

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.



Public Hearing Date: July 18, 2024
Public Hearing Time: 9:00 a.m.

VIRTUAL PUBLIC HEARING BACKGROUND

<u>PROPOSED BYLAW NAME & NO.:</u>	Proposed Development Permit No. DP 024-24
<u>APPLICANT:</u>	Métis Nation of Alberta
<u>PROPOSAL:</u>	A Development Permit to allow the development of a 75-bed Supportive Living Facility, proposed to be developed on the lands legally described as River Lot 15, Victoria Settlement

BACKGROUND:

- The Smoky Lake County Planning and Development Department received an application to amend Smoky Lake County Land Use Bylaw No. 1272-14, from the Métis Nation of Alberta, dated October 4, 2023, to allow for the development of a 75-bed Supportive Living Facility.
- Bylaw No. 1453-23 was adopted by Smoky Lake County Council on April 25, 2024, to redistrict the lands legally described as River Lot 15, Victoria Settlement, to Direct Control (DC2) District and to add provisions relating to Supportive Living Facilities.
- The lands in question are approximately 158.55 acres in area, and are separated into two portions, one north of Victoria Trail and the other to the south of Victoria Trail. The proposed Supportive Living Facility is planned to be located on the portion of River Lot 15 lying north of Victoria Trail.
- As the lands in question are designated as a Direct Control District, Council serves as the Development Authority. 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.
- Following the adoption of Bylaw No. 1453-23, the Applicant submitted an application for a Development Permit to Smoky Lake County. Administration has since been working with the Applicant to ensure that the necessary documentation has been provided to the County prior to Council giving consideration to the proposed Development Permit.
- The lands in question are approximately 158.55 acres in area, and are separated into two portions, one north of Victoria Trail and the other to the south of Victoria Trail. The proposed Supportive Living Facility is planned to be located on the portion of River Lot 15 lying north of Victoria Trail.

- **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 coral 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*.

NOTICE:

- Public Notice of the Public Hearing on the proposed Development Permit DP 024-24 has been advertised for two weeks consecutively in newsprint in the Redwater Review during the weeks of July 8th and July 15th, 2024.

- Public Notice of the Public Hearing on the proposed Development Permit DP 024-24 has also been posted on the Smoky Lake County website and the County's social media channels since July 2, 2024.
- Landowners located within the Victoria District were notified of the Public Hearing on the proposed Development Permit DP 024-24 by Notice, mailed on **June 28, 2024**.

ATTACHMENTS:

1. Proposed Conditions for Development Permit DP 024-24
2. Relevant Legislation
3. Smoky Lake County Bylaw No. 1282-15: *Planning and Development: Public Hearing Procedures*
4. Notice of Public Hearing

ATTACHMENT #1 - 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 viewscapes. 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.

ATTACHMENT #2 – RELEVANT LEGISLATION

WHEN TO HOLD A PUBLIC HEARING

Municipal Government Act, R.S.A. 2000

- Section 216.4(1)** When this or another enactment requires council to hold a public hearing on a proposed bylaw or resolution, the public hearing must be held, unless another enactment specifies otherwise,
- (a) before second reading of the bylaw, or
 - (b) before council votes on the resolution.
- (2)** When this or another enactment requires a public hearing to be held on a proposed bylaw or resolution, council must
- (a) give notice of the public hearing in accordance with section 606, and
 - (b) conduct the public hearing during a regular or special council meeting.
- (3)** A council may, by bylaw, establish procedures for public hearings.
- (4)** In the public hearing, council
- (a) must hear any person, group of persons or person representing them who claims to be affected by the proposed bylaw or resolution and who has complied with the procedures outlined by the council, and
 - (b) may hear any other person who wishes to make representations and who the council agrees to hear.
- (5)** After considering the representations made to it about the proposed bylaw or Resolution at the public hearing and after considering any other matter it considers appropriate, the council may
- (a) pass the bylaw or resolution,
 - (b) make any amendment to the bylaw or resolution it considers necessary, and proceed to pass it without further advertisement of hearing, or
 - (c) defeat the bylaw or resolution.
- (6)** The minutes of the council meeting during which the public hearing is held must record the public hearing to the extent directed by the council.

REQUIREMENTS FOR ADVERTISING

Municipal Government Act, R.S.A. 2000

- Section 606(1)** The requirements of this section apply when this or another enactment requires a bylaw, resolution, meeting, public hearing or something else to be advertised by a municipality, unless this or another enactment specifies otherwise.
- (2) Notice of the bylaw, resolution, meeting, public hearing or other thing must be
- (a) published at least once a week for 2 consecutive weeks in at least one newspaper or other publication circulating in the area to which the proposed bylaw, resolution or other thing relates, or in which the meeting or hearing is to be held, or
 - (b) mailed or delivered to every residence in the area to which the proposed bylaw, resolution or other thing relates, or in which the meeting or hearing is to be held.
- (3) A notice of a proposed bylaw must be advertised under subsection (2) before second reading.
- (4) A notice of a proposed resolution must be advertised under subsection (2) before it is voted on by council.
- (5) A notice of a meeting, public hearing or other thing must be advertised under subsection (2) at least 5 days before the meeting, public hearing or thing occurs.
- (6) A notice must contain
- (a) a statement of the general purpose of the proposed bylaw, resolution, meeting, public hearing or other thing,
 - (b) the address where a copy of the proposed bylaw, resolution or other thing, and any document relating to it or to the meeting or public hearing may be inspected,
 - (c) in the case of a bylaw or resolution, an outline of the procedure to be followed by anyone wishing to file a petition in respect of it, and
 - (d) in the case of a meeting or public hearing, the date, time and place where it will be held.
- (7) A certificate of a designated officer certifying that something has been advertised in accordance with this section is proof, in the absence of evidence to the contrary, of the matters set out in the certificate.
- (8) The certificate is admissible in evidence without proof of the appointment or signature of the person who signed the certificate.

PLANNING BYLAWS

Municipal Government Act, R.S.A. 2000

Section 692(1) Before giving second reading to

- (a) a proposed bylaw to adopt an intermunicipal development plan,
- (b) a proposed bylaw to adopt a municipal development plan,
- (c) a proposed bylaw to adopt an area structure plan,
- (d) a proposed bylaw to adopt an area redevelopment plan,
- (e) a proposed land use bylaw, or
- (f) a proposed bylaw amending a statutory plan or land use bylaw referred to in clauses (a) to (e),

a council must hold a public hearing with respect to the proposed bylaw in accordance with section 230 after giving notice of it in accordance with section 606.

- (2)** Despite subsection (1), if a proposed development relates to more than one proposed bylaw referred to in subsection (1), the council may hold a single public hearing.
- (3)** Despite subsection (1), in the case of a public hearing for a proposed bylaw adopting or amending an intermunicipal development plan,
 - (a) councils may hold a joint public hearing to which section 184 does not apply, and
 - (b) municipalities may act jointly to satisfy the advertising requirements of section 606.
- (4)** In the case of an amendment to a land use bylaw to change the district designation of a parcel of land, the municipality must, in addition to the requirements of subsection (1),
 - (a) include in the notice described in section 606(2)
 - (i) the municipal address, if any, and the legal address of the parcel of land, and
 - (ii) a map showing the location of the parcel of land.
 - (b) give written notice containing the information described in clause (a) and in section 606(6) to the assessed owner of that parcel of land at the name and address shown on the assessment role of the municipality, and

- (c) give a written notice containing the information described in clause (a) and in section 606(6) to each owner of adjacent land at the name and address shown for each owner on the assessment role of the municipality.
- (5) If the land referred to in subsection (4)(c) is in another municipality, the written notice must be given to that municipality and to each owner of adjacent land at the name and address shown for each owner on the tax roll of that municipality.
- (6) Despite subsection (1), a bylaw referred to in subsection (1) may be amended without giving notice or holding a public hearing if the amendment corrects clerical, technical or grammatical or typographical errors and does not materially affect the bylaw in principle or substance.
- (6.1) Subsection (1)(f) does not apply in respect of a proposed bylaw amending a statutory plan or land use bylaw to specify the purposes of a community services reserve.
- (7) In this section,
 - (a) “adjacent land” means land that is contiguous to the parcel of land that is being re-designated and includes
 - (i) land that would be contiguous if not for a highway, road, river or stream, and
 - (ii) any other land identified in the land use bylaw as adjacent land for the purpose of notifications under this section;
 - (b) “owner” means the person shown as the owner of land on the assessment roll prepared under Part 9.
- (8) If an ALSA regional plan requires a council to pass a bylaw referred to in this section, the council must,
 - (a) consider whether, in view of the requirement in the ALSA regional plan, consultation is necessary, desirable or beneficial, and
 - (b) decide whether or not to proceed with consultation.
- (9) If a council decides under subsection (8) that consultation is neither necessary nor desirable or would not be beneficial, subsections (1) to (7) do not apply to the council in respect of the bylaw concerned.

Designation of direct control districts

641(1) The council of a municipality that has adopted a municipal development plan, if it wishes to exercise

particular control over the use and development of land or buildings within an area of the municipality, may in its land use bylaw designate that area as a direct control district.

- (2) If a direct control district is designated in a land use bylaw, the council may, subject to any applicable statutory plan, regulate and control the use or development of land or buildings in the district in any manner it considers necessary.
- (3) In respect of a direct control district, the council may decide on a development permit application or may delegate the decision to a development authority with directions that it considers appropriate.

ATTACHMENT #3 – SMOKY LAKE COUNTY BYLAW NO. 1282-15:

Planning and Development: Public Hearing Procedures

**SMOKY LAKE COUNTY
IN THE PROVINCE OF ALBERTA
BYLAW NO. 1282-15**

A BYLAW OF SMOKY LAKE COUNTY IN THE PROVINCE OF ALBERTA FOR THE PURPOSE OF ESTABLISHING PUBLIC HEARING PROCEDURES FOR PLANNING AND DEVELOPMENT HELD BY THE COUNCIL OF SMOKY LAKE COUNTY.

WHEREAS, Sections 184, 197, 198, 200, 230 and 606 inclusive of the *Municipal Government Act*, and amendments thereto, deal with public hearing and meetings of Council.

WHEREAS, the purpose of this bylaw is to meet the statutory duty to provide members of the public with the opportunity to be heard before Council.

WHEREAS, the Council of Smoky Lake County, wishes to develop a clear and concise procedure for organizing and conducting public hearings, and establishing the process for handling oral and written submissions with regards to public hearings for planning related bylaws or bylaw amendments.

NOW THEREFORE, under the authority and pursuant to the provisions of the *Municipal Government Act*, and by virtue of all other enabling powers, the Municipal Council of Smoky Lake County, duly assembled, enacts as follows:

1. TITLE:

- 1.1 This Bylaw shall be known as the “**Planning and Development: Public Hearing Procedures**”.

2. DEFINITIONS:

- 2.1 **Advertising:** notice of the public hearing regarding a bylaw, or amendment must be (a) published at least once a week for 2 consecutive weeks in at least one newspaper or other publication circulating in the area to which the proposed bylaw relates, or in which the hearing is to be held, and (b) mailed or delivered to residences within 500m of the subject property to which the proposed bylaw relates.
- 2.2 **Chairperson:** shall be the Reeve appointed by Council at the time of the hearing.
- 2.3 **Notice:** a notice must contain (a) a statement of the general purpose of the proposed public hearing, (b) the address where a copy of the proposed bylaw and any document relating to it or to the meeting or public hearing may be inspected, and (c) the date, time and place where the public hearing will be held.
- 2.4 **Public Hearing:** is a hearing whereby Council hears from members of the public on a proposed bylaw or resolution.
- 2.5 **Public Hearing Background Report:** is a report prepared by the Planning and Development Manager and presented at the beginning of the public hearing. The Report shall include the applicant's/landowner's name, the proposed bylaw number, the legal description of the subject property and the requested amendment. The Report must also contain, the date when first reading was given, the date of advertisement of the public hearing, the intent of the amendment, the size and location of the parcel of land, the nature of the use or development proposed by the developer, and the appropriate statutory plan (if any) and Land Use Bylaw sections.
- 2.6 **Public Participation:** any person who believes their interest will be affected by a proposed bylaw or resolution has an opportunity to address Council at a public hearing in an orderly fashion as determined by the Chairperson. Individuals are encouraged to submit written submissions to the Attention of the Planning & Development Manager for Smoky Lake County at pd@smokylakecounty.ab.ca, as set out in the Guidelines.
- 2.7 **Record of Public Hearing:** the proceedings of public hearings shall be recorded in writing. All written letters of correspondence shall be copied into the written record, and oral submissions shall be summarized in the written record.
- 2.8 **Secretary:** shall be the Chief Administrative Officer or designate.
- 2.9 **Timing of public hearing:** means that County Council must hold a public hearing before second reading of the bylaw.

- 2.10 Voting:** in accordance with Section 184 of the Municipal Government Act: Abstention from voting on a matter discussed at public hearing. When a public hearing on a proposed bylaw is held, a councillor a) must abstain from voting on subsequent readings of the bylaw if the councillor was absent from all of the public hearing, and b) may abstain from voting on subsequent readings of the bylaw if the councillor was only absent from a part of the public hearing.

3. GUIDELINES:

- 3.1** Staff will manage written correspondence received (by letter or email) for a public hearing as follows:
- 3.1.1** Correspondence received prior to the bylaw being considered for 1st reading:
- If addressed to Staff, retain in the file.
 - If addressed to Council, circulate to Council as general correspondence.
 - Does not form part of the public hearing record.
- 3.1.2** Correspondence received after 1st Reading and/or authorization to proceed to public hearing and prior to public hearing:
- Compiled and made available for public review at the public hearing (included in the public hearing background).
 - Forms part of the public hearing record.
 - Deadline for receipt of correspondence set for Wednesday at 12 noon, one week prior to the County Council meeting at which the public hearing will be held. This is to ensure that there is sufficient time to include the correspondence in Council's agenda package.
- 3.1.3** Correspondence received after deadline in subsection 3.1.2:
- Recommendation is for the public to attend the meeting to present their submission.
 - Forms part of the public hearing record.
- 3.1.4** Correspondence received after the closing of the public hearing:
- Cannot be received by Council.
 - Does not form part of the public hearing record.

4. PROCEDURES:

- 4.1** Smoky Lake County will conduct public hearings as per Section 230 of the *Municipal Government Act*.
- 4.2** Smoky Lake County will ensure the advertising/notification of public hearing is as per Section 606 of the *Municipal Government Act*.
- 4.3** Landowners within a 500m radius of the subject land(s) will be mailed or delivered a written notice of a public hearing (if the amendment relates to a specific property).
- 4.4** The Planning and Development Manager shall prepare a Public Hearing Background report consisting of the proposed bylaw number, applicant/owner, land location, requested amendment, and the background. The background information must contain, when first reading was given, the date of advertisement, the intent of the amendment, the size and location of the parcel of land, what the developer is proposing to do, and the appropriate Land Use Bylaw sections. The standardized form is attached forming **Schedule A: Public Hearing Background**.
- 4.5** After the agenda package is released to County Council, staff may circulate the Public Hearing Background to members of the public, the applicant and/or landowner.

At the public hearing:

- 4.6** A sign-in sheet will be provided for all public hearings. The standardized form is attached forming **Schedule B – Public Hearing Sign In Sheet**. Anyone attending the hearing who wishes to speak must sign in and enter their mailing or email address on the sheet. Attendees who wish to receive a copy of the minutes following the hearing must sign in and enter their mailing address on the sheet. Those who wish to oppose

the Bylaw will speak first, followed by those who support the Bylaw. Speakers will be called upon by the Chairperson in the order that they appear on the list. The Chairperson shall allow any affected person who has not signed the sign in sheet to speak after all those who have signed in have been heard.

- 4.7 Those in attendance at the public hearing will refrain from applause or other expressions of emotion whether in favour of, or opposition to, any particular submission or argument. Inappropriate language, outbursts or criticisms aimed at individuals or groups is not permitted.
- 4.8 If a group of persons or neighbourhood is at the meeting to present the same case, they should designate a speaker to represent them.
- 4.9 Presentations should be brief and communicate concerns that relate only to the bylaw before Council. Speakers should not repeat matters or information raised by others, except to express support. Presentations are limited to a maximum of 10 minutes per speaker unless a majority vote of Council agrees to extend this time limit for a speaker. Questions asked by Council members may extend the time limit.
- 4.10 Council's role at a public hearing is to listen to the public. Council does not debate or challenge the comments being offered, but may question what they hear to make sure they understand what is being said. All comments presented to Council should address the merits of the bylaw before Council.
- 4.11 The Planning and Development Manager will make available a Public Hearing Script for the Chairperson. A standardized form is attached forming **Schedule C: Public Hearing Script**.

After the public hearing is closed:

- 4.12 After the public hearing has been closed upon declaration by the Chairperson, Council may consider the bylaw at that meeting (if applicable), at the next meeting, or a specified meeting of Council, with or without a request for further information from staff. No other submission from the public or applicant may be received by Council on the bylaw.
- 4.13 Upon conclusion of the public hearing, Council may discuss the proposed bylaw. Council discussion usually starts with a motion from a member of Council to:
 - a) consider 2nd reading and/or 3rd reading of the proposed bylaw, or
 - b) defeat 2nd reading of the proposed bylaw, or
 - c) defer further readings of the proposed bylaw to a future Council meeting, or
 - d) approve the proposed bylaw in an amended form.

Some or all members of Council may comment on the proposed bylaw or resolution, providing reasons why they agree or disagree with the motion. Additionally, Council members may ask for clarification or technical advice from the applicant and/or staff in response to the possible decision Council may be considering.

Note: A separate Request For Decision is not required if County Council considers further readings of the bylaw at the same meeting as the public hearing, as the contents (attachments) would be available for review in the Public Hearing Background.

- 4.14 If Council so chooses, it may recess after holding a public hearing, although during this period Council members cannot discuss the bylaw with the applicant or the public. This is to prevent Council receiving information that would otherwise be unavailable to either the applicant or the public.
- 4.15 If Council votes to approve the proposed bylaw (with or without amendments), the approval commonly requires that various reports or steps (ie. Geotechnical Report, Water Study, Historical Resources Act Clearance, Storm water Management Plan, Traffic Impact Assessment etc.) must be fulfilled by an applicant before the Subdivision Authority can consider a Subdivision Application (if applicable).

5. EFFECTIVE DATE:

5.1 This Bylaw comes into effect after third and final reading.

READ A **FIRST TIME** IN COUNCIL THIS 25th DAY OF June, AD 2015.

READ A **SECOND TIME** IN COUNCIL THIS 25th DAY OF June, AD 2015.

READ A **THIRD AND FINAL TIME** IN COUNCIL THIS 25th DAY OF June, AD 2015.

Ron Bobocel
Reeve

S E A L

Cory Ollikka
Chief Administrative Officer

SCHEDULE 'A': PUBLIC HEARING BACKGROUND



Public Hearing Date: _____
Public Hearing Time: 9:15 a.m.

PUBLIC HEARING BACKGROUND

PROPOSED BYLAW NO.: XXXX-XX

APPLICANT: _____

PROPOSAL: (Insert text from the bylaw)

BACKGROUND:

- The application was submitted on _____.
- Agencies were sent letters via mail on _____.
- Bylaw XXXX-XX was presented for 1st Reading on _____.
- Neighbouring landowners within +/- 500m radius were sent letters via mail on _____.
- A notice has also been posted on the County's website since _____.
- The Public Hearing Notices were advertised in the Smoky Lake Signal and Redwater Review the weeks of _____ and _____. The proposed bylaws were advertised and notice has been provided in accordance with the applicable legislation.
- This hearing has been scheduled to obtain public input on proposed Bylaw in accordance with Section 230 of the Municipal Government Act.
- Intention of Developer.
- The letters below have been received from the public:
 1. Name, Date Received.

ATTACHMENTS:

1. Draft Bylaw XXXX-XX with Schedules
2. Application
3. General Location Map
4. Relevant Legislation
5. Certificate of Title (if applicable)
6. Copies of letters from the public

SCHEDULE 'B': PUBLIC HEARING SIGN IN SHEET

SMOKY LAKE COUNTY
PUBLIC HEARING - PROPOSED BYLAW _____: _____
DATE AND TIME

Name (Print)	Signature	Mailing Address & Legal Description
OPPOSED TO PROPOSED BYLAW:		
Name (Print)	Signature	Mailing Address & Legal Description
IN SUPPORT TO PROPOSED BYLAW:		

**Your name will be called upon by the chairperson to speak to the proposed bylaw.

SCHEDULE 'C': PUBLIC HEARING SCRIPT

REEVE'S SCRIPT FOR PUBLIC HEARING

DATE AND TIME

(BYLAW _____: _____)


Action	✓	Statements
1.0 Opening		
Reeve:		<p>I, _____, the Reeve for the Smoky Lake County will proceed with discussion on proposed bylaw _____.</p> <p>The Public Hearing open at _____ (any time after 9:15 a.m. <u>not</u> before)</p> <p>Planning advice will be provided by _____ and/or _____, Planning and Development Manager.</p> <p>All persons wishing to be heard at this public hearing should sign in on the sign in sheet (in the foyer) giving their name.</p> <p>Persons who do not sign in shall speak only after all those who signed in have given their presentations. We ask that anyone who wishes to speak but has not yet signed in, please sign in now.</p> <p>(Pause to allow people to sign in if they have not already done so).</p>
Reeve:		I would, at this time, ask the CAO to confirm whether or not this Public Hearing has been advertised and notice has been provided in accordance with the applicable legislation.
Secretary:		Yes, it has Mr. Charman.
Reeve:		I would ask the CAO to summarize the purpose of the Hearing.
Secretary:		<p>The purpose of this hearing is for the Council of Smoky Lake County to obtain public input in favour and opposed to proposed Bylaw _____.</p> <p>Read into record the Public Hearing Background.</p>
Reeve:		<p>The ground rules of the hearing and the order of speaking will be:</p> <ul style="list-style-type: none"> a) planner and/or planning staff will speak first to outline facts and present her recommendation on the proposed bylaw (if necessary), b) members of the public, who have signed in will be given the opportunity to speak in the order they signed in, c) anyone else, who did not sign in will be given the opportunity to speak, d) planner and/or planning staff will be given the opportunity to present closing remarks or address any of the issues presented, e) Councillors will be given the opportunity to ask questions, f) Council will then end the Hearing and consider the information received at the public hearing, g) only Councillors may ask questions of speakers during the Hearing. If any persons wish to ask questions of a speaker, they must ask Council to ask the question on their behalf during their presentation, and Council will only ask the


Action	✓	Statements
		question if a Councillor wishes to have an answer. h) Council will consider the representations made regarding the bylaw and any other matter Council considers appropriate.
2.0 Staff Presentation		
<i>The Reeve announces:</i>		Before hearing from the public, I would ask _____ (County's planner) and/or planning staff to present a report on the proposed bylaw.
<i>After the Planner/ staff representative is finished, the Reeve asks:</i>		Does Council have any questions or points of clarification they wish to ask of the planner and/or planning staff?
3.0 Public Presentations via Written Submissions		
<i>The Reeve announces:</i>		Before hearing from the public present today, I would ask _____ (County's planner) and/or planning staff to advise of any written submissions received. (Read all written submissions into record).
<i>After the Planner is finished the Reeve asks:</i>		Does Council have any questions or points of clarification they wish to ask of the planner and/or planning staff?
4.0 Public Presentations at the Public Hearing		
<i>Then announce:</i>		I will now call upon persons signed up on the sign-in sheet whom are in opposition to the proposed bylaw . Please state your <u>name</u> for the record. Please note that each party wishing to speak will have only one opportunity to do so, and their time will be limited to 10 minutes. Council Members may ask presenters questions for the purpose of clarifying the speaker's comments. Council will not debate this matter during the hearing. The decision(s) regarding whether or not to approve the bylaw(s) further readings will be dealt with later in the meeting.
<i>Public – Opposed of proposed Bylaw:</i>		Record names here: _____ _____ _____
<i>After each speaker is finished the Chair asks Council:</i>		Does Council have any questions or points of clarification?
<i>Reeve:</i>		I will now call upon persons signed up on the sign-in sheet whom are in support of the proposed bylaw . Please state your <u>name</u> for the record. Please note that each party wishing to speak will have only one opportunity to do so, and their time will be limited to 10 minutes. Council Members may ask presenters questions for the purpose of clarifying the speaker's comments. Council will not debate this matter during the hearing. The decision(s) regarding whether or not to approve the bylaw(s) further readings will be dealt with later in the meeting.
<i>Public – In</i>		Record names here:


Action	✓	Statements
<i>Favour of proposed Bylaw:</i>		<hr/> <hr/> <hr/>
<i>After each speaker is finished the Chair asks Council:</i>		Does Council have any questions or points of clarification?
<i>After all who signed in have spoken, say:</i>		Is there anyone else who has not spoken and wishes to speak?
<i>After each speaker the Chair asks Council:</i>		Does Council have any questions or points of clarification?
5.0 Questions and Answers		
<i>Following all comments from the public, the Reeve asks Council:</i>		At this time, does any Council member have any additional questions of any speaker or of the staff or planner?
6.0 Closing Remarks		
<i>The Reeve announces:</i>		<p>There being no further presentations. I would like to thank all presenters for their comments. Council will take your comments into consideration when deciding on this matter.</p> <p>I declare the public hearing on proposed bylaw _____ closed at _____.</p>

ATTACHMENT #4 – NOTICE OF PUBLIC HEARING

Smoky Lake County
NOTICE OF PUBLIC HEARING
on Proposed Development Permit DP-024-24 for a
Supportive Living Facility







TAKE NOTICE THAT in accordance with sections 216.4 & 606 of the *Municipal Government Act*, the Council of Smoky Lake County is giving consideration of Development Permit Application DP-024-24, for the development of a Supportive Living Facility, proposed to be located on the lands legally described as River Lot 15, Victoria Settlement.

A Public Hearing will be held in relation to Development Permit Application DP-024-24, for a Supportive Living Facility, both in-person and via videoconference on Thursday, July 18, 2024, at 9:00 a.m. (or as soon as practical thereafter) at: Smoky Lake County Council Chambers, 4612 McDougall Drive, Smoky Lake, AB T0A 3C0 or online: <https://video.businessconnect.telus.com/join/640384789> Meeting ID: 640384789 or via phone: 780-666-2345

In-person Speakers:
If you intend on participating in person, you are encouraged to pre-register for the Public Hearing by contacting Legislative Services at 780-656-3730.

Speakers participating through Telus Business Connect videoconference:
If you wish to speak at the Public Hearing via videoconference, you are asked to register 24 hours prior to the opening of the Public Hearing by contacting Legislative Services at 780-656-3730. This is to ensure that virtual participants receive instructions to access the videoconference.



Requirements for all Speakers:
All speakers will be given a maximum of 10-minutes to speak and are encouraged to provide a written copy of their submission in advance of the Public Hearing.

Written Submissions:
All interested parties are encouraged to express their views by providing a written submission to Legislative Services by email at patti.priest@smokylakecounty.ab.ca, by **July 15, at 4:00 p.m. Mountain Time**.

Persons wishing to view the Public Hearing agenda, including the Development Permit application and proposed conditions, are invited to view the Application by visiting <https://www.smokylakecounty.ab.ca/p/meetings> and following the link to the July 18th, 2024 Public Hearing.

Questions? Contact:
Jordan Ruegg, Planning & Development Manager
Smoky Lake County at 780-656-3730, 780-650-5207 or jruegg@smokylakecounty.ab.ca

Freedom of Information and Protection of Privacy Act: By submitting comments on this bylaw, either orally or in writing, the personal information you provide may be recorded in the minutes of the Public Hearing, or otherwise made public. This information is collected in line with section 33(c) of the Freedom of Information and Protection of Privacy Act. If you have any questions, please contact the Smoky Lake County Access and Privacy Officer at 4612 McDougall Drive Box 310, Smoky Lake, AB T0A 3C0, 780-656-3730, or county@smokylakecounty.ab.ca.

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: [Handwritten Signature] LEWIS SEMASHKEWICH

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 _____ ¼ 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 450 M
 - 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

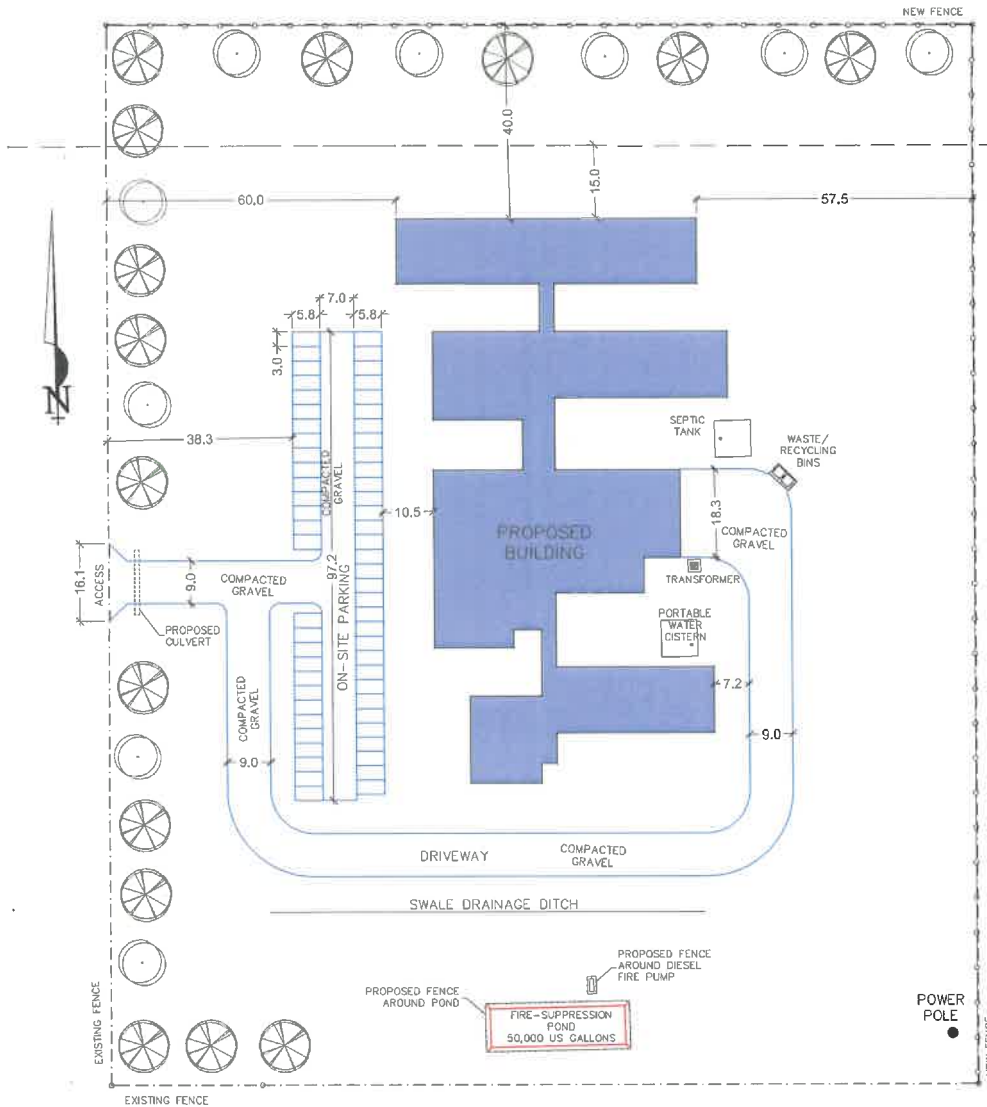
OFFICE USE ONLY

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

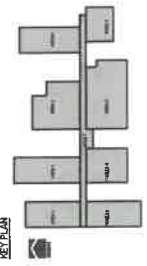
SEPTIC AND DOMESTIC WATER TANKS
 EACH NEED TO BE 4237 CU FT OR
 ABOUT 120,000LITERS FOR A WEEK OF
 STORAGE



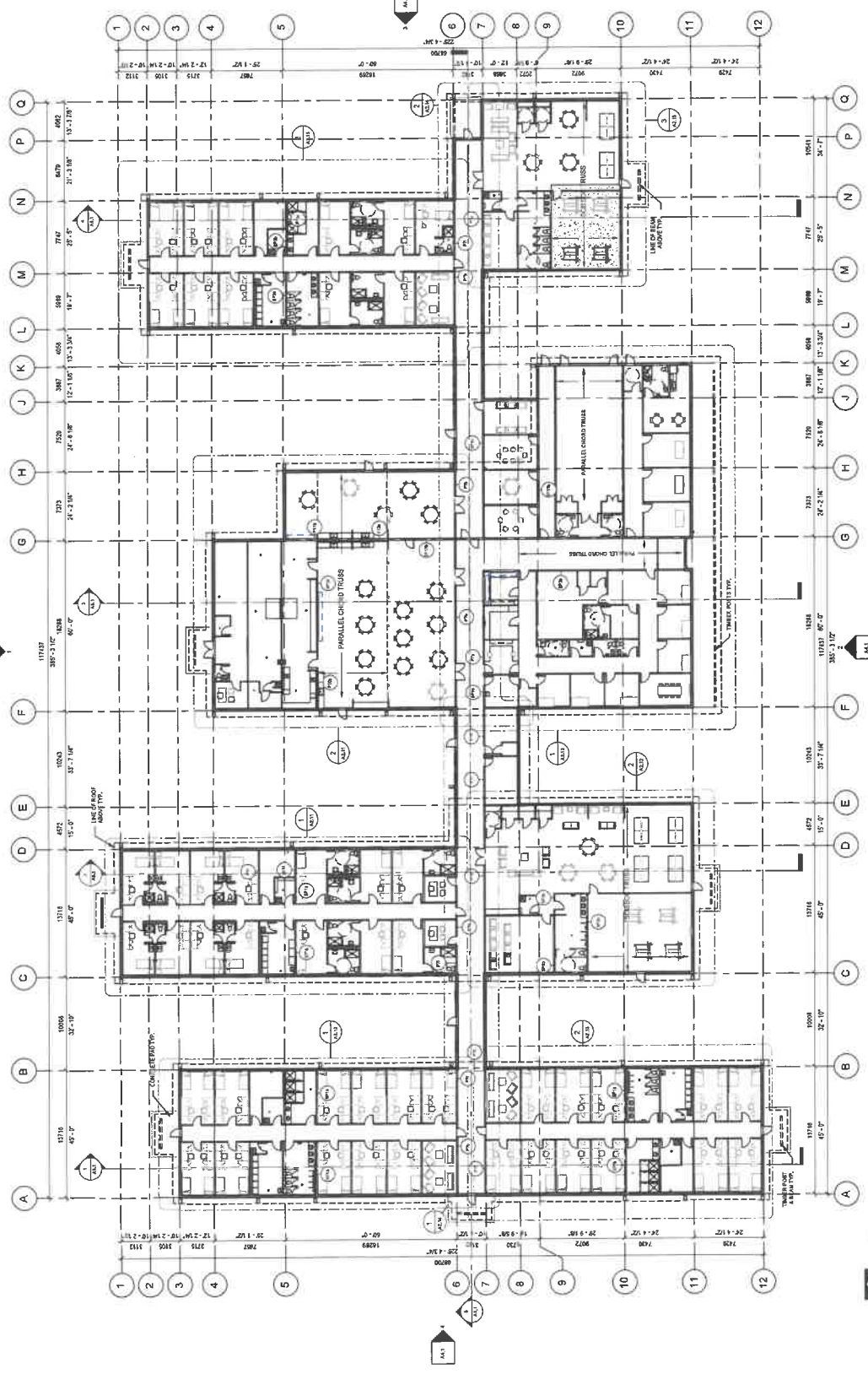
GOLDEN WILLOW
 SALIX ALBA 'VITELLINA'



COLUMNAR WHITE PINE
 PINUS STROBUS 'FASTIGIATA'



<p>MES ARCHITECTURE INC. REGISTERED ARCHITECTS IN THE PROVINCE OF ALBERTA</p>	<p>List of Consultants</p>	<p>MELEWKA STRUCTURES & DESIGN Melewka Structures & Design SANDY LAKE, ALBERTA</p>	<p>METS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE</p>	<p>Project Number: 2406-17 Issued For: Planning Issued For: Development Permit Issued For: Building Permit Revisions: 1 FOR REVIEW</p>	<p>OVERALL FLOOR PLAN</p>	<p>Project Number: 2406-17 Date: 2024.08.19 Drawn By: DJ Checked By: [Blank] Created By: [Blank]</p>	<p>DO NOT SCALE DRAWINGS</p>	<p>A2.1</p>
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1 OVERALL FLOOR PLAN
SCALE: 1/8" = 1'-0"

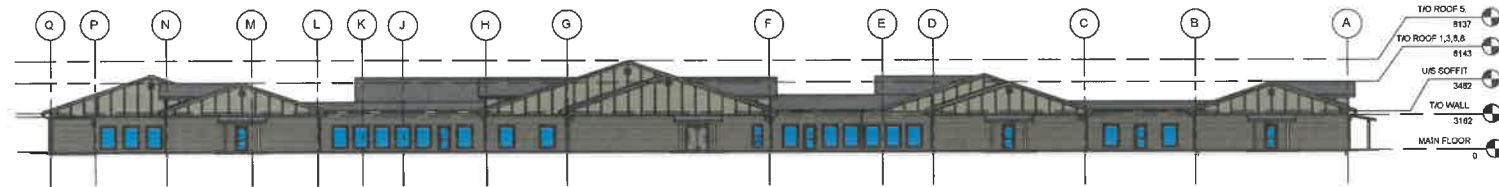
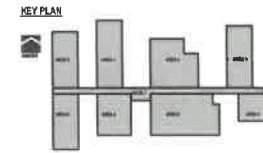


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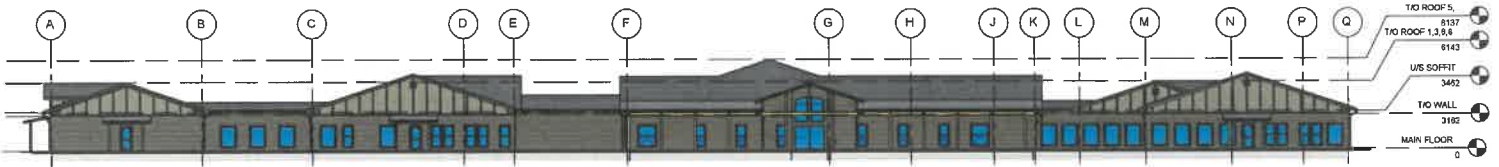


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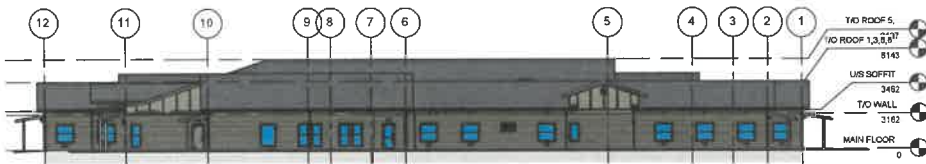
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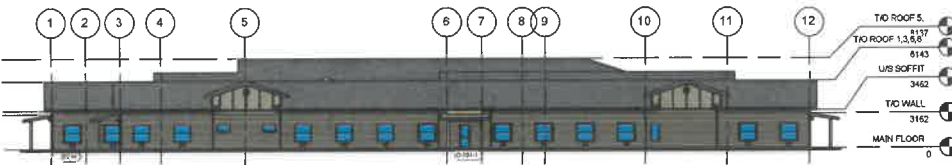
1 BLDG NORTH ELEVATION
SCALE: 1:200



2 BLDG SOUTH ELEVATION
SCALE: 1:200



3 BLDG EAST ELEVATION
SCALE: 1:200



4 BLDG WEST ELEVATION
SCALE: 1:200

MES ARCHITECTURE LTD.
P. 35366, St. Albert, AB, T8N 6P7
ISSUED PURSUANT TO THE
ARCHITECTS ACT OF ALBERTA

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transmitted, or otherwise disclosed in any
manner without the prior written consent
of MES Architecture Ltd.

List of Consultants	
Structural	
Mechanical	
Electrical	
Civil	Zelic Consulting
Landscaping	

MELEWKA STRUCTURES & DESIGN

SMOYLY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

Issue		
Issued for Pre-Eng		
Issued for Development Permit		
Issued for Building Permit		
Revisions		
1 FOR REVIEW		24-05-17

BUILDING ELEVATIONS

Project number	MNA-001
Date	2024.06.10
Drawn by	Author
Checked by	Checker

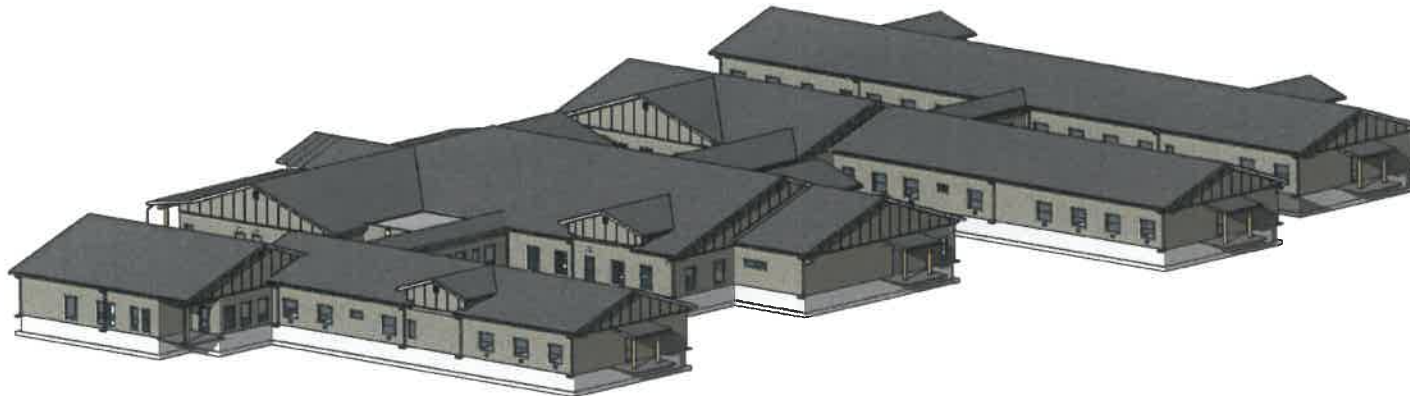
DO NOT SCALE DRAWINGS

A4.1

2024.06.10 10:58:40 AM



1 BUILDING PERSPECTIVE
A4.2 SCALE



2 BUILDING PERSPECTIVE
A4.2 SCALE

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

MES is a Meslewa Inc. Ltd.
All drawings and specifications are the intellectual property
of Meslewa Inc. Ltd. and shall not be used or copied for any other project without the
written consent of Meslewa Inc. Ltd. All drawings and specifications
shall remain the property of Meslewa Inc. Ltd. and shall not be used for any other project without the
written consent of Meslewa Inc. Ltd.

List of Consultants	
Structural	
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Electrical	
Civil	Zella Consulting
Landscaping	

MELEWKA STRUCTURES & DESIGN



SMOXY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

Revisions	
1	FOR REVIEW
	24-05-17

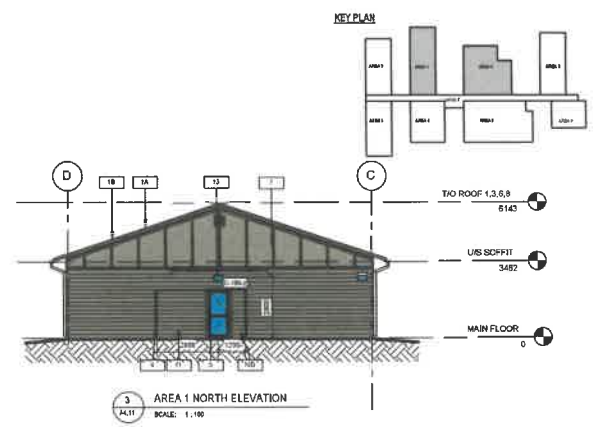
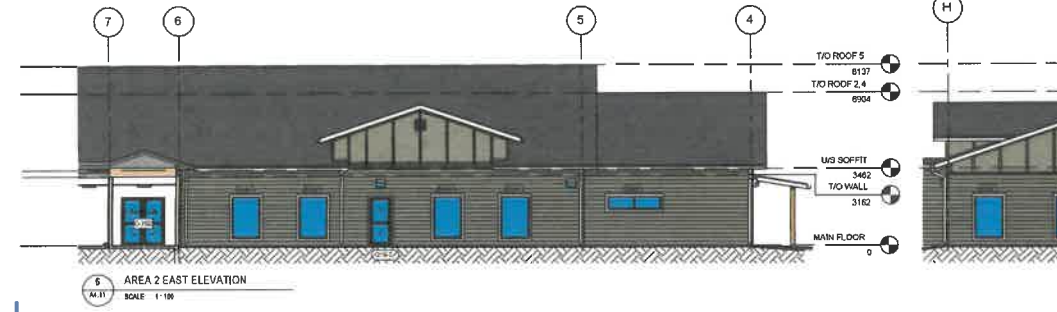
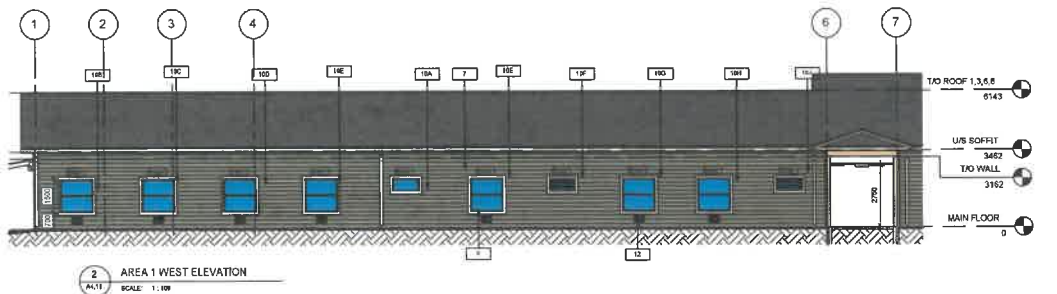
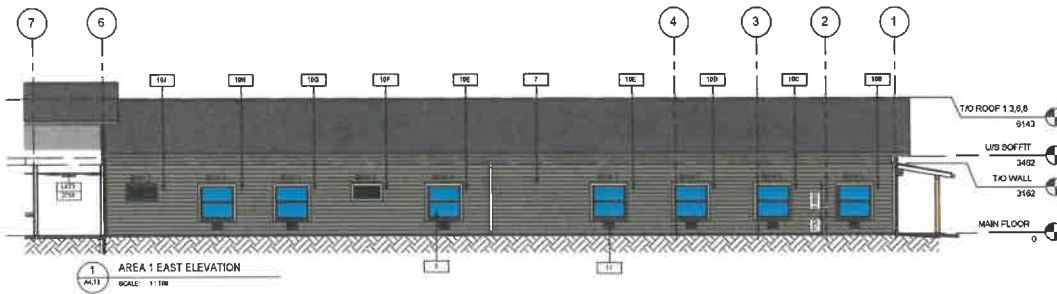
BUILDING PERSPECTIVES

Project Number	MNA-001
Date	2024.06.18
Drawn by	Author
Checked by	Checker

DO NOT SCALE DRAWINGS

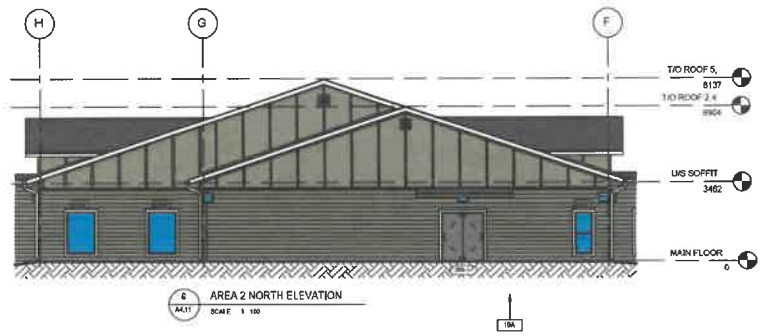
A4.2

2024-05-18 10:55:56 AM



KEYNOTE LEGEND

KEYNOTE NO.	KEYNOTE TEXT
1A	OPTION 1 SLOPED ASPHALT SHINGLE ROOF - COLOUR CASTLE 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	
4	PRE-FINISHED METAL FLASHING - COLOUR WHITE
5	INSULATED HOLLOW METAL DOOR AND FRAME - COLOUR BLACK
6	BLACK ANODIZED ALUMINUM WINDOW CW INSULATED TRIPLE GLAZED ARGON FILLED GLASS UNIT
7	FIBRE CEMENT HORIZONTAL LAP SIDING - COLOUR MUDFLATS GREEN OR SIMILAR
8A	
8B	
10A	
10B	
10C	
10D	
10E	
10F	
10G	
10J	
11	SIAMENSE CONNECTION - SEE MECHANICAL
12	MECHANICAL EQUIPMENT - SEE MECHANICAL
13	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL



MES ARCHITECT P.C. LTD.
19 SUMMIT AVENUE, TOWER
155000 PERFORMING TO THE
ARCHITECTS ACT OF ALBERTA

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Cost	Zaha Consulting
Landscaping	

MELEWKA STRUCTURES & DESIGN

SMOKEY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

Notes

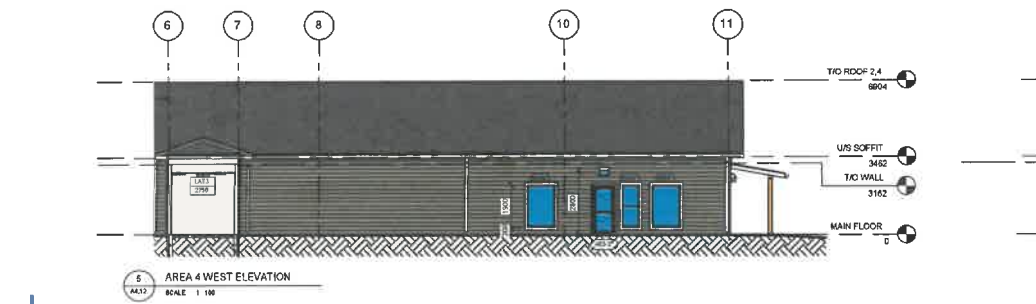
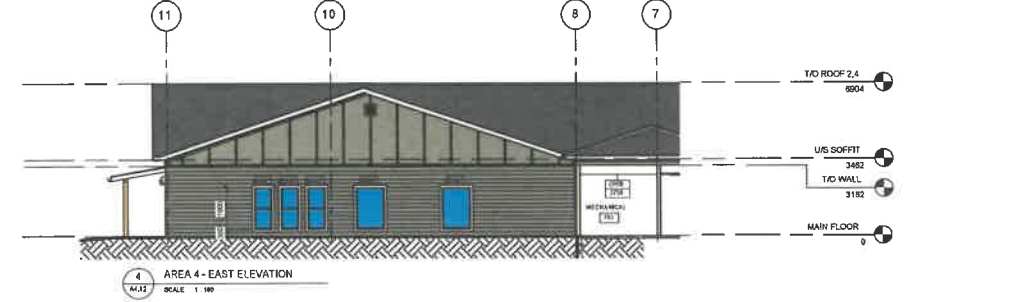
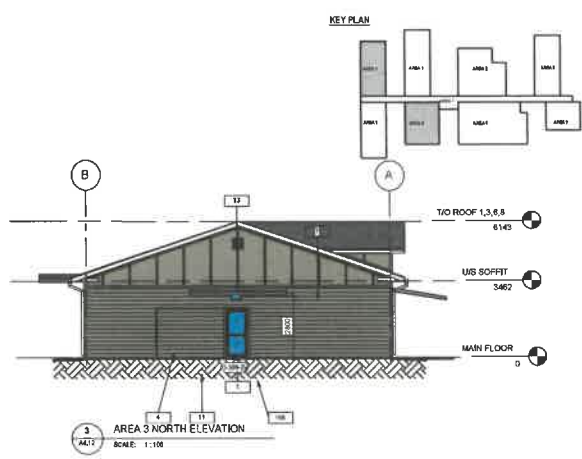
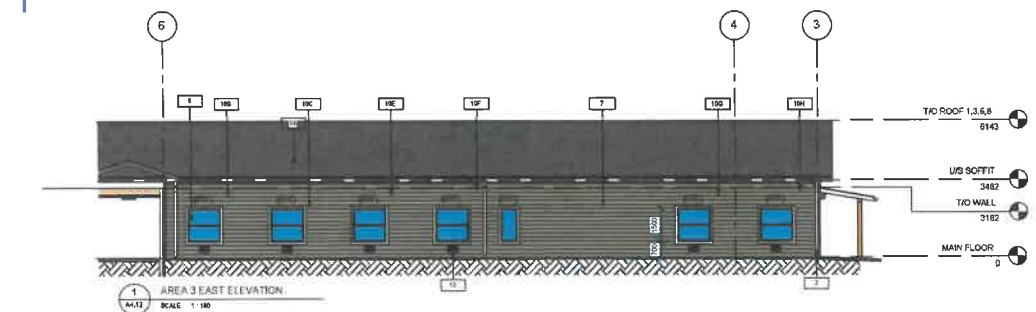
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Approved for Building Permit	
Revisions	
1 FOR REVIEW	24-05-17

AREA 1 & 2 BUILDING ELEVATIONS

Project number	MNA-001
Date	2024/06/13
Drawn by	Author
Checked by	Checker

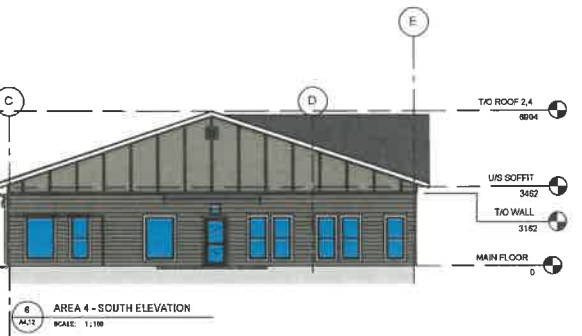
DO NOT SCALE DRAWINGS

A4.11



KEYNOTE LEGEND

KEYNOTE NO.	KEYNOTE TEXT
1A	OPTION 1 SLOPED ASPHALT SHINGLE ROOF - COLOUR CASTLE GREY OR SIMILAR
1B	OPTION 2 SLOPED PREFINISHED STAINLESS SEAM METAL ROOF - COLOUR DARK GREY
2	PREFINISHED METAL GUTTER AND DOWNSPOUT - COLOUR WHITE
3A	184mm FIBRE CEMENT SMOOTH FASCIA - COLOUR WHITE
3B	
4	PREFINISHED METAL FLASHING - COLOUR WHITE
5	INSULATED HOLLOW METAL DOOR AND FRAME - COLOUR BLACK
6	BLACK ANODIZED ALUMINUM WINDOW CAV INSULATED TRIPLE GLAZED ARGON FILLED GLASS UNIT
7	FIBER CEMENT HORIZONTAL LAP SIDING - COLOUR MUDFLATS GREEN OR SIMILAR
8A	
8B	
10A	
10B	
10C	
10D	
10E	
10F	
10G	
10H	
10J	
10K	
11	SIAMESE CONNECTION - SEE MECHANICAL
12	MECHANICAL EQUIPMENT - SEE MECHANICAL
13	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL



MES ARCHITECTURE LTD.
FIGURE No. A4.12/12
ISSUED PURSUANT TO THE ARCHITECTS ACT OF ALBERTA

DESIGNED BY: MELEWKA STRUCTURES & DESIGN
DRAWN BY: MELEWKA STRUCTURES & DESIGN
CHECKED BY: MELEWKA STRUCTURES & DESIGN
DATE: 2024-05-19

List of Consultants

Structural	
Mechanical	
Electrical	
Cost	
Other Consulting	

MELEWKA STRUCTURES & DESIGN

SMOKEY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

Revisions

1	FOR REVIEW	24-05-17
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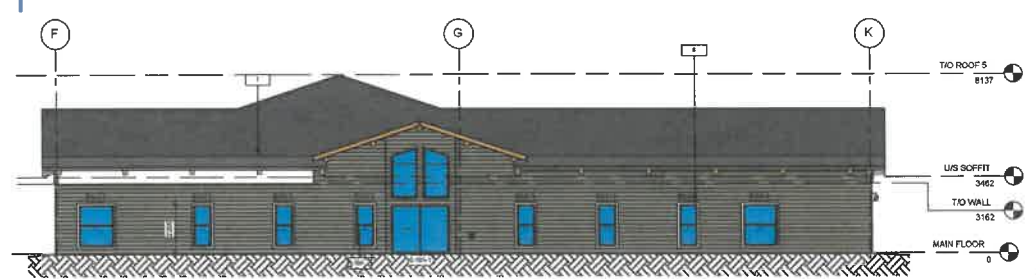
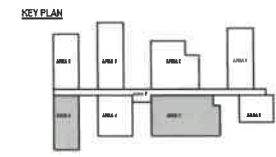
AREA 3 & 4 BUILDING ELEVATIONS

Project information

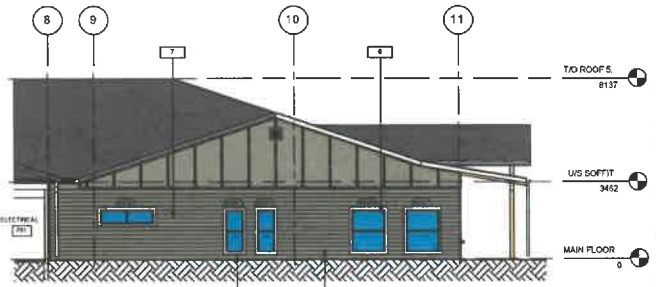
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Date	2024-05-19
Drawn by	Author
Checked by	Checker

DO NOT SCALE DRAWINGS

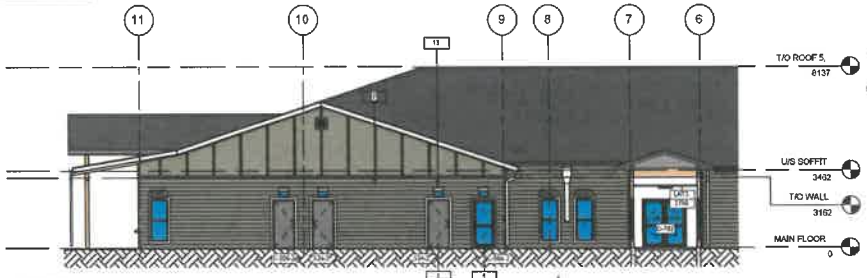
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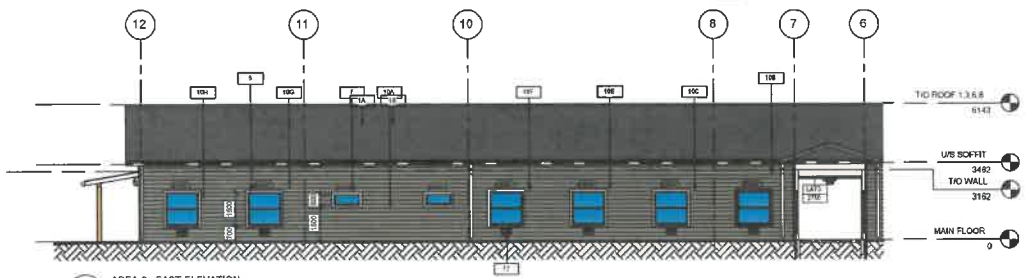
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SCALE: 1:100



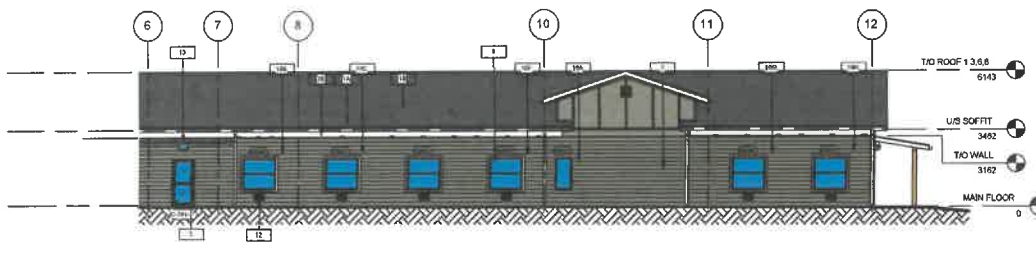
3 AREA 5 - WEST ELEVATION
SCALE: 1:100



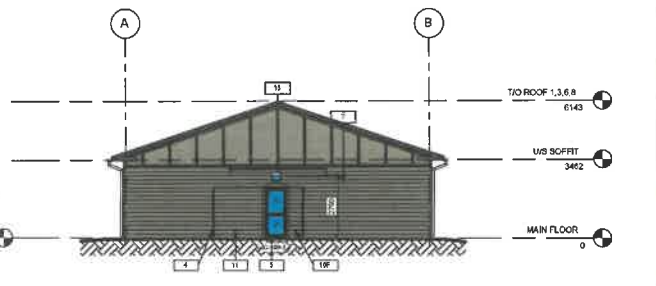
2 AREA 5 - EAST ELEVATION
SCALE: 1:100



4 AREA 6 - EAST ELEVATION
SCALE: 1:100



5 AREA 6 - EAST ELEVATION
SCALE: 1:100



6 AREA 6 - SOUTH ELEVATION
SCALE: 1:100

KEYNOTE LEGEND	
KEYNOTE NO.	KEYNOTE TEXT
1A	OPTION 1 SLOPED ASPHALT SHINGLE ROOF - COLOUR CASTLE 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	
4	PRE-FINISHED METAL FLASHING - COLOUR WHITE
5	INSULATED HOLLOW METAL DOOR AND FRAME - COLOUR BLACK
6	BLACK ANODIZED ALUMINUM WINDOW G/W INSULATED TRIPLE GLAZED ARGON FILLED GLASS UNIT
7	FIBER CEMENT HORIZONTAL LAP SIDING - COLOUR MUDFLATS GREEN OR SIMILAR
8A	
8B	
10A	
10B	
10C	
10D	
10E	
10F	
10G	
10H	
10J	
11	SIAMESE CONNECTION - SEE MECHANICAL
12	MECHANICAL EQUIPMENT - SEE MECHANICAL
13	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL

MES ARCHITECTURE P.C.,
REGISTERED PROFESSIONAL ARCHITECTS
REGISTERED UNDER THE ARCHITECTS ACT OF ALBERTA

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SAKIMY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

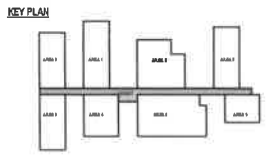
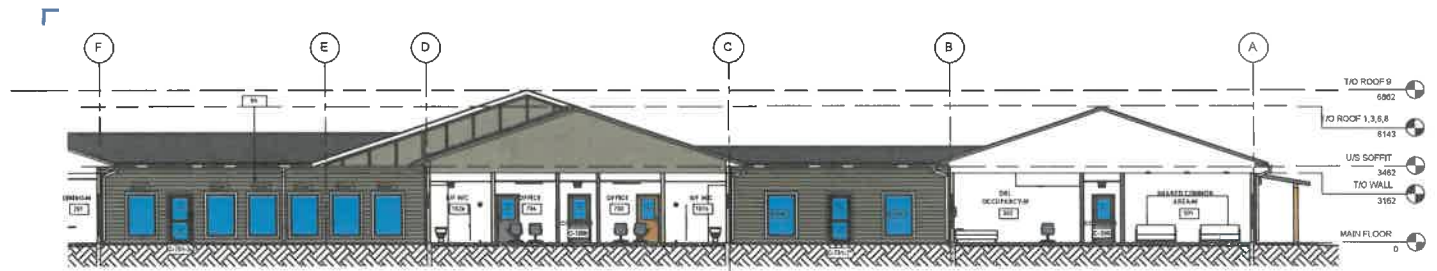
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Issued For Disinformed Permit	
Issued For Building Permit	
Revisions	
1 FOR REVIEW	24-05-17

AREA 5 & 6 BUILDING ELEVATIONS

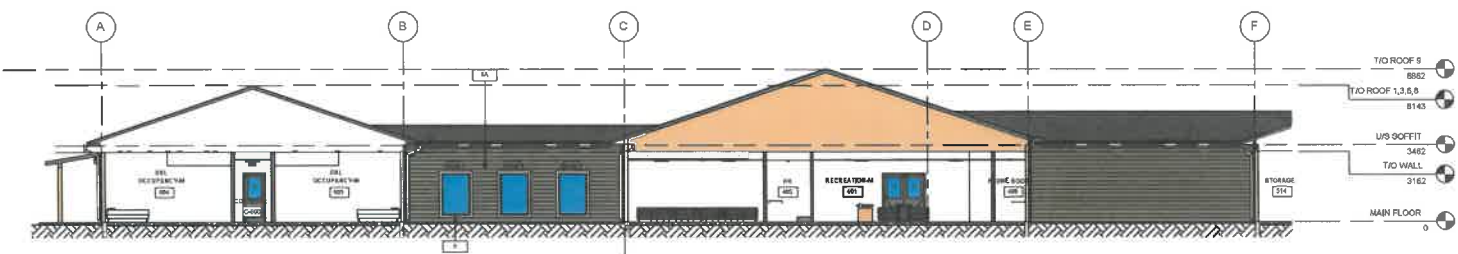
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Date	2024.06.19
Drawn by	Audra
Checked by	Chedar

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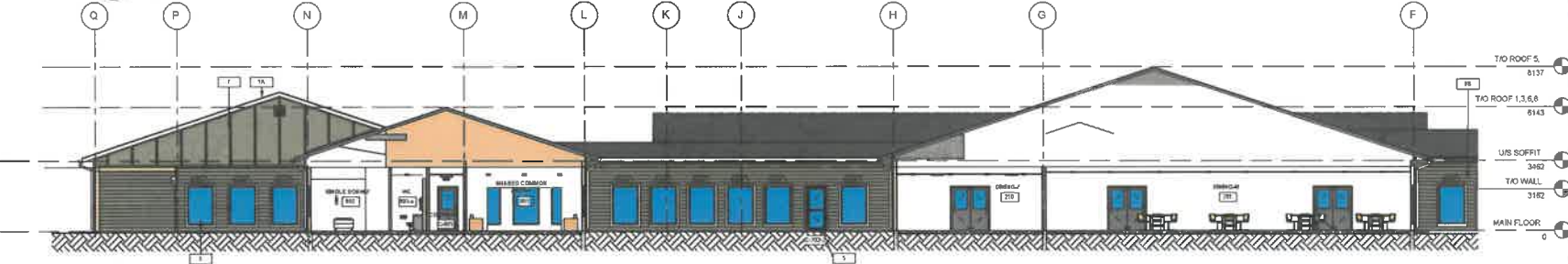
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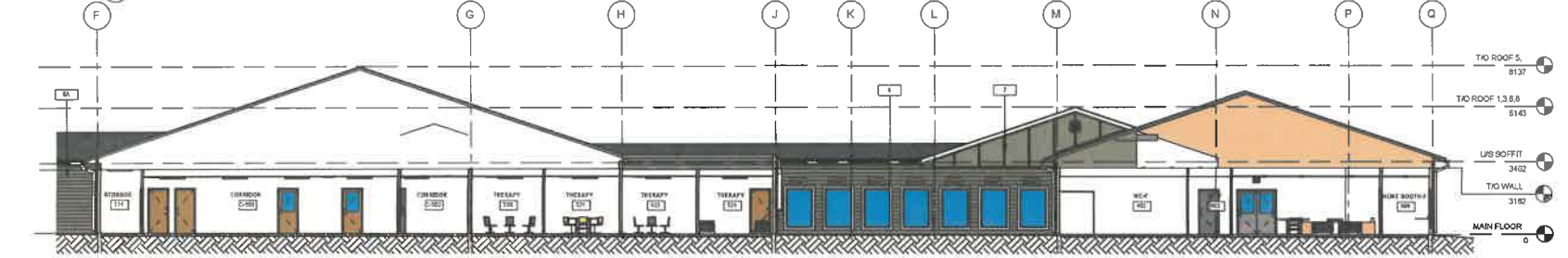
1 AREA 701 - NORTH ELEVATION
SCALE 1/100



2 AREA 701 - SOUTH ELEVATION
SCALE 1/100



3 AREA 702 - NORTH ELEVATION
SCALE 1/100



4 AREA 702 - SOUTH ELEVATION
SCALE 1/100

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REGISTERED PLUMBERS TO THE
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Landscaping	

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SMOXY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

Issue		
Issue for Pricing		
Issue for Development Permit		
Issue for Building Permit		
Revisions		
1 FOR REVIEW		24-05-17

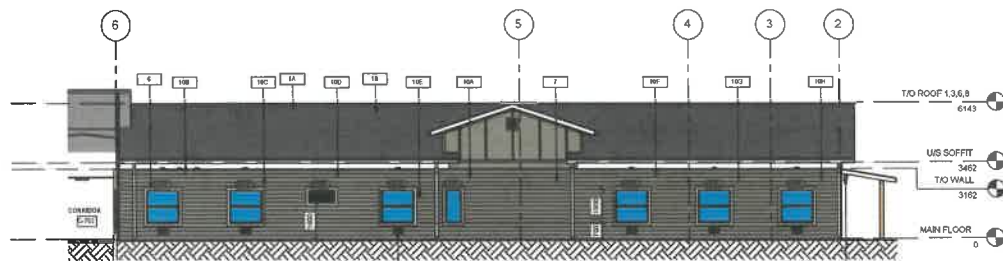
AREA 7 BUILDING ELEVATIONS

Project number	MNA-001
Date	2024.05.13
Drawn by	Austin
Checked by	Chrislar

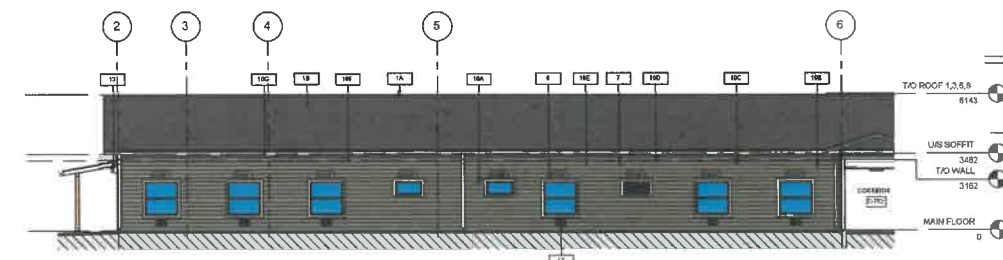
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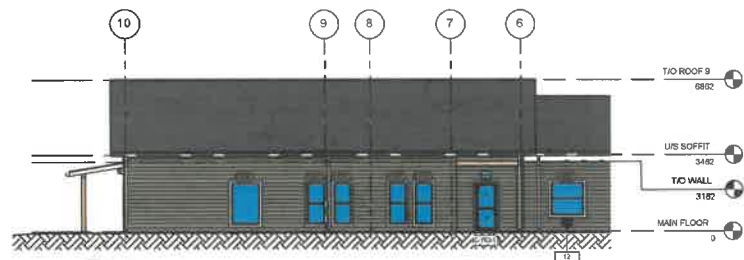
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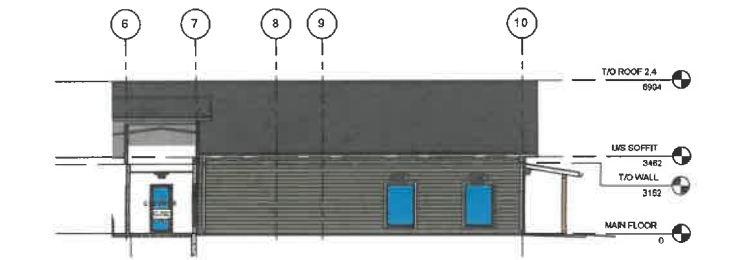
1 AREA 8 - EAST ELEVATION
SCALE 1:100



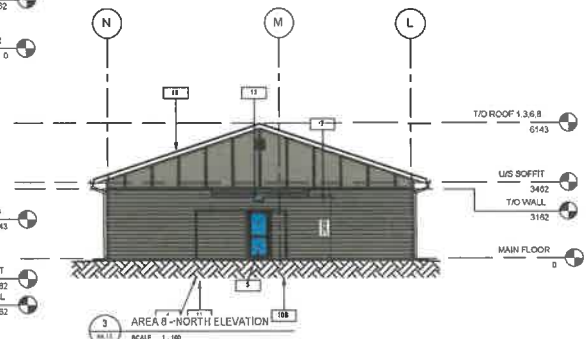
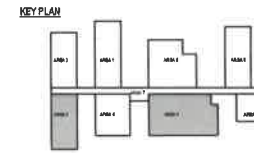
2 AREA 8 - WEST ELEVATION
SCALE 1:100



4 AREA 8 - EAST ELEVATION
SCALE 1:100

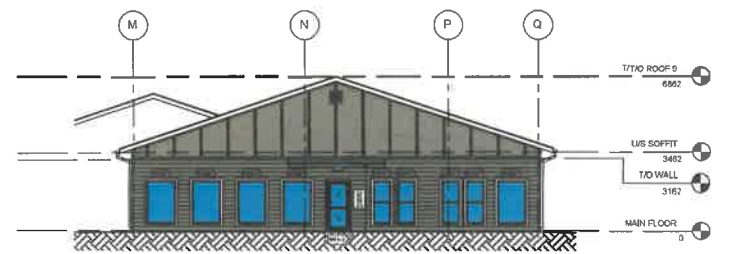


5 AREA 8 - WEST ELEVATION
SCALE 1:100



3 AREA 8 - NORTH ELEVATION
SCALE 1:100

KEYNOTE NO.	KEYNOTE TEXT
1A	OPTION 1 SLOPED ASPHALT SHINGLE ROOF - COLOUR CASTLE GREY OR SIMILAR
1B	OPTION 2 SLOPED PRE-FINISHED STANDING SEAM METAL ROOF - COLOUR DARK GREY
2	PRE-FINISHED METAL UTTER AND DOWNSPOUT - COLOUR WHITE
3A	184mm FIBRE CEMENT SMOOTH FASCIA - COLOUR WHITE
3B	
4	PRE-FINISHED METAL FLASHING - COLOUR WHITE
5	INSULATED HOLLOW METAL DOOR AND FRAME - COLOUR BLACK
6	BLACK ANODIZED ALUMINUM WINDOW OR INSULATED TRIPLE GLAZED ARGON FILLED GLASS UNIT
7	FIBRE CEMENT HORIZONTAL LAP SIDING - COLOUR MUDFLATS GREEN OR SIMILAR
8A	
8B	
10A	
10B	
16C	
10D	
10E	
10F	
10H	
10J	
11	SIAMSE CONNECTION - SEE MECHANICAL
12	MECHANICAL EQUIPMENT - SEE MECHANICAL
13	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL



6 AREA 8 - SOUTH ELEVATION
SCALE 1:100

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Civil	Safe Consulting
Landscaping	

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Melewka Structures & Design
SMOKY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

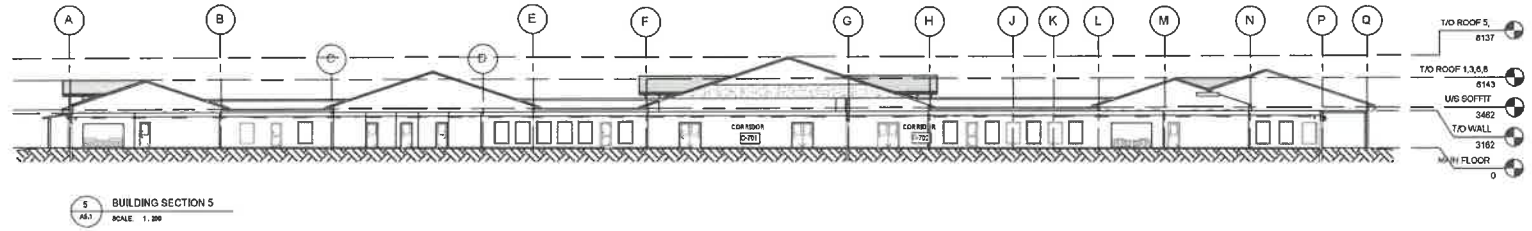
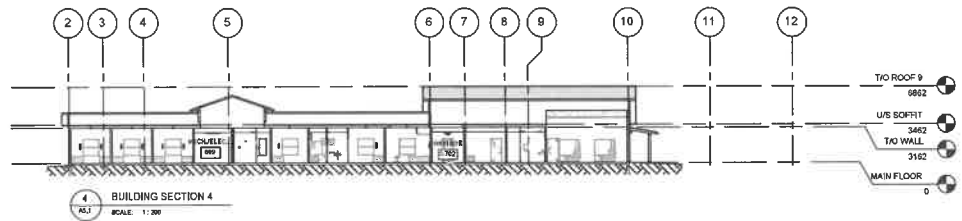
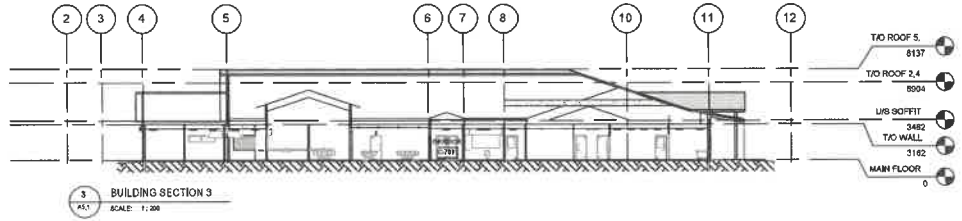
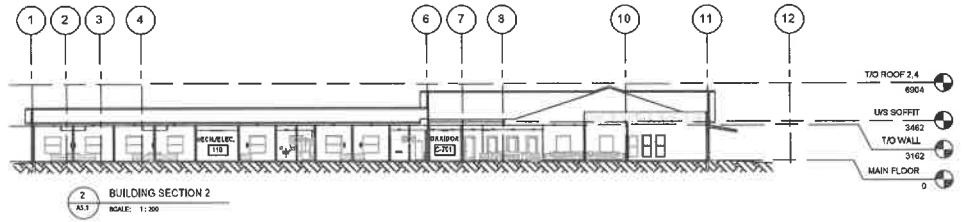
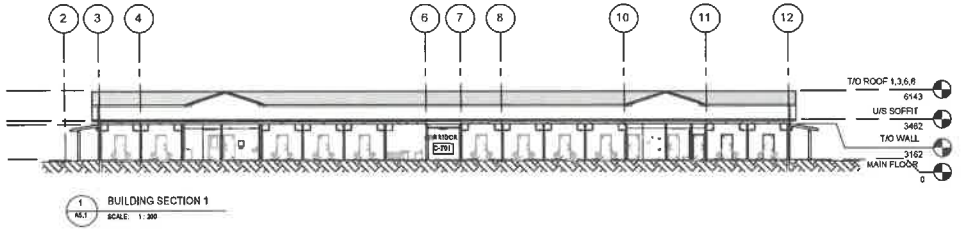
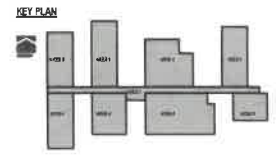
Revisions	
Issued for Pricing	
Issued for Construction Permit	
Issued for Building Permit	
Revisions	
1 FOR REVIEW	24-05-17

AREA 8 & 9 BUILDING ELEVATIONS

Project number	MNA-001
Date	2024.06.18
Drawn by	AJL
Checked by	Chester

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A4.15



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Electrical	
Civil	Table Consulting
Landscaper	

MELEWKA STRUCTURES & DESIGN

SMOXY LAKE, ALBERTA

METIS NATIONS OF ALBERTA COMMUNITY RECOVERY CENTRE

Revisions	
Revised for Piling	
Revised for Development Permit	
Revised for Building Permit	
Revisions	
1 FOR REVIEW	24-05-17

OVERALL BUILDING SECTIONS

Project number	MskA001
Date	2024.08.19
Drawn by	Author
Checked by	Checker

DO NOT SCALE DRAWINGS

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DESIGN NOTES

- 1. DESIGN MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF NATIONAL BUILDING CODE - 2018 ALBERTA EDITION (NBC (AB)).
2. REFER TO LIST OF AUTHORITIES' CODES BELOW.
3. STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS (ARCHITECTURAL, MECHANICAL, ELECTRICAL) AND SUPPLIER SHOP DRAWINGS. WHERE DISCREPANCIES EXIST BETWEEN STRUCTURAL AND OTHER DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER AND ARCHITECT IMMEDIATELY.
4. IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION DIFFER FROM WHAT IS SHOWN ON THE CONTRACT DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND WORK SHALL NOT PROCEED UNTIL ALL PROBLEMS ARE RESOLVED TO THE SATISFACTION OF THE STRUCTURAL ENGINEER.
5. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS REFER TO ARCHITECTURAL DRAWINGS.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO THE EXISTING CONDITIONS BY CONDUCTING FIELD SURVEYS AND TAKING MEASUREMENTS PRIOR TO COMMENCING CONSTRUCTION.
7. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION METHODS TO BE USED WILL NOT CAUSE DAMAGE TO EXISTING BUILDINGS, UTILITIES, OR OTHER PROPERTY PARTICULARLY DURING EXCAVATION.
8. THE CONTRACTOR SHALL BE SOLE RESPONSIBLE FOR JOB SITE SAFETY AND COMPLIANCE WITH ALL HEALTH AND SAFETY PRECAUTIONS AS REQUIRED BY ANY REGULATORY AGENCY. IN PERFORMANCE CONSTRUCTION WANTS TO THE JOB SITE, THE STRUCTURAL ENGINEER WILL HAVE NO CONTROL OVER NOR RESPONSIBILITY FOR THE CONTRACTOR'S MEANS, METHODS, SEQUENCES, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK.
9. TEMPORARY SUPPORTS REQUIRED FOR THE STABILITY OF STRUCTURE DURING ALL CONSTRUCTION STAGES SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL TAKE INTO ACCOUNT COLD WEATHER CONSTRUCTION AND THE EFFECTS OF THE THERMAL MOVEMENTS DURING CONSTRUCTION SCHEDULES.
11. THESE DRAWINGS ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKERS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODES AND APPROVED REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICES. IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MODELING AND WORK NOT EXPLICITLY SHOWN.
12. DESIGN OF NON-PRIMARY STRUCTURAL ITEMS, SUCH AS STAIRS, RAILINGS, NON-STRUCTURAL WALLS AND PREFABRICATED STRUCTURAL ITEMS, SUCH AS FLOOR AND ROOF TRUSSES, ARE NOT INCLUDED AND ARE TO BE PROVIDED BY OTHERS UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE STRUCTURAL INSPECTIONS WITH THE ENGINEER. ENGINEER REQUIRES AT LEAST 48 HOURS NOTICE PRIOR TO ALL INSPECTIONS.

LIST OF AUTHORITIES' CODES

- 1. GENERAL
1.1. NATIONAL BUILDING CODE - 2018 ALBERTA EDITION.
2. CONCRETE & REINFORCING STEEL
2.1. CANCSA A23.1 - 16 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.
2.2. CANCSA A23.2 - 18 TEST METHODS AND STANDARD PRACTICES FOR CONCRETE.
2.3. CANCSA A23.3 - 18 DESIGN OF REINFORCED CONCRETE MEMBERS.
2.4. CSA W16-M19RC (R2016) - WELDING OF REINFORCING BARS.
2.5. CSA 209 - 18 FALSWEORV AND FRAMEWORK.
2.6. CSA S16.1-18 (R2016) CARBON STEEL BARS FOR CONCRETE REINFORCEMENT.
2.7. CSA A203-2019 - QUALIFICATION CODE FOR CONCRETE TESTING LABORATORIES.
2.8. ASTM C1318-15 - STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS CAST IN PLACE IN CYLINDRICAL MOLDS.
3. WOOD
3.1. NATIONAL LUMBER GRADES AUTHORITY (NLAG).
3.2. CANADIAN WOOD COUNCIL. CANCWO WOOD DESIGN MANUAL 2017.
3.3. CSA 084 - 18 CONSOLIDATION - ENGINEERING DESIGN IN WOOD.
3.4. CSA 014-15 (R2016) SOUTHWEST LUMBER.
3.5. CANCSA 012 - 18 STRUCTURAL GLUED - LAMINATED TIMBER.
3.6. CANCSA 080 - 15 WOOD PRESERVATION.
3.7. CSA 019-1 - 17 CANADIAN SOFTWOOD PLYWOOD.

SITE INSPECTION REPORTS & TESTING

- 1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE START OF CONSTRUCTION TO FACILITATE FIELD REVIEW BY THE STRUCTURAL ENGINEER.
2. THIRD PARTY INSPECTION AND TESTING REPORTS ARE TO BE SUPPLIED TO THE STRUCTURAL ENGINEER BY THE GENERAL CONTRACTOR FOR THE FOLLOWING:
2.1. SOIL BEARING CAPACITY FOR ALL FOOTINGS, REINFORCING STEEL, PLACEMENT.
2.2. CONCRETE CYLINDER TEST REPORTS FOR ALL STRUCTURAL CONCRETE, FOOTINGS, FOUNDATION WALLS, SLAB ON GRADE, STRUCTURAL SLABS, CONCRETE ON STEEL DECK.
2.3. BACKFILL COMPACTION REPORTS.
SHOP DRAWINGS
1. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE STRUCTURAL ENGINEER, STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ALBERTA.
1.1. REINFORCING STEEL PLACING DRAWINGS AND BAR LISTS.
1.2. ROOF TRUSS JOIST DESIGN CALCULATIONS AND ERECTION DRAWINGS.
1.3. ROOF DECK PLACING & DETAIL.
SHORING NOTES
1. SHORING OF EXCAVATION AND EXISTING STRUCTURE ARE NOT COVERED ON THE SCOPE OF WORK OF THIS ENGINEERING JOB AND SHALL BE DETERMINED BY OTHERS.
2. SHORING DESIGN SHALL BE BASED ON THE RECOMMENDATION PROVIDED ON THE GEOTECHNICAL REPORT AND SHALL BE BASED ON STANDARDS OF THE GOVERNING AUTHORITY.
3. SHORING CONTRACTOR SHALL ESTABLISH THE EXTENT AND LOCATION OF ANY UNDERGROUND UTILITY LINES WHERE POSSIBLE INTERFERENCE WITH EXCAVATION / SHORING OPERATIONS ARE POSSIBLE TO OCCUR.

DESIGN SPECIFIC

- 1. ROOF
A. SNOW
Ss 3.0 kPa
Cs 0.1 kPa
B. RAIN
24 HOUR RAINFALL 108 mm
C. DEAD LOAD SELF WEIGHT
2. FLOORS
A. MAIN FLOOR
4.8 kPa (COMBINED)
DEAD LOAD 1.0 kPa + SELF WEIGHT
B. SPECIFIED LIVE LOAD HAVE BEEN REDUCED WHERE APPROPRIATE AND IN ACCORDANCE WITH CLAUSE 4.1.5.9 NBC
3. LATERAL LOADS
A. WIND LOADS
0.60 0.06 kPa
0.10 0.74 kPa
4. SEISMIC
SPECTRAL RESPONSE FROM ASCE, DIV. B, APPENDIX C.

FOUNDATION & GEOTECHNICAL NOTES:

- 1. FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT
BY SHELLEY ENGINEERS LTD.
REPORT TITLE PRELIMINARY FOUNDING AND FOUNDATION RECOMMENDATIONS
FILE NO 1-2018-09
DATE NOVEMBER 4, 2023
PROJECT TITLE TSU1 TMA 48 AND HIGHWAY 22 TSU1 TMA MAIN DR.
2. THE CONTRACTOR SHALL ENSURE THAT THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING THE FOUNDATION WORK.
3. ALL FOOTINGS ARE TO BE FOUND ON UNDISTURBED NATIVE MATERIALS FREE OF DEBRIS, Frost AND LOOSE MATERIALS.
4. ALL FOOTING BEARING SURFACES SHALL BE REMOVED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO CASTING. ALL FOOTING REINFORCEMENT AND FORMWORK PREPARATIONS SHALL BE REVIEWED BY TWS ENGINEERING LTD. PRIOR TO CASTING.
5. AFTER THE CASTING OF FOOTING, THE FOOTING BEARING SURFACES AND CONCRETE SHALL BE PROTECTED FROM RAIN, SNOW, GROUNDWATER, FREEZING.
6. SLAB-ON-GRADE BEARING SURFACES SHALL BE REVIEWED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO CASTING. ALL SLAB-ON-GRADE BEARING SURFACES SHALL BE REVIEWED BY TWS ENGINEERING LTD. PRIOR TO CASTING.
7. PERIMETER WEERING TILE FINISH SYSTEM SHALL BE PROVIDED AS PER GEOTECHNICAL REPORT AND MECHANICAL CONSULTANT.
8. ALL FOUNDATION WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION TO MAINTAIN SAFETY AND STABILITY. BACKFILL SHALL NOT BE PERMITTED UNTIL FLOOR STRUCTURES ARE COMPLETED AND CONCRETE HAS ACHIEVED 7 DAY STRENGTH.
9. THE GEOTECHNICAL ENGINEER SHALL BE CONSULTED FOR THE REQUIRED FREQUENCY OF MATERIALS AND COMPACTION TESTING REQUIRED FOR ALL BACKFILL OPERATIONS.

REINFORCING STEEL NOTES:

- 1. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CSA G30.18, LATEST EDITION, WITH YIELD STRENGTH OF 400 MPa.
2. ALL DETAILS, BENDING AND PLACING OF REINFORCING STEEL SHALL CONFORM TO CSA STANDARD CAN 3-A23.1-M LATEST EDITION.
3. ALL CORNERS OF ORADE BEAMS AND FOUNDATION WALLS SHALL HAVE 90 DEGREE REINFORCING BARS MATCHING THE HORIZONTAL WALL STEEL AND MEASURING 900 X 900.
4. ZONE REINFORCING TO HAVE A SPICE LENGTH OF AT 7 TIMES BAR DIAMETER, BASED ON LATEST BAR SCHEDULE IN CASE OF UNSURE.
5. LAP SPICES OF REINFORCING STEEL IN CONCRETE BEAMS, SLABS AND FOOTINGS SHALL BE ACCORDING TO CANCSA 23.1 OR LAP SCHEDULE UNO. STAGGER SPICES A MIN OF ONE LAP LENGTH. VERTICAL WALL BARS SHALL BE SPICED AT OR NEAR FLOOR LINES. SPICE TOP BARS AT CENTER LINE OF SPAN AND BOTTOM BARS AT THE SUPPORT IN SPANDRLES, BEAMS, GRADE BEAMS, ETC. UNO.
6. TOLERANCES FOR PLACING OF REINFORCING OR FORMWORK SHALL BE IN ACCORDANCE WITH CANCSA A23.1:
LATERAL SPACING OF BARS >30mm
BEWARE SLABS
MEMBER 200mm DEEP OR LESS 85mm
MEMBER 200mm DEEP OR GREATER 81mm
MEMBER 80mm DEEP OR GREATER 820mm
7. BAR SUPPORT CHAIRS FOR UNGRADED BARS SHALL BE PLASTIC, PLASTIC-TIPPED FOR AT LEAST THE BOTTOM 25mm OR PRECAST CONCRETE BLOCK.
8. BAR SUPPORT CHAIRS SHALL BE SUFFICIENT IN NUMBER, STRENGTH AND STABILITY TO MAINTAIN THE POSITION OF THE REINFORCEMENT WITH THE SPECIFIED TOLERANCES FOR THE FULL LENGTH OF THE REINFORCEMENT. IF SPACED BARS ARE TO BE USED TO SUPPORT THE REINFORCEMENT, THEY SHALL BE NOT LESS THAN 15M.
9. ALL VERTICAL REINFORCEMENT PLACED IN EXTERIOR FOUNDATION WALLS IS TO BE SECURED TO SPECIFIED COVER WITH THE USE OF SUPPORT CHAIRS TO EITHER FORM FACE.
10. WELDING OF DEFORMED REINFORCING BARS SHALL CONFORM TO M58-M1600.
11. NOTIFY TWS ENGINEERING LTD. 48 HOURS MINIMUM PRIOR TO POURING CONCRETE FOR REVIEW OF REINFORCEMENT.

Table with 4 columns: REINFORCING BAR Ø, STRAIGHT TENSION LAP, 90° HOOK, STRAIGHT TENSION LAP, 90° HOOK, 90° HOOK. Rows for 10M, 15M, 19M, 20M.

CAST-IN-PLACE CONCRETE NOTES:

Table with 2 columns: COMPONENT, EXPOSURE CLASS. Rows for FOUNDATION WALLS, CONCRETE PRESS, INTERIOR SLAB-ON-GRADE, EXTERIOR PADS, CURBS, PATIOS, SIDEWALKS.

Table with 2 columns: EXPOSURE CONDITION, EXPOSURE CLASS. Rows for CAST AGAINST AND PERMANENTLY EXPOSED TO WEATHER, BEAMS, GIRDERS AND COLUMNS, PLANK WALLS, JOISTS, SHELL AND FOLDED PLATES.

- 3. CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION TEST METHODS AND STANDARD PRACTICES OF CONCRETE SHALL CONFORM TO THE LATEST EDITION OF CANCSA A23.2 (UNLESS DESIGN OF REINFORCED CONCRETE MEMBERS ARE BASED ON CANCSA A23.3).
4. SAW CUTS FOR SLAB ON GRADE SHALL BE 6mm SLAB DEPTH CUTTING TO BE DONE NOT SOONER THAN 12 HOURS AND NOT LATER THAN 24 HOURS AFTER THE SLAB IS CAST. SAW CUT TO BE FILLED WITH APPROVED BITUMINOUS COMPOUND OR CALUMIN.
5. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT, UNLESS APPROVED BY THE ENGINEER OR AUTHORIZED TESTING AGENCY.
6. REMOVE ALL DEBRIS FROM FORMS, REINFORCING STEEL AND OTHER EMBEDDED ITEMS PRIOR TO PLACING CONCRETE. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL WALLS OR COLUMNS SO AS TO CAUSE A SEGRIGATION OF AGGREGATES. UNCONTAINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET.
7. PROVIDE MINIMUM 6 MIL POLY VAPOR BARRIER BELOW ALL SLAB ON GRADE CONCRETE SLABS UNLESS NOTED OTHERWISE ON DRAWINGS.
8. WHERE WOODFORM IS INDICATED ON DRAWINGS, USE CARBONADO SHEETMATE BELOW STRUCTURE, SLABS AND LOW-DENSITY POLYETHYLENE BELOW WALLS AND GRADE BEAMS. IF WOODFORM TO BE REMOVED BELOW ALL CONCRETE SUBGRADE ELEMENTS, INCLUDING WALLS, GRADE BEAMS, STRUCTURAL SLABS, PILE CAPS, AND PLASTERS INCLUDING NOTED OTHERWISE.
9. FORMWORK PRACTICE
A. THE DESIGN, FABRICATION, ERECTION, AND USE OF CONCRETE FORMWORK SHALL CONFORM TO THE REQUIREMENT OF CANCSA 238.3.
B. FALSEWORK FOR SUSPENDED CONCRETE ELEMENTS SHALL CONFORM TO CSA S296.1.
C. FALSEWORK SUPPORTING SUSPENDED ELEMENTS (SLABS, BEAMS AND GIRDERS) SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED ITS SPECIFIED STRENGTH. THE COMPRESSIVE STRENGTH TEST SAMPLES SHALL BE CONDUCTED WITH FIELD-CURED SAMPLES BY A QUALIFIED TESTING FIRM.
D. FORMWORK FOR SPECIAL ARCHITECTURAL FINISHES SHALL MEET THE REQUIREMENT OF CSA A23.

- 10. CONCRETE SAMPLES FOR TESTING SHALL BE IN ACCORDANCE WITH CSA A23.1.
A. ONE (1) STRENGTH TEST SHALL CONSIST OF TEST CYLINDERS FOR EACH 50 m³ OF CONCRETE, OR PORTIONS OF EACH MIX TYPE OF CONCRETE OR EACH SEPARATE TYPE OF STRUCTURAL ELEMENT IN ANY ONE (1) DAY'S POUR, FOR CONCRETE WITH STRENGTH IN 14 TO 28 DAY STRENGTH. STRENGTH TEST SHALL CONSIST OF MINIMUM FOUR (4) TEST CYLINDERS. TEST FIRST CYLINDER AT 28 (7) DAYS ONE (1) AT TWENTY-THREE (23) DAYS AND REMAINING TWO (2) AT 58 DAYS. FOR TWENTY-THREE (23) DAY STRENGTH TEST SHALL CONSIST OF MINIMUM THREE (3) TEST CYLINDERS. TEST FIRST CYLINDER AT SEVEN (7) DAYS AND REMAINING TWO (2) AT TWENTY-THREE (23) DAYS.
B. ADDITIONAL TEST CYLINDERS SHALL BE TAKEN DURING COLD WEATHER CONCRETING. THESE CYLINDERS ON 28 DAY UNDER SAME CONDITIONS AS CONCRETE WHICH THEY REPRESENT.
C. SHOP DRAWINGS AND SUBMITTALS
A. REPRODUCTION IN WHOLE OR IN PART OF THE STRUCTURAL DRAWINGS FOR USE AS SHOP DRAWINGS OR SUBMITTALS SHALL NOT BE ACCEPTED.
B. ANY DEVIATION FROM STRUCTURAL DRAWINGS AND SPECIFICATIONS SHALL BE IDENTIFIED ON THE SHOP DRAWINGS, AND EXPRESS PERMISSION FOR SUCH CHANGES SHALL BE OBTAINED FROM THE ENGINEER.
C. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SEALED BY AN ENGINEER REGISTERED IN THE PROVINCE HAVING JURISDICTION PRIOR TO ANY FABRICATION.
D. CONCRETE MIX DESIGN INCLUDING SAMPLING AND TESTING OF THE AGGREGATES SHALL BE REVIEWED AND STAMPED FOR COMPLIANCE WITH RESPECTIVE SPECIFICATIONS BY AN INDEPENDENT QUALIFIED AND QUALIFIED CONCRETE TESTING LAB WITH A PERMIT TO PRACTICE IN THE PROVINCE OF ALBERTA. THE TESTING LAB SHALL PROVIDE AN ENGINEERING OPINION THAT THE AGGREGATE AND DESIGN ARE SUITABLE FOR THE INTENDED USE AND ARE EXPECTED TO PERFORM TO SPECIFIED STANDARDS.
E. SUBMIT PROPOSED MIX DESIGN TO CONSULTANT FOR REVIEW 2 WEEKS PRIOR TO PLACING CONCRETE.
F. SUBMIT REVIEW/REINFORCEMENT PLACING DRAWINGS AND BAR LIST FOR EVERY PORTION OF THE STRUCTURE.

WOOD FRAMING NOTES:

- 1. WOOD FRAMING MATERIALS AND CONSTRUCTION SHALL CONFORM TO CSA 084 MLC 0.4, AND CSA 014.1.
2. SHEATHING SHALL BE EXTERIOR GRADE SPRUCE PLYWOOD, CHIP BOARD OR ORIENTED STRAND BOARD.
3. NAILING PATTERNS & NAIL LENGTHS SHALL CONFORM TO TABLE B23.3.4 AND B.23.3.5 OF THE NATIONAL BUILDING CODE RESIDENTIAL STANDARDS.
4. PLYWOOD SUB-FLOORING AND SHEATHING SHALL BE EXTERIOR DOUGLAS FIR PLYWOOD CONFORMING TO THE LATEST EDITION OF CSA 012 "DOUGLAS FIR PLYWOOD" UNLESS NOTED OTHERWISE.
5. ALL HORIZONTAL MEMBERS, WALL PLATES, BLOCKING AND FURRING TO BE NO. 2 SPRUCE OR BETTER, CONFORMING TO N.L.G.A. 124-C.
6. ALL BUILT-UP BEAMS, UNFELS, HEADERS, SILL PLATES AND BLOCKING TO BE S.P.F. NO. 2 OR BETTER, CONFORMING TO N.L.G.A. 124-C.
7. ALL WOOD COLUMNS AND BUILT-UP STUDS TO BE CONTINUOUSLY BLOCKED DOWN TO FOUNDATION WITH WOOD SQUASH BLOCKS MATCHING WALL OR COLUMN WIDTH.
8. PROVIDE TRIPLE STUDS EACH SIDE OF OPENINGS (INLETS TO BEAR ON TWO STUDS EACH END UNLESS NOTED OTHERWISE ON PLANS.
9. FRAMING LUMBER SHALL BE NEW MATERIAL WITH A MAXIMUM MOISTURE CONTENT OF 19%.
10. ALL WALLS TO BE ADEQUATELY BRACED UNTIL SHEATHING INSTALLED ON WALLS, FLOOR BELOW & STRUCTURE ABOVE.
11. JOIST HANGERS SHALL BE GALVANIZED STEEL AND OF SUFFICIENT CAPACITY TO CARRY THE FULL CAPACITY OF THE JOIST, ROOF TRUSSES AND JOIST AT EXTERIOR PERIMETER TO BE ANCHORED TO WALL. SILL PLATE USING "TRIPLE JOIST" FRAMING ANCHOR. WALLS TO BE SPICAL WALLS.
12. BOTTOM PLATES (SOLE PLATES) RESTING ON CONCRETE OR MASONRY SHALL BE TREATED.
13. BOTTOM PLATE AT THE MAIN FLOOR IS TO BE BOLTED TO THE FOUNDATION WITH A MINIMUM OF 2 #4mm x 200mm LG. ANCHOR BOLTS @ 1200mm O.C.
14. DO NOT NOTCH OR DRILL JOISTS OR BEAMS UNDO ON PLAN OR 0.5H, WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. DOUBLE UP FLOOR JOISTS AND BLOCKING UNDER WALLS THAT RUN PARALLEL TO THE JOISTS. PROVIDE 50mm (2" MIN) SOLID BLOCKING BETWEEN JOISTS AT SUPPORTS.
15. ROOF TRUSSES TO BE NO. 2 SPRUCE OR BETTER ACCORDING TO THE REQUIREMENTS OF NBC.
16. SHOP DRAWINGS AND LAYOUT PLANS SHALL BE PROVIDED FOR ALL FLOOR, JOIST AND ROOF TRUSSES. ALL DRAWINGS TO BE SEALED BY AN ENGINEER LICENSED TO PRACTICE IN THE PROVINCE HAVING JURISDICTION PRIOR TO FABRICATION.
17. NO SITE MODIFICATIONS TO ANY TRUSSES AND/OR JOISTS ARE TO BE MADE WITHOUT APPROVAL FROM SUPPLIER AND ENGINEER.
18. ALL TRUSS CURBS AND HOLD-DOWNS TO BE PROVIDED BY SUPPLIER UNLESS NOTE OTHERWISE. PROVIDE NUTTING CLIPS AT ALL TRUSS BRACING LOCATIONS TO RESIST THE REQUIRED UPLIFT CAPACITY AND IN CORRELATION WITH UPLIFT LOADS SPECIFIC PROVIDED IN DRAWINGS.
19. ROOF TRUSS SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF SNOW PILING IN VALLEYS CAUSED BY TRANSITION LOADING UNLESS NOTED OTHERWISE.
20. WOOD BEAM AND WOOD JOIST SUPPLIER IS RESPONSIBLE FOR PROVIDING ALL REQUIRED HANGERS AT BEARING CONNECTION LOCATIONS DESIGNED TO WITHSTAND APPLICABLE LOADINGS.
21. THE SUPPLIER OF FLOOR, JOISTS AND ROOF TRUSSES SHALL INSPECT THE INSTALLATION UPON COMPLETION AND PROVIDE A CERTIFICATE STAMPED BY A PROFESSIONAL ENGINEER CONFIRMING THE INSTALLATION IS IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS.
22. GLUED LAMINATED KILLMAN THIMBER MEMBERS SHALL BE SPRUCE PINE, 12-E FOR COLUMNS AND SPRUCE PINE 20E FOR BEAMS.
23. LAMINATED VENEER LUMBER (LVL) MEMBERS SHALL BE 20E 2500F.
SUB-BASE / SUBGRADE CONSTRUCTION FOR FLOOR SLABS, GRADE BEAMS
1. REMOVE ANY TOP SOIL, LOAMY SOIL, UNSUITABLE FILL AND ALL SOFT SPOTS AND TO BE REPLACED WITH GRANULAR FILL COMPACTED TO 100% SMOO OR AS RECOMMENDED BY A GEOTECHNICAL ENGINEER TO CORRECT FOR THE EXTENT AND DEPTH OF UNDERCUTTING.
2. ANY ORGANIC, HIGH PLASTIC SOILS, SLOUGH SOILS AND DELETERIOUS MATERIALS ENCOUNTERED SHALL BE REMOVED DURING SUBGRADE PREPARATION.
3. SUBGRADE FILLS SHOULD BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS.
4. FILL SOILS SHOULD BE PLACED WITH 2% OPTIMUM MOISTURE CONTENT.
PRE-ENGINEERED WOOD PRODUCT NOTES:
1. MANUFACTURED BEAMS AND LISTS SHALL BE MANUFACTURED IN CONFORMANCE TO CSA-084 AND SHALL BE PROTECTED FROM MOISTURE, HANDLED AND INSTALLED ACCORDING TO MANUFACTURERS DETAILS AND INSTRUCTIONS.
2. ALL MANUFACTURED BEAMS AND LISTS SHOULD HAVE MOISTURE CONTENT OF 12% OR LESS.
3. SHOP DRAWINGS INDICATING MEMBER SIZES, STRESS GRADES, DESIGN LOADS, RIM MATERIAL, HANGER SIZES, AND POINT LOAD BLOCKING LOCATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OF THE MEMBERS. FLOOR FRAMING LAYOUTS AS INDICATED ON THE RESPECTIVE FLOOR PLANS MAY NOT BE ALTERED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
4. LAMINATING BEAMS, UNLESS NOTED OTHERWISE:
- UP TO THREE 44mm WIDE BEAMS MAY BE NAILED WITH 3 ROWS OF 3 - 12mm COMMON NAILS @ 300mm O.C. EACH SIDE
- FOUR PILES SHALL BE BACKED WITH 2 ROWS OF 81mm BOLTS, EACH ROW @ 300mm O.C. SPACER ROW
- REFER TO MANUFACTURERS GUIDES FOR MORE DETAILED BUILT-UP INSTRUCTION.
- CONSULT WITH STRUCTURAL ENGINEER BEFORE DRILLING OR CUTTING BEAMS.
5. MANUFACTURED JOIST MUST HAVE SOLID RIM MATERIAL ON A RIM JOIST STEFFED AND BLOCKED AS PER MANUFACTURERS INSTRUCTION. JOIST CHORDS MUST NOT BE DRILLED OR CUT, AND JOIST MUST BE KEPT UPRIGHT AT ALL TIMES.
6. BEAM SUPPLIER IS RESPONSIBLE FOR PROVIDING ALL REQUIRED HANGERS AT BEARING CONNECTION LOCATIONS DESIGNED TO WITHSTAND APPLICABLE LOADING.

NOTES:
These drawings are those to be reviewed and stamped by a professional engineer registered in the province of Alberta.
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CONSULTANTS

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PRELIMINARY NOT FOR CONSTRUCTION



STRUCTURAL | MECHANICAL | ELECTRICAL | CIVIL CONSULTING

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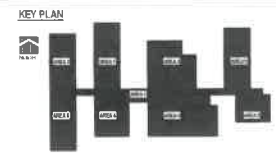
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NOTES:

1. These drawings are to be used only for the purpose of providing information to the client and are not to be used for construction.

2. All dimensions, elevations, and notes, and their interpretation are to be in accordance with the contract documents.

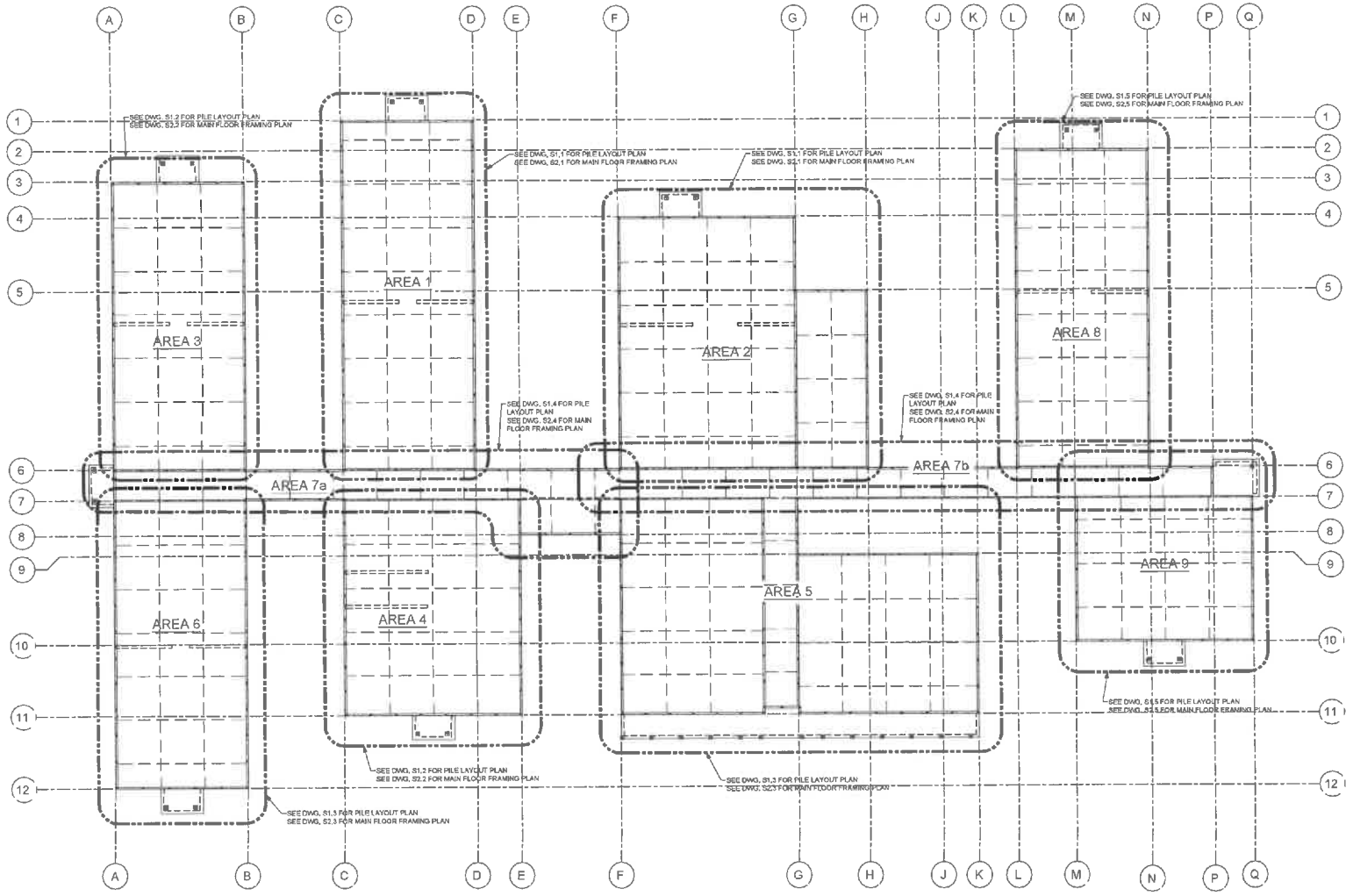
3. The drawings shall be the property of TWS Engineering Ltd.

4. The drawings shall be used only for the purpose of providing information to the client and are not to be used for construction.

5. These drawings are the property of TWS Engineering Ltd.

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CONSULTANT/DATE: B



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

PRELIMINARY
NOT FOR CONSTRUCTION



ISSUED FOR CLIENT REVIEW
ISSUED FOR CLIENT REVIEW

CLIENT:
MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN
ARCHITECTURE STUDIO LTD.
200, 1495 - 7 Street SW, Calgary, Alberta T2M 0K5
Phone: (403) 263-0300 Fax: (403) 263-1937

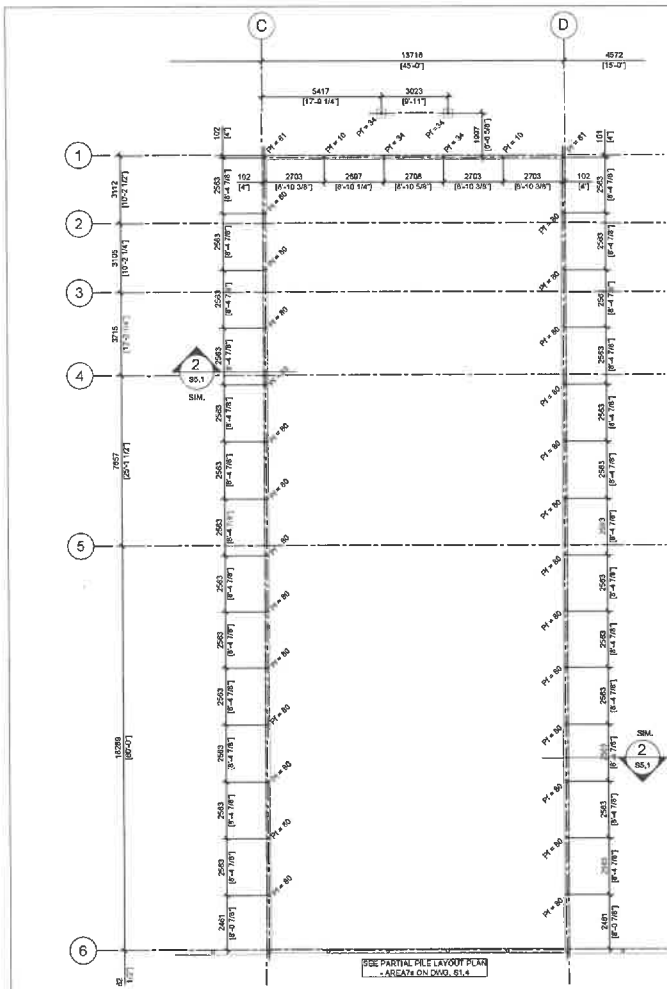
PROJECT:
METIS NATION OF AB COMMUNITY RECOVERY CENTER
SMOXY LAKE ALBERTA

DRAWING:
OVERALL PILE LAYOUT AND MAIN FLOOR FRAMING PLAN

FILE:	23-194804
PROJECT No.:	TWS-23-194804
SCALE:	A3 1/8"=1'-0"
DATE:	2023/04/14
DRAWN BY:	EN
DRAWING No.:	REVISION

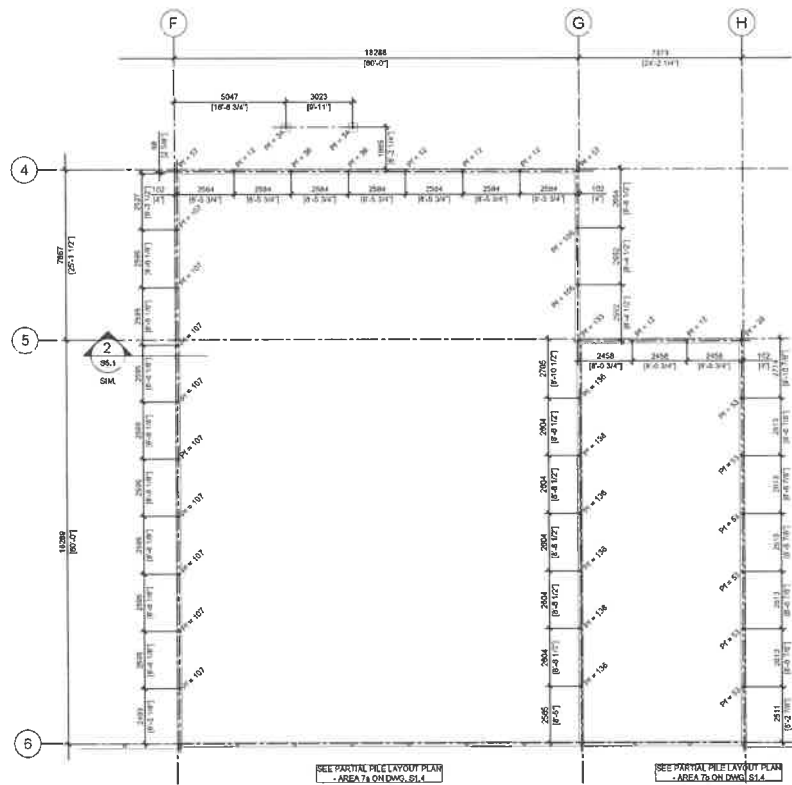
S1.0 A

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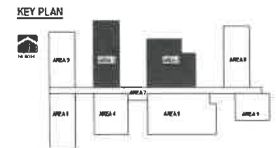


PARTIAL PILE LAYOUT PLAN - AREA 1
 SCALE 1:100
 NORTH
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S0.1.
 2. SEE TYPICAL DETAILS ON DRAWING S0.2.
 3. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
 4. SEE MECHANICAL DRAWINGS FOR WEEPING TILE INSTALLATIONS.
 5. T.O. STEEL PILE CAP @ ELEV. 490.0 (A.O. IN PLAN.

LEGEND:
 PI * REFERS TO FACTORED COMPRESSIVE LOAD IN kN



PARTIAL PILE LAYOUT PLAN - AREA 2
 SCALE 1:100
 NORTH
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S0.1.
 2. SEE TYPICAL DETAILS ON DRAWING S0.2.
 3. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
 4. SEE MECHANICAL DRAWINGS FOR WEEPING TILE INSTALLATIONS.
 5. T.O. STEEL PILE CAP @ ELEV. 490.0 (A.O. IN PLAN.



NOTES:
 1. These notes are drawn to scale and are not to be used for construction.
 2. All dimensions, elevations, and details, and material quantities are to be checked by the contractor.
 3. The drawings represent proposed means.
 4. Dimensions are shown to face unless otherwise noted.
 5. These drawings are copyright © 2015 MELEWKA STRUCTURES & DESIGN. ALL RIGHTS RESERVED.

CONSULTANT'S SEAL

PRELIMINARY
 NOT FOR CONSTRUCTION



A ISSUED FOR CLIENT REVIEW 2015-08-11
 A ISSUED FOR CLIENT REVIEW 2015-08-11

CLIENT
MELEWKA STRUCTURES & DESIGN

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 3301 50th St. Suite 100, Calgary, Alberta T2B 0K3
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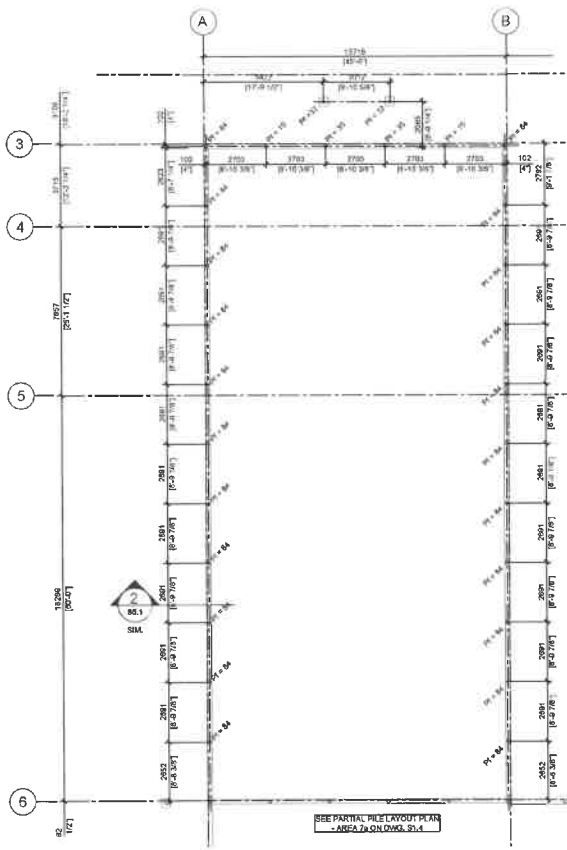
PROJECT
METIS NATION OF AB COMMUNITY RECOVERY CENTER
 SMOKY LAKE ALBERTA

DRAWING
PARTIAL PILE LAYOUT PLANS

FILE:	2015-08-06
PROJECT NO.:	TMB-2015-08-06
SCALE:	AS SHOWN
DATE:	2015-08-11
DRAWN BY:	DN
DRAWING NO.:	REVISION

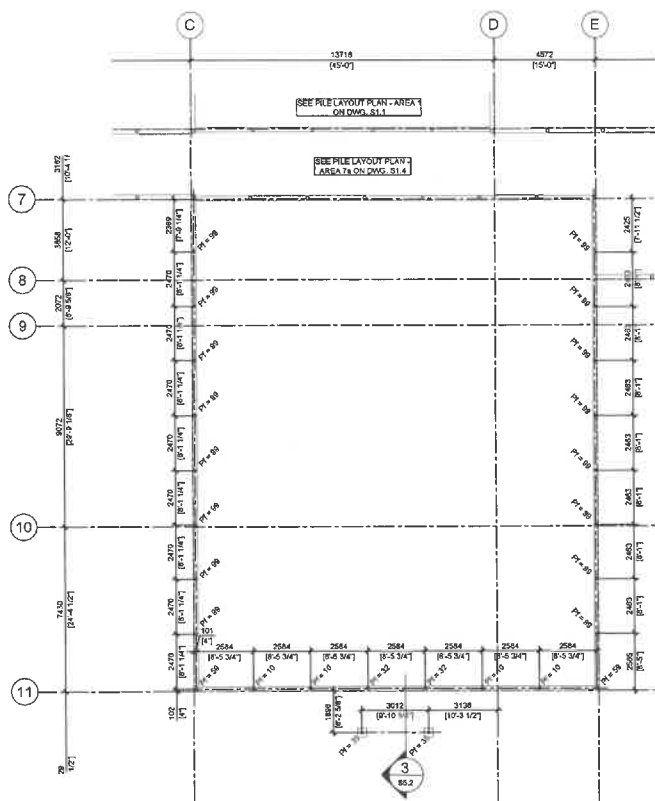
S1.1 A

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PARTIAL PILE LAYOUT PLAN - AREA 3
 SCALE 1:100
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING SO.1.
 2. SEE TYPICAL DETAILS ON DRAWING SO.2.
 3. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
 4. SEE MECHANICAL DRAWINGS FOR WEAPING TILE INSTALLATIONS.
 5. T.O. STEEL PILE CAP @ ELEV. #10 U.N.O. IN PLAN.

LEGEND:
 PI = REFERS TO FACTORED
 COMPRESSIVE LOAD IN kN



PARTIAL PILE LAYOUT PLAN - AREA 4
 SCALE 1:100
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING SO.1.
 2. SEE TYPICAL DETAILS ON DRAWING SO.2.
 3. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
 4. SEE MECHANICAL DRAWINGS FOR WEAPING TILE INSTALLATIONS.
 5. T.O. STEEL PILE CAP @ ELEV. #10 U.N.O. IN PLAN.



NOTES:
 These drawings are based on the information provided by the client. MLEWKA STRUCTURES & DESIGN INC. is not responsible for the accuracy of the information provided.
 Use of all dimensions, elevations, and details, and report are dependent on the accuracy of the information provided.
 All dimensions are in millimeters unless otherwise stated.
 The drawings are for informational purposes only.
 Consenting to these drawings is not a warranty, but a statement of the accuracy of the information provided, and not a guarantee of performance, or a statement of fitness for a particular purpose.
 These drawings are prepared in accordance with the requirements of the Professional Engineers Act (R.S.A. 2000, c. 24) and the Engineering Council of Alberta (ECA) Code of Ethics.
 These drawings are not to be reproduced without the permission of the client.

PRELIMINARY
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TWS
 Engineering Ltd.
 STRUCTURAL | MECHANICAL
 ELECTRICAL | CIVIL CONSULTING

ISSUED FOR CLIENT REVIEW	2014-06-11
ISSUED FOR CLIENT REVIEW	2014-06-11

CLIENT:

MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN
 ARCHITECTURE STUDIO LTD.
 310, 6800 - 7 Street SW, Edmonton, Alberta T2N 0K3
 Phone: (403) 263 0364 Fax: (403) 263 7877

PROJECT:

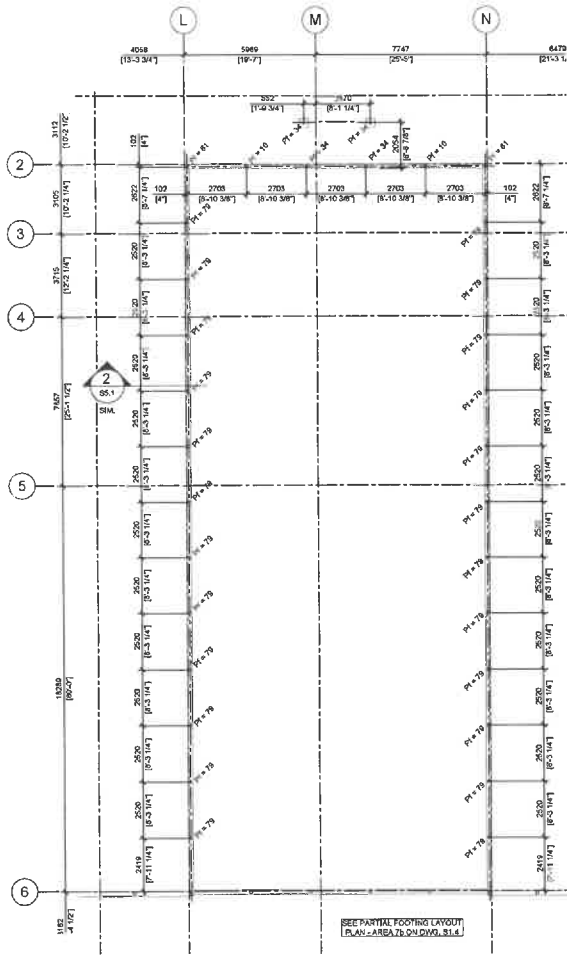
MIETIS NATION OF AB
COMMUNITY RECOVERY
CENTER
 SMOKY LAKE ALBERTA

DRAWING:

PARTIAL PILE LAYOUT PLANS

DATE:	2014-06-11
PROJECT No.:	THE 21-83-80-04
SCALE:	AS SHOWN
DATE:	2014-06-11
DRAWN BY:	GH
DRAWING No.:	REVISED
S1.2	A

3. NOT TO SCALE - FROM METRIC TO IMPERIAL UNITS. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 4. DRAWING BY: G. GARDNER / S.M.P.

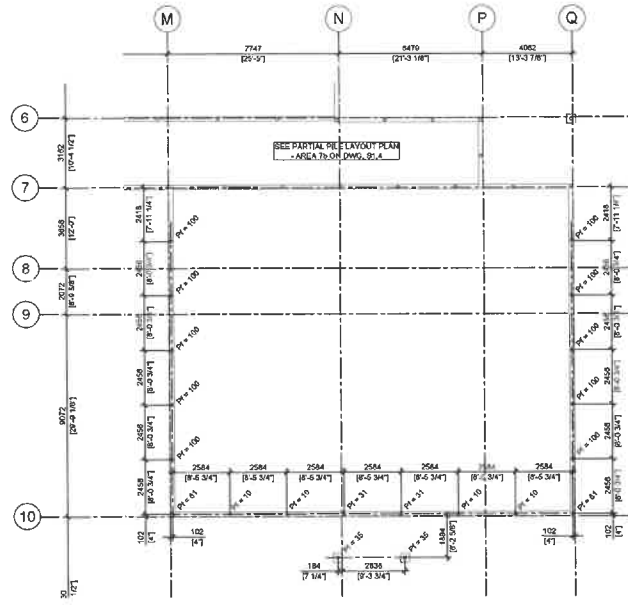


PARTIAL PILE LAYOUT PLAN - AREA 8

SCALE 1:500

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S0.1.
2. SEE TYPICAL DETAILS ON DRAWING S0.2.
3. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
4. SEE MECHANICAL DRAWINGS FOR WEBSPIRING TILE INSTALLATIONS.
5. T.O. STEEL PILE CAP @ ELEV. -810 U.N.O. IN PLAN.

LEGEND	
PT	REFERS TO FACTORED COMPRESSIVE LOAD IN kN

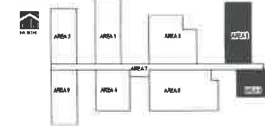


PARTIAL PILE LAYOUT PLAN - AREA 9

SCALE 1:100

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S0.1.
2. SEE TYPICAL DETAILS ON DRAWING S0.2.
3. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
4. SEE MECHANICAL DRAWINGS FOR WEBSPIRING TILE INSTALLATIONS.
5. T.O. STEEL PILE CAP @ ELEV. -810 U.N.O. IN PLAN.

KEY PLAN



NOTES:
 These drawings are prepared for the sole use of the client and are not to be used for any other purpose without the written consent of the consultant.
 The client is responsible for providing all necessary information and data for the design and construction of the works shown on these drawings.
 The consultant is not responsible for any errors or omissions in the drawings or for any consequences arising therefrom.
 The consultant is not responsible for any delays or cost overruns caused by the client or any other party.
 These drawings are prepared in accordance with the provisions of the relevant codes of practice and standards.
 CONSULTANT: TWS

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REV	DESCRIPTION	DATE
1	ISSUED FOR CLIENT REVIEW	2024-08-14
2	ISSUED FOR CLIENT REVIEW	2024-08-14

MELEWKA STRUCTURES & DESIGN

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 ARCHITECTURE STUDIO LTD.
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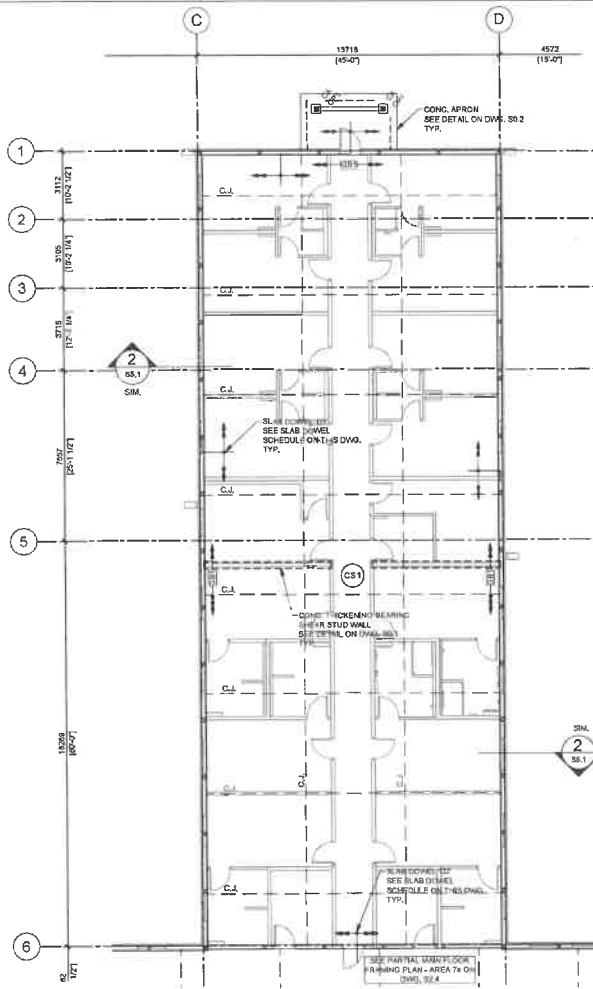
PROJECT:
 METIS NATION OF AB
 COMMUNITY RECOVERY
 CENTER
 SMOKY LAKE ALBERTA

DRAWING:
 PARTIAL PILE LAYOUT
 PLANS

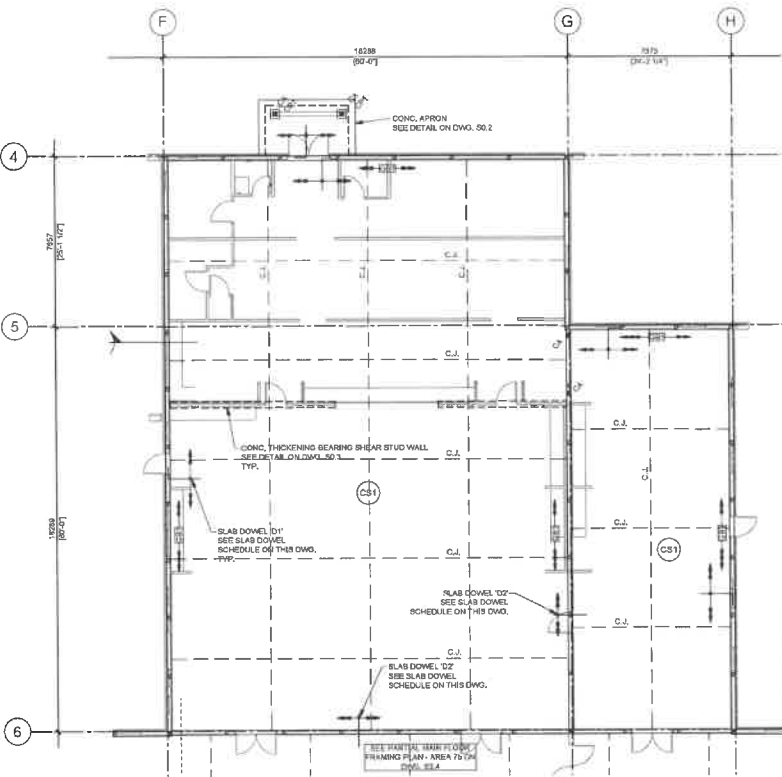
FILE:	25-1044048
PROJECT No.:	TWS-D-1044048
SCALE:	AS SHOWN
DATE:	2024-10-14
DRAWN BY:	GM
CHECKED BY:	GM

DRAWING No.	REVISION
S1.5	A

CONSULTANT: MELEWKA STRUCTURES & DESIGN (A/S) 2018-01-11 10:00 AM
 PROJECT: METIS NATION OF AB COMMUNITY RECOVERY CENTER
 DRAWING: PARTIAL MAIN FLOOR FRAMING PLANS
 SCALE: 1:100
 DATE: 2018-01-11

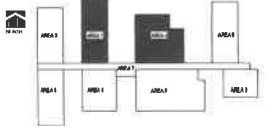


PARTIAL MAIN FLOOR FRAMING PLAN - AREA 1
 SCALE 1:100
 NORTH
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S0.1.
 2. SEE TYPICAL DETAILS ON DRAWING S0.2.
 3. SEE GEOTECHNICAL REPORT FOR FOOTING SUB-BASE PREPARATION.
 4. SEE MECHANICAL DRAWINGS FOR WEIRING TILE INSTALLATIONS.
 5. C.J. REFERS TO CONTROL JOINT (SAW CUT). SEE DETAIL ON DWG. S0.2.



PARTIAL MAIN FLOOR FRAMING PLAN - AREA 2
 SCALE 1:100
 NORTH
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING S0.1.
 2. SEE TYPICAL DETAILS ON DRAWING S0.2.
 3. SEE GEOTECHNICAL REPORT FOR FOOTING SUB-BASE PREPARATION.
 4. SEE MECHANICAL DRAWINGS FOR WEIRING TILE INSTALLATIONS.
 5. C.J. REFERS TO CONTROL JOINT (SAW CUT). SEE DETAIL ON DWG. S0.2.

KEY PLAN



NOTES:
 1. Show rebar in floor in the walls only and rebar in walls of 200mm diameter (200mm x 200mm) in the walls only for 400mm x 400mm. (15'-0").
 2. All dimensions, elevations and details, and rebar details are to be in metric units unless otherwise specified.
 3. All drawings are to be prepared by the Architect.
 4. The drawings are preliminary.
 5. Dimensions are to be in metric units, but all other dimensions, such as floor levels, are to be in imperial units, unless otherwise specified.
 6. These drawings are for the project: METIS NATION OF AB COMMUNITY RECOVERY CENTER.
 7. These drawings are for the project: METIS NATION OF AB COMMUNITY RECOVERY CENTER.
 8. These drawings are for the project: METIS NATION OF AB COMMUNITY RECOVERY CENTER.

CONCRETE GRADE BEAM SCHEDULE ('GB')

MARK	'GB1'
DIMENSION	200mm x 600mm
STEEL REINFORCEMENT	2-20M TOP 2-20M BOT. 10M @ 300mm O.C. TIES

SCHEMATIC SECTION

VOID FORM 150mm

CONCRETE SLAB SCHEDULE (CS)

MARK	DESCRIPTION
CS1	100mm THICK CONC. SLAB ON GRADE RAW 10M @ 400mm O.C. EACH WAY TOP ON 6 MIL VAPOUR BARRIER SEE GEOTECHNICAL REPORT FOR SUB-SOIL PREPARATION

CONCRETE PIER SCHEDULE (CP)

MARK	DESCRIPTION
CP1	400mm x 400mm x 1500mm TALL CONC. PIER RAW 4-15M VEST. 10M TIES @ 300 O.C.

CONCRETE SLAB DOWEL REINFORCEMENT (D)

MARK	BAR SIZE	X	SPACING	REMARKS
D1	10M	600mm	400mm O.C.	TOP
D2	10M	1500mm	400mm O.C.	TOP

PRELIMINARY
NOT FOR CONSTRUCTION

TWS Engineering Ltd.
 STRUCTURAL | MECHANICAL
 ELECTRICAL | CIVIL CONSULTING

NO.	ISSUED FOR CLIENT REVIEW	DATE
1	ISSUED FOR CLIENT REVIEW	2018-01-11
2	ISSUED FOR CLIENT REVIEW	2018-01-11

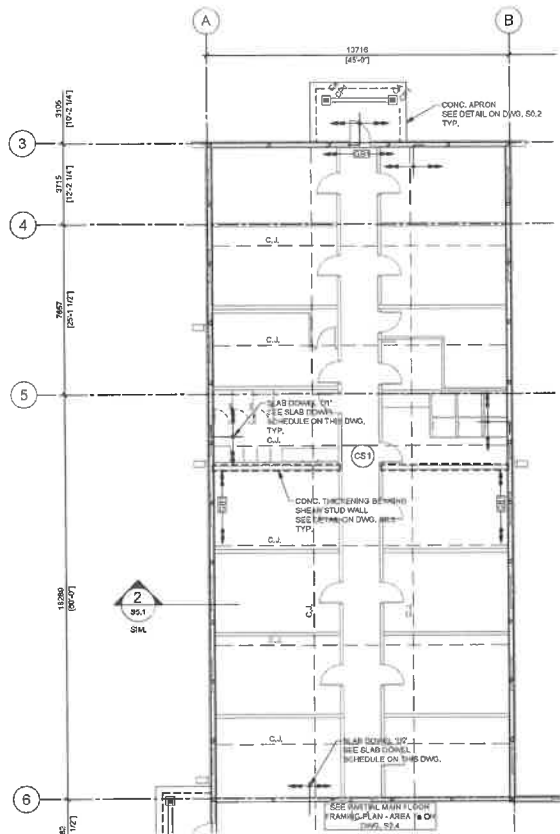
CLIENT: **MELEWKA STRUCTURES & DESIGN**

PROJECT: **METIS NATION OF AB COMMUNITY RECOVERY CENTER**
SMOXY LAKE ALBERTA

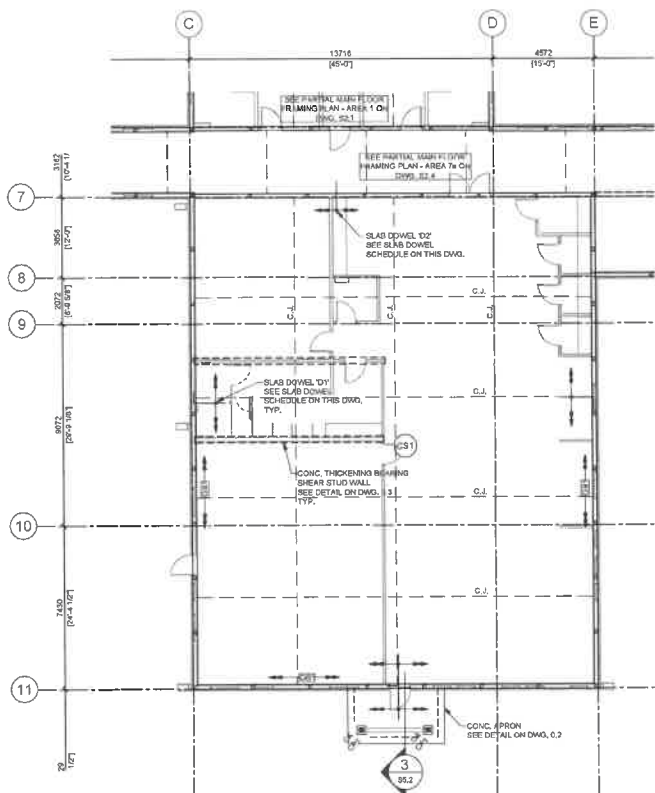
DRAWING: **PARTIAL MAIN FLOOR FRAMING PLANS**

FILE:	J51904446
PROJECT NO.:	TW 07-1453844
SCALE:	AS SHOWN
DATE:	2018-01-11
DRAWN BY:	OR
DRAWING No.:	REVISION
S2.1	A

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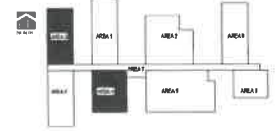


PARTIAL MAIN FLOOR FRAMING PLAN - AREA 3
 SCALE: 1:100
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING 30.1.
 2. SEE TYPICAL DETAILS ON DRAWING 30.2.
 3. SEE GEOTECHNICAL REPORT FOR FOOTING SUB-BASE PREPARATION.
 4. SEE MECHANICAL DRAWINGS FOR WEEPING TILE INSTALLATIONS.
 5. C.J. REFERS TO CONTROL JOINT (SAW CUT), SEE DETAIL ON DWG. 50.2.



PARTIAL MAIN FLOOR FRAMING PLAN - AREA 4
 SCALE: 1:100
 1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING 30.1.
 2. SEE TYPICAL DETAILS ON DRAWING 30.2.
 3. SEE GEOTECHNICAL REPORT FOR FOOTING SUB-BASE PREPARATION.
 4. SEE MECHANICAL DRAWINGS FOR WEEPING TILE INSTALLATIONS.
 5. C.J. REFERS TO CONTROL JOINT (SAW CUT), SEE DETAIL ON DWG. 50.2.

KEY PLAN



NOTES:
 1. Show through and if not in the table shall be subject to info.
 2. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN METERS AND TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 3. All drawings shall be subject to the approval of the client.
 4. All drawings shall be subject to the approval of the client.
 5. All drawings shall be subject to the approval of the client.
 6. All drawings shall be subject to the approval of the client.
 7. All drawings shall be subject to the approval of the client.
 8. All drawings shall be subject to the approval of the client.
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 14. All drawings shall be subject to the approval of the client.
 15. All drawings shall be subject to the approval of the client.
 16. All drawings shall be subject to the approval of the client.
 17. All drawings shall be subject to the approval of the client.
 18. All drawings shall be subject to the approval of the client.
 19. All drawings shall be subject to the approval of the client.
 20. All drawings shall be subject to the approval of the client.

CONCRETE GRADE BEAM SCHEDULE ('GB')

MARK	'GB1'
DIMENSION	200mm x 400mm
STEEL REINFORCEMENT	2-20M TOP 2-20M BOT. 10M @ 300mm O.C. TIES
SCHMATIC SECTION	
VOID FORM	150mm

CONCRETE SLAB SCHEDULE (CS)

MARK	DESCRIPTION
CS1	100mm THK. CONG. SLAB ON GRADE RW 10M @ 400mm O.C. EACH WAY TOP ON P.M. VAPOR BARRIER. SEE GEOTECHNICAL REPORT FOR SUB-SOIL PREPARATION

CONCRETE PIER SCHEDULE (CP)

MARK	DESCRIPTION
CP1	400mm x 400mm x 1500mm TALL CONG. PIER RW 4-10M REB. 10M TIES @ 9' O.C.

CONCRETE SLAB DOWEL REINFORCEMENT (D)

MARK	BAR SIZE	X	SPACING	REMARKS
D1	10M	800mm	400mm O.C.	TOP
D2	10M	1500mm	400mm O.C.	TOP

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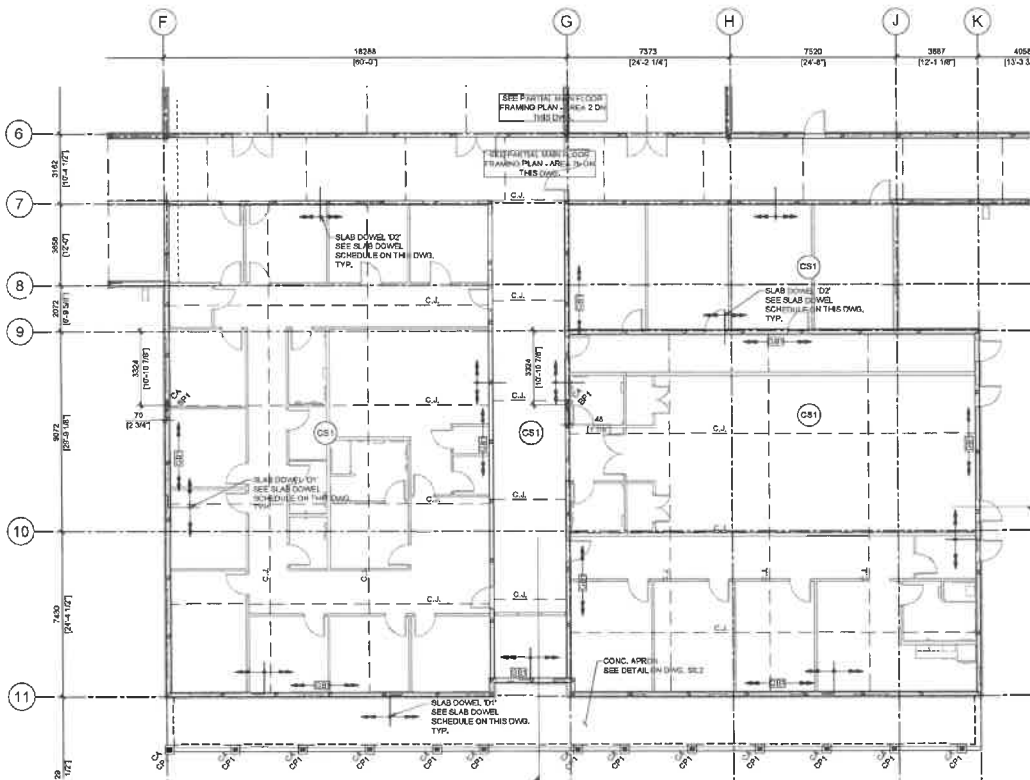
MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN
 ARCHITECTURE @ STUDIO LTD.
 300, 50th St. SW, Suite 100, Calgary, Alberta T2H 0B5
 Phone: (403) 263-8344 Fax: (403) 263-1927

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

DRAWING
 PARTIAL MAIN FLOOR FRAMING PLANS

FILE:	131804846
PROJECT No.:	TW 25-1613-046
SCALE:	A3 3/8"=1'-0"
DATE:	2025-10-14
DRAWN BY:	OH
DRAWING No.:	REVISION
S2.2	A



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

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING 90.1.
2. SEE TYPICAL DETAILS ON DRAWING 90.2.
3. SEE GEOTECHNICAL REPORT FOR FOOTING SUB-BASE PREPARATION.
4. SEE MECHANICAL DRAWINGS FOR WEPPING TILE INSTALLATIONS.
5. FOR STEEL BASE PLATE DETAIL, SEE DWG. 90.1.
6. C.J. REFERS TO CONTROL JOINT (SAW CUT), SEE DETAIL ON DWG. 90.2.

CONCRETE SLAB DOWEL REINFORCEMENT (D)

MARK	BAR SIZE	X	SPACING	REMARKS
D1	10M	800mm	400mm O.C.	TOP
D2	10M	1500mm	400mm O.C.	TOP

CONCRETE PIER SCHEDULE (CP)

MARK	DESCRIPTION
CP1	400mm x 400mm x 1500mm TALL CONC. PIER RW 4.15M VERT. 10M TIES @ 6" O.C.

CONCRETE SLAB SCHEDULE (CS)

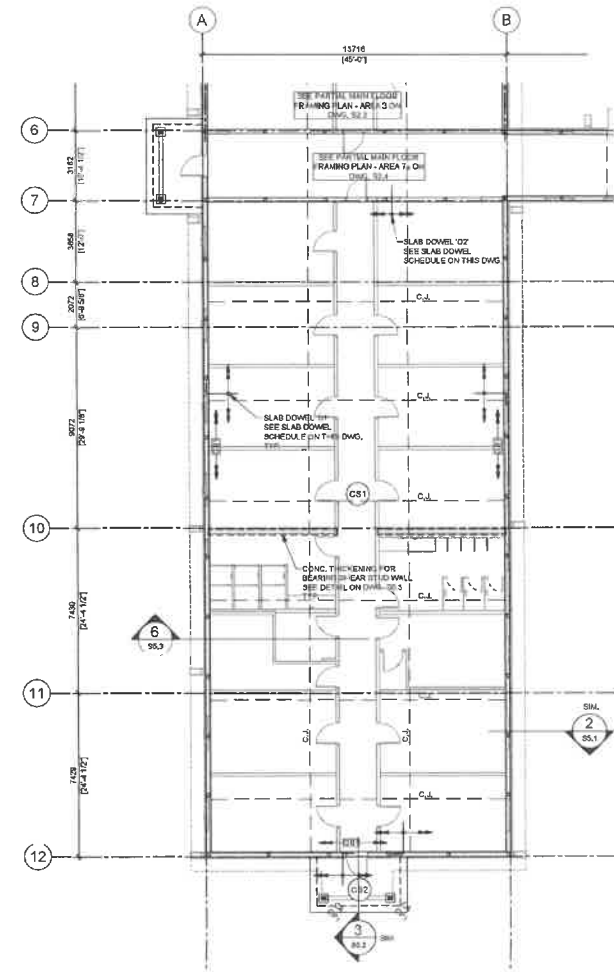
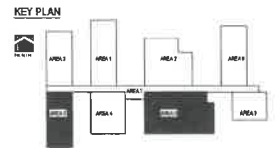
MARK	DESCRIPTION
CS1	100mm THK. CONC. SLAB ON GRADE RW 10M @ 400mm O.C. EACH WAY TOP ON 6 MIL VAPOUR BARRIER SEE GEOTECHNICAL REPORT FOR SUB-SOIL PREPARATION

CONCRETE GRADE BEAM SCHEDULE ('GB')

MARK	DESCRIPTION
GB1	200mm x 800mm
GB2	300mm TOP, 200mm BOT, 10M @ 300mm O.C. TIES

SCHEMATIC SECTION

VOID FORM 150mm



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

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING 90.1.
2. SEE TYPICAL DETAILS ON DRAWING 90.2.
3. SEE GEOTECHNICAL REPORT FOR FOOTING SUB-BASE PREPARATION.
4. SEE MECHANICAL DRAWINGS FOR WEPPING TILE INSTALLATIONS.
5. C.J. REFERS TO CONTROL JOINT (SAW CUT), SEE DETAIL ON DWG. 90.2.

NOTES

These drawings are to be used in conjunction with the drawings of other trades and shall be interpreted as such. It is the responsibility of the contractor to ensure that all trades are coordinated and that all work is completed in accordance with the drawings.

Use of dimensions, abbreviations and details, and report any discrepancy in the field report to the contractor.

If a discrepancy is noted, the contractor shall advise the architect immediately.

The architect is not responsible for the contractor's interpretation of the drawings.

These drawings are prepared in accordance with the provisions of the Act and the Regulations.

CONSULTANT/SCALE

PRELIMINARY
NOT FOR CONSTRUCTION



ISSUED FOR CLIENT REVIEW 2014-06-11
ISSUED FOR CLIENT REVIEW 2012-02-24

CLIENT
MELEWKA STRUCTURES & DESIGN

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310, 60th St. Suite 100, Edmonton, Alberta T2N 4M3
Phone: (403) 703-0300 Fax: (403) 252-7877

PROJECT
METIS NATION OF AB COMMUNITY RECOVERY CENTER
SMOKY LAKE ALBERTA

DRAWING
PARTIAL MAIN FLOOR FRAMING PLANS

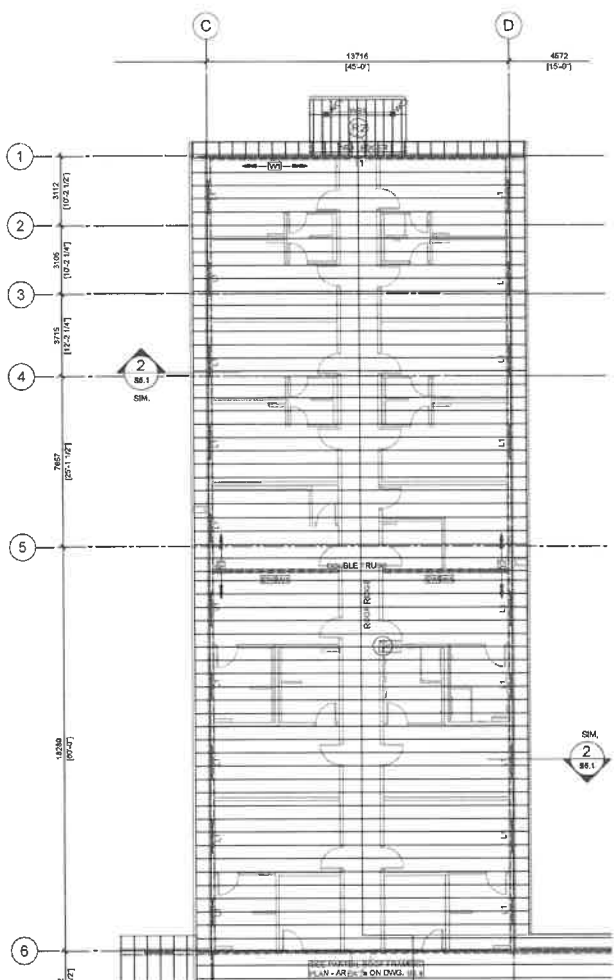
FILE:	25-104-008
PROJECT NO.:	TWS 25-104-008
SCALE:	AS SHOWN
DATE:	2014-04-11
DRAWN BY:	DR
REVISION:	

S2.3

A

I AM A REGISTERED PROFESSIONAL ENGINEER IN THE PROVINCE OF ALBERTA. I HAVE REVIEWED THESE DRAWINGS AND I AM SURE THAT THEY COMPLY WITH THE REQUIREMENTS OF THE PROFESSIONAL ENGINEERING ACT AND THE REGULATIONS THEREUNDER. I HAVE REVIEWED THESE DRAWINGS AND I AM SURE THAT THEY COMPLY WITH THE REQUIREMENTS OF THE PROFESSIONAL ENGINEERING ACT AND THE REGULATIONS THEREUNDER. I HAVE REVIEWED THESE DRAWINGS AND I AM SURE THAT THEY COMPLY WITH THE REQUIREMENTS OF THE PROFESSIONAL ENGINEERING ACT AND THE REGULATIONS THEREUNDER.

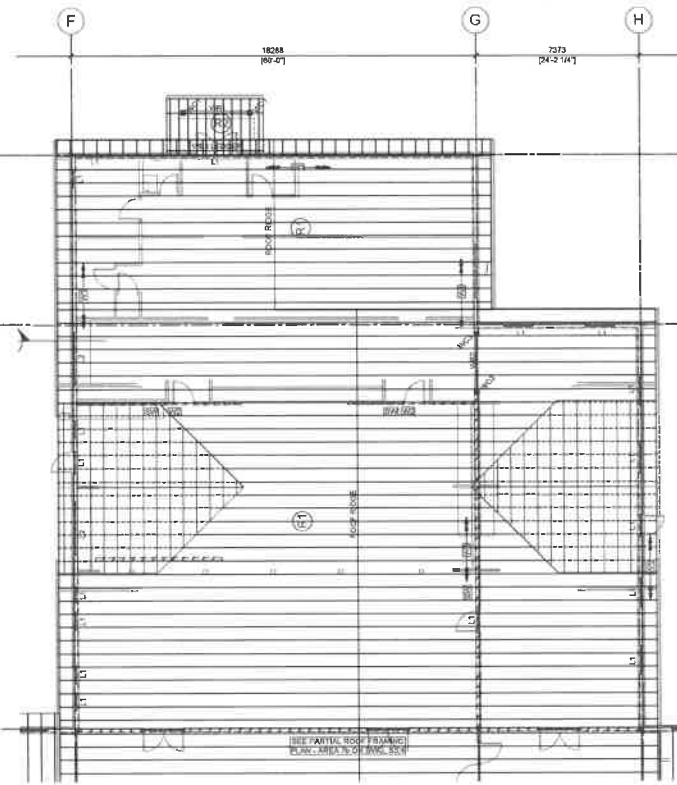
QUANTITY TAKE OFF BY: TERRY L. HARRIS, P.E. & ASSOCIATES, INC. DATE: 04/11/2014
 DRAWN BY: TERRY L. HARRIS, P.E. & ASSOCIATES, INC. DATE: 04/11/2014
 CHECKED BY: TERRY L. HARRIS, P.E. & ASSOCIATES, INC. DATE: 04/11/2014
 PROJECT: AB COMMUNITY RECOVERY CENTER



PARTIAL ROOF FRAMING PLAN - AREA 1
SCALE 1:100

NOTES:

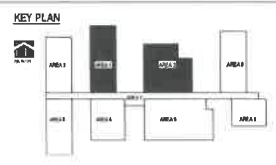
- SEE GENERAL AND STRUCTURAL NOTES ON DRAWING 90.1.
- SEE TYPICAL DETAILS ON DRAWING 90.2.
- CONTRACTOR TO COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING WORK.
- TRUSS JOISTS AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOIST SUPPLIER.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED ON SITE PRIOR TO JOIST FABRICATION.
- PROVIDE JOIST BRIDGING AS REQUIRED SPACED AT 2400mm MAX TOP & BOTTOM CHORDS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
- COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ROOF HATCH WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- ZZZZZ REFERS TO SHEARWALL, SEE DETAIL AND SCHEDULE ON DWG. 84.1



PARTIAL ROOF FRAMING PLAN - AREA 2
SCALE 1:100

NOTES:

- SEE GENERAL AND STRUCTURAL NOTES ON DRAWING 90.1.
- SEE TYPICAL DETAILS ON DRAWING 90.2.
- CONTRACTOR TO COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING WORK.
- TRUSS JOISTS AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOIST SUPPLIER.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED ON SITE PRIOR TO JOIST FABRICATION.
- PROVIDE JOIST BRIDGING AS REQUIRED SPACED AT 2400mm MAX TOP & BOTTOM CHORDS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
- COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ROOF HATCH WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- ZZZZZ REFERS TO SHEARWALL, SEE DETAIL AND SCHEDULE ON DWG. 84.1



ROOF FRAMING SCHEDULE (R)

MARK	DESCRIPTION
R1	WOOD ROOF TRUSSE @ 800mm O.C.
R2	3x2x8 (2x12) @ 400mm O.C. SPF NO.12

NOTES:

- WOOD TRUSSES TO BE DESIGNED BY WOOD SUPPLIER.
- ALL WOOD TRUSSES TO BE STAMPED BY SUPPLIER'S ENGINEER.
- PROVIDE BRIDGING @ 2'-0" O.C. (MAX).
- ALL DOUBLE JOIST (D.J.) BRIDGING ON WALL TO BE SUPPORTED WITH MIN. 3-BELTS AT WALL SUPPORT LOCATIONS.

WOOD BEAM SCHEDULE

MARK	SIZE	SPECIES/GRADE
WB1	3-PLY 3x6x208 (2x12)	P.T./SPF NO. 12
WB2	3-PLY 1 3/4" x 11 7/8" LVL	5100F-b-2.0E
WB3	3x6x208 (2x12)	P.T./SPF NO. 12
WB4	3-PLY 1 3/4" x 11 7/8" LVL	5100F-b-2.0E

WOOD COLUMN SCHEDULE (WC)

MARK	SIZE	SPECIES / GRADE
WC1	16x184 (8x8)	P.T./SPF NO. 12
WC2	4-PLY 3x6x140 (2x6)	SPF NO. 12
WC3	3-PLY 3x6x184 (2x6)	SPF NO. 12
WC4	5 1/4" x 5 1/4" PSL	1.8E PARALLAM

WOOD LINTEL BEAM SCHEDULE (L)

MARK	SIZE	SPECIES/GRADE
L1	3-PLY 1 3/4" x 7 1/4" LVL CW 1/8" PLATE 2 JACK STUDS E/S 2 CONT. STUDS E/S	3100F-b-2.0E - HEADER SPF NO. 12 - STUDS/PLATES
L2	3-PLY 1 3/4" x 9 1/4" LVL CW 1/8" PLATE 2 JACK STUDS E/S 2 CONT. STUDS E/S	3100F-b-2.0E - HEADER SPF NO. 12 - STUDS/PLATES

WOOD STUD WALL SCHEDULE (W)

MARK	DESCRIPTION
W1	3x6x140 (2x6) @ 400mm O.C.
W2	3x6x180 (2x6) @ 400mm O.C.
W3	3x6x184 (2x6) @ 400mm O.C.
W4	3x6x140 (2x6) @ 400mm O.C.

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

NOTES:

These drawings are to be used only when approved by the Engineer. The Engineer is not responsible for the design of the structure.

Verify all materials, dimensions and details, and report any discrepancies to the Engineer prior to construction.

All dimensions are to be verified on site prior to construction.

The Engineer is not responsible for the design of the structure.

These drawings are to be used only when approved by the Engineer. The Engineer is not responsible for the design of the structure.

CONSULTANT'S SEAL

PRELIMINARY
NOT FOR CONSTRUCTION



CLIENT: MELEWKA STRUCTURES & DESIGN

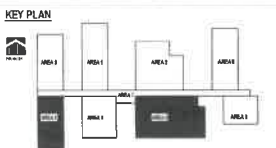
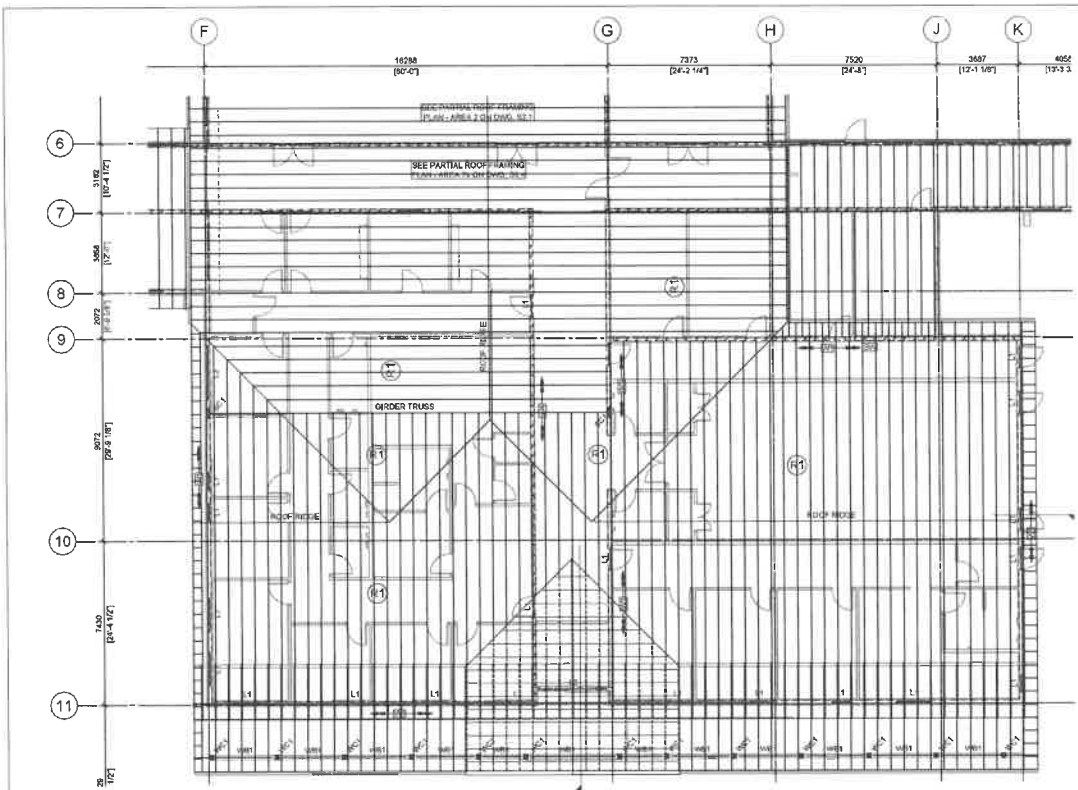
KUMLIN SULLIVAN
ARCHITECTURE STUDIO LTD.
330, 5300 - 7 Street SW, Calgary, Alberta T2N 0B5
Phone: (403) 253 0264 Fax: (403) 253 7377

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

DRAWING: PARTIAL ROOF FRAMING PLANS

FILE: 13-161204E
PROJECT NO.: TWS 23-161204E
SCALE: AS SHOWN
DATE: 09/05/14
DRAWN BY: GH
DRAWING NO.: REVISION

S3.1 A



NOTES

1. These drawings are to be used in conjunction with the contract documents and specifications.
2. Verify all dimensions, materials, and details, and report any discrepancies to the Architect prior to construction.
3. If existing conditions are shown, they are to be verified.
4. The drawings represent proposed means.
5. Dimensions are shown to face of member, unless otherwise indicated.
6. Refer to architectural drawings for roof slopes.
7. These drawings are prepared in accordance with the provisions of the Building Code of Canada.
8. These drawings were prepared and checked by the professional of the firm.

PARTIAL ROOF FRAMING PLAN - AREA 5
SCALE: 1/100

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING 50.1.
2. SEE TYPICAL DETAILS ON DRAWING 50.2.
3. CONTRACTOR TO COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING OF WORK.
4. TRUSS JOISTS AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOIST SUPPLIER.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED ON SITE PRIOR TO JOIST FABRICATION.
6. PROVIDE JOIST BRIDGING AS REQUIRED SPACED AT 2400mm MAX TOP & BOTTOM CHORD.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
8. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ROOF HATCH WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
9. ZZZZZZ REFERS TO SHEARWALL, SEE DETAIL AND SCHEDULE ON DWG. 54.1

ROOF FRAMING SCHEDULE (R)

MARK	DESCRIPTION
R1	WOOD ROOF TRUSS @ 450mm O.C.
R2	38x288 (2x12) @ 400mm O.C. S/PF NO. 1/2

NOTES:

- 1. WOOD TRUSS TO BE DESIGNED BY WOOD SUPPLIER.
- 2. ALL WOOD TRUSSES TO BE STAMPED BY SUPPLIER ENGINEER.
- 3. PROVIDE BRIDGING @ #407 O.C. (MAX).
- 4. ALL DOUBLE-CURTAIN BRACKING ON WALL TO BE SUPPORTED WITH MN. S-STUDS AT WALL SUPPORT LOCATIONS.

STEEL COLUMN SCHEDULE (SC)

MARK	SIZE	GRADE
SC1	HSS 102x102x6.4	350W

NOTE:
1. SEE BASE PLATE DETAILS ON DWG. 50.2

WOOD BEAM SCHEDULE

MARK	SIZE	SPECIES/GRADE
WB1	3-PLY 38x288 (2x12)	P.T./SPF NO. 1/2
WB2	3-PLY 1 3/4" x 11 7/8" LVL	3100FB-20E
WB3	38x288 (2x12)	P.T./SPF NO. 1/2
WB4	3-PLY 1 3/4" x 15" LVL	3100FB-20E

WOOD COLUMN SCHEDULE (WC)

MARK	SIZE	SPECIES / GRADE
WC1	180x184 (8x6)	P.T./SPF NO. 1/2
WC2	4PLY 38x140 (2x6)	SPF NO. 1/2
WC3	3PLY 38x184 (2x6)	SPF NO. 1/2
WC4	5 1/4" x 5 1/4" PSL	1.8E PARALLAM

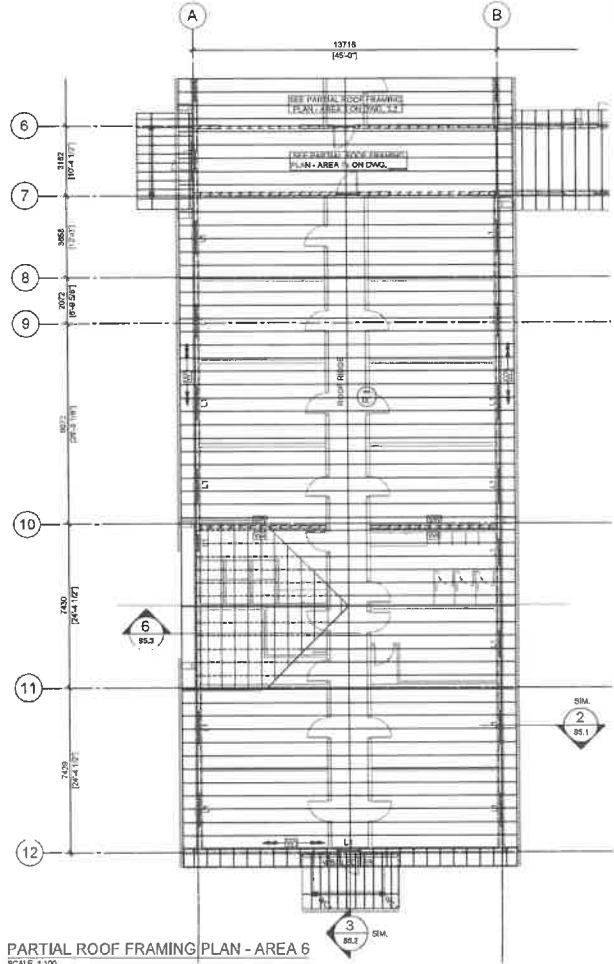
WOOD LINTEL BEAM SCHEDULE (L)

MARK	SIZE	SPECIES/GRADE
L1	3PLY 1 3/4" x 7 1/4" LVL C/W T&B PLATE 2 JACK STUDS E/S 2 CONT. STUDS E/S	3100FB-20E - HEADER SPF NO. 1/2 - STUD/PLATE/S
L2	3PLY 1 3/4" x 9 1/4" LVL C/W T&B PLATE 2 JACK STUDS E/S 2 CONT. STUDS E/S	3100FB-20E - HEADER SPF NO. 1/2 - STUD/PLATE/S

WOOD STUD WALL SCHEDULE (W)

MARK	DESCRIPTION
W1	38x140 (2x6) @ 400mm O.C.
W2	38x88 (2x4) @ 400mm O.C.
W3	38x184 (2x6) @ 400mm O.C.
W4	38x140 (2x6) @ 400mm O.C.

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



PARTIAL ROOF FRAMING PLAN - AREA 6
SCALE: 1/100

1. SEE GENERAL AND STRUCTURAL NOTES ON DRAWING 50.1.
2. SEE TYPICAL DETAILS ON DRAWING 50.2.
3. CONTRACTOR TO COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING OF WORK.
4. TRUSS JOISTS AND ALL MISCELLANEOUS ITEMS FOR ROOF FRAMING SHALL BE DESIGNED BY JOIST SUPPLIER.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED ON SITE PRIOR TO JOIST FABRICATION.
6. PROVIDE JOIST BRIDGING AS REQUIRED SPACED AT 2400mm MAX TOP & BOTTOM CHORD.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
8. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ROOF HATCH WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
9. ZZZZZZ REFERS TO SHEARWALL, SEE DETAIL AND SCHEDULE ON DWG. 54.1

**PRELIMINARY
NOT FOR CONSTRUCTION**



REVIEWED FOR CLIENT REVIEW: 2024-08-14
ISSUED FOR CLIENT REVIEW: 2024-08-14

CLIENT
MELEWKA STRUCTURES & DESIGN

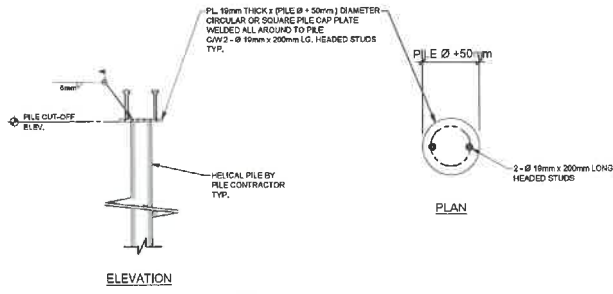
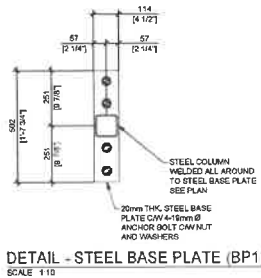
KUMLIN SULLIVAN
ARCHITECTURE STUDIO LTD.
310, 589 - J Street SW, Calgary, AB T2H 0R9
Phone: (403) 253-8364 Fax: (403) 253-9277

PROJECT
METIS NATION OF AB
COMMUNITY RECOVERY
CENTER
SMOXY LAKE ALBERTA

DRAWING
PARTIAL ROOF FRAMING
PLANS

FILE: 24-1045-044
PROJECT NO.: FW 24-1045-044
SCALE: AS SHOWN
DATE: 2024-11-14
DRAWN BY: DM
CHECKED BY: REVISION

S3.3 **A**



NOTES:
 These drawings are provided for the sole use of the client and are not to be used for any other purpose without the written consent of TWS Engineering Ltd.
 All dimensions are in millimeters unless otherwise stated.
 All drawings are subject to the provisions of the Alberta Building Code.
 The client is responsible for obtaining all necessary permits and approvals from the appropriate authorities.
 These drawings are prepared in accordance with the provisions of the Alberta Building Code.
 These drawings are prepared in accordance with the provisions of the Alberta Building Code.

PRELIMINARY
 NOT FOR CONSTRUCTION



ISSUED FOR CLIENT REVIEW 2024-08-11
 ISSUED FOR CLIENT REVIEW 2024-08-11

CLIENT
 MELEWKA STRUCTURES & DESIGN

KUMLIN SULLIVAN
 ARCHITECTURE STUDIO LTD.
 300, 6400 - 7 Street SW, Calgary, Alberta T2N 0R9
 Phone: (403) 252-0384 Fax: (403) 252-7977

PROJECT
 METIS NATION OF AB
 COMMUNITY RECOVERY
 CENTER
 SMOKY LAKE ALBERTA

DRAWING
 DETAILS

FILE: 24-015-048
 PROJECT No.: TWS 24-065-006
 SCALE: AS SHOWN
 DATE: 2024-11-11
 DRAWN BY: CH

DRAWING No.: **S4.1** REVISION: **A**

0.000000 - 0.000000 MELEWKA STRUCTURES & DESIGN ARCHITECTURE STUDIO LTD. ALL RIGHTS RESERVED. THIS DRAWING IS THE PROPERTY OF MELEWKA STRUCTURES & DESIGN ARCHITECTURE STUDIO LTD. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. DATE: 2024-11-11



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

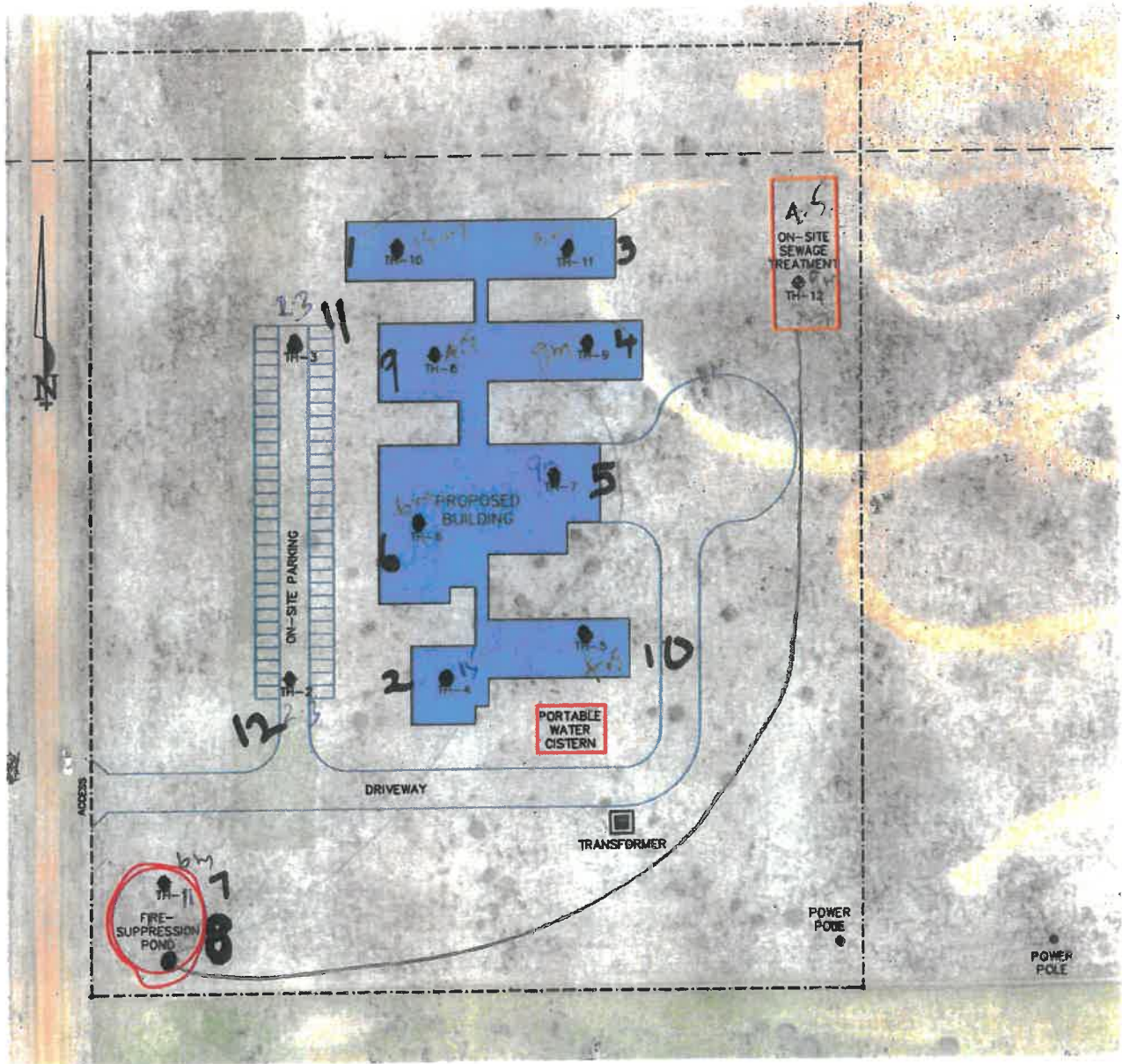
Depth Below Existing Grade (m)	Factored ULS Skin Friction (kPa)
0.0 to 1.5	0
1.5 to 3.0	18
3.0 to 9.0	20
9.0 to 15.0	23
Below 15.0	25

- 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

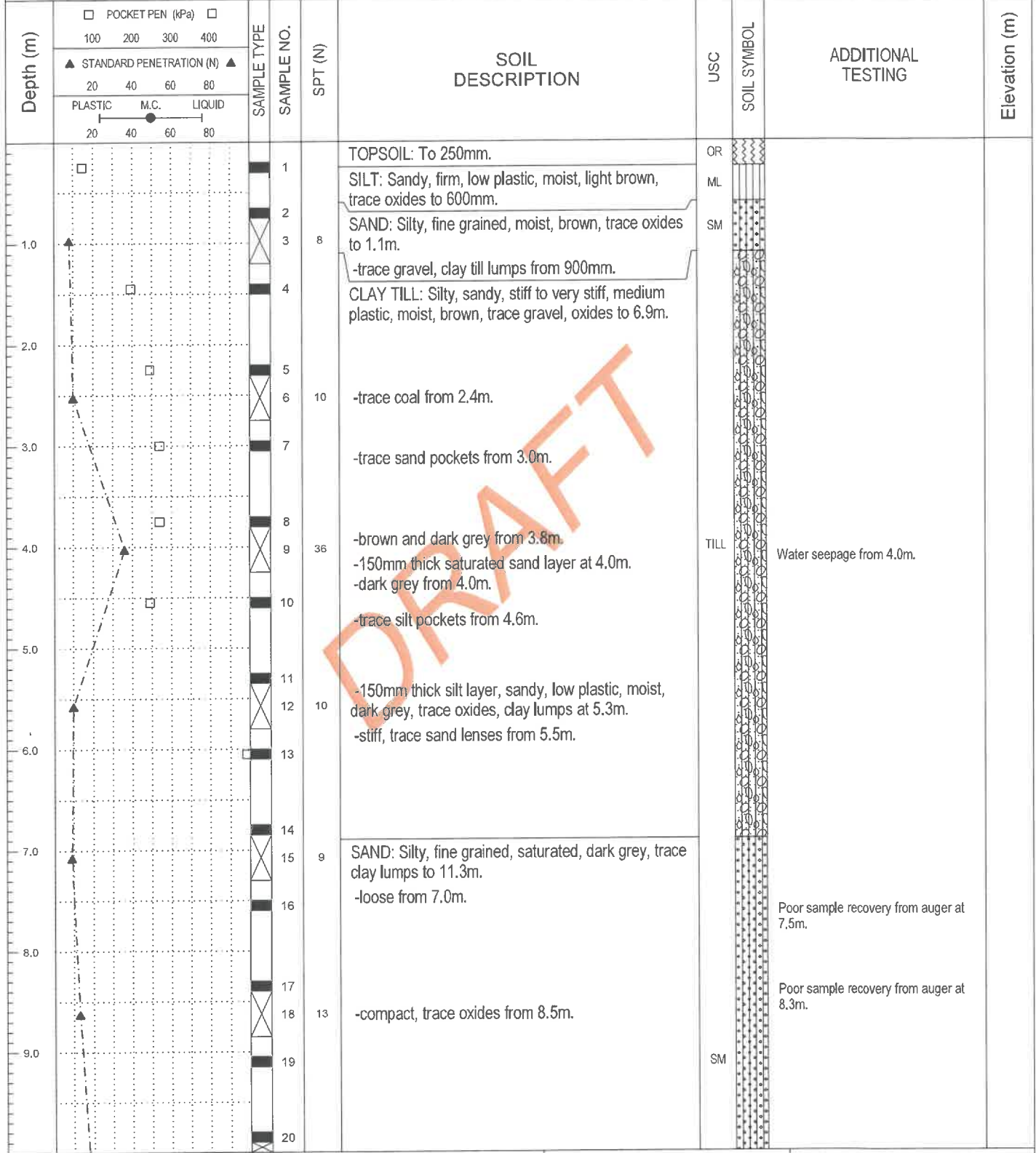
The information provided above is preliminary, and subject to revision in whole or in part upon completion of laboratory testing.



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 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		



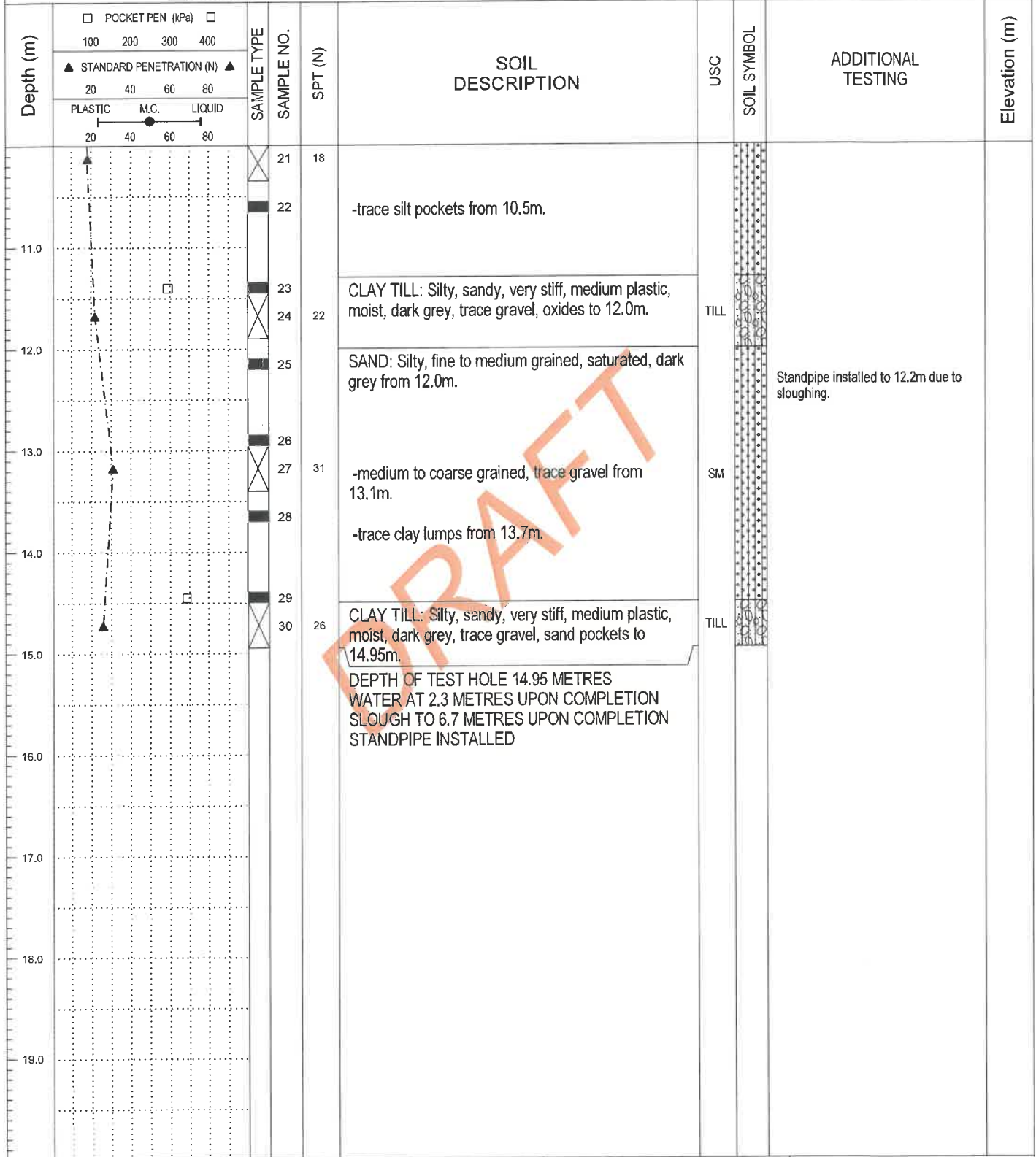
#172, 2693 BROADMOOR BLVD.
SHERWOOD PARK, AB
T8H 0G1

LOGGED BY: MD
REVIEWED BY: SD
FIGURE NO.: 3

COMPLETION DEPTH: 14.95 m
COMPLETION DATE: 5/23/24
Page 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.:

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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



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

LOGGED BY: MD

REVIEWED BY: SD

FIGURE NO.: 3

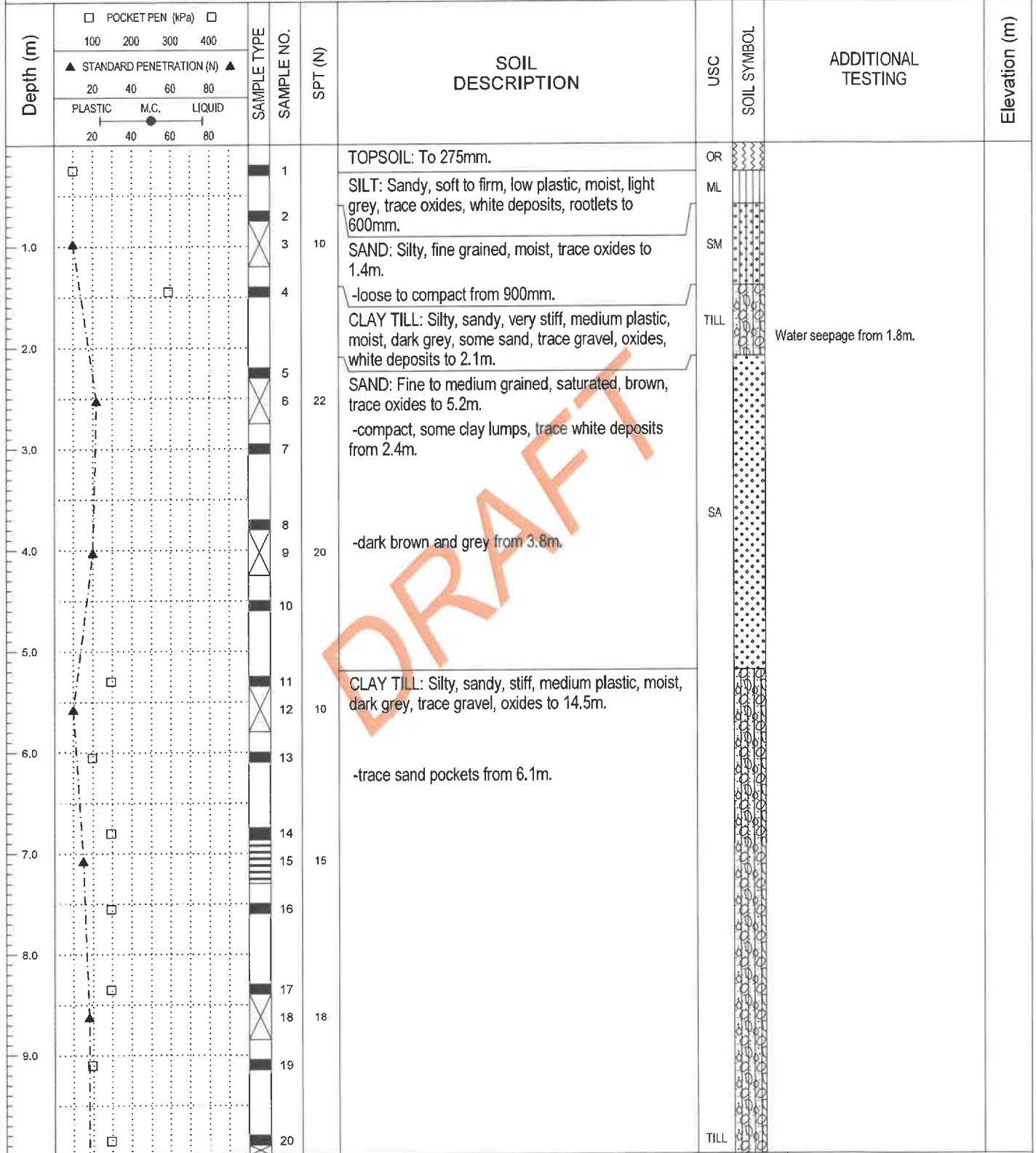
COMPLETION DEPTH: 14.95 m

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 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



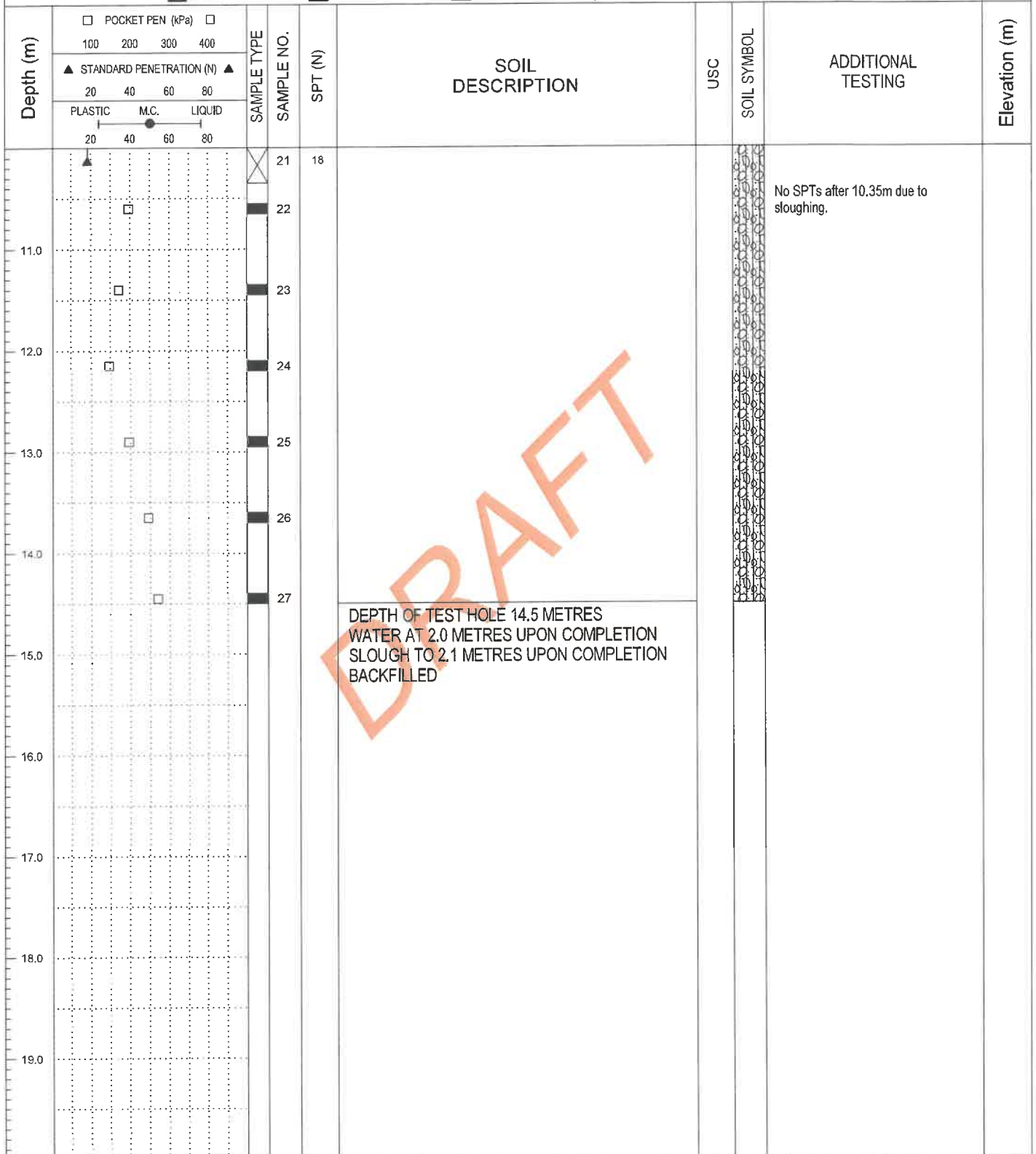
#172, 2693 BROADMOOR BLVD.
 SHERWOOD PARK, AB
 T8H 0G1

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

COMPLETION DEPTH: 14.50 m
 COMPLETION DATE: 5/23/24
 Page 1 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.:

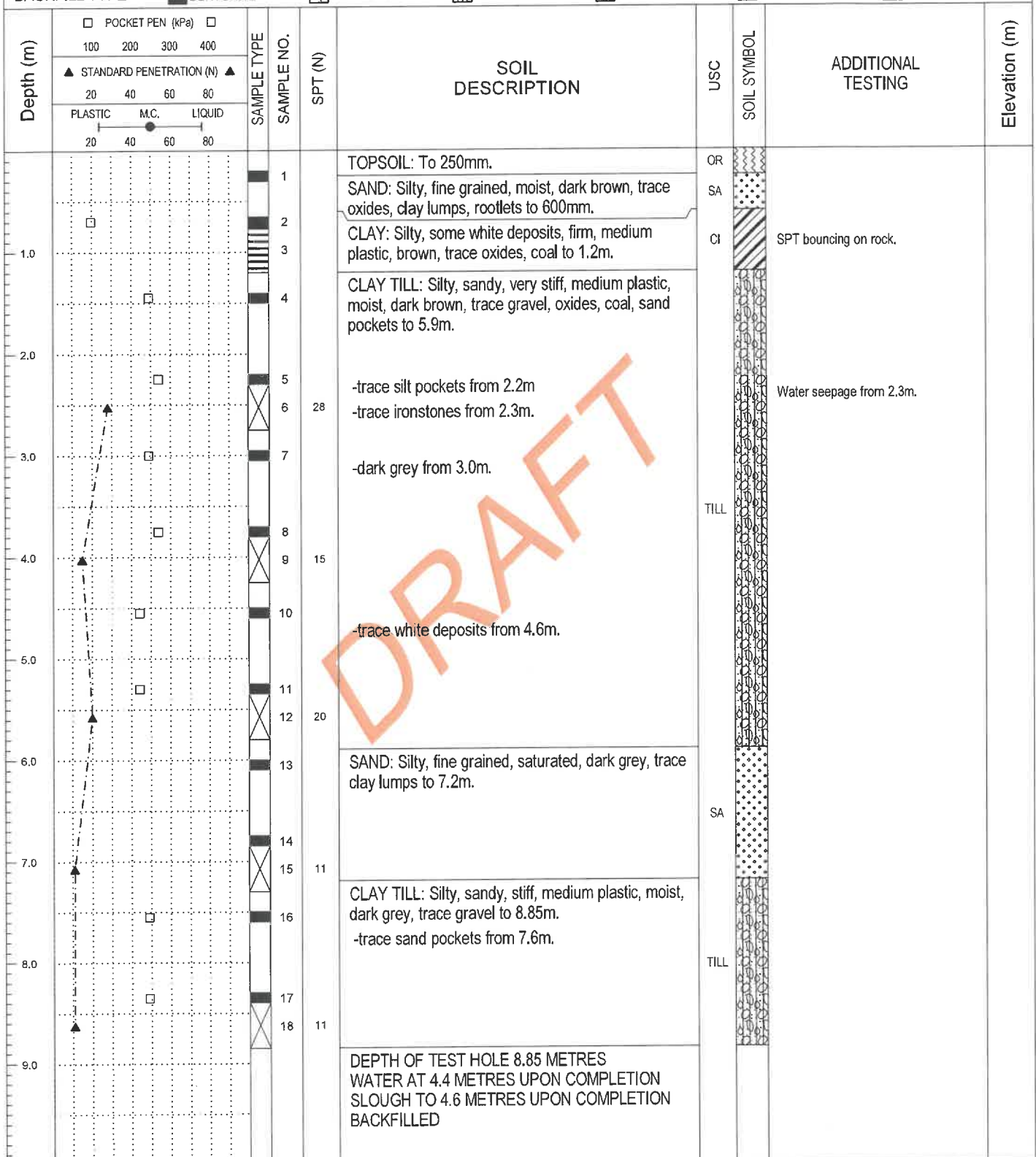
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BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input checked="" type="checkbox"/> PEA GRAVEL	<input checked="" type="checkbox"/> SLOUGH	<input checked="" type="checkbox"/> GROUT	<input checked="" type="checkbox"/> DRILL CUTTINGS	<input checked="" type="checkbox"/> SAND



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

LOGGED BY: MD	COMPLETION DEPTH: 14.50 m
REVIEWED BY: SD	COMPLETION DATE: 5/23/24
FIGURE NO.: 4	Page 2 of 2

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.:
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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



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

LOGGED BY: MD

REVIEWED BY: SD

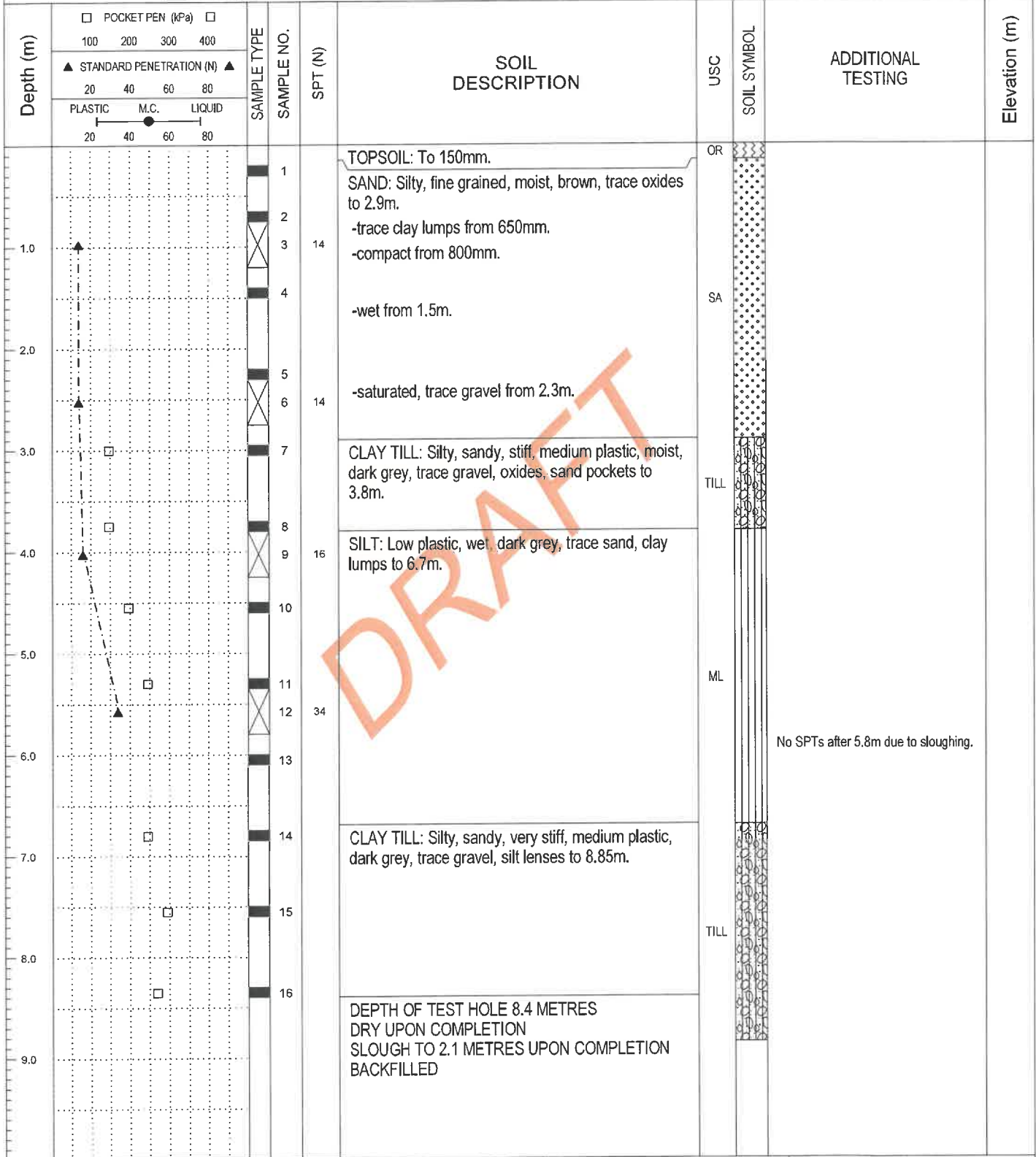
FIGURE NO.: 5

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.:
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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		



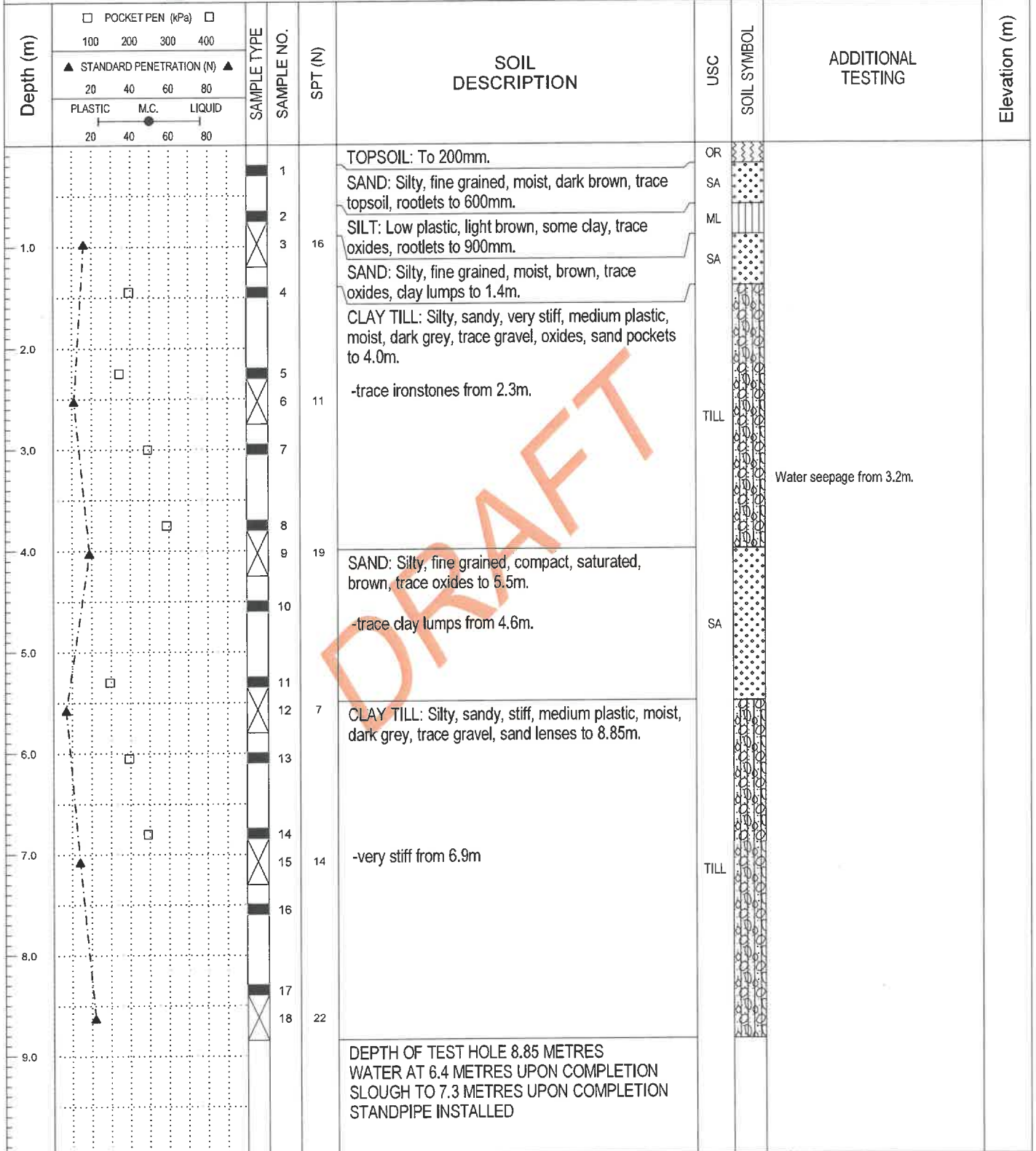
#172, 2693 BROADMOOR BLVD.
SHERWOOD PARK, AB
T8H 0G1

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

COMPLETION DEPTH: 8.40 m
COMPLETION DATE: 5/27/24
Page 1 of 1

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.:

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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



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

LOGGED BY: MD

REVIEWED BY: SD

FIGURE NO.: 7

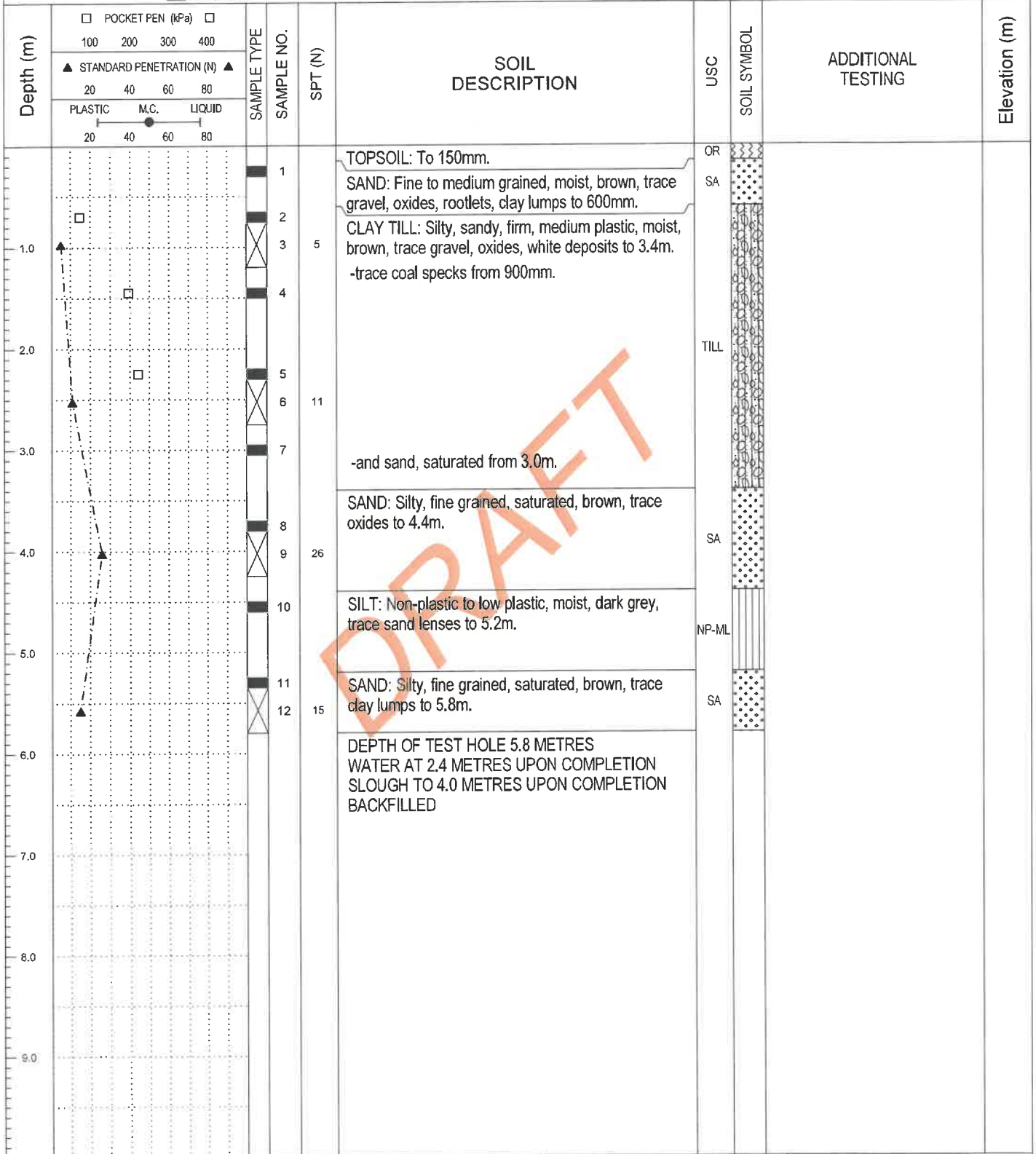
COMPLETION DEPTH: 8.85 m

COMPLETION DATE: 5/27/24

Page 1 of 1

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 type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND



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

LOGGED BY: MD

REVIEWED BY: SD

FIGURE NO.: 8

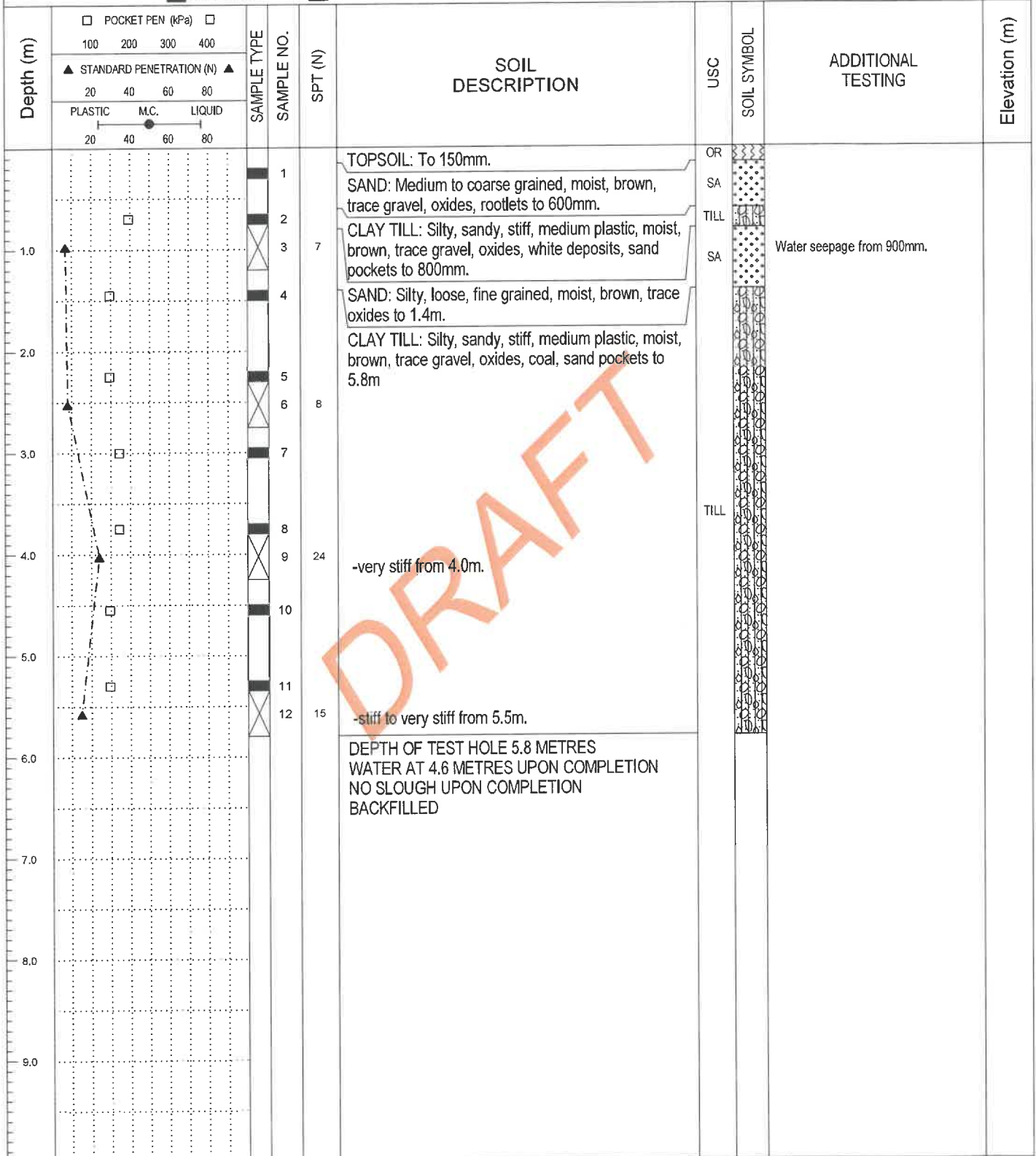
COMPLETION DEPTH: 5.80 m

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 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

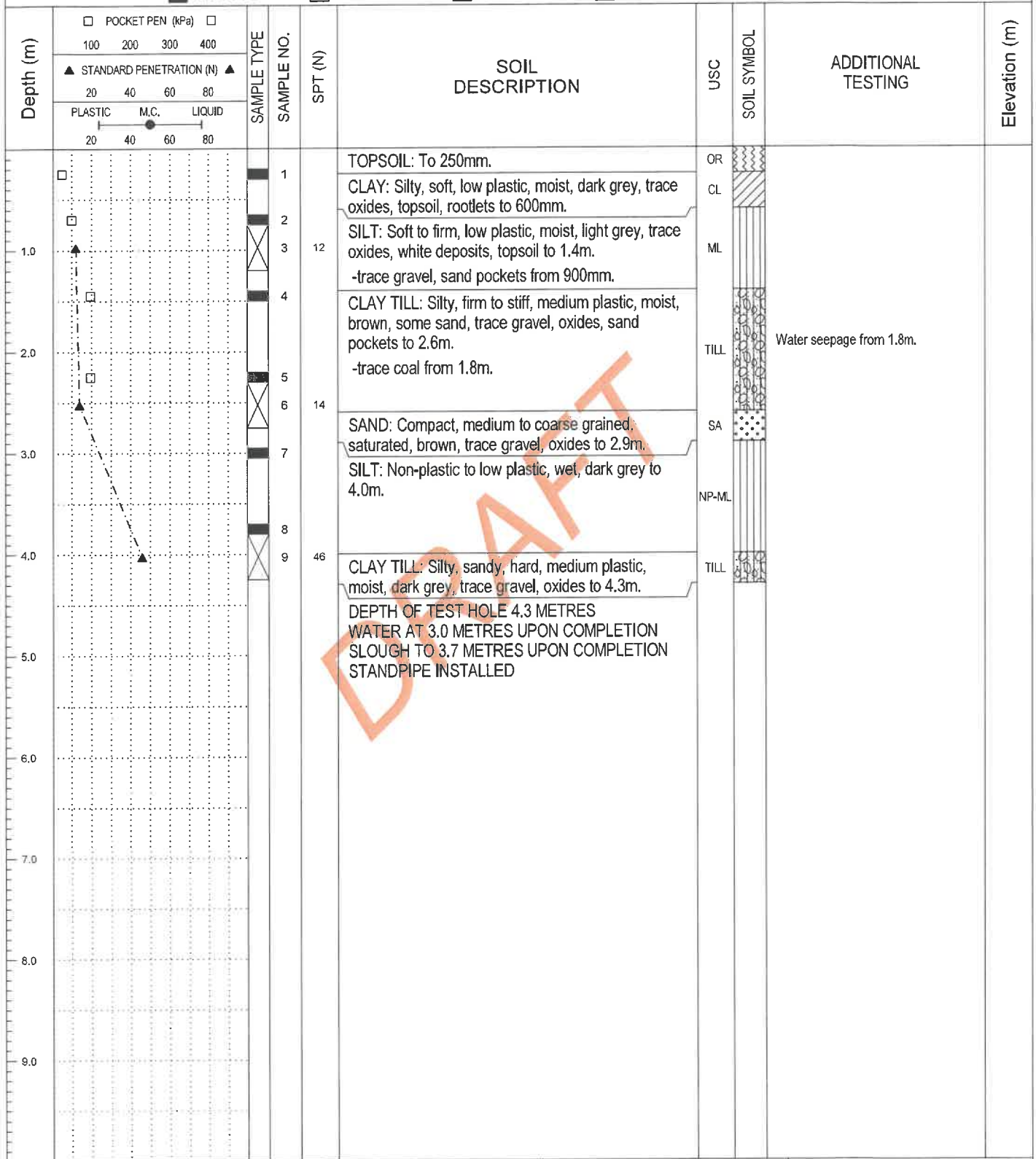


#172, 2693 BROADMOOR BLVD.
SHERWOOD PARK, AB
T8H 0G1

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		



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

LOGGED BY: MD

REVIEWED BY: SD

FIGURE NO.: 10

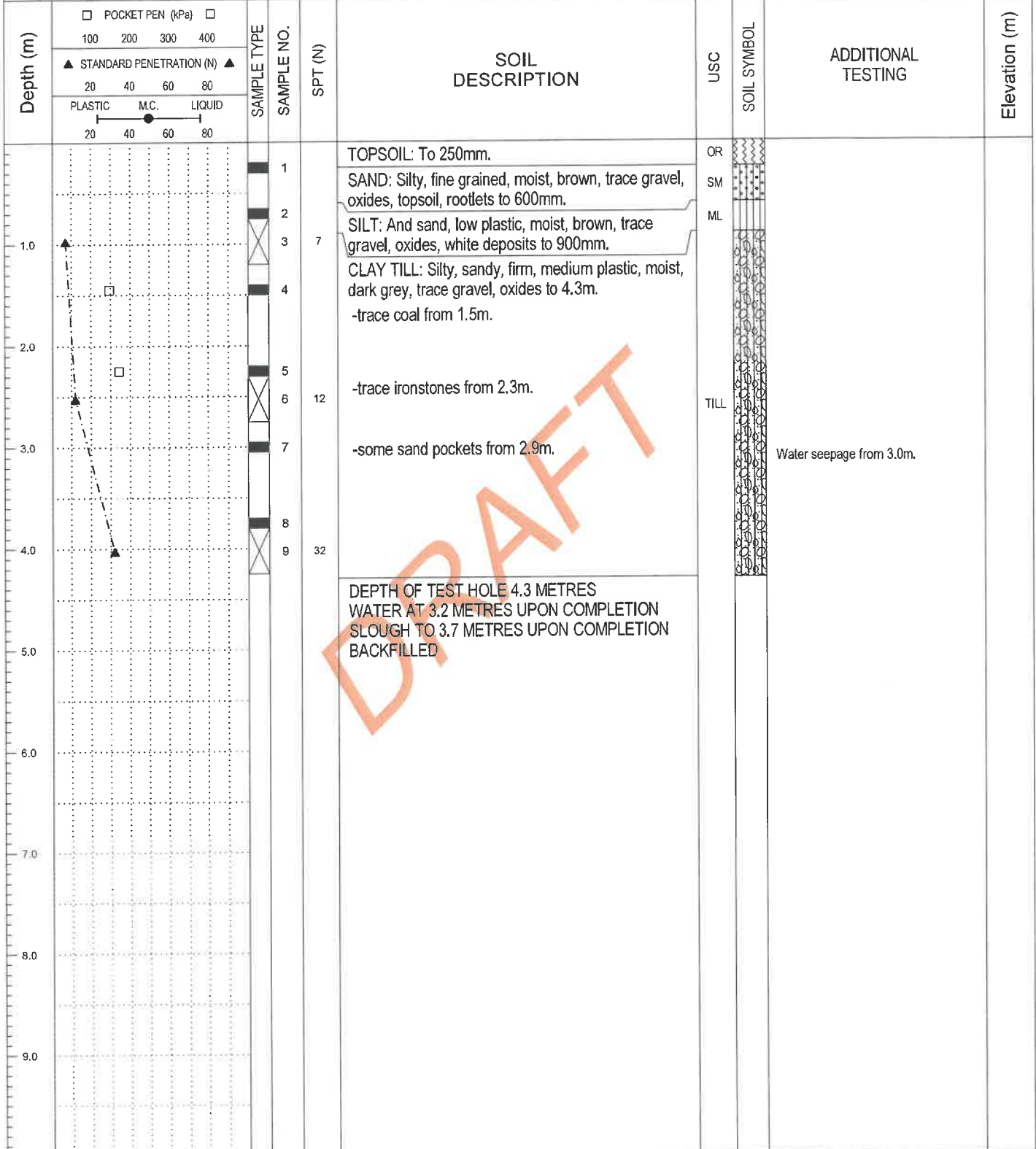
COMPLETION DEPTH: 4.25 m

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 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



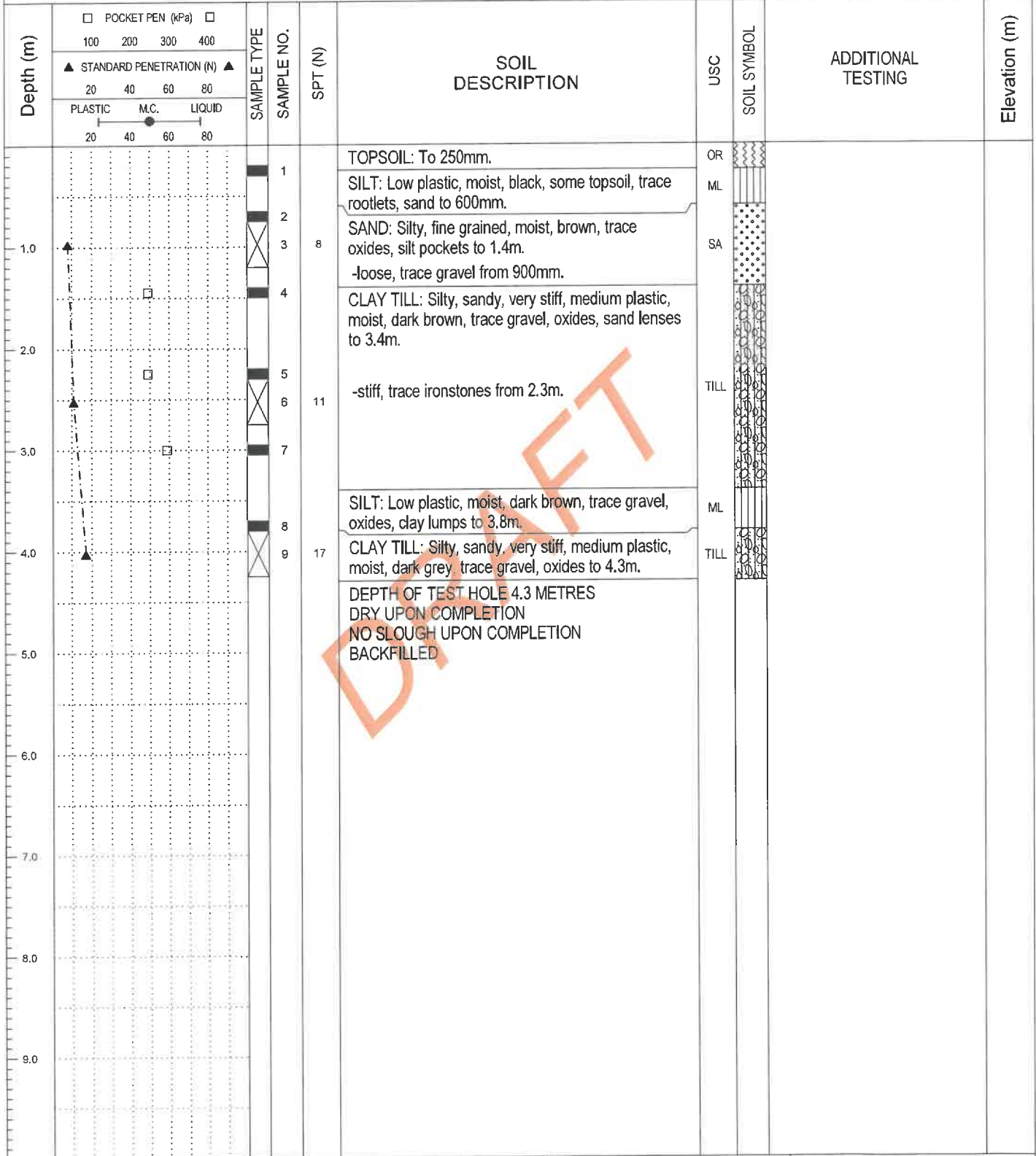
#172, 2693 BROADMOOR BLVD.
 SHERWOOD PARK, AB
 T8H 0G1

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



#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 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								
	▲ STANDARD PENETRATION (N) ▲									
	PLASTIC		M.C.	LIQUID						
	20	40	60	80						
1.0						TOPSOIL: To 200mm.	OR			
2.0						CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, trace gravel, oxides, sand lenses, white deposits to 2.3m.	TILL			
3.0						-trace coal specks from 800mm.				
4.0						DEPTH OF TEST HOLE 2.3 METRES				
5.0						DRY UPON COMPLETION				
6.0						NO SLOUGH UPON COMPLETION				
7.0						BACKFILLED				
8.0										
9.0										

DRAFT

 #172, 2693 BROADMOOR BLVD. SHERWOOD PARK, AB T8H 0G1	LOGGED BY: MD	COMPLETION DEPTH: 2.30 m
	REVIEWED BY: SD	COMPLETION DATE: 5/23/24
	FIGURE NO.: 13	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 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) ▲											
	PLASTIC		M.C.	LIQUID								
	20	40	60	80								
1.0						TOPSOIL: To 200mm.	OR					
						CLAY TILL: Silty, sandy, stiff, medium plastic, moist, brown, trace gravel, oxides, white deposits, sand lenses to 600mm.	TILL					
						CLAY: Silty, firm, medium plastic, brown, trace gravel, oxides, white deposits, sand lenses to 900mm.	CI					
						CLAY TILL: Silty, sandy, very stiff, medium plastic, moist, dark grey, trace gravel, oxides, sand pockets to 2.1m.	TILL					
						SAND: Silty, fine grained, saturated, grey, trace oxides, clay lumps to 2.3m.	SA					
						DEPTH OF TEST HOLE 2.3 METRES DRY UPON COMPLETION NO SLOUGH UPON COMPLETION BACKFILLED						

DRAFT



#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

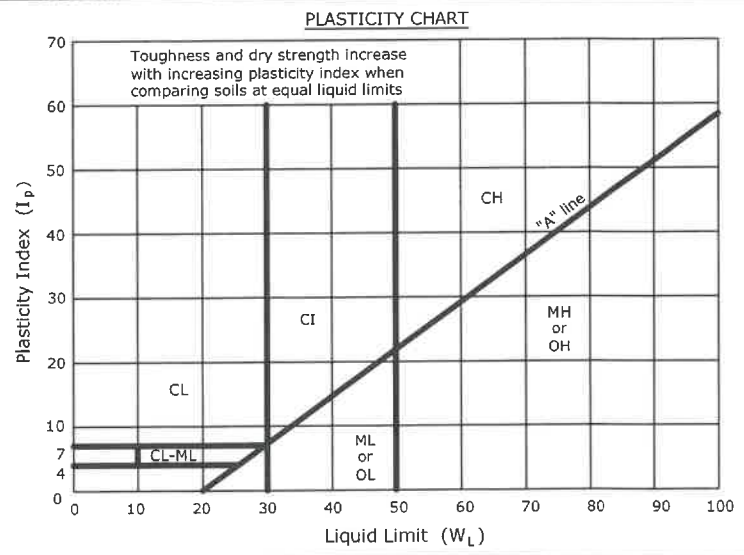
SOIL CLASSIFICATION SYSTEM (MODIFIED U.S.C.)

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	GRAVELS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO.4 SIEVE	CLEAN GRAVELS LESS THAN 5% FINES		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, < 5% FINES	$C_u = \frac{D_{60}}{D_{10}} > 4$ $1 \leq C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} \leq 3$		
		DIRTY GRAVELS MORE THAN 12% FINES		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 $I_p < 4$		
		DIRTY GRAVELS MORE THAN 12% FINES		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		CLEAN SANDS LESS THAN 5% FINES		SW
		DIRTY SANDS MORE THAN 12% FINES				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 $I_p < 4$	
	DIRTY SANDS MORE THAN 12% FINES		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
	CLAYS ABOVE "A" LINE ON PLASTICITY CHART; NEGLECTIBLE ORGANIC CONTENT				MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS, FINE SANDY OR SILTY SOILS	$W_L > 50$	
CL					INORGANIC CLAYS OF LOW PLASTICITY, GRAVELLY, SANDY, OR SILTY CLAYS, LEAN CLAYS	$W_L < 30$		
CLAYS ABOVE "A" LINE ON PLASTICITY CHART; NEGLECTIBLE ORGANIC CONTENT		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.

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,

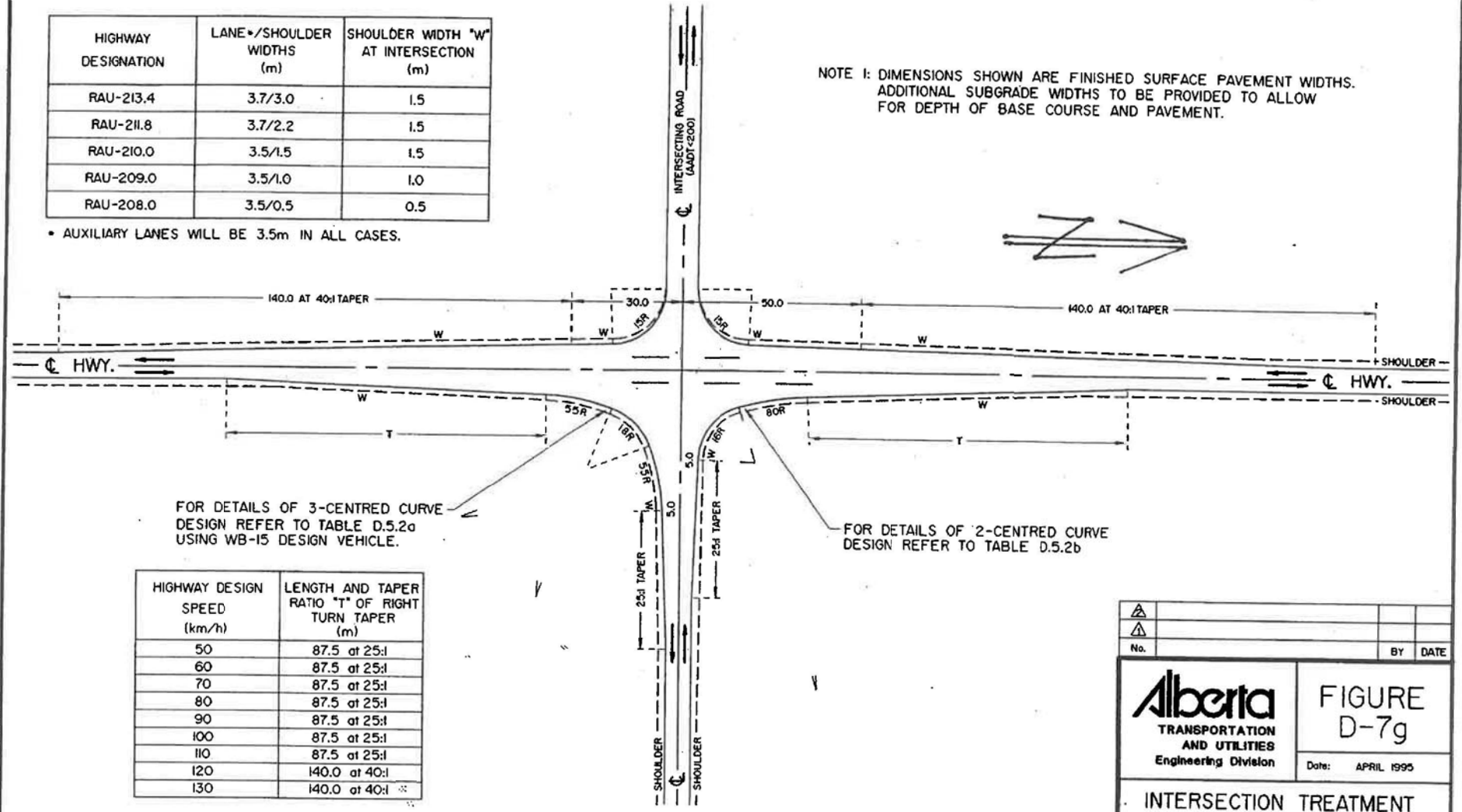
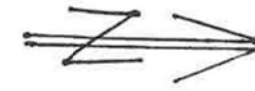
Adam Brown, EIT
Project Engineer

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.

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

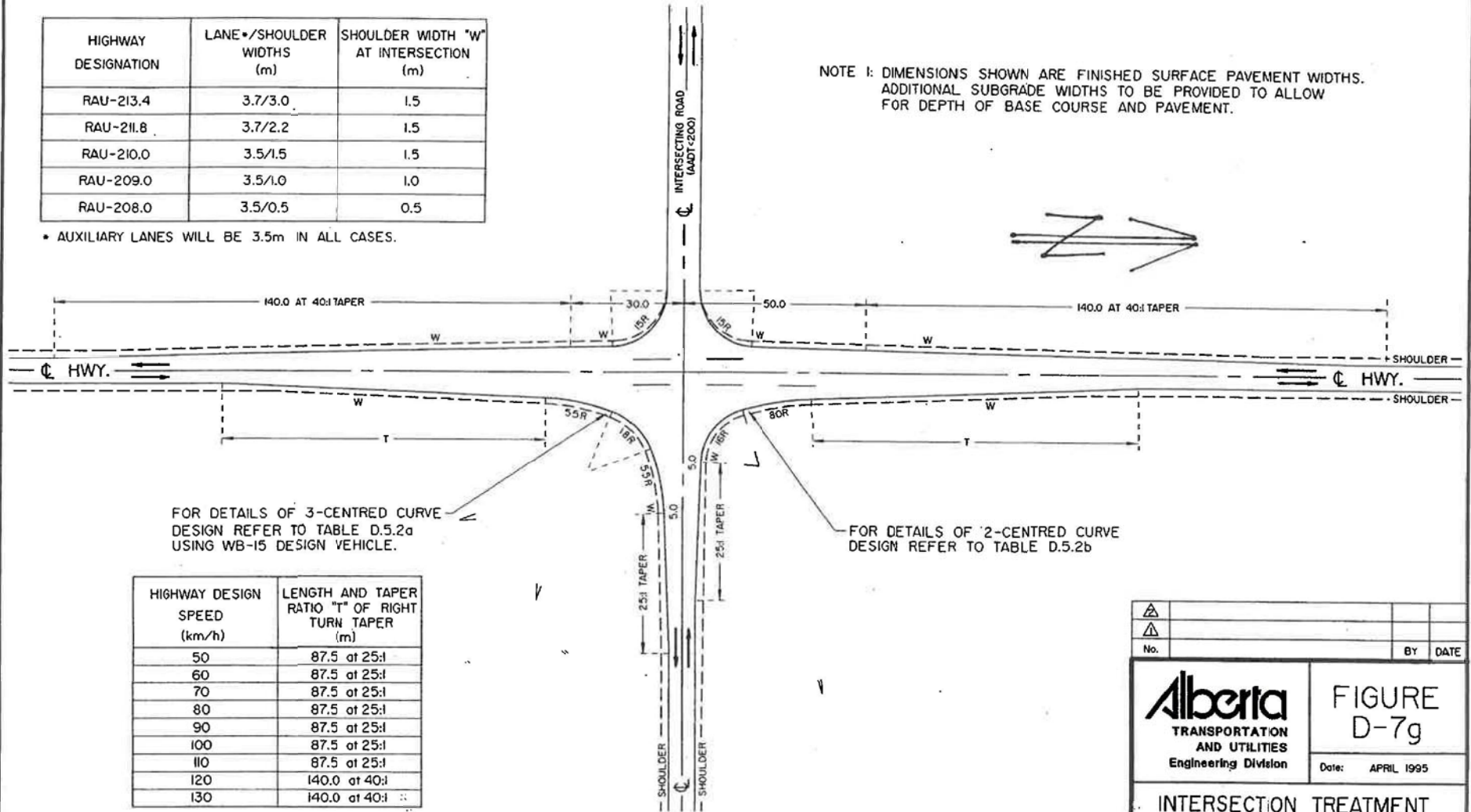
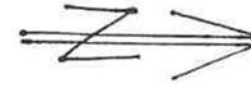
		FIGURE D-7g Date: APRIL 1995	
INTERSECTION TREATMENT TYPE IIIb (TWO-LANE HIGHWAY)			
Prepared By: Cgk	Checked By: B.J.K.	Scale: N.T.S.	PAGE D-125

Graphics File: DEI[200.22]cb623m66.dgn

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.



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HIGHWAY DESIGN SPEED (km/h)	LENGTH AND TAPER RATIO "T" OF RIGHT TURN TAPER (m)
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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	
No. _____		BY _____ DATE _____	
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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Its contents (including any attachments) may contain confidential and/or privileged information. If you are not an intended recipient you must not use, disclose, disseminate, copy or print its contents. If you receive this e-mail in error, please notify the sender by reply e-mail and delete and destroy the message.



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.

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- Existing guardrail adjacent to the highway extends north from the bridge abutment to the access road and around the flare.
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- 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

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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

06/09/2005

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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

□

**ALBERTA HIGHWAYS 1 TO 986
TRAFFIC VOLUME, VEHICLE CLASSIFICATION, TRAVEL and ESAL STATISTICS REPORT
2004**

Alberta Infrastructure and Transportation
Program Management Branch
Highway Asset Management Section

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

Hwy	CS	TCS	Muni	From	To	Length In Km	Volume		Classifications					Travel MKM		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 626 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	SA#2	N OF 9 S OF WATTS	E OF 589 NW OF ENDIANG	38.494	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 WATTS	E OF 589 NW OF ENDIANG	38.494	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	Pnte	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	Pnte	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	29.5	39.8
855	08	04	Flag	N OF 53 S OF HEISLER WJ	S OF 13 SE OF DAYSLAND 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 DAYSLAND 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 DAYSLAND WJ	S OF 26 S OF HOLDEN	17.541	380	410	83.5	3.2	0.5	6.0	6.8	13.3	2.4	1.1	10.0	26.8	36.8
855	10			N OF 13 AT DAYSLAND WJ	S OF 26 S OF HOLDEN	17.541	380	410	83.5	3.2	0.5	6.0	6.8	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 626 N OF HOLDEN EJ	15.255	270	280	78.4	2.5	5.0	7.8	6.3	19.1	1.5	0.7	9.3	17.6	26.9
855	12			N OF 26 S OF HOLDEN	S OF 626 N OF HOLDEN EJ	38.906	325	347	80.9	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 & 16 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 & 16 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 637 SE OF ZAWALE	20.497	1640	1790	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	11.643	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	1080	87.3	3.2	0.1	4.9	4.5	9.5	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	26.149	610	700	86.2	2.2	1.5	4.7	5.4	11.6	5.8	2.8	12.6	34.1	46.7
855	18			N OF 45 S OF UKALTA WJ	S OF 28 N OF SMOKY LAKE	26.149	610	700	86.2	2.2	1.5	4.7	5.4	11.6	5.8	2.8	12.6	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	23.154	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	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	Atha	N OF 663 E OF CASLAN	S OF 55 & 63 W 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 55 & 63 W 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 WATTS	S OF 55 & 63 W OF ATMORE NJ	364.166	408	452	83.3	3.1	1.3	5.7	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	0.549	1410	1560	84.4	3.0	0.1	3.8	8.7	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	25.491	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 53 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 53 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.



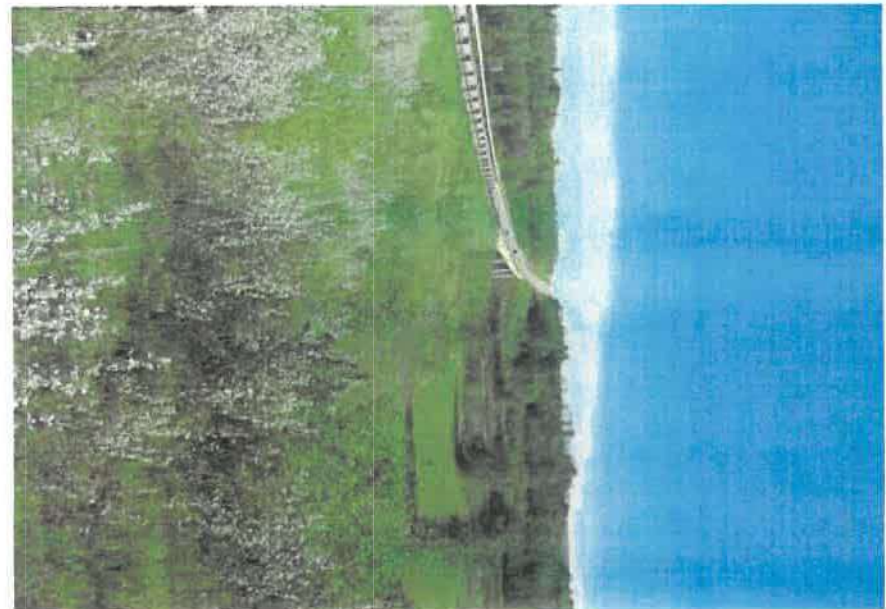
Picture 5 : View South, guardrail.



Picture 6 : North sight distance from intersection.



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



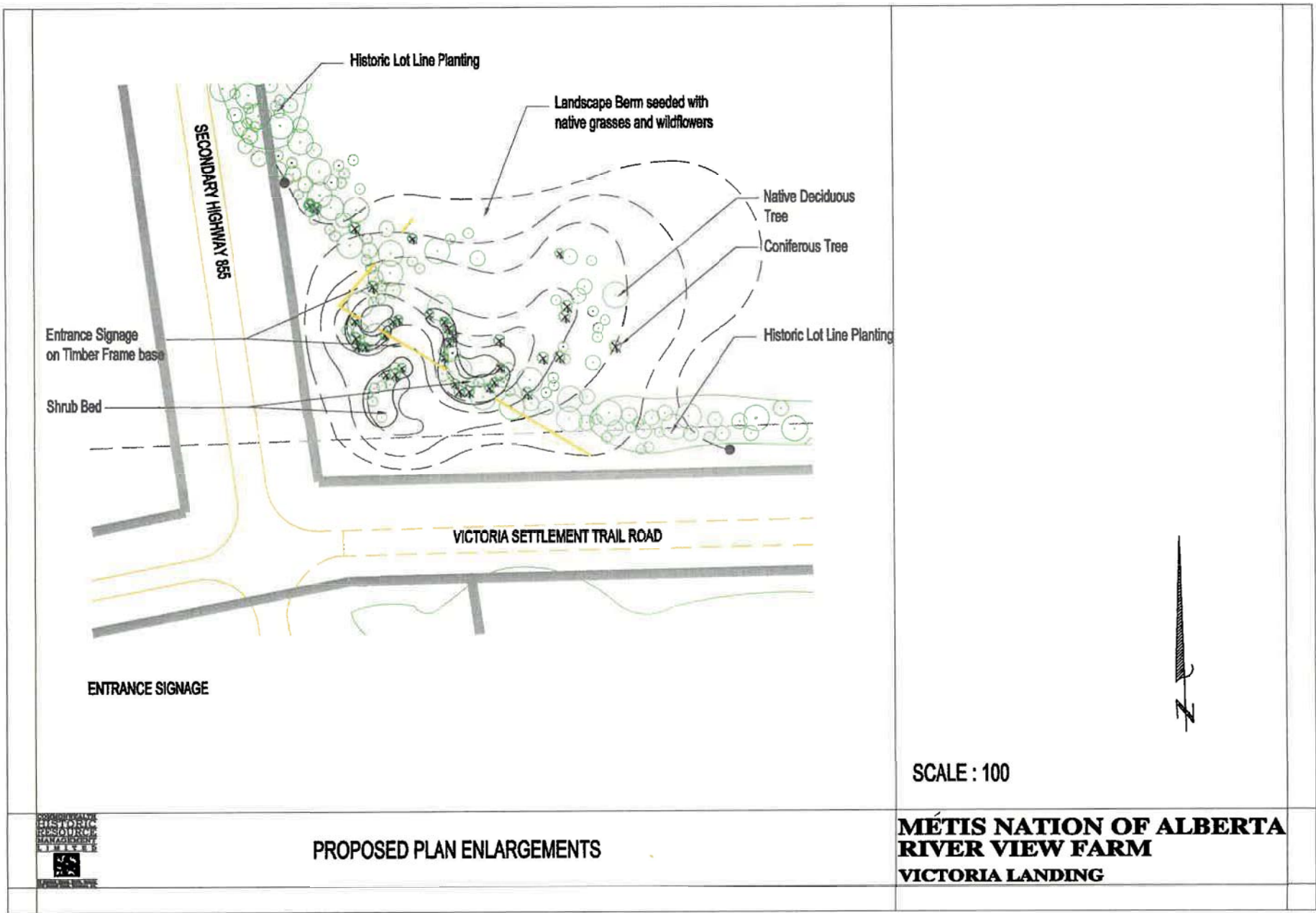
Picture 8 : View South of the sideslope.



Picture 9 : Powerpoles running East-West



Picture 10 : View South at sideslope.



PROPOSED PLAN ENLARGEMENTS

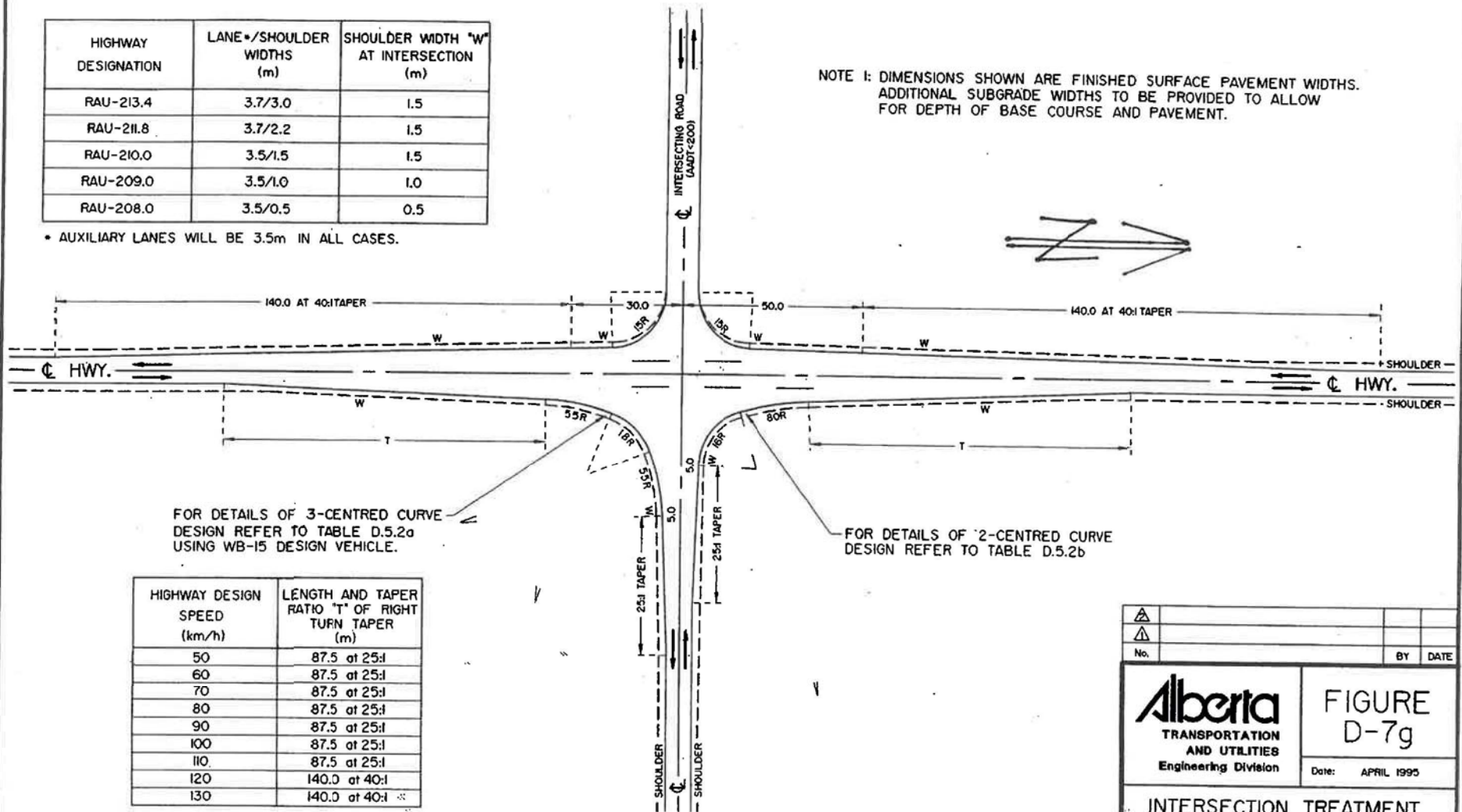
SCALE : 100

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

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.



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
		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

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 [REDACTED]

Wed 6/5/2024 1:58 PM

To: Abdulla Elmikkawi [REDACTED]

Cc: Lewis Semashkew [REDACTED]

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 [REDACTED]

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

To: Andy Russell [REDACTED]

Cc: Lewis Semashkew [REDACTED]

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 [REDACTED]

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

To: Terry Smith [REDACTED]

Cc: Lewis Semashkew [REDACTED]

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

