to sloughing.	
12.0			<input checked="" type="checkbox"/>	22						
13.0			<input checked="" type="checkbox"/>	23						
14.0			<input checked="" type="checkbox"/>	24						
15.0			<input checked="" type="checkbox"/>	25						
16.0			<input checked="" type="checkbox"/>	26						
17.0			<input checked="" type="checkbox"/>	27						
DEPTH OF TEST HOLE 14.5 METRES WATER AT 2.0 METRES UPON COMPLETION SLOUGH TO 2.1 METRES UPON COMPLETION BACKFILLED										
 #172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1						LOGGED BY: MD REVIEWED BY: SD FIGURE NO.: 4		COMPLETION DEPTH: 14.50 m COMPLETION DATE: 5/23/24		

DRAFT

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-03					
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/23/24		PROJECT NO.: 1-24462					
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:					
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPT		<input type="checkbox"/> NO RECOVERY <input type="checkbox"/> HOLLOW STEM <input type="checkbox"/> CORE					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa) <input type="checkbox"/> 100 200 300 400 <input checked="" type="checkbox"/> STANDARD PENETRATION (N) <input checked="" type="checkbox"/> 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80		SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
1.0			1		TOPSOIL: To 250mm.	OR			
			2		SAND: Silty, fine grained, moist, dark brown, trace oxides, clay lumps, rootlets to 600mm.	SA			
			3		CLAY: Silty, some white deposits, firm, medium plastic, brown, trace oxides, coal to 1.2m.	CI		SPT bouncing on rock.	
2.0			4		CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, dark brown, trace gravel, oxides, coal, sand pockets to 5.9m.				
			5		-trace silt pockets from 2.2m			Water seepage from 2.3m.	
			6	28	-trace ironstones from 2.3m.				
3.0			7		-dark grey from 3.0m.				
			8			TILL			
4.0			9	15					
			10		-trace white deposits from 4.6m.				
5.0			11						
			12	20					
6.0			13		SAND: Silty, fine grained, saturated, dark grey, trace clay lumps to 7.2m.				
			14			SA			
7.0			15	11					
			16		CLAY TILL: Silty, sandy, stiff, medium plastic, moist, dark grey, trace gravel to 8.85m.				
8.0			17		-trace sand pockets from 7.6m.				
			18	11		TILL			
9.0					DEPTH OF TEST HOLE 8.85 METRES WATER AT 4.4 METRES UPON COMPLETION SLOUGH TO 4.6 METRES UPON COMPLETION BACKFILLED				
		#172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1			LOGGED BY: MD REVIEWED BY: SD FIGURE NO.: 5		COMPLETION DEPTH: 8.85 m COMPLETION DATE: 5/23/24 Page 1 of 1		

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-04					
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/27/24		PROJECT NO.: 1-24462					
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:					
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> HOLLOW STEM	<input type="checkbox"/> CORE			
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND			
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa)	SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	100 200 300 400								
1.0					TOPSOIL: To 150mm.	OR			
2.0				14	SAND: Silty, fine grained, moist, brown, trace oxides to 2.9m. -trace clay lumps from 650mm. -compact from 800mm. -wet from 1.5m.	SA			
3.0				14	-saturated, trace gravel from 2.3m.				
4.0				16	CLAY TILL: Silty, sandy, stiff, medium plastic, moist, dark grey, trace gravel, oxides, sand pockets to 3.8m.	TILL			
5.0				34	SILT: Low plastic, wet, dark grey, trace sand, clay lumps to 6.7m.	ML			
6.0								No SPTs after 5.8m due to sloughing.	
7.0					CLAY TILL: Silty, sandy, very stiff, medium plastic, dark grey, trace gravel, silt lenses to 8.85m.	TILL			
8.0									
9.0					DEPTH OF TEST HOLE 8.4 METRES DRY UPON COMPLETION SLOUGH TO 2.1 METRES UPON COMPLETION BACKFILLED				



#172, 2693 BROADMOOR BLVD.
SHERWOOD PARK, AB
T8H 0G1

LOGGED BY: MD
REVIEWED BY: SD
FIGURE NO.: 6

COMPLETION DEPTH: 8.40 m
COMPLETION DATE: 5/27/24

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-05					
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/27/24		PROJECT NO.: 1-24462					
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:					
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> HOLLOW STEM	<input type="checkbox"/> CORE			
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND			
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa)	SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	100 200 300 400								
0.0					TOPSOIL: To 200mm.	OR			
0.5					SAND: Silty, fine grained, moist, dark brown, trace topsoil, rootlets to 600mm.	SA			
1.0				16	SILT: Low plastic, light brown, some clay, trace oxides, rootlets to 900mm.	ML			
1.5					SAND: Silty, fine grained, moist, brown, trace oxides, day lumps to 1.4m.	SA			
2.0					CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, dark grey, trace gravel, oxides, sand pockets to 4.0m.	TILL			
2.5				11	-trace ironstones from 2.3m.				
3.0									
4.0				19	SAND: Silty, fine grained, compact, saturated, brown, trace oxides to 5.5m.	SA			
4.5					-trace clay lumps from 4.6m.				
5.0									
6.0				7	CLAY TILL: Silty, sandy, stiff, medium plastic, moist, dark grey, trace gravel, sand lenses to 8.85m.	TILL			
6.5									
7.0				14	-very stiff from 6.9m				
8.0									
8.5				22					
9.0					DEPTH OF TEST HOLE 8.85 METRES WATER AT 6.4 METRES UPON COMPLETION SLOUGH TO 7.3 METRES UPON COMPLETION STANDPIPE INSTALLED				
								Water seepage from 3.2m.	




#172, 2693 BROADMOOR BLVD.
SHERWOOD PARK, AB
T8H 0G1


LOGGED BY: MD
REVIEWED BY: SD
FIGURE NO.: 7

COMPLETION DEPTH: 8.85 m
COMPLETION DATE: 5/27/24

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-06						
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/27/24		PROJECT NO.: 1-24462						
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:						
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input checked="" type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPT						
<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> HOLLOW STEM		<input type="checkbox"/> CORE						
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL		<input type="checkbox"/> SLOUGH						
<input type="checkbox"/> GROUT		<input checked="" type="checkbox"/> DRILL CUTTINGS		<input type="checkbox"/> SAND						
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa) <input type="checkbox"/> 100 200 300 400		SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	▲ STANDARD PENETRATION (N) ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80									
1.0			<input checked="" type="checkbox"/>	1		TOPSOIL: To 150mm.	OR			
			<input checked="" type="checkbox"/>	2		SAND: Fine to medium grained, moist, brown, trace gravel, oxides, rootlets, clay lumps to 600mm.	SA			
			<input checked="" type="checkbox"/>	3	5	CLAY TILL: Silty, sandy, firm, medium plastic, moist, brown, trace gravel, oxides, white deposits to 3.4m. -trace coal specks from 900mm.	TILL			
2.0			<input checked="" type="checkbox"/>	4						
			<input checked="" type="checkbox"/>	5						
			<input checked="" type="checkbox"/>	6	11					
3.0			<input checked="" type="checkbox"/>	7		-and sand, saturated from 3.0m.				
			<input checked="" type="checkbox"/>	8		SAND: Silty, fine grained, saturated, brown, trace oxides to 4.4m.	SA			
4.0			<input checked="" type="checkbox"/>	9	26					
			<input checked="" type="checkbox"/>	10		SILT: Non-plastic to low plastic, moist, dark grey, trace sand lenses to 5.2m.	NP-ML			
5.0			<input checked="" type="checkbox"/>	11						
			<input checked="" type="checkbox"/>	12	15	SAND: Silty, fine grained, saturated, brown, trace clay lumps to 5.8m.	SA			
6.0						DEPTH OF TEST HOLE 5.8 METRES WATER AT 2.4 METRES UPON COMPLETION SLOUGH TO 4.0 METRES UPON COMPLETION BACKFILLED				
7.0										
8.0										
9.0										
		#172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1				LOGGED BY: MD REVIEWED BY: SD FIGURE NO.: 8		COMPLETION DEPTH: 5.80 m COMPLETION DATE: 5/27/24 Page 1 of 1		

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-07					
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/27/24		PROJECT NO.: 1-24462					
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:					
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPT		<input type="checkbox"/> NO RECOVERY <input type="checkbox"/> HOLLOW STEM <input type="checkbox"/> CORE					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT <input checked="" type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND					
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa) <input type="checkbox"/>	SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	100 200 300 400								
1.0			1		TOPSOIL: To 150mm.	OR		Water seepage from 900mm.	
			2		SAND: Medium to coarse grained, moist, brown, trace gravel, oxides, rootlets to 600mm.	SA			
			3	7	CLAY TILL: Silty, sandy, stiff, medium plastic, moist, brown, trace gravel, oxides, white deposits, sand pockets to 800mm.	TILL			
			4		SAND: Silty, loose, fine grained, moist, brown, trace oxides to 1.4m.	SA			
2.0			5		CLAY TILL: Silty, sandy, stiff, medium plastic, moist, brown, trace gravel, oxides, coal, sand pockets to 5.8m				
			6	8					
			7						
3.0			8						
			9	24	-very stiff from 4.0m.	TILL			
4.0			10						
			11						
5.0			12	15	-stiff to very stiff from 5.5m.				
6.0					DEPTH OF TEST HOLE 5.8 METRES WATER AT 4.6 METRES UPON COMPLETION NO SLOUGH UPON COMPLETION BACKFILLED				
7.0									
8.0									
9.0									
		#172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1		LOGGED BY: MD REVIEWED BY: SD FIGURE NO.: 9		COMPLETION DEPTH: 5.80 m COMPLETION DATE: 5/27/24		Page 1 of 1	

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-08						
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/27/24		PROJECT NO.: 1-24462						
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:						
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input checked="" type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPT						
<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> HOLLOW STEM		<input type="checkbox"/> CORE						
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL		<input type="checkbox"/> SLOUGH						
<input type="checkbox"/> GROUT		<input type="checkbox"/> DRILL CUTTINGS		<input type="checkbox"/> SAND						
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa) <input type="checkbox"/> 100 200 300 400		SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	<input checked="" type="checkbox"/> STANDARD PENETRATION (N) <input checked="" type="checkbox"/> 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80									
1.0			<input checked="" type="checkbox"/>	1	12	TOPSOIL: To 250mm. CLAY: Silty, soft, low plastic, moist, dark grey, trace oxides, topsoil, rootlets to 600mm.	OR		Water seepage from 1.8m.	
1.5			<input checked="" type="checkbox"/>	2			CL			
2.0			<input checked="" type="checkbox"/>	3	14	SILT: Soft to firm, low plastic, moist, light grey, trace oxides, white deposits, topsoil to 1.4m. -trace gravel, sand pockets from 900mm.	ML			
2.5			<input checked="" type="checkbox"/>	4						
3.0			<input checked="" type="checkbox"/>	5		CLAY TILL: Silty, firm to stiff, medium plastic, moist, brown, some sand, trace gravel, oxides, sand pockets to 2.6m. -trace coal from 1.8m.	TILL			
3.5			<input checked="" type="checkbox"/>	6	14					
4.0			<input checked="" type="checkbox"/>	7		SAND: Compact, medium to coarse grained, saturated, brown, trace gravel, oxides to 2.9m. SILT: Non-plastic to low plastic, wet, dark grey to 4.0m.	SA			
4.5			<input checked="" type="checkbox"/>	8			NP-ML			
5.0			<input checked="" type="checkbox"/>	9	46	CLAY TILL: Silty, sandy, hard, medium plastic, moist, dark grey, trace gravel, oxides to 4.3m. DEPTH OF TEST HOLE 4.3 METRES WATER AT 3.0 METRES UPON COMPLETION SLOUGH TO 3.7 METRES UPON COMPLETION STANDPIPE INSTALLED	TILL			
		#172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1		LOGGED BY: MD REVIEWED BY: SD FIGURE NO.: 10		COMPLETION DEPTH: 4.25 m COMPLETION DATE: 5/27/24 Page 1 of 1				

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-09				
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/27/24		PROJECT NO.: 1-24462				
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:				
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input checked="" type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> HOLLOW STEM	<input type="checkbox"/> CORE		
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND		
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	100 200 300 400 ▲ STANDARD PENETRATION (N) ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80							
1.0			1	TOPSOIL: To 250mm.	OR			
			2	SAND: Silty, fine grained, moist, brown, trace gravel, oxides, topsoil, rootlets to 600mm.	SM			
			3	SILT: And sand, low plastic, moist, brown, trace gravel, oxides, white deposits to 900mm.	ML			
2.0			4	CLAY TILL: Silty, sandy, firm, medium plastic, moist, dark grey, trace gravel, oxides to 4.3m. -trace coal from 1.5m.				
			5					
			6	-trace ironstones from 2.3m.	TILL			
3.0			7	-some sand pockets from 2.9m.			Water seepage from 3.0m.	
4.0			8					
			9					
5.0				DEPTH OF TEST HOLE 4.3 METRES WATER AT 3.2 METRES UPON COMPLETION SLOUGH TO 3.7 METRES UPON COMPLETION BACKFILLED				
6.0								
7.0								
8.0								
9.0								
		#172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1		LOGGED BY: MD REVIEWED BY: SD FIGURE NO.: 11		COMPLETION DEPTH: 4.25 m COMPLETION DATE: 5/27/24		Page 1 of 1

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-10					
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/27/24		PROJECT NO.: 1-24462					
PROJECT ENGINEER: VG		SOLID STEM AUGERS AND SPTS		ELEVATION.:					
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input checked="" type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> HOLLOW STEM	<input type="checkbox"/> CORE			
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND			
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa)	SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	100 200 300 400								
1.0		<input checked="" type="checkbox"/>	1		TOPSOIL: To 250mm.	OR			
		<input checked="" type="checkbox"/>	2		SILT: Low plastic, moist, black, some topsoil, trace rootlets, sand to 600mm.	ML			
		<input checked="" type="checkbox"/>	3	8	SAND: Silty, fine grained, moist, brown, trace oxides, silt pockets to 1.4m. -loose, trace gravel from 900mm.	SA			
2.0		<input checked="" type="checkbox"/>	4		CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, dark brown, trace gravel, oxides, sand lenses to 3.4m.				
		<input checked="" type="checkbox"/>	5						
		<input checked="" type="checkbox"/>	6	11	-stiff, trace ironstones from 2.3m.	TILL			
3.0		<input checked="" type="checkbox"/>	7						
		<input checked="" type="checkbox"/>	8		SILT: Low plastic, moist, dark brown, trace gravel, oxides, clay lumps to 3.8m.	ML			
4.0		<input checked="" type="checkbox"/>	9	17	CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, dark grey, trace gravel, oxides to 4.3m.	TILL			
					DEPTH OF TEST HOLE 4.3 METRES DRY UPON COMPLETION NO SLOUGH UPON COMPLETION BACKFILLED				
5.0									
6.0									
7.0									
8.0									
9.0									
		#172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1		LOGGED BY: MD REVIEWED BY: SD FIGURE NO.: 12		COMPLETION DEPTH: 4.25 m COMPLETION DATE: 5/27/24 Page 1 of 1			

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-11					
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/23/24		PROJECT NO.: 1-24462					
PROJECT ENGINEER: VG		SOLID STEM AUGERS		ELEVATION.:					
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input checked="" type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPT					
		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> HOLLOW STEM					
<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL		<input type="checkbox"/> SLOUGH					
		<input type="checkbox"/> GROUT		<input type="checkbox"/> DRILL CUTTINGS					
		<input type="checkbox"/> SAND							
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa) <input type="checkbox"/> 100 200 300 400		SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	<input checked="" type="checkbox"/> STANDARD PENETRATION (N) <input checked="" type="checkbox"/> 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80								
1.0				1	TOPSOIL: To 200mm.	OR			
1.5				2	CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, trace gravel, oxides, sand lenses, white deposits to 2.3m. -trace coal specks from 800mm.	TILL			
2.0			3						
2.5			4						
3.0									
3.0					DEPTH OF TEST HOLE 2.3 METRES DRY UPON COMPLETION NO SLOUGH UPON COMPLETION BACKFILLED				
		#172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1			LOGGED BY: MD REVIEWED BY: SD FIGURE NO.: 13		COMPLETION DEPTH: 2.30 m COMPLETION DATE: 5/23/24 Page 1 of 1		

RECOVERY CENTRE		MELEWKA STRUCTURES & DESIGNS		TEST HOLE NO.: TH-12						
LOT 15 RR 174A SMOKY LAKE, AB		START DATE: 5/23/24		PROJECT NO.: 1-24462						
PROJECT ENGINEER: VG		SOLID STEM AUGERS		ELEVATION.:						
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input checked="" type="checkbox"/> SHELBY TUBE		<input checked="" type="checkbox"/> SPT						
<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> HOLLOW STEM		<input type="checkbox"/> CORE						
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> PEA GRAVEL		<input type="checkbox"/> SLOUGH						
<input type="checkbox"/> GROUT		<input checked="" type="checkbox"/> DRILL CUTTINGS		<input type="checkbox"/> SAND						
Depth (m)	<input type="checkbox"/> POCKET PEN (kPa) <input type="checkbox"/> 100 200 300 400		SAMPLE TYPE	SAMPLE NO.	SPT (N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	Elevation (m)
	▲ STANDARD PENETRATION (N) ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80									
0.0				1		TOPSOIL: To 200mm.	OR			
0.5				2		CLAY TILL: Silty, sandy, stiff, medium plastic, moist, brown, trace gravel, oxides, white deposits, sand lenses to 600mm.	TILL			
1.0				3		CLAY: Silty, firm, medium plastic, brown, trace gravel, oxides, white deposits, sand lenses to 900mm.	TILL			
1.5				4		CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, dark grey, trace gravel, oxides, sand pockets to 2.1m.	SA			
2.0						SAND: Silty, fine grained, saturated, grey, trace oxides, clay lumps to 2.3m.				
2.3						DEPTH OF TEST HOLE 2.3 METRES DRY UPON COMPLETION NO SLOUGH UPON COMPLETION BACKFILLED				
3.0										
4.0										
5.0										
6.0										
7.0										
8.0										
9.0										
		#172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1				LOGGED BY: MD REVIEWED BY: SD FIGURE NO.: 14		COMPLETION DEPTH: 2.30 m COMPLETION DATE: 5/23/24 Page 1 of 1		

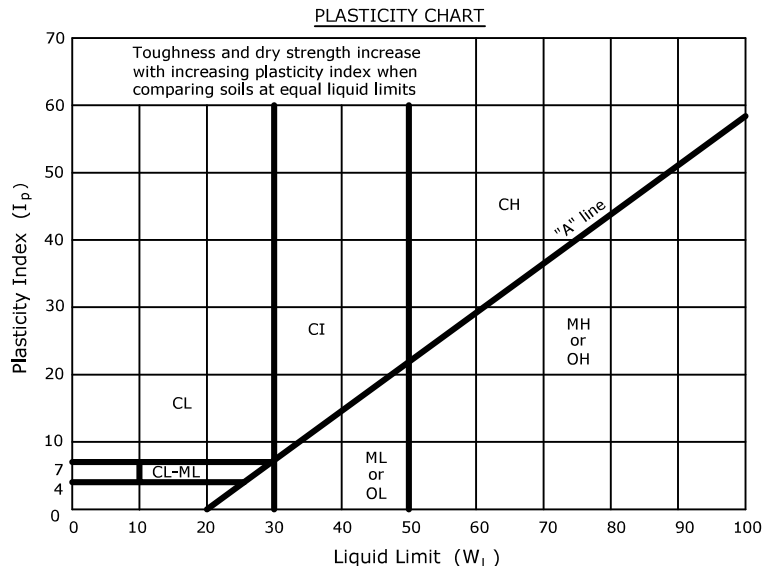
SOIL CLASSIFICATION SYSTEM (MODIFIED U.S.C.)

MAJOR DIVISION		GROUP SYMBOL	GRAPHIC SYMBOL	GROUP NAME	LABORATORY CLASSIFICATION CRITERIA
HIGHLY ORGANIC SOILS		PT		PEAT AND OTHER HIGHLY ORGANIC SOILS	STRONG COLOR OR ODOR, AND OFTEN FIBROUS TEXTURE
COARSE-GRAINED SOILS MORE THAN 50% RETAINED ON NO.200 SIEVE	GRAVELS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO.4 SIEVE	GW		WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, < 5% FINES	$Cu = \frac{D_{60}}{D_{10}} > 4$ $1 \leq Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}} \leq 3$
		GP		POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, < 5% FINES	NOT MEETING ALL ABOVE REQUIREMENTS
		GM		SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES, > 12% FINES	ATTERBERG LIMITS BELOW "A" LINE OR $I_p < 4$
		GC		CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES, > 12% FINES	ATTERBERG LIMITS ABOVE "A" LINE OR $I_p > 7$
	SANDS MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE	SW		WELL-GRADED SANDS, GRAVELLY SANDS, < 5% FINES	$Cu > 6$ and $1 \leq Cc \leq 3$
		SP		POORLY-GRADED SANDS, OR GRAVELLY SANDS, < 5% FINES	NOT MEETING ALL ABOVE REQUIREMENTS
		SM		SILTY SANDS, SAND-SILT MIXTURES, > 12% FINES	ATTERBERG LIMITS BELOW "A" LINE OR $I_p < 4$
		SC		CLAYEY SANDS, SAND-CLAY MIXTURES, > 12% FINES	ATTERBERG LIMITS ABOVE "A" LINE OR $I_p > 7$
FINE-GRAINED SOILS MORE THAN 50% PASSES NO. 200 SIEVE	SILTS BELOW "A" LINE ON PLASTICITY CHART; NEGLECTIBLE ORGANIC CONTENT	ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY SANDS OF SLIGHT PLASTICITY	$W_L < 50$
	MH		INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS, FINE SANDY OR SILTY SOILS	$W_L > 50$	
	CLAYS ABOVE "A" LINE ON PLASTICITY CHART; NEGLECTIBLE ORGANIC CONTENT	CL		INORGANIC CLAYS OF LOW PLASTICITY, GRAVELLY, SANDY, OR SILTY CLAYS, LEAN CLAYS	$W_L < 30$
		CI		INORGANIC CLAYS OF MEDIUM PLASTICITY, SILTY CLAYS	$30 < W_L < 50$
		CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	$W_L > 50$
	ORGANIC SILTS AND ORGANIC CLAYS BELOW "A" LINE ON PLASTICITY CHART	OL		ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	$W_L < 50$
		OH		ORGANIC CLAYS OF HIGH PLASTICITY	$W_L > 50$

SEE PLASTICITY CHART BELOW

- All sieve sizes mentioned on this chart are U.S. Standard, ASTM E11
- Boundary classifications possessing characteristics of two groups are given combined group symbols. eg. GW-GC is a well-graded gravel-sand mixture with clay binder of between 5% and 12%.
- Soil fractions and limiting textural boundaries are in accordance with the Unified Soil Classification System (ASTM D2487), except that an inorganic clay of medium plasticity (CI) is recognized.
- The following adjectives may be employed to define percentage ranges by weight of minor components (per Canadian Foundation Engineering Manual, 1992):

And - 35% to 50%
 (y/ey) - 20% to 35%
 Some - 10% to 20%
 Trace - 1% to 10%



SOIL CLASSIFICATION CHART

29 July 2005
File: TRAFFIC IMPACT RECOMMENDATIONS.DOC
Project No.: EDT050055

Wing Choy
2nd fl Provincial Building
4709 – 44 Avenue
Stony Plain T7Z 1N4

Dear Wing,

**Re : Hwy 855 /Metis Crossing Intersection
Traffic Impact Assessment**

AMEC has been commissioned to conduct a Traffic Impact Assessment at the Hwy 855 / Victoria Trail Intersection where the Métis Crossing project is to be located.

Information contained in this assessment is based on existing mosaics, correspondence with Juanita Marois (Métis Crossing), along with measurements and observations obtained by AMEC Infrastructure Limited (AMEC) during a site inspection

An intersection design system (IDS) analysis was performed using the projected traffic volume given to us by Juanita Marois and traffic volume records obtained from AIT (Alberta Infrastructure and Transportation). Results indicate that the intersection requires Type 3b treatment. The analysis, photos, projected traffic volumes and a plan of a typical Type 3b treatment are attached for your records.

Issues:

- The distance from the north end of the bridge to the intersection is approximately 170m and is equal to the distance required to construct the southwest taper of the intersection. There appears to be no visible obstruction for the remaining three tapers.
- The existing 4 legged intersection is slightly offset with the west leg 4m further south than the right leg.
- Powerpoles on the north side of Victoria Trail appear to be within the existing road right of way.
- Existing guardrail adjacent to the highway extends north from the bridge abutment to the access road and around the flare.
- Site distance in both directions appears to be adequate.
- It assumes that there will be no development to the west of Hwy 855 and only local traffic will be using the west leg.
- Conceptual design provided by Métis Crossing showing development adjacent to Hwy 855 and Victoria Trail.



Recommendations:

- Type 3b intersection treatment.
- Have review meeting with AIT, Métis Crossing and Smoky Lake County.
- After agreement is reached, proceed to preliminary survey and design.
- Complete field survey and preliminary design for review with AIT, Métis Crossing and Smoky Lake County.

Please review and if you have any questions please do not hesitate to call me.

Regards,

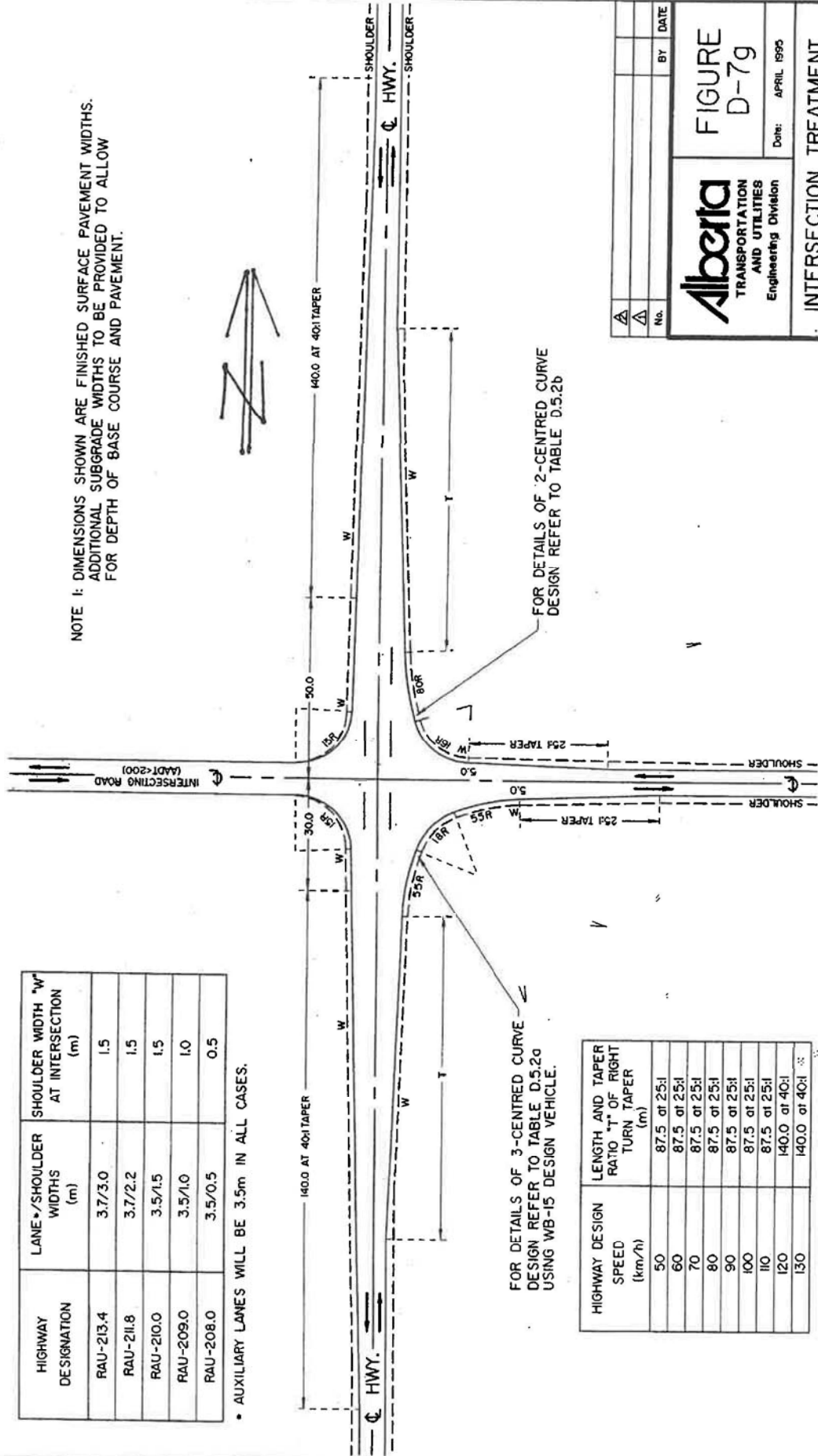
Adam Brown, EIT
Project Engineer

c: Gabe Rohr, AMEC Infrastructure Limited
Hal Cook, AMEC Infrastructure Limited
Juanita Marois, Métis Crossing
Cary Smigerowsky, Smoky Lake County

HIGHWAY DESIGNATION	LANE & SHOULDER WIDTHS (m)	SHOULDER WIDTH "W" AT INTERSECTION (m)
RAU-213.4	3.7/3.0	1.5
RAU-211.8	3.7/2.2	1.5
RAU-210.0	3.5/1.5	1.5
RAU-209.0	3.5/1.0	1.0
RAU-208.0	3.5/0.5	0.5

• AUXILIARY LANES WILL BE 3.5m IN ALL CASES.

NOTE 1: DIMENSIONS SHOWN ARE FINISHED SURFACE PAVEMENT WIDTHS. ADDITIONAL SUBGRADE WIDTHS TO BE PROVIDED TO ALLOW FOR DEPTH OF BASE COURSE AND PAVEMENT.



FOR DETAILS OF 3-CENTRED CURVE DESIGN REFER TO TABLE D.5.2a USING WB-15 DESIGN VEHICLE.

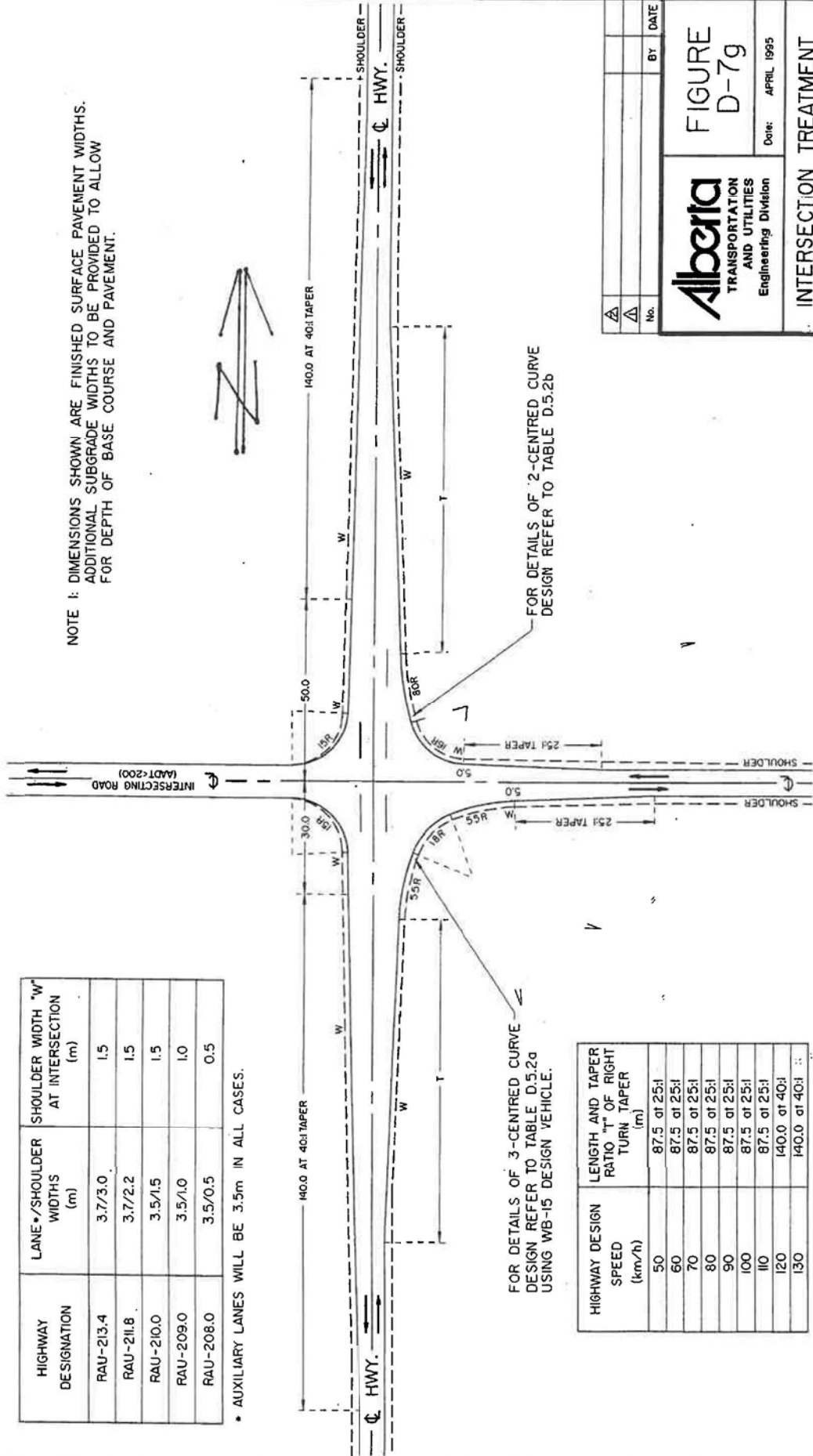
HIGHWAY DESIGN SPEED (km/h)	LENGTH AND TAPER RATIO "T" OF RIGHT TURN TAPER (m)
50	87.5 at 25:1
60	87.5 at 25:1
70	87.5 at 25:1
80	87.5 at 25:1
90	87.5 at 25:1
100	87.5 at 25:1
110	87.5 at 25:1
120	87.5 at 25:1
130	140.0 at 40:1
	140.0 at 40:1

 Alberta TRANSPORTATION AND UTILITIES Engineering Division	FIGURE D-7g	Date: APRIL 1999
INTERSECTION TREATMENT TYPE IIIb (TWO-LANE HIGHWAY)		
Prepared By: Cgk	Checked By: B.K.	Scale: N.T.S.
		PAGE D-125

HIGHWAY DESIGNATION	LANE •/SHOULDER WIDTHS (m)	SHOULDER WIDTH "W" AT INTERSECTION (m)
RAU-213.4	3.7/3.0	1.5
RAU-211.8	3.7/2.2	1.5
RAU-210.0	3.5/1.5	1.5
RAU-209.0	3.5/1.0	1.0
RAU-208.0	3.5/0.5	0.5

• AUXILIARY LANES WILL BE 3.5m IN ALL CASES.

NOTE 1: DIMENSIONS SHOWN ARE FINISHED SURFACE PAVEMENT WIDTHS. ADDITIONAL SUBGRADE WIDTHS TO BE PROVIDED TO ALLOW FOR DEPTH OF BASE COURSE AND PAVEMENT.



FOR DETAILS OF 3-CENTRED CURVE DESIGN REFER TO TABLE D.5.2a USING WB-15 DESIGN VEHICLE.

HIGHWAY DESIGN SPEED (km/h)	LENGTH AND TAPER RATIO "T" OF RIGHT TURN TAPER (m)
50	87.5 at 25:1
60	87.5 at 25:1
70	87.5 at 25:1
80	87.5 at 25:1
90	87.5 at 25:1
100	87.5 at 25:1
110	87.5 at 25:1
120	140.0 at 40:1
130	140.0 at 40:1

No.	BY	DATE

Alberta
TRANSPORTATION
AND UTILITIES
Engineering Division

FIGURE
D-7g

Date: APRIL 1995

INTERSECTION TREATMENT
TYPE IIIb
(TWO-LANE HIGHWAY)

Prepared By: Cgk
Checked By: B.K.
Scale: N.T.S.

PAGE D-125

Rohr, Gabe

From: Brown, Adam J (Sherwood Park)
Sent: Tuesday, November 15, 2005 10:52 AM
To: Wing.Choy@gov.ab.ca; Holman, Gord
Cc: Rohr, Gabe; Kayne, Glen M; jmarois@metis.org; Rob.Lonson@gov.ab.ca; Andy.Brown@gov.ab.ca; csmigerowsky@smokylakecounty.ab.ca; Brown, Adam J (Sherwood Park)
Subject: RE: Hwy 855 / Metis Crossing Intersection Treatment
Attachments: Traffic Impact Assessment.pdf

Gentlemen,

A copy of the report is attached for your review.

thanks,

Adam

From: Wing.Choy@gov.ab.ca [mailto:Wing.Choy@gov.ab.ca]
Sent: Tuesday, November 15, 2005 8:35 AM
To: Holman, Gord
Cc: Rohr, Gabe; Kayne, Glen M; Brown, Adam J (Sherwood Park); jmarois@metis.org; Rob.Lonson@gov.ab.ca; Andy.Brown@gov.ab.ca; csmigerowsky@smokylakecounty.ab.ca
Subject: RE: Hwy 855 / Metis Crossing Intersection Treatment

Gord

It works for me. See you there.

Can you resend a copy of the report to everybody before the meeting ? Thanks.

Wing

From: Holman, Gord [mailto:gord.holman@amec.com]
Sent: Monday, November 14, 2005 3:47 PM
To: Wing.Choy@gov.ab.ca; jmarois@metis.org; Rob.Lonson@gov.ab.ca; Andy.Brown@gov.ab.ca; csmigerowsky@smokylakecounty.ab.ca
Cc: Rohr, Gabe; Kayne, Glen M; Brown, Adam J (Sherwood Park)
Subject: RE: Hwy 855 / Metis Crossing Intersection Treatment

We can have Wednesday morning at 10:00am if that will work better for everyone

From: Wing.Choy@gov.ab.ca [mailto:Wing.Choy@gov.ab.ca]
Sent: Monday, November 14, 2005 3:32 PM
To: Holman, Gord; jmarois@metis.org; Rob.Lonson@gov.ab.ca; Andy.Brown@gov.ab.ca; csmigerowsky@smokylakecounty.ab.ca
Cc: Rohr, Gabe; Kayne, Glen M; Brown, Adam J (Sherwood Park)
Subject: RE: Hwy 855 / Metis Crossing Intersection Treatment

11/15/2005

Gord

Can you change to Wednesday (Nov. 23) ? I can't make it. I have another meeting to attend.

Wing

From: Holman, Gord [mailto:gord.holman@amec.com]
Sent: Monday, November 14, 2005 2:53 PM
To: wing.choy@gov.ab.ca; jmarois@metis.org; rob.lonson@gov.ab.ca; andy.brown@gov.ab.ca; csmigerowsky@smokylakecounty.ab.ca
Cc: Rohr, Gabe; Kayne, Glen M; Brown, Adam J (Sherwood Park)
Subject: Hwy 855 / Metis Crossing Intersection Treatment
Importance: High

As discussed with Wing Choy, we are proposing to have a meeting next week to discuss the Traffic Impact Assessment for the above noted intersection we sent to all parties on July 29, 2005.

Would next Tuesday afternoon (November 22, 2005) at 1:30pm at our office in Sherwood Park be all right for everyone to attend.

Please let me know as soon as possible.

Thanks

Gordon J. Holman, C.E.T.
Project Director
AMEC
Infrastructure Unit
Sherwood Park, AB
Direct Line +1 780 416 8727
Phone +1 780 464 4550
Fax +1 780 464 4533
gord.holman@amec.com

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11/15/2005



29 July 2005
File: TRAFFIC IMPACT RECOMMENDATIONS.DOC
Project No.: EDT050055

Wing Choy
2nd fl Provincial Building
4709 – 44 Avenue
Stony Plain T7Z 1N4

Dear Wing,

**Re : Hwy 855 /Métis Crossing Intersection
Traffic Impact Assessment**

AMEC has been commissioned to conduct a Traffic Impact Assessment at the Hwy 855 / Victoria Trail Intersection where the Métis Crossing project is to be located.

Information contained in this assessment is based on existing mosaics, correspondence with Juanita Marois (Métis Crossing), along with measurements and observations obtained by AMEC Infrastructure Limited (AMEC) during a site inspection

An intersection design system (IDS) analysis was performed using the projected traffic volume given to us by Juanita Marois and traffic volume records obtained from AIT (Alberta Infrastructure and Transportation). Results indicate that the intersection requires Type 3b treatment. The analysis, photos, projected traffic volumes and a plan of a typical Type 3b treatment are attached for your records.

Issues:

- The distance from the north end of the bridge to the intersection is approximately 170m and is equal to the distance required to construct the southwest taper of the intersection. There appears to be no visible obstruction for the remaining three tapers.
- The existing 4 legged intersection is slightly offset with the west leg 4m further south than the right leg.
- Powerpoles on the north side of Victoria Trail appear to be within the existing road right of way.
- Existing guardrail adjacent to the highway extends north from the bridge abutment to the access road and around the flare.
- Site distance in both directions appears to be adequate.
- It assumes that there will be no development to the west of Hwy 855 and only local traffic will be using the west leg.
- Conceptual design provided by Métis Crossing showing development adjacent to Hwy 855 and Victoria Trail.

AMEC Infrastructure Limited
130 Sioux Road
Sherwood Park, Alberta
T8A 3X5
Tel (780) 464-4550
Fax (780) 464-4533

www.amec.com



Recommendations:

- Type 3b intersection treatment.
- Have review meeting with AIT, Métis Crossing and Smoky Lake County.
- After agreement is reached, proceed to preliminary survey and design.
- Complete field survey and preliminary design for review with AIT, Métis Crossing and Smoky Lake County.

Please review and if you have any questions please do not hesitate to call me.

Regards,

A handwritten signature in black ink that reads "Adam Brown".

Adam Brown, EIT
Project Engineer

c: Gabe Rohr, AMEC Infrastructure Limited
Hal Cook, AMEC Infrastructure Limited
Juanita Marois, Métis Crossing
Cary Smigerowsky, Smoky Lake County

Gord Holman

From: Marois, Juanita [jmarois@metis.org]
Sent: Wednesday, June 08, 2005 6:45 PM
To: Gord Holman
Subject: RE: Metis Crossing

Hello Gordon,

I'm not sure that I have all the information that you ask for in the format requested, but let me provide what I have:

- Full development of Metis Crossing is expected in 2008.
- Yearly attendance is estimated to be 80,000 - 100,000. Of this total
 - 15,000 students (375 bus loads) majority in May, June, September, October
 - 3,500 tour participants (100 coach loads) majority between May and October
 - 2,400 RVs
 - balance will come by private automobile. Research suggests approximately 30% will be empty nesters (2 people per vehicle), 45% will be families.
- Off season and shoulder season will host training programs and other events, but maximum visitation will occur between May and September.

Hope this helps,
Juanita

-----Original Message-----

From: Gord Holman [mailto:gord.holman@amec.com]
Sent: Fri 6/3/2005 9:06 AM
To: Marois, Juanita
Cc:
Subject: Metis Crossing

As per our telephone conversation, we are looking for projected traffic counts to and from the development in order to complete a Traffic Impact Assessment for the intersection of Victoria Trail and Hwy 855.

We would require numbers of vehicle trips, as well as type of vehicles, for visitors, employees, service and maintenance vehicles.

Please call if you have any questions.

Gordon J. Holman, C.E.T.
Project Director
AMEC
Infrastructure Unit
Sherwood Park, AB
Direct Line +1 780 416 8727
Phone +1 780 464 4550
Fax +1 780 464 4533
gord.holman@amec.com

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INTERSECTION OF HWY 855 AND VICTORIA TRAIL

File: METIS CROSSING

Date: 07/18/2005

Intersection Design System (IDS) ver 1.01
Final Report

This design/evaluation was prepared by: TAJ
Reason for the analysis: Development permit request.

Design Characteristics Considered: Functional, geometric and 'other'.

Intersection Name: HW855
Intersection Plan Number: TRY 2
Location on Main Road (km): 11+86
Legal Land Description: SW13-58-17-w4

Since the design volume on the intersecting roadway is greater than the design volume on the main roadway, a review of the traffic control scheme should be undertaken. Contact the Roadway Engineering Branch (Traffic Engineering) at 427 - 4219.

MAIN ROAD:

- Name: HW855
- Design Classification: RCU-208.0-110
- AADT: 0 ASDT: 5000 AWDT: 0
- Traffic Volume Information from: 2004
- Volume Used in Design: 5000 v.p.d. (ASDT)
- Design Period: 20 year(s)
- Annual Growth Rate: 2.5 % (actual)
- Future Design Volume: 7625 v.p.d. (ASDT)
- 'K' Factor: 15 % (actual)
- Future Design Hourly Volume: 1144 v.p.h.
- Design Speed: 110 km/h
- Posted Speed: 100 km/h

INTERSECTING ROAD:

- Name: VICTORIA TRAIL
- Design Classification: RLU-208G-60
- AADT: 0 ASDT: 5000 AWDT: 0
- Traffic Volume Information from: 2004
- Volume Used in Design: 5000 v.p.d. (ASDT)
- Design Period: 20 year(s)
- Annual Growth Rate: 2.5 % (actual)
- Future Design Volume: 7625 v.p.d. (ASDT)
- 'K' Factor: 15 % (actual)
- Future Design Hourly Volume: 1144 v.p.h.

TWINNING REQUIREMENT met before design period finished? n/a
If yes, and details required:

- Functional Classification: % ()
- Percent Passing Zones: v.p.d.
- Twinning Required at: v.p.d.
- Year Twinning Volume Met:

INTERSECTION TYPE: four-legged
Main Roadway Orientation: north-south
Intersecting Roadway Orientation: east-west

INTERSECTION OF HWY 855 AND VICTORIA TRAIL

TURNING MOVEMENT INFORMATION:

2004 ASDT traffic volume on the main road:

	Daily Vol. (v.p.d.)	Design Vol. (v.p.d.)	Design Hour Vol. (v.p.h.)
From the north to the south	600	915	137
From the north to the east	150	229	34
From the north to the west	5	8	1
From the south to the north	350	534	80
From the south to the east	30	46	7
From the south to the west	10	15	2

2004 ASDT traffic volume on the intersecting road:

	Daily Vol. (v.p.d.)	Design Vol. (v.p.d.)	Design Hour Vol. (v.p.h.)
From the east to the north	150	229	34
From the east to the south	30	46	7
From the east to the west	5	8	1
From the west to the north	5	8	1
From the west to the south	5	8	1
From the west to the east	5	8	1

Percent of left-turning vehicles in the advancing stream:

- from the north: 19.9 %
- from the south: 2.6 %

North/South Split: 66 / 34
 South/North Split: 34 / 66

For traffic from the North:
 Advancing Volume: 173 v.p.h.
 Opposing Volume: 89 v.p.h.

For traffic from the South:
 Advancing Volume: 89 v.p.h.
 Opposing Volume: 173 v.p.h.

LEFT-TURN STORAGE LANE REQUIREMENTS:

Because the advancing volume from the north (173) is less than the allowable advancing volume from the north (210) but greater than, or equal to, the "70% line" (141) a type 3 treatment is required on the north side of the intersection.

Because the advancing volume from the south (89) is less than the "70% line" (306) a type 2 treatment is required on the south side of the intersection.

RIGHT-TURN LANE REQUIREMENTS:

A right turn lane, for vehicles heading from north to west, is not required.

A right turn lane, for vehicles heading from south to east, is not required.

INTERSECTION LAYOUT:

Based on the above information:

INTERSECTION OF HWY 855 AND VICTORIA TRAIL

This intersection requires a treatment similar to Type ~~10~~ as indicated on Dwg. No. DEB-FIG C-28 (CB6-2.3C28B for design designation RAU-211.8-110 or CB6-2.3C28D for design designation RAU-209.0-110).

Since a left-turn lane is required for traffic from the north, the orientation of the intersection is 270 degrees clockwise from that of the drawing.

One leg of intersecting road has different volume than the other? yes

If yes - Volume Used in Design: 50 v.p.d. (ASDT)
- Future Design Volume: 76 v.p.d. (ASDT)
- Future Des. Hourly Vol.: 11 v.p.h.

DIMENSIONS for the type of intersection treatment mentioned above:

The following dimensions are the requirements for the finished surface pavement widths at this intersection. Additional subgrade width must be provided to allow for the basecourse and pavement depth.

Design classification of the main roadway: RCU-208.0-110
Lane width (m): 3.5
Bypass lane width (m): 3.5
Auxilliary lane width (m): 3.50
Shoulder width for roadway (m): 0.5
Shoulder width at intersection, w (m): 0.5

Design speed of the main roadway (km/h): 110
Prior to the intersecting road
- Right-turn taper length (m): 87.50
- Right-turn taper ratio: 25:1

Past the intersecting road
- Recovery taper length (m): 87.50
- Recovery taper ratio: 25:1

ADDITIONAL FUNCTIONAL CHARACTERISTICS:

Intersection considered to be collision prone? no
Need for access within vicinity of intersection? no
Access can be physically accomodated? n/a
Any future development which could significantly impact the traffic volume at this intersection? no
Any proposed improvements to other roadways which might impact the traffic movement at this intersection? no

GEOMETRIC CHARACTERISTICS:

Intersection Type: four-legged
Main Road Orientation: north-south
Grade at Intersection
- North to South: 2 %
- South to North: 2 %
Intersecting Road Orientation: east-west
Grade at Intersection
- East to West: 2 %
- West to East: 2 %

Decision Sight Distance:

INTERSECTION OF HWY 855 AND VICTORIA TRAIL

Because a Type IV or V treatment is not required for this intersection, determination of the available decision sight distance is not necessary.

Intersection Sight Distance:

Design Vehicle:	WB-15
Intersection on horiz. curve:	NO
- superelevation rate (%):	N/A

	Available (m)	Required (m)	Status
North Leg:	600	430	ACCEPTABLE
South Leg:	600	430	ACCEPTABLE

OTHER CHARACTERISTICS:

Utility relocation required?	no
Additional right-of-way to be purchased?	no
Cost of additional right-of-way:	\$ n/a
Existing illumination?	no
Existing traffic signals?	no

IDS is not designed as, nor does it establish, a legal standard. IDS is not intended to be used as a substitute for sound, professional judgement.

Approved by: Adam Brown
Date: July 18, 2005

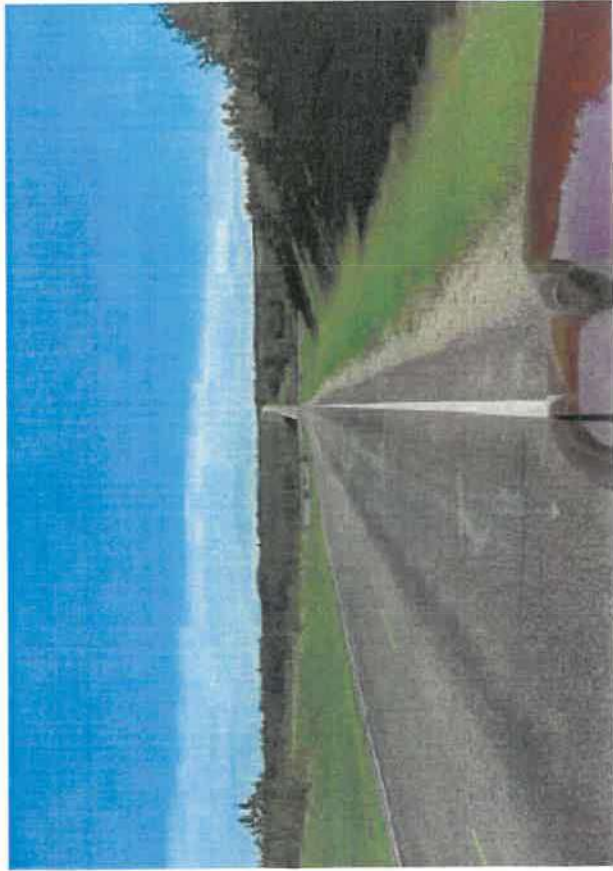
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ALBERTA HIGHWAYS 1 TO 866
 TRAFFIC VOLUME, VEHICLE CLASSIFICATION, TRAVEL AND ESAL STATISTICS REPORT
 2004

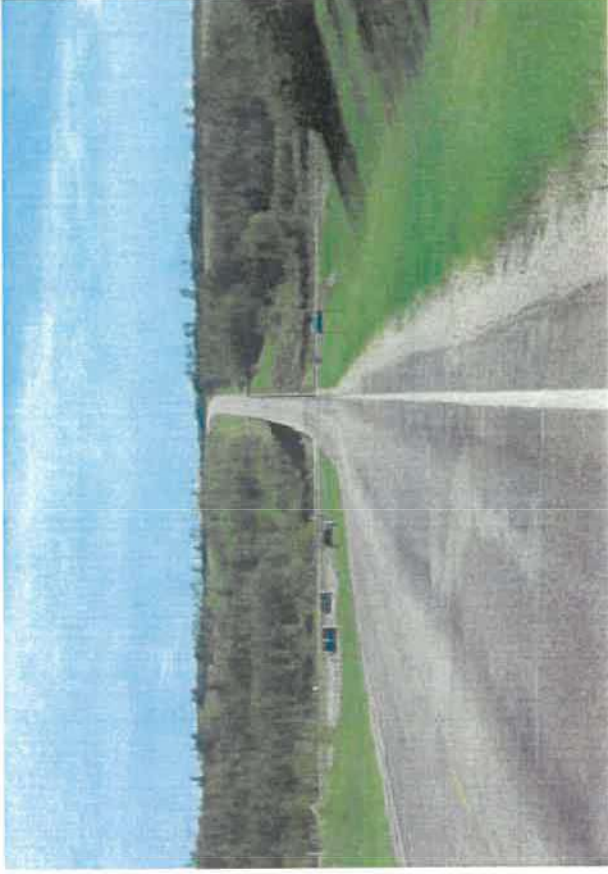
Alberta Infrastructure and Transportation
 Program Management Branch
 Highway Asset Management Section

Product: 15-Feb-2005 By: ComerStone Solutions Inc. Updated: 08-Mar-2005 By: P. Kilburn P. Eng.

Hwy	CS	TCS	Mnt	From	To	Length In Km	Volume			Classifications					Travel MWKM		ESAL /Day /Dir		
							WAADT	WASDT	%PV	%RV	%BU	%SU	%TT	%CM	Annual	Summer	SU	TC	Total
854				N OF 53 E OF DONALDA	S OF 628 NE OF RYLEY	89.412	247	268	82.4	1.4	1.0	8.6	6.6	16.2	8.1	3.7	9.4	16.9	26.3
855	02	04	SAR2	N OF 9 S OF WAITS	E OF 588 NW OF ENDIANG	38.484	180	200	85.4	2.1	3.7	4.0	4.8	12.5	2.5	1.2	3.2	9.0	12.2
855	02			N OF 9 S OF WAITS	E OF 588 NW OF ENDIANG	38.484	180	200	85.4	2.1	3.7	4.0	4.8	12.5	2.5	1.2	3.2	9.0	12.2
855	04	04	Ph1e	N OF 589 NW OF ENDIANG	S OF 12 SE OF HALKIRK EJ	34.289	190	210	67.7	3.4	0.0	7.2	21.7	28.9	2.4	1.1	6.0	42.7	48.7
855	04			N OF 589 NW OF ENDIANG	S OF 12 SE OF HALKIRK EJ	34.289	190	210	67.7	3.4	0.0	7.2	21.7	28.9	2.4	1.1	6.0	42.7	48.7
855	06	04	Ph1e	N OF 12 W OF HALKIRK WJ	S OF 601 NW OF HALKIRK	17.327	400	450	86.5	0.2	1.3	6.3	5.7	13.3	2.5	1.2	11.1	23.6	34.7
855	06	08	Flag	N OF 601 NW OF HALKIRK	S OF 53 W OF FORESTBURG EJ	16.793	340	390	80.9	2.1	0.7	6.3	10.0	17.0	2.1	1.0	9.4	35.2	44.6
855	06			N OF 12 W OF HALKIRK WJ	S OF 53 W OF FORESTBURG EJ	34.120	370	420	83.9	1.1	1.0	6.3	7.7	15.0	4.6	2.2	10.3	28.5	39.8
855	08	04	Flag	N OF 53 S OF HEISLER WJ	S OF 13 SE OF DAYS LAKE EJ	31.106	680	730	86.4	1.4	0.0	7.4	4.8	12.2	7.7	3.5	22.2	33.8	56.0
855	08			N OF 53 S OF HEISLER WJ	S OF 13 SE OF DAYS LAKE EJ	31.106	680	730	86.4	1.4	0.0	7.4	4.8	12.2	7.7	3.5	22.2	33.8	56.0
855	10	04	Flag	N OF 13 AT DAYS LAKE WJ	S OF 26 S OF HOLDEN	17.541	380	410	83.5	3.2	0.5	6.0	5.8	13.3	2.4	1.1	10.0	26.8	36.8
855	10			N OF 13 AT DAYS LAKE WJ	S OF 26 S OF HOLDEN	17.541	380	410	83.5	3.2	0.5	6.0	5.8	13.3	2.4	1.1	10.0	26.8	36.8
855	12	04	Beav	N OF 26 S OF HOLDEN	S OF 14 SW OF HOLDEN	23.651	360	390	82.0	4.8	1.4	5.3	6.5	13.2	3.1	1.4	8.4	24.3	32.7
855	12	08	Beav	N OF 14 SW OF HOLDEN	S OF 628 N OF HOLDEN EJ	15.255	270	280	78.4	2.5	5.0	7.8	6.3	18.1	1.5	0.7	8.3	17.6	26.9
855	12			N OF 26 S OF HOLDEN	S OF 628 N OF HOLDEN EJ	38.906	325	347	80.8	4.0	2.6	6.1	6.4	15.1	4.6	2.1	8.7	21.6	30.3
855	14	04	Lamo	N OF 626 NE OF RYLEY WJ	S OF 15 S OF MUNDARE	22.656	260	280	73.4	3.6	0.0	9.9	13.1	23.0	2.2	1.0	11.3	35.3	46.6
855	14			N OF 626 NE OF RYLEY WJ	S OF 15 S OF MUNDARE	22.656	260	280	73.4	3.6	0.0	9.9	13.1	23.0	2.2	1.0	11.3	35.3	46.6
855	16	04	Lamo	JCT HWY 15	S OF 837 SE OF ZAWALE	20.487	1640	1760	83.9	5.2	0.8	4.8	5.3	10.9	12.3	5.6	34.7	90.1	124.8
855	16	08	Lamo	N OF 637 SE OF ZAWALE	S.C.L. OF ANDREW	11.843	640	730	88.1	4.9	2.5	1.3	3.2	7.0	2.7	1.3	3.7	21.2	24.9
855	16	12	Lamo	S.C.L. OF ANDREW	S OF 45 N OF ANDREW EJ	1.289	940	1060	87.3	3.2	0.1	4.9	4.5	8.5	0.4	0.2	20.3	43.8	64.1
855	16			JCT HWY 15	S OF 45 N OF ANDREW EJ	33.429	1265	1393	84.7	5.1	1.1	4.2	4.9	10.2	15.5	7.1	23.4	64.2	87.6
855	18	04	Lamo	N OF 45 S OF UKALTA WJ	S OF 28 N OF SMOKY LAKE	28.149	610	700	86.2	2.2	1.5	4.7	5.4	11.6	5.8	2.8	12.8	34.1	46.7
855	18			N OF 45 S OF UKALTA WJ	S OF 28 N OF SMOKY LAKE	28.149	610	700	86.2	2.2	1.5	4.7	5.4	11.6	5.8	2.8	12.8	34.1	46.7
855	20	04	SmkL	N OF 28 N OF SMOKY LAKE	COUNTY 13 BOUNDARY	23.154	310	360	83.2	4.7	0.2	6.0	5.9	12.1	2.6	1.3	8.2	19.0	27.2
855	20			N OF 28 N OF SMOKY LAKE	COUNTY 13 BOUNDARY	23.164	310	360	83.2	4.7	0.2	6.0	5.9	12.1	2.6	1.3	8.2	19.0	27.2
855	22	04	SmkL	COUNTY 13 BOUNDARY	S OF 663 E OF CASLAN	36.540	220	260	85.5	0.7	4.7	6.2	2.9	13.8	2.9	1.5	6.0	6.6	12.6
855	22			COUNTY 13 BOUNDARY	S OF 663 E OF CASLAN	36.540	220	260	85.5	0.7	4.7	6.2	2.9	13.8	2.9	1.5	6.0	6.6	12.6
855	24	04	Apha	N OF 663 E OF CASLAN	S OF 56 S OF ATMORE NJ	27.782	100	110	73.4	1.4	2.1	6.3	16.8	25.2	1.0	0.5	2.8	17.4	20.2
855	24			N OF 663 E OF CASLAN	S OF 56 S OF ATMORE NJ	27.782	100	110	73.4	1.4	2.1	6.3	16.8	25.2	1.0	0.5	2.8	17.4	20.2
855				N OF 9 S OF WAITS	S OF 56 S OF ATMORE NJ	364.166	408	452	83.3	3.1	1.3	6.7	6.6	13.6	64.4	25.2	10.2	27.9	38.1
856	02	04	Flag	N OF 53 AT FORESTBURG	N.C.L. OF FORESTBURG	0.649	1410	1560	84.4	3.0	0.1	3.8	6.7	12.6	0.3	0.1	23.6	127.1	150.7
856	02	08	Flag	N.C.L. OF FORESTBURG	S OF 13 S OF STROME	25.481	170	180	82.4	0.8	0.0	13.9	2.9	16.8	1.6	0.7	10.4	5.1	15.5
856	02			N OF 93 AT FORESTBURG	S OF 13 S OF STROME	26.040	196	209	82.7	1.1	0.0	12.4	3.8	16.2	1.9	0.8	10.7	7.7	18.4
856				N OF 93 AT FORESTBURG	S OF 13 S OF STROME	26.040	196	209	82.7	1.1	0.0	12.4	3.8	16.2	1.9	0.8	10.7	7.7	18.4



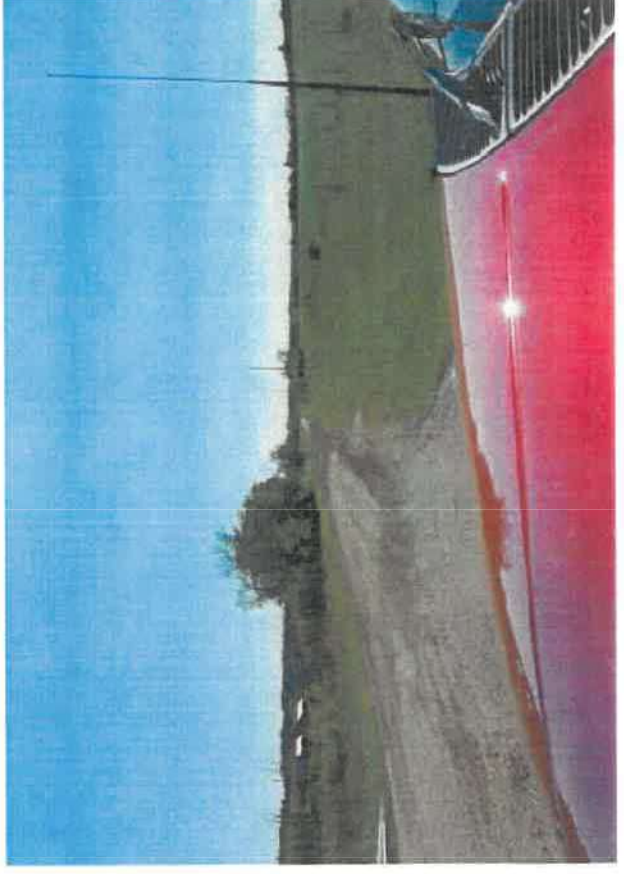
Picture 1 : Looking South from the crest of hill.



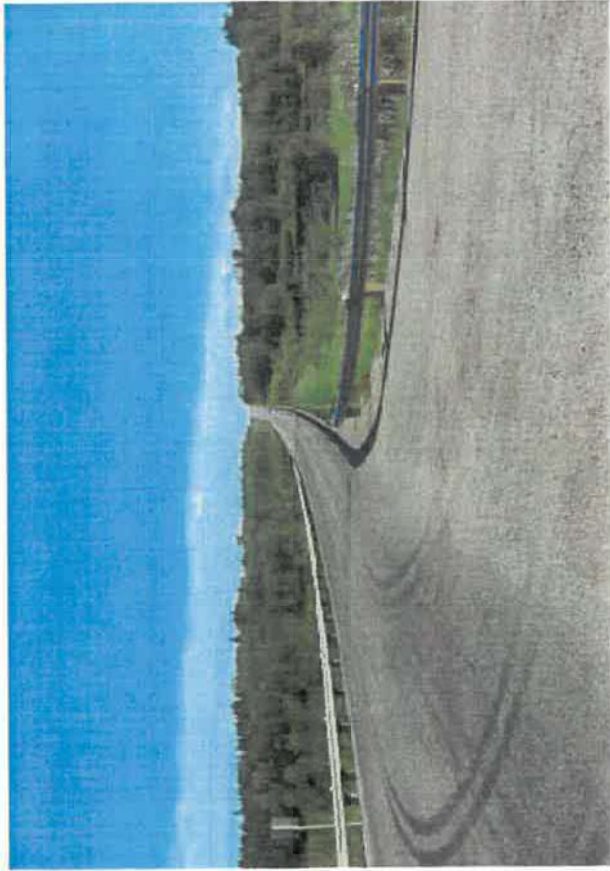
Picture 2 : South sight distance from intersection.



Picture 3 : View of East Leg.



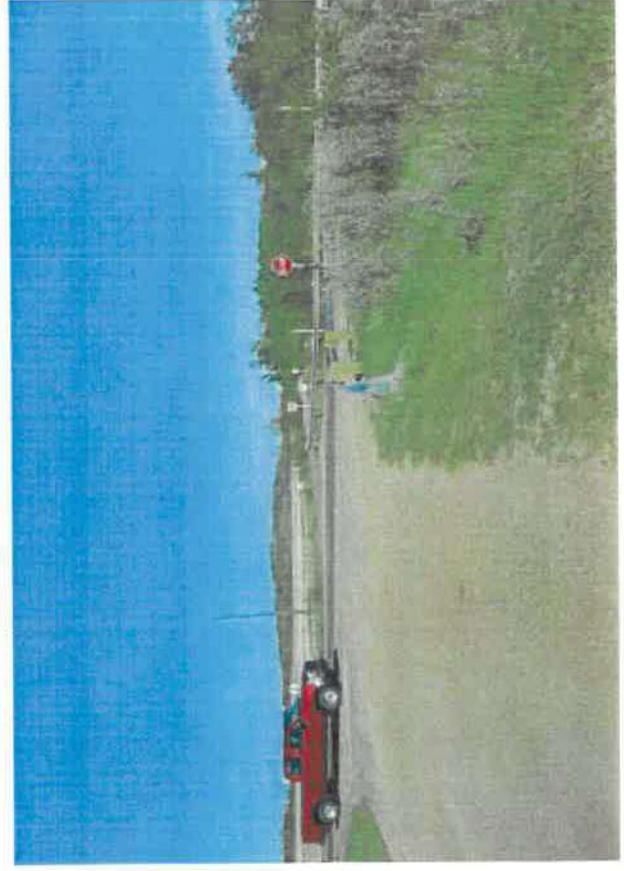
Picture 4 : View of West Leg.



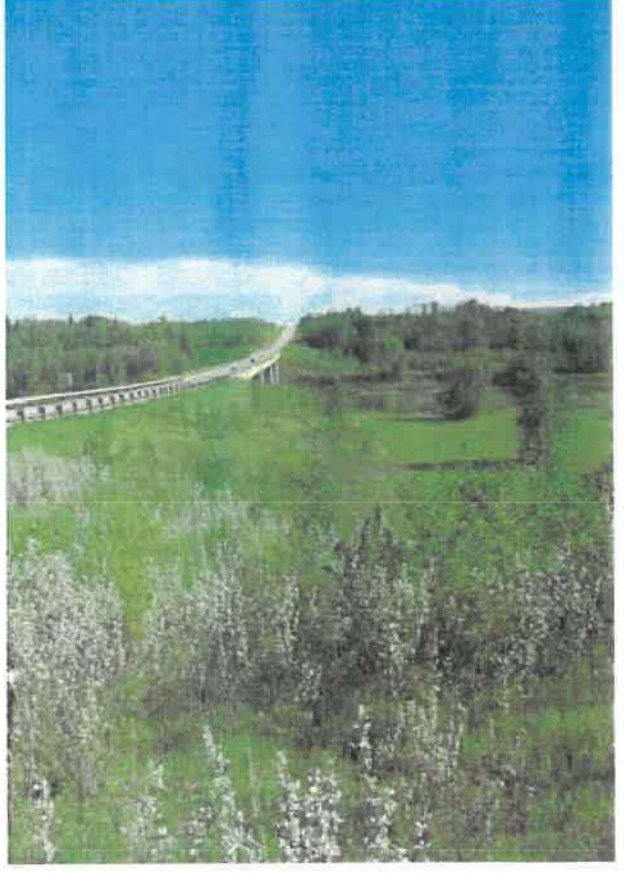
Picture 5 : View South, guardrail.



Picture 6 : North sight distance from intersection.



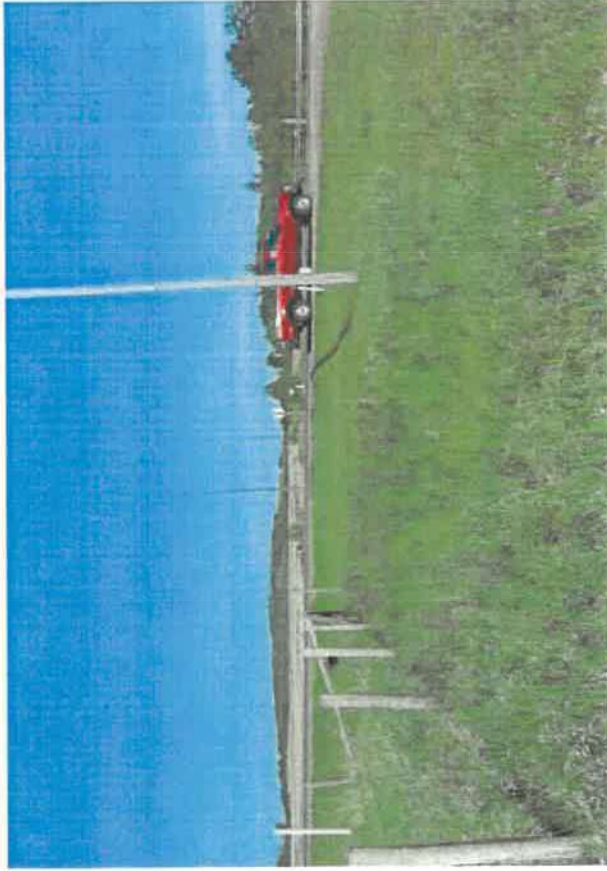
Picture 7 : Looking West at intersection. Guardrail wraps around flare.



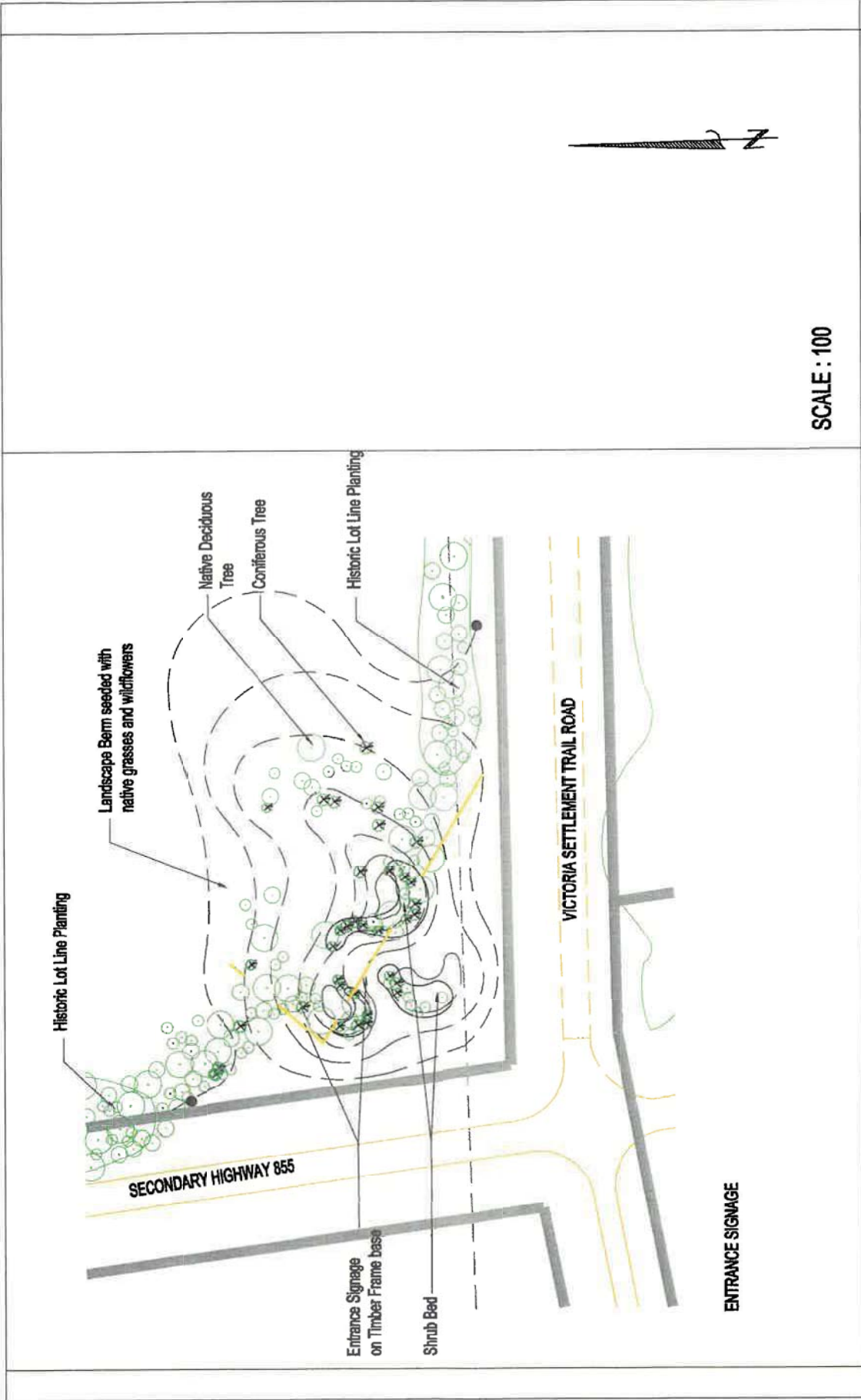
Picture 8 : View South of the sideslope.



Picture 10 : View South at sideslope.



Picture 9 : Powerpoles running East-West



**MÉTIS NATION OF ALBERTA
RIVER VIEW FARM
VICTORIA LANDING**

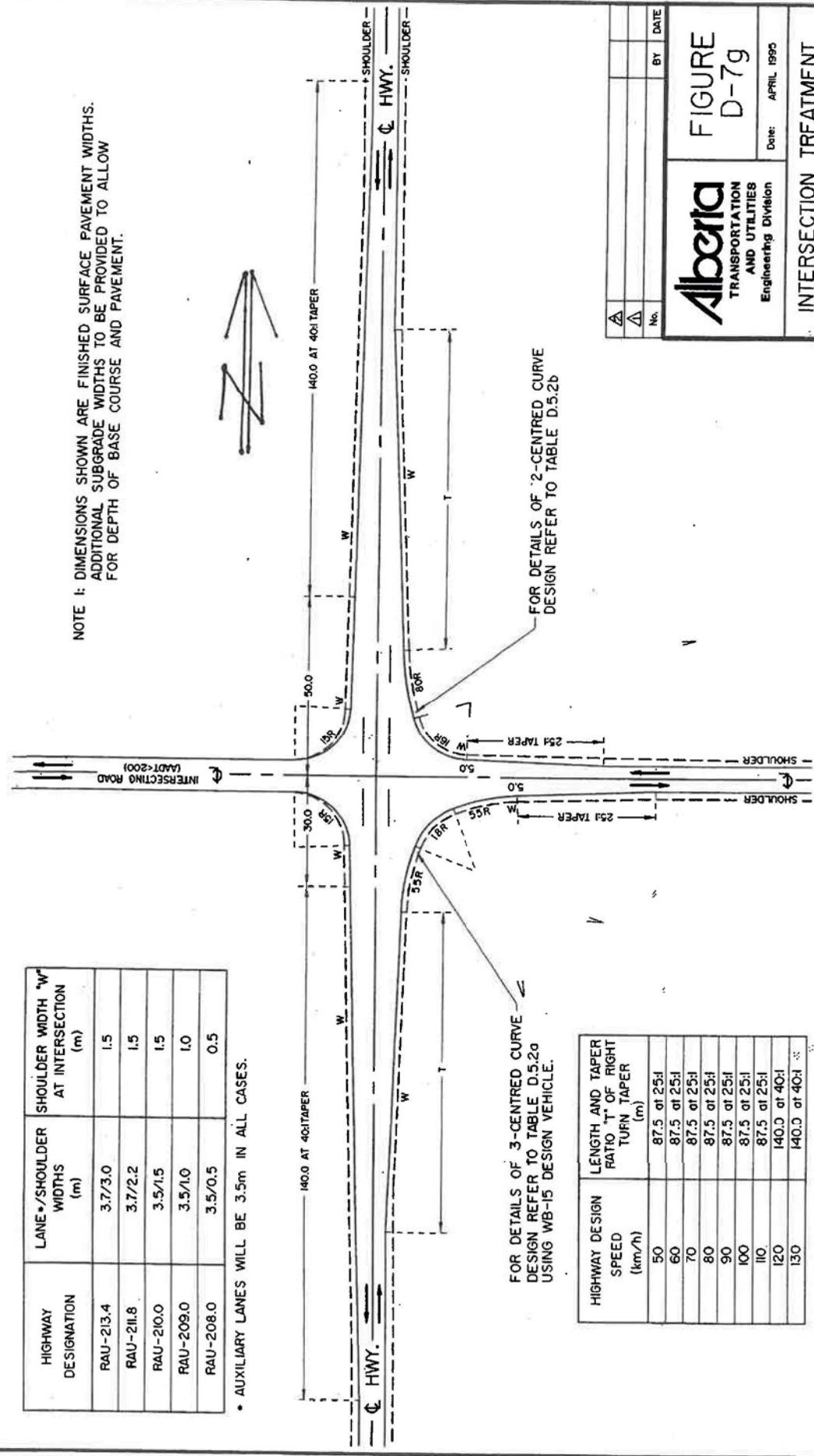
PROPOSED PLAN ENLARGEMENTS

DESIGNED BY
BRANDON SMITH
Landscape Architecture
Landscape Architecture
Landscape Architecture

HIGHWAY DESIGNATION	LANE + SHOULDER WIDTHS (m)	SHOULDER WIDTH "W" AT INTERSECTION (m)
RAU-213.4	3.7/3.0	1.5
RAU-211.8	3.7/2.2	1.5
RAU-210.0	3.5/1.5	1.5
RAU-209.0	3.5/1.0	1.0
RAU-208.0	3.5/0.5	0.5

• AUXILIARY LANES WILL BE 3.5m IN ALL CASES.

NOTE 1: DIMENSIONS SHOWN ARE FINISHED SURFACE PAVEMENT WIDTHS. ADDITIONAL SUBGRADE WIDTHS TO BE PROVIDED TO ALLOW FOR DEPTH OF BASE COURSE AND PAVEMENT.



FOR DETAILS OF 3-CENTRED CURVE DESIGN REFER TO TABLE D.5.20 USING WB-15 DESIGN VEHICLE.

FOR DETAILS OF 2-CENTRED CURVE DESIGN REFER TO TABLE D.5.2b

HIGHWAY DESIGN SPEED (km/h)	LENGTH AND TAPER RATIO "T" OF RIGHT TURN TAPER (m)
50	87.5 at 25:1
60	87.5 at 25:1
70	87.5 at 25:1
80	87.5 at 25:1
90	87.5 at 25:1
100	87.5 at 25:1
110	87.5 at 25:1
120	140.0 at 40:1
130	140.0 at 40:1

		FIGURE D-7g	
		Date: APRIL 1990	
INTERSECTION TREATMENT TYPE IIIb (TWO-LANE HIGHWAY)		Checked By: B.K.	Scale: N.T.S.
Prepared By: Cpk	No.	BY	DATE
		PAGE D-125	

Jordan Ruegg

From: Andy Russell [REDACTED]
Sent: June 20, 2024 5:11 PM
To: Jordan Ruegg
Cc: Lewis Semashkewich
Subject: MNA-001 Smoky Lake Recovery Center

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hi Jorden

I am hoping this comes in quick enough today to meet your deadline.

- The numbers below were calculated using the staff required to operate, maintenance workers, supplies to operate and 4-6 visitors per month per resident.
 - Kitchen supplies (Food and dry goods) will be once per week or less. The amount of dry and cold storage in this building reduces food delivery traffic.
 - Medical, office supplies and general supplies will be no more than once per week.
 - Miscellaneous or fast delivery items 2-3 times per month.
-
1. Private vehicles (2 people per vehicle) annual total 14,000 per year.
 2. Water and sewage vehicles, annual total 200 per year.
 3. Groceries and general supply vehicles, annual total 110-135 per year.
 4. Handicap bus or multi passenger transportation for families to visit residents, annual total 35-60 per year.
- Total annual vehicle traffic using the maximum number calculates to 14,395 with a daily total of 40 vehicles per day.

Hopefully this is what the council will be happy with.

Sincerely

Andy Russell
[REDACTED]

RE: Metis Crossing recovery

Terry Smith

Wed 6/5/2024, 1:58 PM

To: Abdulla Elmikkawi

Cc: Lewis Semashkew

Pond size to be verified once we see arch plans from Mike showing fire rated compartments and/or we have input on maximum sprinkler zone size.

For now use 50,000 US gallons as an approx size. Pond surface is 2500sf. Could be (35 by 70) and 3 ft deep of usable water...or any other size with volume of 6682 cubic ft. Understand pond has to be 6ft deeper to allow for ice on top and silt at bottom. Adjacent pond in fenced area show a 6ft by 12ft diesel fire pump...min 2 meters from edge of pond.

Septic and domestic water tanks each need to be 4237 cu ft or about 120,000liters for a week of storage. If using fiberglass or precast tanks will need to connect appropriate size tanks together.

Finally I see the power transformer is located far away from building. Moving it closer and more central to mail electrical room is cost efficient. Needs to be within 10 ft of driving or paved surface.

Trusting this helps for next draft of site plan.

Cheers

Terry Smith

Sent from my Galaxy

----- Original message -----

From: Abdulla Elmikkawi

Date: 2024-06-05 12:32 p.m. (GMT-07:00)

To: Andy Russell

Cc: Lewis Semashkew

Subject: RE: Metis Crossing recovery

Hi

Updated MNA_ Smoky Lake site plan with proposed fence around the pond

Let me know if you have any questions

Regards

From: Andy Russell

Sent: Wednesday, June 5, 2024 12:12 PM

To: Terry Smith

Cc: Lewis Semashkew

Subject: Re: Metis Crossing recovery

Hi Terry

Lewis and I had a brief conversation on the site last week . He showed me a drawing with locations for all the items below. I talked to my team and Abdulla is going to redraw the Site plan showing Lewis's idea.

1. On-Site sewage treatment as a future proposed location unless directed to remove from plan.
2. Potable water (Cistern) proposed location
3. Sewage storage tank proposed location
4. Garbage enclosure proposed location
5. Required paved area to access the above items
6. The Fire pond will not move unless required to
7. I am having Abdulla as per the conversation draw a fence around the fire pond. (only if required)

Jordan Ruegg

From: Andy Russell [REDACTED]
Sent: June 19, 2024 1:48 PM
To: Jordan Ruegg
Cc: John Contessa
Subject: MNA-001 Smoky Lake Recovery Center
Attachments: Fire Pond And Sewage Engineer Recommendation.pdf; MNA-001 Architectural DP Plan.pdf; MNA-001 DP Site Plan.pdf

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hi Jordan

I called Metros who is contracted to service Metis Crossing and the recovery center.

#1.

- Current Primary dump site used for Metis Crossing is Warspite.
- Once the recovery center comes online Metros will add Bellis for surplus volume as needed
- We have volume calculations per fixture from our engineer using the national building code - 7.6 Litres per second
- We have volume calculations per fixture from our engineer using Alberta private sewage systems - Standard practice 2021 at
 1. 1.94 Litres per second.

#2

- The existing Buffalo fence will be used for the course of construction. During the final design phase our team, with input from customer and county approval, will come up with an attractive fence for the entrance portion running North - South.

#3

- DP Architectural drawings attached reflect the building colors for your review.

#4

- Attached Site plan identifies road and parking lot, our team is recommending gravel surface for road and parking lot until which time the county paves road to the center entrance. Both the Customer and our Team are concerned with the amount of cleaning required to maintain the asphalt from the gravel road to entrance on muddy days

Sincerely

Andy Russell



We Create Spaces That Inspire

