# EverWind NL Holdings Ltd.

## Document Name

*Meteorological Towers (MET) Phase II Construction Services*

## Document Number

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# 1.0 Invitation to Bid

This Request for Proposals ("RFP") is an invitation to submit proposals for all work required to deliver Construction Services for the Phase 2 Meteorological Tower Sites (the "Work"), as further described in the RFP Scope of Services.

# 2.0 Definitions

In this RFP, "Proponent" or "Consultant" means the party submitting or invited to submit a proposal in response to this RFP.

In this RFP, "Company" or "EWF" or " EverWind" means EverWind NL Holdings Ltd.

In this RFP "Project" refers to the Burin Peninsula Green Fuels project in Newfoundland & Labrador being undertaken by the Company.

# 3.0 Committed to Local Benefits and Supplier Diversity, Equity and Inclusion

Everwind aims to provide Provincial suppliers with a full and fair opportunity to participate in the supply of goods and services to the Project on a competitive basis.

At EverWind, we strive to have a diverse and inclusive supply chain. Our goal is to advance opportunities to businesses owned by equity priority groups. By providing equal access to procurement opportunities to qualified suppliers, we enhance the levels of quality, service and overall value to the organization.

If you are a member of an equity priority group and feel comfortable providing information about how you identify, please include in your response (in an appendix) a form, listing the following items and checking all that apply:

- Racialized Persons
- Persons with a disability
- Woman
- 2SLGBTQIA+
- Indigenous

Companies submitting proposals must demonstrate their support to Newfoundland and Labrador Benefits and gender equity & diversity commitments.

# 4.0 Background

## 4.1 About EverWind

EverWind is North America's leading independent green hydrogen developer and is currently pursuing two green energy projects in Atlantic Canada.

In Nova Scotia, the Company received the first Environmental Approval in North America for a large-scale green hydrogen project, and is well progressed in design, engineering, and development for the first phase of wind farms and related production facilities which will convert green electricity into green hydrogen and green ammonia. In Newfoundland & Labrador the Company is developing a multi-phased green fuels project on the Burin Peninsula. The Project encompasses the construction of wind farms, a solar farm, plant facilities for hydrogen and ammonia conversion and supporting infrastructure with an expected capital investment of more than $8 billion ($CAN) for the first Phase (Phase I). Principal construction for Phase I is planned to begin as early as Q4 2025 with production exports commencing as early as late 2028. Together, the projects represent a meaningful step towards local and global decarbonization and securing Atlantic Canada's green energy leadership.

At a local level, the Company works closely with municipalities and stakeholder organizations.

## 4.2 About the Project

In August of 2022, the Province of Newfoundland & Labrador opened a process for wind energy developers to access Crown Lands. Following an identification of available Crown Lands by the Province, a competitive Call for Bids for Wind Energy Projects was issued in December of 2022. On August 30, EverWind received confirmation that it had been successful in its submission. This provided the company with the reservation of 129,00 hectares of Crown Lands on the Burin Peninsula that are suitable for development. The Crown Lands reservation included all potential development areas for the three phases of the Project with final Crown land approval subject to the successful completion of an EA. The three Project phases are currently expected to encompass the following:

- Phase I: Comprised of an approximately 3 giga-Watt (GW) windfarm, collector lines, substations, access roads, and a transmission network principally located south of Marystown, a production facility located north of Marystown consisting of electrolysers, an ammonia plant, a solar farm, water supply infrastructure for freshwater intake from Linton Lake, balance of plant and control infrastructure and a new marine terminal in Mortier Bay. Phase I is targeting ~175,000 tonnes per annum of green hydrogen, to be converted into 1,050,000 tonnes of green ammonia per annum. This ammonia will be transhipped to the Point Tupper, Nova Scotia facility, for storage. Consolidated volumes will then be shipped to export markets in Europe.
- Phase II: Construction of additional wind turbines (5 GW), principally located north of Marystown, as well as collector lines, substations, access roads, plant facility and related infrastructure expansions.

- Phase III: Construction of additional wind turbines (2GW), located north of Marystown and south of Swift Current as well as the expansion of associated access roads, transmission networks, and plant infrastructure.

A high-level summary of project Phases is provided in Table 1, below.

Table 1. Summary of Project Phases

| Detail | Project Areas by Phase | | |
|---|---|---|---|
| | Phase I | Phase II | Phase III |
| Approximate Distance N-S | 30 km | 30 km | 30 km |
| Approximate Distance E-W | 60 km | 45 km | 15 km |
| Approximate Area of Turbine Development Area | 700 $km^2$ | 870 $km^2$ | 415 $km^2$ |
| # Turbines | 450 | 750 | 300 |
| Approximate Production Capacity | 3GW | 5GW | 2GW |

The Company is currently focused on Phase I of the Project and all geotechnical field work to be conducted will be for this development area.

With respect to Phase I of the Project, the Company has pursued a variety of pre-construction development activities to date, as follows:

- Beginning in mid 2022, the Company began community engagement initiatives with local municipalities, ATV trail associations, community stakeholders and citizens to solicit feedback and provide high level information on the proposed Project. By April of 2023 recommendations letters for the Project to proceed had been received from all Burin Peninsula communities. More than 40 consultative sessions have been conducted to date in various communities around the Burin Peninsula.
- Beginning in December of 2022, preliminary EA activities were initiated with the deployment of trail cameras (~20) and avian radars (5) in the Phase I development area. The trail cameras are currently in operation. Data collection for the avian radars was conducted for 12 months, concluding in December of 2023.
- In 2023, civil access road upgrades, geotechnical assessments and construction of four meteorological towers (MET) were completed in the Phase I development area in order to begin data collection and validation of the wind resource. These towers were progressively commissioned between September 2023 and January 2024.
- In early 2024 planning for six additional MET sites to further expand wind profiling in the Phase I development area was completed. Six sites were identified consisting of two 89m lattice towers, two 60m tilt up towers and two Lidars (laser imaging, detection, and ranging). Construction and commissioning of these sites is expected to occur between the summer and fall of 2024.

- In March 2024 front end engineering design (FEED) for the first phase of the Nova Scotia project was completed. Encompassing more than 110,000 hours of engineering design this represented a major milestone. This information will be leveraged as the design basis for the project on the Burin Peninsula.

# 5.0 Scope of Services

## 5.1 Scope Overview

Everwind seeks services for the installation of several meteorological towers (MET) on the Burin Peninsula of Newfoundland & Labrador. A total of six (6) MET sites have been identified consisting of two (2) 89m tall, guyed lattice towers, two (2) 60m guyed 'tilt up' towers and two (2) ground LiDar (laser imaging, detection, and ranging) stations. The 89m towers are custom designed (Allan Pipe/RES) structures consisting of thirty 10' sections, three sets of five (5) guy wires per anchor and supporting anchoring / hardware. The 60m towers are NRG 60m XHD Tall Towers, consisting of thirty 6 foot long 10" diameter tubes, four sets of six (6) guy wires, a special purpose NRG Tall Tower gin pole assembly (for tower erection) and supporting anchoring / hardware. General drawings for the 89m towers can be found in the Appendices. A full NRG Tall Tower instruction manual is also included as an attachment. The LiDar devices and all associated LiDar hardware and power components have not been specified and are expected to be sourced by the Proponent.

To date desktop exercises have been completed for all six (6) MET sites to determine site locations to support the draft wind farm layouts for phase I of the Project. Field visits have been conducted to assess constructability, environmental considerations, land and community constraints and structure types, resulting in final site locations and design. Field visits have also been conducted to survey, stake and mark the centre mast locations for the 89m and 60m towers, the guywire anchoring locations for the 89m towers and stake and mark access routes from the existing ATV trails into the four tower locations. The final LiDar sites have not been staked and marked and the Proponent will need to utilize the applicable GPS coordinates for installation. The anchoring locations for the 60m towers have not been marked and will also need to be determined by the Proponent once in the field. Land access permits and agreements have been submitted for all sites (see Appendix for listing), materials have been procured and received for the 89m and 60m towers (with some exceptions – see section on scope), and a competitive process initiated for geotechnical analysis for the anchoring of the two 89m towers.

Anchoring locations for the 89m towers was based on the direction of the prevailing winds and the required orientation of the booms/instrumentation. Anchors were set at 120 degrees apart, at 64m from the centre mast and with no more than a +/- 3 meters elevation variance between anchors. Anchoring locations were also based on the avoidance of boggy areas and/or the proximity to rock outcroppings. Note, it is expected that one 89m tower site (MT24-1) will require

rock anchors and the second 89m tower (MT24-2) will require soil anchors/grillages, although final determinations are to be made from geotechnical outcomes as well as Proponent site visits prior to construction. Anchoring location and orientations are detailed in the appendices.

Although general site conditions/construction suitability for the 60m tilt up towers has been conducted to finalize the centre mast locations, the Proponent is expected to determine the most appropriate anchoring requirements (rock vs soil) and anchoring locations required for the safe erection and installation of the 60m tilt up towers. As detailed in the NRG instruction manual, the tower sections are installed horizontally on the ground, with care taken (via cribbing) to ensure a slope of no more than 3 degrees. The tower guy wires are set at 90 degrees and specific preparatory and erection procedures are required to safely tilt up the tower to its final position.

With respect to the LiDars the Proponent will be required to perform a two-step installation. The first step will be to co-locate the LiDar and related equipment at a constructed tower site, which will be used to calibrate LiDar readings. After a 6-month calibration period the LiDar equipment will need to be removed and installed in its final position. As noted previously, none of the LiDars, power supplies or related equipment has been procured. Everwind is requesting that the Proponent provide a turnkey LiDar solution including the procurement, installation and commissioning of all components. Note, from a cost perspective, Everwind seeks to lease the LiDar solution directly from the Proponent on a monthly basis for a term expected to be at approximately 21 months (i.e., 6 months for calibration and 12 months of wind profiling at final site location).

Locations and coordinates for existing and proposed (MT24-1 to MT24-6) MET sites are shown in the map and table below:

Table 1. *MET Tower Locations*

| MET Campaign Status | Site Number | Site Name | Lattitude | Longitude | Type |
|---|---|---|---|---|---|
| Phase I - 2023 Installed | EL1 | St. Lawrence (Elemental) | 46.95926 | -55.43292 | 89m Lattice |
| Phase I - 2023 Installed | PM301 | Frenchmans Cove | 47.19227 | -55.41859 | 89m Lattice |
| Phase I - 2023 Installed | PM3 | Grouse | 47.08048 | -55.55758 | 89m Lattice |
| Phase I - 2023 Installed | PM34 | Lamaline | 46.95212 | -55.7917 | 89m Lattice |
| Phase II - 2024 To be Built | MET24-1 | RJG Quarry/ Stump Pond | 46.97712 | -55.28078 | 89m Lattice |
| Phase II - 2024 To be Built | MET24-2 | Point May / Hare Hills | 46.92966 | -55.88437 | 89m Lattice |
| Phase II - 2024 To be Built | MET24-3 | Fortune Hills / Tobacco Road | 47.02346 | -55.84330 | 60m tilt-up |
| Phase II - 2024 To be Built | MET24-4 | Winterland / Russ Feeder Pond | 47.06977 | -55.33417 | LiDAR |
| Phase II - 2024 To be Built | MET24-5 | Middle Pond / Sandy Cove | 46.94367 | -55.60734 | LiDAR |
| Phase II - 2024 To be Built | MET24-6 | Grand Bank / L'Anse-au-Loup | 47.04836 | -55.70504 | 60m tilt-up |


Proponents are required to provide experienced personnel and all equipment to execute the Work, utilizing subcontractors in the local region to the best extent possible. Proponents may bid on the full scope of Work or any combination of the three components of the engagement (89m tower installations, 60m tower installations, LiDar supply and installation). Everwind expects the award and mobilization of services to commence in July 2024, with work concluding within the 2024 construction season (with the exception of the re-positioning of the LiDars to their final sites). The commencement of construction activities will be dependent on the approval of crown lands permits as well as the geotechnical analysis being undertaken by Everwind. Permitting requirements have been submitted and are currently with the Government of Newfoundland & Labrador for review and approval. Results of the geotechnical analysis are expected to be available by the end of July.

The successful Proponent is expected to lead all activities including mobilization, anchoring/civil works, tower erection, instrumentation (device installs, logger boxes, solar and battery backup), testing (pull tests, tension tests as applicable etc.) and final commissioning. The Proponent is expected to lead all safety, emergency response and environmental protocols as well as quality. Regular progress reporting will be required, and the Proponent is expected to have active

engagement with Company specialists and Project leads. Note, an EverWind On-Site Representative (OSR) will accompany Proponent representatives during all field work, to monitor scope, act as an escalation point for issues and monitor safety/environmental protocols.

## 5.2 Site Descriptions, Access & Trail Use

MT24-1 (89m Lattice Tower at Stump Pond): This site is easily accessible through an existing quarry (operated by R.J.G. Construction Limited). The quarry is secured by a locked gate and access through it will need to be coordinated. To access the MT24-1 site, equipment and personnel will need to traverse the road through the quarry to the far eastern edge. From here the centre of the tower site is approximately 170m away, along a slight uphill gradient. There are no stream crossings or bridges for this location and access to the quarry itself is made directly from route 220. There are no significant trees within the site area. Suitable laydown and component assembly areas exist at the quarry entrance (both before and after the gate) and also within the quarry itself. The Proponent will need to coordinate with Everwind and R.J.G to determine the best option for the laydown requirements.

MT24-2 (89m Lattice Tower at Point May): This site is accessible from an existing ATV trail that begins from route 220 close to Point May. The distance from the ATV trail head to the site is approximately 4km and encompasses two small culverts / stream crossings. With respect to the streams, none will require bog mats or require vehicles to traverse through water (i.e.., both streams pass through culverts under the trail). Large boulders are placed on each side of the culverts as a safety precaution for recreational vehicles, since the trail is fairly narrow at these points. The boulders will need to be temporality moved aside for an excavator to pass. A laydown area (approximately 50’ x 50’) was constructed in 2023 at the ATV trail head and is suitable for the staging of all tower components, vehicles and equipment. The laydown area is also suitable for the assembly of tower sections for helicopter transportation and assembly.

MET 24-3 (60m Tilt Up Tower at Fortune Hills): Access to this site can be made along an unapproved ATV trail along the south side of Tobacco Road in Fortune. After traversing 1.6km along the ATV trail, the outer perimeter of the site is located approximately 200m away in a southwest direction across open barrens. It is unlikely that a side by side (SxS) and trailer can be used to transport materials and personnel over this 200m section (it can be rough and wet). ATV’s and Argos can be used for personnel and a tracked vehicle (Nodwell or similar) would be recommended for the ground transportation of materials/components. Once in the site area the terrain is more amenable. There are no stream crossings, or bridges along the routes to the site and no significant trees exist within the site area itself, although the area may need to be grubbed off to aid in the assembly of the tower. Several locations along the access route have been marked with orange flagging. A suitable laydown area is available at the beginning of the trailhead at tobacco road.

MET25-4 (Final LiDar site at Winterland): This site is a in a remote location to the south of the Winterland airport. From the Winterland airport a road can be taken (Branch Road) for approximately 21km to the Winterland ATV trailhead. The road is suitable for regular road and utility vehicles but assessments for several bridges would need to be made if heavier equipment is to be used. The road also narrows in several locations. Following the Winterland ATV trail in an easterly direction for approximately 5.5km, brings the trail to an intersection and then traversing southwest for a further 1.5km brings the trail to an end. A private cabin is located here and is the closest access point to the LiDar site. The site itself is approximately 2.6km due south from here across the open barrens. No utility vehicles, equipment or tracked machinery can be used to traverse the barrens to the site from the end of the ATV trail. It is expected that all materials and personnel will need to be flown to the site by helicopter for installation and commissioning. Personnel could walk to the site on foot across open barrens and through some brushy areas, but if doing so, it is recommended that personnel travel in pairs or groups for safety. Several suitable locations for laydown areas exist along the Branch Road as well at the trailhead to the Winterland ATV trail.

MET 24-5 (Final LiDar site at Middle Pond): This site is in a remote location, approximately 3.5km, as the crow flies, in an NNW direction across the open barrens from the nearest road (Route 220). The closest access point on route 220 is about 10km to the west of the town of Lawn. There are no existing ATV trails that can be used to get closer to the site and no utility vehicles, equipment or tracked machinery can be used to traverse the barrens to the site. It is expected that all materials and personnel will need to be flown to the site by helicopter for installation and commissioning. Although it is not recommended, it is possible for personnel to walk to the site on foot across the open barrens, but this would include traversing around some streams and water bodies. If walking to the site, it would also be recommended that personnel travel in pairs or groups with satellite communications available. A suitable laydown area exists in an old gravel pit located directly on route 220 at the proposed access point to the site.

MET 24-6 (60m tilt-up Tower at Grand Bank): This site can be accessed via an existing ATV trail with the trail head close to a large power station near Matthew's Auto Repair on the south side of Route 210. After travelling approximately 7.5km along the ATV trail the MET site is located approximately 400m away in a southerly direction, along an unapproved ATV trail across open barrens and grassy areas. The ATV trail encompasses two bridges that are only suitable for utility vehicles and trailers. Any heavy equipment would need to ford the streams. The 400m from the ATV trail to outer perimeter of the site area is best traversed by ATV or tracked machinery (i.e.., Nodwell or similar if ground transporting materials). The site entrance is clearly marked with orange flagging as this site is hidden behind some small trees and brush. There are no significant trees within the planned site radius, but some areas may need to be grubbed off to aid in the assemble of components. There are two suitable laydown areas with one close to the power station and another at a second trail head, approximately 0.5km away from the one noted above.

The 89m and 60m tower sites can be accessed by tracked vehicles (i.e., 20-ton excavators, Nodwells etc.) and ATV's. Side by Side utility vehicles and trailers can be used for the 89m tower sites but can only get to within a few hundred meters of the 60m tower sites under current conditions.

Care must be taken when crossing culverts with heavy equipment and the Proponent is required to notify the Company if any trail damage occurs during the engagement. Damage will need to be repaired and in general the Proponent is required to leave access trails in the same or better condition than found. Overland access from existing trails to the MET site locations should aim to achieve a once in, once out approach for heavy machinery. Reasonable efforts should be taken to minimize overland travel for personnel and utility vehicles as well as efforts to minimize impacts to streams and the environment in general. Driving off-road equipment away from the designated sites or ATV trails (fanning out) is not permitted.

Further details (maps and pictures) of the sites can be found in the Appendices.

## 5.2 Construction Approach

The Proponent is expected to provide details on the construction approach to be utilized as well as the equipment and personnel to be deployed. The following guidelines may be helpful however:

- 89m Towers:
  Perform field visits utilizing SxS or ATVs for site access to assess ground conditions and approach for construction. Conduct and complete the civil anchoring program utilizing appropriately sized drill/excavators and utility vehicles for equipment/materials and personnel transportation. Generators and pumps may also be required at the sites when using soil anchors/grillages since excavations may be prone to filling with water if left open for a period of time. Grillages, rock anchors, guy wire reels and miscellaneous hardware can be transported to each site using utility vehicles and trailers or in the case of MT24-2, it may be more efficient to fly some materials into the site with helicopters (i.e., type 407). If ground transporting materials with utility vehicles and trailers, the trailers should be no wider than the vehicle towing it. For soil anchors/grillages, materials excavated from site will need to be sifted for the removal of rocks for proper compaction. Berms will also need to be constructed with the materials excavated from within the site perimeter. Any excavated and sifted materials should be covered with tarps until use. Note, the Proponent will need to determine the final anchoring approach, but early assessments indicate that MT24-1 may require rock anchors and MT24-2 may require soil anchors/grillages. In 2023, the 89m towers were pre-assembled in the laydown areas, with all but the first 3-4 sections flown to site and installed using helicopters. Excavators were used to install the bottom 3-4 sections (pre-

assembled in one lift). Gin poles can be used for tower erection if preferred by the Proponent, however. Soil anchors/grillages were used at all sites.

60m Towers
Perform field visits utilizing SxS or ATVs for site access to assess ground conditions and approach for construction. Field visits should also contemplate the orientation of the tower (needs to be lifted into the prevailing winds), location and type of anchoring to be used and approach for bringing materials to site and assembling them. The Proponent may also want to consider the use of temporary shelters at site for construction personnel since the sites are remote and exposed to the elements. With field visits completed and the construction approach determined, transport materials to site by ground or helicopter and complete the civil anchoring program utilizing appropriately sized equipment. Utilize the NRG 60 Tall Tower installation manual for pre-assembly, preparation and the safe erection of the tower. With the tower erected finalize instrumentation configuration and commissioning.

- LiDars:
  Perform field visits for the temporary sites identified below to assess the approach and location for the initial LiDar installs. Install and commission the LiDar solutions at the two identified calibration sites. At some point during the 2024 work, plan a field visit to the final LiDar site destinations and assess the approach for redeployment of the LiDars to these locations. The LiDars will need to remain at their respective calibration sites over the winter season and for a minimum of 6 months after which they will need to be removed and re-installed at their final sites. Due to the inaccessibility of the final LiDar sites it is expected that all components and personnel will need to be transported to the final sites using helicopters. Additional details are as follows:

  MT24-4 LiDar:
  The LiDar to be finally installed at MT24-4 will need to be initially installed in close proximity to the 89m lattice tower being constructed at MT24-1 at the R.J.G Quarry/Stump Pond.
  MT24-5 LiDar
  The LiDar to be finally installed at MT24-5 will need to be initially installed in close proximity to the 89m lattice tower located at EL1. The site is easily accessible via a pre-constructed access road of 1km directly from route 220 to the centre of the tower and can be easily traversed by road vehicles, utility vehicles and tracked vehicles. There is ample space at the tower site itself for the staging of materials.

- **Subcontracting & Local Suppliers**
  EverWind is committed to supporting local businesses whenever possible. The following should be noted with respect to subcontracting of supporting services:

  - **Mandatory**: With respect to MT24-1, any civil work requiring excavations for soil anchoring and installation must be subcontracted to R.J.G Construction (equipment rentals and civil construction). As noted, MT24-1 requires access through the R.J.G quarry and the access agreement between EverWind and R.J.G Construction specifies a first right of refusal to R.J.G for civil work at this MET location (contacts for R.J.G are provided in section 10).

  - **Desired & Encouraged**: If excavation services / civil works are required for any of the three remaining towers sites (MT24-2, MT24-3, MT24-6), the Proponent is highly encouraged to enter into subcontracts with local suppliers wherever possible. However, whether one, multiple, or none of the local suppliers are utilized is at the discretion of the Proponent. Subcontractors should have strong safety records. To assist Proponents with local services, a listing of civil contracting suppliers is provided in the Appendices. Note, however, that the provided list is not comprehensive and may not include all suppliers in the region. The Proponent is encouraged to perform their own assessments of local suppliers and services for the scope required.

- **Other Items**
  - The Proponent shall review and abide by Department of Fisheries and Oceans Interim code of practices for temporary stream crossings / fording activities.
  - The Proponent will be responsible for any flag persons or transportation permits required during the execution of the work. As the project will require highway accessibility along route 220 to reach the access trails, the Proponent shall conduct highway operations under the guidance of Newfoundland and Labrador's Department of Transportation and Works Traffic Control Manual (August 2018 or latest revision). Given the locations and the use of equipment we do not expect flag persons to be required, but this should be determined by the Proponent.
  - The Proponent will be responsible for obtaining any water permits required for drilling operations.
  - The Proponent will be responsible for obtaining any permits related to fueling stations at the site/laydown areas.
  - The Proponent will be responsible for any requirements specified in crown lands fording permits for stream crossings.

- If utilizing helicopter services the Proponent will be responsible for working with the helicopter services supplier to assess flight paths, determine and approve lift plans, coordinate any permitting requirements and manage any specific safety protocols for lifting operations.
- If the Proponent work schedule coincides with the nesting season, trained avifauna management personnel will be employed by Company to identify nesting that may exist along the routes that any machinery travels. Scheduling for fieldwork must be closely coordinated with EverWind as the nest sweeps are only valid for a few days, after which the nest sweeps must be performed again.
- The Proponent must adhere to all Forest Fire Regulations, including the requirement to not operate machinery during high fire hazard conditions.
- Cell service coverage is likely to be spotty for several of the sites and it is recommended that Proponents utilize satellite phone communication as part of their safety and emergency response protocols.
- The Proponent will be required to obtain any tree cutting permits. Note, however that tree removal is deemed to be unlikely for any of the noted sites and it is anticipated that no cutting of merchantable timber (9.0 cm diameter at 1.3 m above ground) will be required.
- Proponent will be responsible for overall site safety, emergency response and environmental aspects during the execution of all field work. Oversight for compliance to HSE protocols will be conducted by the Company OSR.

## 5.3 Scope Inclusions

Scope inclusions for the entire MET Campaign (all sites) are provided below. In the event Proponents choose to submit partial bids (i.e.., just 89m tower installs or just 60m tower installs etc.), the scope inclusions are only required for those components.

**a) Pre-Construction Documentation**

The Proponent will be required to submit for review and approval site specific HSE and execution plans prior to the commencement of any construction related activities.

**b) Materials Verification:**

A full set of structural components (tower sections, soil grillages, rock anchors, guy wires, booms), instrumentation sets and associated hardware was procured for two 89m lattice towers in 2023. The majority of structural components for the two 60m tilt ups was also procured in 2023, consisting of all tower components, all guy wire sets, soil anchors, booms, instrumentation and associated equipment and miscellaneous hardware. Rock anchors and prefabricated concrete foundation blocks for the two 60m tilt up towers were not procured however and there are currently some known deficiencies in

miscellaneous hardware items for the 89m towers (grounding rods, ground wires, u-bolts, backup batteries etc.). The Proponent will be required to perform the following work with respect to materials readiness:

i. Review the inventory of materials for the four MET towers (2 x 89m and 2 x 60m), verify that all components are accounted for, note any deficiencies and manage replenishment of materials as applicable. Everwind will provide bill of material listings.
ii. Manage the sourcing and manufacture of rock anchors for the 60m tilt up towers, if applicable, based on rock anchor specifications to be provided by EverWind.
iii. Manage the procurement and manufacture of two prefabricated concrete centre mast foundation bases for the 60m tilt up towers, based on specifications to be provided by EverWind. Note the concrete bases are approximately 75" square at a thickness of about 12".
iv. Source and manage the procurement of all components and materials required for the provision, installation and commissioning of the LiDars.
v. Note, with the exception of the LiDar components, all other materials for the 89m and 60m towers identified for manufacture and procurement will be at Company cost (i.e., physical materials costs not required as part of Proponent proposal). The Proponent will only be responsible for managing the procurement.
vi. The intent of the materials review and replenishment is to ensure all components are on hand for construction once ground is broken in order to avoid any stand downs for missing materials.

**c) Determination of anchoring requirements:**

Based on preliminary field visits by EverWind team members it is expected that the 89m tower at MT24-1 will require rock anchoring for the centre mast and all three guy wire anchor locations, whilst the 89m tower at MT24-2 is likely to require soil grillages for the centre mast and three guywire anchors. The proponent will be required to determine final anchoring requirements for the two 89m tower sites based on geotechnical analysis (report to be provided at the end of July). Note the geotechnical assessments are expected to include test pits, bore holes and applicable laboratory testing. The full specifications for the geotechnical services can be provided if required.

Anchoring expectations (locations and soil versus rock anchoring) for the two 60m towers has not been determined. The Proponent will be required to determine the correct anchor type based on their own field visit assessments and orientate anchors as per the specifications of the NRG installation manual (i.e., tower to be tilted up into the prevailing winds and anchoring set accordingly at 90-degree separation etc.). In addition, although engineering assessments have deemed the 60m towers suitable for installation in the

chosen areas for icing and wind conditions, the Proponent is expected to reconfirm suitability based on their experience.

**d) Civil Work & Site Preparation**

The Proponent will be responsible for any civil work required to install each of the 89m and 60m towers. For the 89m towers this may include the grubbing off of overburden, the excavation of materials, the sifting of excavated soils to remove rocks for compaction, the installation of grillages into the excavated holes, the compacting of soil above the grillages, berming of grillage soil anchors or the drilling and grouting of rock anchors if required. The soil anchoring for the 89m lattice towers encompasses four locations (1 centre mast and 3 anchor points each supporting five guy wires). The rock anchoring requirements also call for 4 locations (1 centre mast and 3 anchor points each supporting five guy wires). Engineered specifications for both types of anchoring should be reviewed and confirmed by the Proponent prior to installation.

Similarly, for the 60m towers, civil works would include the installation of soil and or rock anchoring requirements, although for soil anchors the excavations would be shallower and may not require berming. The anchoring requirements for the 60m towers encompass 16 locations (2x4 for the tower, 2 additional guys/anchors at the 0-degree anchor during the lift, 1 base plate anchor stop, 1 anchor for the winch and four anchors for the gin pole).

Additionally, for the 60m towers, cribbing would need to be provided and installed by the Proponent to support the horizontal ground assembly of the tower (i.e.., to ideally be level across the entire length or and within 3 degrees from level with accommodations made for erection).

None of the MET locations require grubbing or scarifying of materials to create an access path from the ATV trails to the sites themselves, although some grubbing may be required at the 60m sites to ease tower assembly. Tracked machinery, ATV's and in some cases side by sides can traverse the routes without the need for these civil works.

None of the sites require tree clearing or other civil preparation to perform the installations.

**e) Transportation of Materials**

The Proponent will be responsible for transporting all materials from storage locations in Mortier Bay and the town of Fortune to the laydown areas for each of the respective sites. The materials in Fortune are held at the R.J.G facility which is approximately 30km to the

south of Marystown. The Mortier Bay materials are located at a property that is approximately 7km north of Marystown. Tower sections for the 89m lattice towers are bundled and will need to be loaded on a flatbed truck with appropriate cribbing. Tower sections for the 60m towers are palletized (four 4' x 7' pallets) and will need to be loaded onto a flatbed truck for transport (Note, it is recommended to dissemble these pallets at site). The remaining hardware (guy wires, booms, anchors, instruments and miscellaneous items) are boxed, spooled, loose or in packets/drums, with most items located in heated inside storage.

The Proponent will also be responsible for the transportation of all materials from laydown areas to the sites themselves. For the 89m and 60m tower sites, materials can be ground transported using appropriately seized equipment (i.e., utility vehicles with trailers or tracked vehicles as applicable). Alternatively, materials could be airlifted via helicopters from laydowns to the sites and in the case of the 89m towers, pre-assembled (in sections) at the laydowns and flown to site for direct installation. The initial installation of LiDar components (i.e., at the calibration sites) can all be ground transported directly to the tower site. For the final LiDar destinations at MT24-5 and MT24-5 components and personnel will need to be transported by helicopters.

Note: Proponents may select their preferred helicopter service provider and will need to secure flight days well in advance. For the 2023 MET Campaign, Everwind utilized Newfoundland Helicopters (www.newfoundlandhelicopters.com) who have a base of operations close to the Burin Peninsula in Clarenville.

**f) Tower Erection & LiDar installation**

The Proponent will be responsible for developing procedures for the erection of the 89m lattice towers and the installation of the LiDar stations (these are not required for the RFP response but would need to be developed prior to installation). For the erection of the 60m tilt up towers, the Proponent should follow the existing NRG 60m XHD Tall Towers installation manual (provided as an attachment for the response).

The Proponent will be responsible for all tasks associated with the safe erection and installation of the 89m towers, 60m towers and LiDars.

**g) Testing & Quality**

The Proponent will be responsible for conducting pull tests on all rock anchors and tensioning tests for all tower guy wires as well as executing an overall quality control plan for the verification of all installed components.

Test results and quality control outcomes must be included in final commissioning deliverables.

**h) Tower Instrumentation Installation**

The Proponent will be responsible for the installation of all instrumentation.

For the 89m towers this consists of eight (8) anemometers (four each of two types), four (4) weathervanes two (2) of which measure wind also, two (2) barometric pressure / temperature / relative humidity sensors and one pyranometer. The devices are installed on ten booms at specific tower elevations as well as a goal post at the top of the tower.

For the 60m towers the instrumentation pack includes six (6) anemometers and several wind vanes, with associated weather info (pressure, humidity, etc.)

The Proponent will be responsible for the assembly and installation of all supporting components for the instrumentation, including logger boxes (Campbell Scientific), modems, cabling, antennas, solar panels and battery backup (Note, batteries need to be procured from local suppliers).

Note: All anemometers have been calibrated and have calibration certificates. The weathervanes will need to be calibrated to true north once installed in the field.

**i) Commissioning**

The Proponent will be accountable for the commissioning of each site. This will include, logger box configuration, data services setup and verification of data feeds.

Note, Everwind has established data communication services with Pelion (https://pelion.com/) for all existing MET towers and these services will need to be extended for the new installations. In addition, Everwind has already developed data aggregation servers for the receipt of data from the 2023 MET sites and the new sites will need to be added to this configuration. Everwind will be responsible for extending Pelion services, updating data aggregation services on its servers and supporting the Proponent in the configuration of the logger boxes. Server details can be provided to the Proponent when required.

**j) Site Remediation**

The Proponent will be required to perform site remediation and cleanup after commissioning. This may include, filling in any excavations used to gather materials for anchoring installations, levelling out deep tracks caused by tracked vehicles, leaving ATV

trails in pre use condition, removing all remaining materials, packaging, supplies and equipment from each site.

Note: Local community members may be interested in some surplus construction materials that the Proponent plans to discard. Prior to the removal of these items, the Proponent should work with EverWind team members to see if any of the items are of interest to community members.

**k) Documentation and Reporting**

The Proponent will be required to provide a set of installation & commissioning documentation for each installed site. This should include results from quality inspections (pull tests, tensions tests, structural quality control checks for installation, data feed verification, photos showing correct installation of components etc.). Samples of expected information can be provided, if requested.

The Proponent will be required to provide written monthly progress reports to Company identifying at minimum, overall status (achievements over last reporting period, objectives for next reporting period), progress to plan (schedule/milestone compliance), expenditures to plan (cost compliance), identification of issues/risks to objectives and/or other items relevant to overall delivery. The format of the report can be based on existing Proponent templates or templates provided by the Company.

In addition to monthly written reports, designated Proponent team members will be required to engage in regular checkpoint meetings with Company representatives on a schedule to be determined at the onset of the engagement. At a minimum, checkpoint meetings should be held weekly to review status, issues and one week look head schedules.

**l) Other Items**

The Proponent will be required to obtain any applicable construction specific work permits (i.e.., or on-site fuel storage, transport Canada etc., as applicable), with exclusions for the permits Everwind will put in place (see appendices).

## 5.4 Scope Exclusions

Scope exclusions are as follows:

a) **Tower Design is out of scope**: Engineering design and specifications for the 89m lattice towers and 60m tilt up towers have been completed including tower structures, anchoring requirements, instrumentation and associated components.

b) **Materials Procurement is out of scope (with some noted exceptions):** The materials for the 89m lattice towers and 60m tilt up tower were procured in 2023 and are held in storage at two locations (Fortune and Marystown). This includes tower sections, guy wires, soil grillage anchors, rock anchors, booms, instrumentation kits, logger boxes, solar panels, lightning roads, grounding wires and miscellaneous hardware. As noted above however, an inventory check needs to be performed by the proponent and deficiencies noted and replenished as applicable. Any costs associated with material deficiencies will be borne by Everwind (i.e.., out of scope for the Proponent cost proposal).

c) **Galvanizing of Rock Anchors is out of scope**: In the event rock anchors are required for the 60m tilt up towers, the components do not need to be galvanized.

d) **Civil work for Access Road Construction & Upgrades is out of scope**. No civil works for access roads or trails are expected in order to access any of the six (6) MET sites with the expected construction equipment. Each of the four (4) tower sites is within a few hundred meters (across rough barrens) of an existing ATV trail.

e) **Civil work for the development of laydown areas is out of scope**. No civil works will be required for the construction or upgrade of laydown areas for the staging of materials for any of the six (6) MET sites. Laydown areas currently exist in proximity to the new sites and can be used for materials staging. Everwind will be responsible for securing any additional permissions for use of the laydown required in 2024.

f) **Crown Lands, Municipal, Private lands and NavCanada permitting requirements are out of scope**. No municipal, crown lands, NavCanada or private permitting agreements for the use of land (access routes, sites) for the six tower sites need to be acquired by the Proponent. Everwind will be responsible for these permits (crown lands licences to operate, municipal development permits, fording permits, NavCanada permits). All access routes to the sites are being permitted based on no alternations being. A list of applicable permitting being put in place by Everwind can be found in the appendix.

g) **Geotechnical Analysis for the 89m lattice towers is out of scope**: Geotechnical assessments for the 89m tower locations is in progress and will be completed by the end of July. Final, engineering stamped reports will be provided to the Proponent. The scope of work consists of bore holes, test pits and laboratory analysis that can be used for the verification of the appropriate anchoring solutions for each of the 89m tower sites.

h) **Avifauna Sweeps are out of scope for the Proponent**: It is expected that some of the construction will occur during the nesting season. In this event, Everwind will be responsible for having avifauna sweeps conducted as applicable. Scheduling for fieldwork must be closely coordinated with EverWind as the nest sweeps are only valid for a few days, after which the nest sweeps must be performed again.

i) **Stream sampling is out of scope**: One of the sites (MT24-6) will require fording across two streams for heavy equipment. In this event Everwind will schedule and conduct pre and post stream sampling. The Proponent will need to coordinate activities with

EverWind team members to ensure enough notice is provided to schedule the sampling. Neither of the streams require bog mats to be installed.

## 5.5 Equipment & Personnel Requirements

**Equipment**

All heavy machinery associated with the Work must be of newer vintage and be free from any leaks, worn pins and/or sprockets, broken grousers, chafed hoses, etc. to minimize the risk of breakdowns or leaks occurring in the field and to reduce the potential for environmental damage.

Environmental spill / clean-up kits / spill trays properly sized for the equipment used shall be located at each tower site or with all machinery containing oils. Any inadvertent leaks or spills must be reported to the EverWind OSR immediately, no matter how small.

Applicable fire suppression equipment must be on hand (i.e., water backpack, shovels, axes). One kit of fire suppression gear is required for each multiple of five (5) crew members in the field. Spark suppressors should be installed on all utility vehicles (ATV's, side by sides). Note, these devices should be standard on most newer models.

All equipment should be right sized for the Work to be conducted in an efficient manner. The Proponent should identify the equipment to be used as part of their response. Suggested equipment may include:

- Excavators (~20ton) for grillages, general grubbing + tower installs
- Nodwell or other similar tracked vehicles for ground transportation of materials, if applicable
- Drill Rig or excavator attachments for rock anchoring, if applicable
- Equipment to offloading and onloading materials onto flatbed trucks for transportation from storage locations to laydowns
- Utility vehicles (side by side, trailers, ATV's etc.) for field personnel
- Winch for 60m tower installs (this needs to be supplied by the Proponent (see NRG Manual for specification)
- Generators, pumps, air compressors
- Shelter points should be considered to keep personnel out of the elements at the remote sites
- Satellite phones

**Personnel and Training requirements**

- For the installation of the 89m towers the Proponent should deploy a crew of between 3 and 6 personnel to each site. Note:
  - If running parallel sites, multiple crews need to be deployed.

- Each crew should have one supervisor/crew leader who has successfully supervised the installation of at least three (3) 89m or taller guyed lattice towers using rock and/or soil anchoring solutions using either gin pole or helicopter erection approaches.
- For assembly and staging of materials at the laydowns a crew size of 2- 3 personnel is recommended including a supervisor/crew leader and 1-2 crew members.
- For the erection of the tower using helicopters a crew size of six (6) personnel is recommended consisting of a supervisor/crew leader and five (5) crew members (i.e.., 3 crew on tower, 1 at laydown, at tower base)
- For the erection of the tower using a gin pole a crew size of five (5) personnel is recommended consisting of a supervisor/crew leader and four (4) crew members.

- For the installation of the 60m towers a crew size of at least six (6) personnel, is recommended by NRG, consisting of a supervisor/crew leader, a winch operator and four (4) personnel for guy wire tensioning. The crew leader/supervisor should have:
  - successfully supervised the installation of at least 3 NRG 60m XHD Tall Towers or 2 NRG 80m XHD Tall Towers, the most recent of which was within the last 3 years and been trained by NRG Systems and utilize a Crew/Team who have each assisted with the installation of at least 3 tilt-up towers.
- Note, all crew sizes for the 89m and 60m towers noted above are recommendations only and the Proponent should propose the optimal crew size for safety and efficient execution of the work based on their experience and methods.

## 6.0 High Level Schedule

The desired high-level schedule from RFP Issue to the completion of the Work is provided in the table below. The plan developed by the Proponent (see Bid Submission & Evaluation section) should aim to comply with this schedule, although, Proponents can propose alternate schedules and milestones based on their experience that would support the timeliest and most cost-efficient execution of the Work. When developing the detailed schedule for the RFP response, the Proponent should consider the following aspects:

- Mobilization of team and subcontractors
- Maximum use of daily working hours and optimal crew rotation work schedules
- Timelines for the procurement of deficient materials
- Duration of field efforts per site
- Allowances for inclement weather

Table 2. *Expected Company timelines*

| Description | Date |
|---|---|
| Issue of Request for Proposal | June 18, 2024 |
| Information Session | June 24, 2024 |
| Questions Deadline | July 5, 2024 |
| Tender Close (3:00 PM NST) | July 15, 2024 |
| Tender Award | July 18, 2024 |
| Commencement of Field Work | July 25, 2024 |
| Conclusion of 2024 Field Work (no later than) | November 15, 2024* |
| Final Documentation and Close | December 15, 2024 |

*Note, the LiDars will need to be relocated to final site destinations in the spring of 2025

# 7.0 Cost of Service

Company seeks time and materials estimate per site inclusive of all costs as well as a general resource rate table for 2024.

The cost tables are divided into three components a) installation costs for the 89m towers, b) installation costs for the 60m towers, c) supply and installation costs for LiDar sites. Proponents may bid all of the components or just one or two of the components. Cost efficiencies should be expected with the execution of more than one component.

Samples of the cost and rate tables are shown below and an excel file has been provided as part of the RFP materials.

Table 3. *Cost and Rate Tables*

| Component 1 - 89m Lattice Towers | MT24-1 | MT24-2 | Sub Total | Expected % of NL Costs against Overall |
|---|---|---|---|---|
| Materials Review & Preparatory Activities incl. site visits | | | 0.00 | |
| Mobilization & T&L | | | 0.00 | |
| Materials Transportation / Staging | | | 0.00 | |
| Civil Construction | | | 0.00 | |
| Tower Erection w/Gin Pole OR Heli | | | 0.00 | |
| Instrumentation & Commissioning | | | 0.00 | |
| Other Equipment / Materials Costs | | | 0.00 | |
| Other Governance / Support Costs | | | 0.00 | |
| Other costs as applicable (please define in response if used) | | | 0.00 | |
| **Sub Total Component 1 - 89m Towers** | **0.00** | **0.00** | **0.00** | |

| Resource Name or TBD if not known* | Resource Role | Resource Rate/Hr |
|---|---|---|
| | | |
| | | |
| | | |

Note* all key/lead roles must be identified

| Other Day Rate Items | Day Rate** |
|---|---|
| Civil Construction Crew | |
| 89m Tower Install Crew | |
| 60m Tower Install Crew | |
| Weather delay - Civil Crew | |
| Weather delay - 89m Tower Crew | |
| Weather delay - 60m Tower Crew | |
| Other crew day rate items as applicable | |
| Other equipment day rates as applicable | |
| | |

Note** please specify # of work hrs per day this day rate is based on

Notes for Cost Table:

- All values must be provided in Canadian funds, inclusive of all applicable duties and taxes except for HST, which should be itemized separately.
- Resource rates quoted by the Proponent must be all-inclusive of all overheads, burdens, insurance costs and administration fees.
- For day crew rates, Proponent should identify the # of work hours per day
- Proponent is responsible for providing all personnel protective equipment (PPE), computer hardware/software, vehicles, machinery, materials and equipment to deliver the Work.
- Proponent should include a breakdown of Newfoundland & Labrador costs versus costs for the overall work. Newfoundland & Labrador costs encompass any costs attributable to NL based employees, contractors, consultants, service and equipment suppliers, distributors or manufactures.

# 8.0 Bid Submission Requirements

## 8.1 Submission Format

The Proponent should format the proposal using the shown structure (Table *4*).

Table 4. Proposal Structure

| Proposal Submission Components | |
|---|---|
| **Item** | **Evaluation Criteria** |
| Cover Page | Cover Page, signed by duly authorized Proponent representative |
| Executive Summary | The Proponent should summarize key aspects of their proposal / value proposition |
| **Section 1.0** | **Capabilities and Experience** |
| Section 1.1 | Relevant Experience and Capability of Proponent Firm |
| Section 1.2 | Relevant Experience and Capability of Proposed Proponent Team Resources |
| **Section 2.0** | **Methodology** |
| Section 2.1 | Approach and Proposed Project Plan |
| Section 2.2 | Supplier Document Register (listing of deliverables to be provided) |
| **Section 3.0** | **Cost and Pricing Tables** |
| Section 3.1 | Cost of Service Table |
| Section 3.2 | Resource Rate Table |
| **Appendices** | • Team CV's<br>• Equity priority group statement, if applicable (see page 4 of RFP) |

Note:

- Proponents should limit marketing and brochure type materials in their responses.
- Proponent experience should provide examples of engagements of similar scope and scale to the services being requested.
- Proponent team experience should provide summary profiles of resource experience with project examples.
- Proponent project plans should provide a Gantt chart of activities and milestones in sufficient detail to evaluate the execution of work. These do not need to be resource levelled but should identify expected durations of work activities/packages, expected work effort (total resource hours/days), start, end dates and activity dependencies. Only a .pdf version of the Gantt chart will be required as part of the submission and can be created in the Proponents tool of choice (i.e.., Microsoft Project, Primavera, Excel etc.).
- Regarding methodology, Proponent should describe their approach to the work. Efforts should be focused on delivering a high-quality outcome in the most efficient manner from a cost and time perspective. The approach should also demonstrate an understanding of the scope and the quality checks and testing to be conducted.
- Regarding methodology the Proponent should identify key equipment being used (i.e.., excavator type/size, drill rig etc.) as well as any subcontractors being engaged (company name, principal base of operations).
- The Supplier Document Register (SDR) should include a listing of all documented deliverables to be provided as part of the engagement. At a minimum this should include:

- Health, Safety, Environmental and Execution Work plans for the Engagement
- Final construction and commissioning reports per site

### 8.2 Evaluation

The Company will base the award on the best overall proposal comprised of experience, capabilities and value for service.

### 8.3 Costs of Submission

All costs associated with Proponent's proposal, including, but not limited to, those costs associated with proposal development, investigations, site visits, clarification and other meetings shall be the responsibility of and borne solely by the Proponent, and shall not be subject to any reimbursement by Company.

### 8.4 Cancellation and Changes of RFP

The Company reserves the right to cancel any component of award of the RFP or the award in its entirety, for any reason and at its sole discretion.

The Company reserves the right to change any aspect of the scope of services.

### 8.5 Proposal Deadline, Communications and Proposal Submission

Questions related to the RFP and the submission of proposals shall be delivered via email in a searchable .pdf to the contact provided below by the submission deadline. Costing tables should also be provided in native format (Excel) as a separate attachment as well as being provided within the .pdf of the proposal response. Proponents will be responsible for verifying their proposals have been received.

Questions and the email submission of the proposal should be sent to the following EverWind representative:

Person: Jan-Peter De Souza, Project Manager
Email: jpdesouza@eunoiacg.com
Phone: 709-351-3039

## 9.0 Award and Onboarding

Everwind reserves the right to award the RFP to one Proponent in its entirety or to award partial scopes of the RFP to different Proponents. The successful Proponents will be required to complete and submit the items noted below upon award. Acceptance by Company of these materials will be required for Company and Proponent to enter into a commercial arrangement for the Work.

1) Proponents Health, Safety/Emergency Response, Environmental and Quality Program documentation to be utilized for the engagement

2) Copies of required insurance certificates demonstrating minimum coverages of $5M general liability insurance, $2M automobile insurance, $2M professional liability insurance, and Workers Compensation Insurance, as detailed in the draft Consulting Agreement
3) Agreement and sign off with the standard terms and conditions of the Company (Master Work Agreement or Professional Services Agreement as applicable)
4) Other onboarding requirements of Company, as applicable

## 10.0 Other Items

1) A document naming/coding format has been defined by the Company and will be applied to all identified deliverables and communicated to the Proponent. In addition, the Proponent will be required to submit all documented deliverables identified in the SDR through the Company document management system which will be used for submissions, Company reviews and approvals, as applicable. The Proponent will be provided with access credentials and instructions on the document submission process during the initiating activities of the engagement.

2) The following attachments have been provided:
   - Cost and Rate Tables in Excel Format
   - NRG 60m Tall Tower Installation Manual

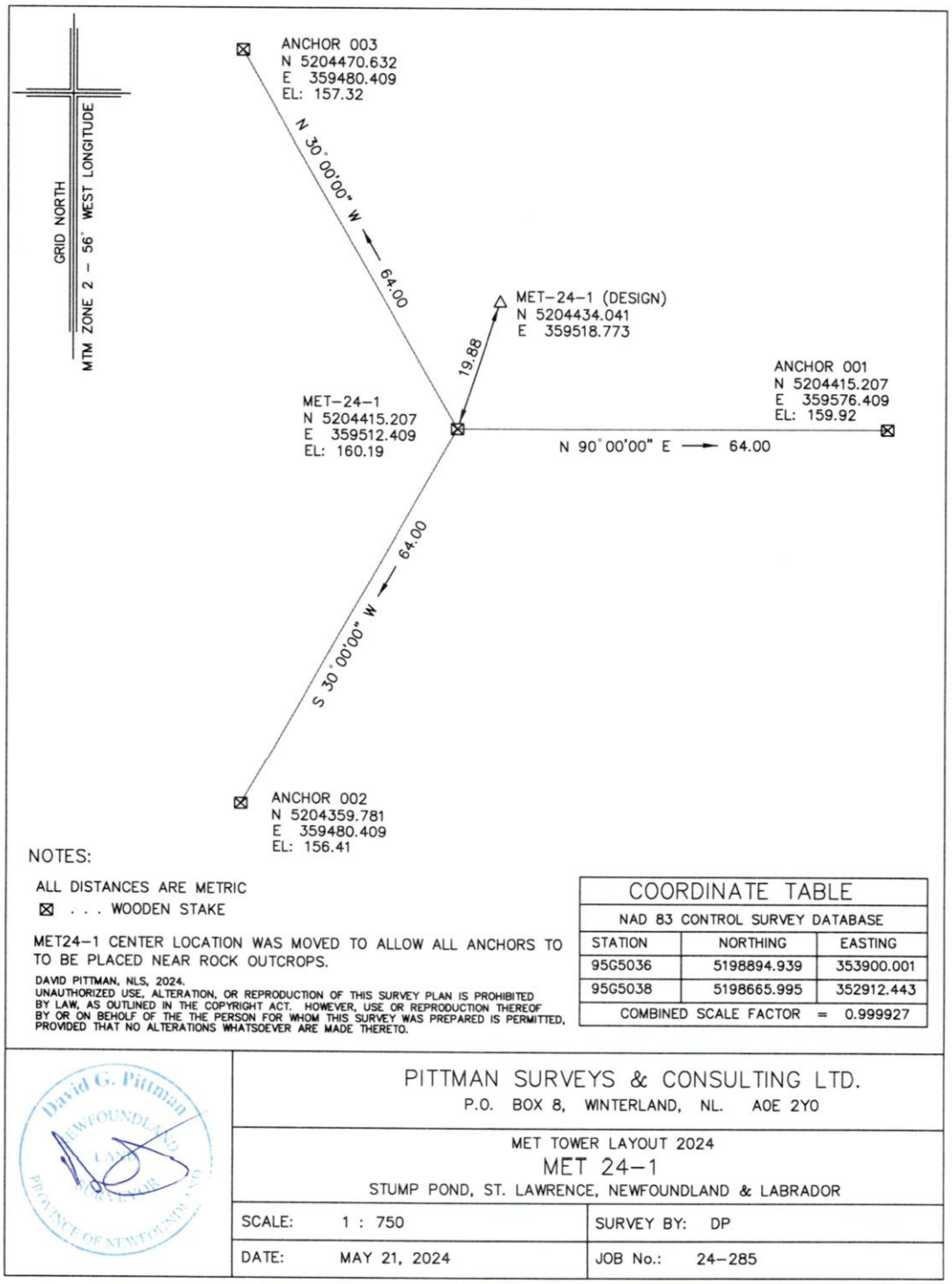
3) Contacts for identified subcontractors are provided below:
   - RJG Construction with respect to civil work at MT24-1 are as follows:
     - Chris Nugent, Project Manager, R.J.G. Construction Limited
     - 709-753-5229, 709-693-5714, chris@rjgconstruction.com

# Appendices

## A.1 Site Maps & Pictures

**MT24-1: Maps for 89m Lattice Tower at RJG Quarry / Stump Pond**


**MT24-1: Survey and Anchoring for 89m Lattice Tower at RJG Quarry / Stump Pond**



**MT24-1: Pictures for 89m Lattice Tower at RJG Quarry / Stump Pond**

MT24-1 Anchor 1 Looking East

MT24-1 Anchor 2 Looking SW

MT24-1 Anchor 2 Looking West

MT24-1 Anchor 3 Looking NE

MT24-1 Anchor 3 Looking SW

MT24-1 Looking East

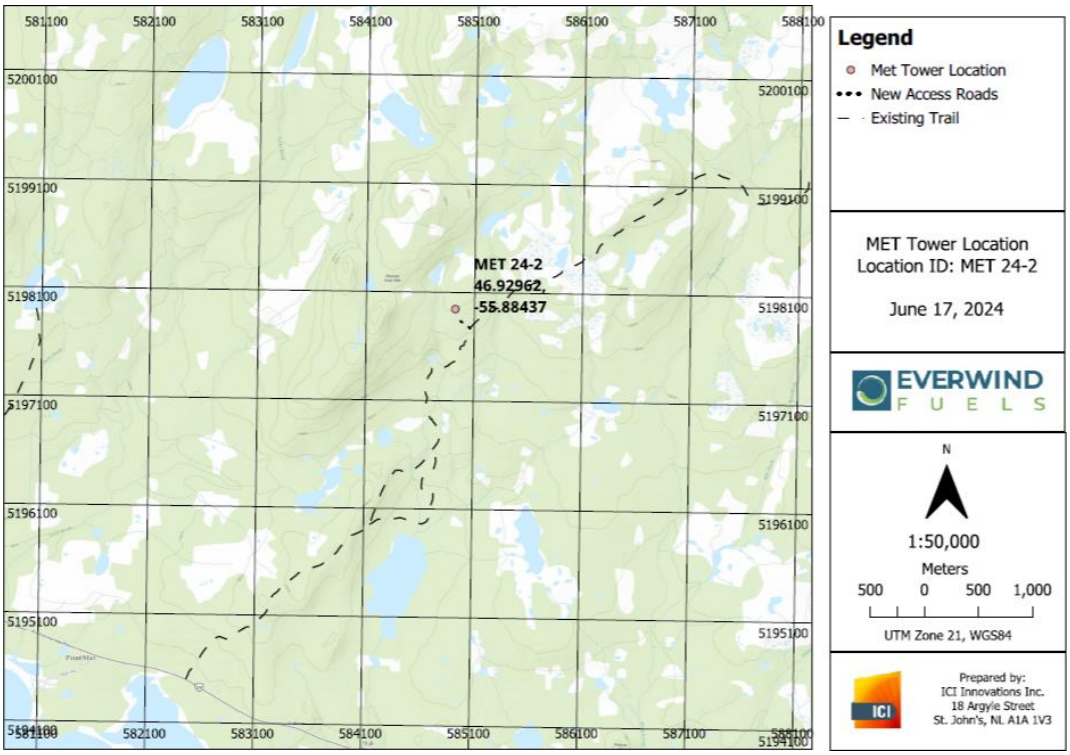
MT24-1 Looking NW

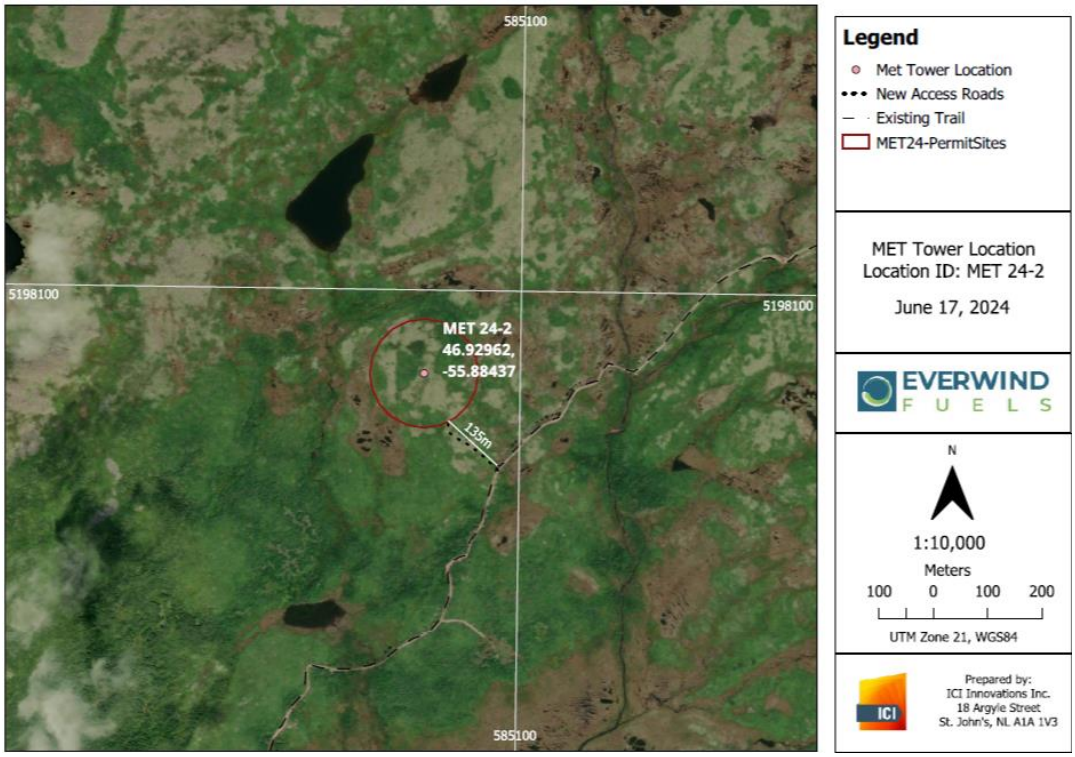
MT24-1 Looking SE

MT24-1 Looking SW

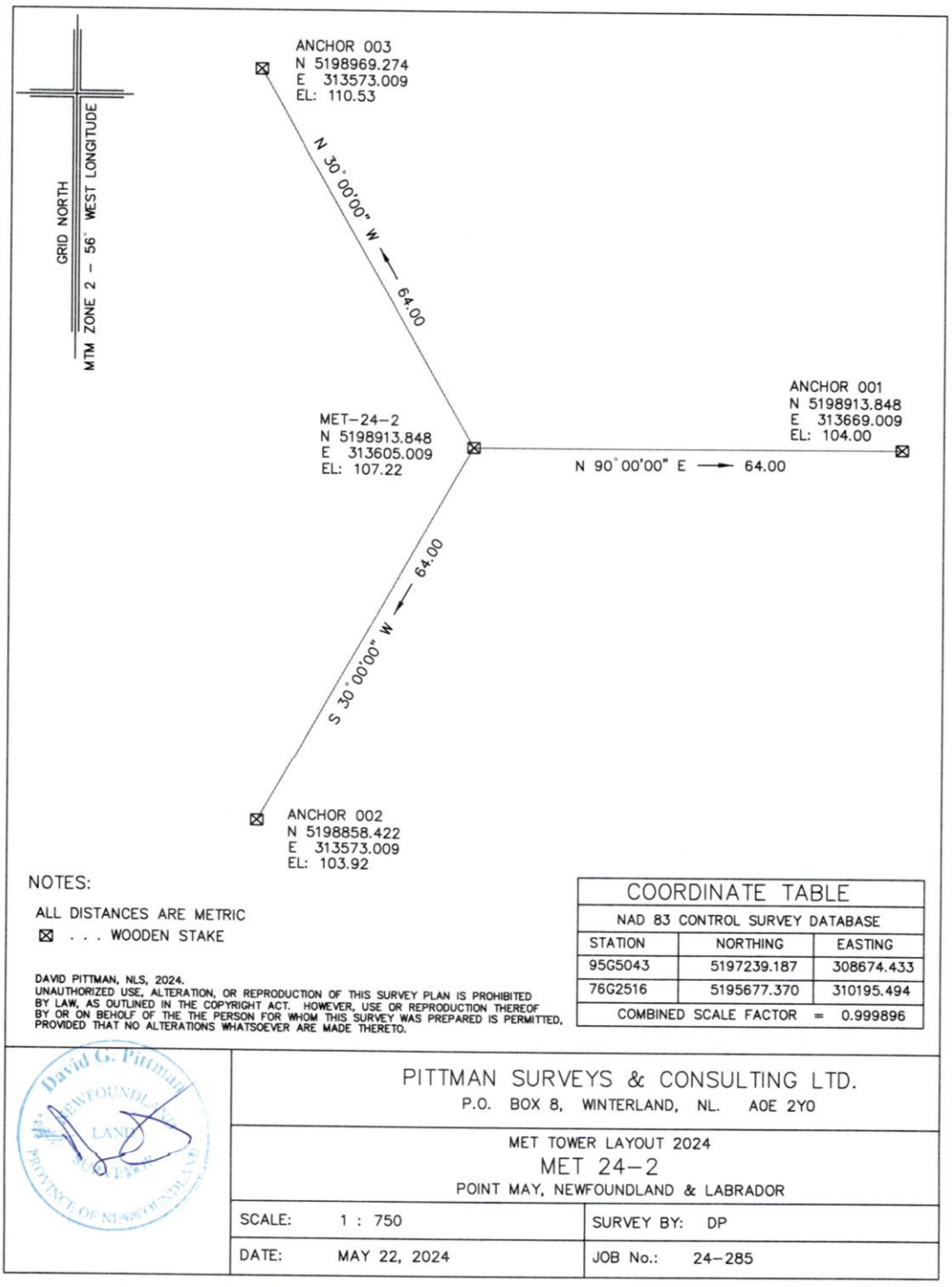
MT24-1 Looking West

**MT24-2: Maps for 89m Lattice Tower at Point May / Hare Hill**



**MT24-2: Survey & Anchoring for 89m Lattice Tower at Point May / Hare Hill**



**MT24-2: Pictures for 89m Lattice Tower at Point May / Hare Hill**

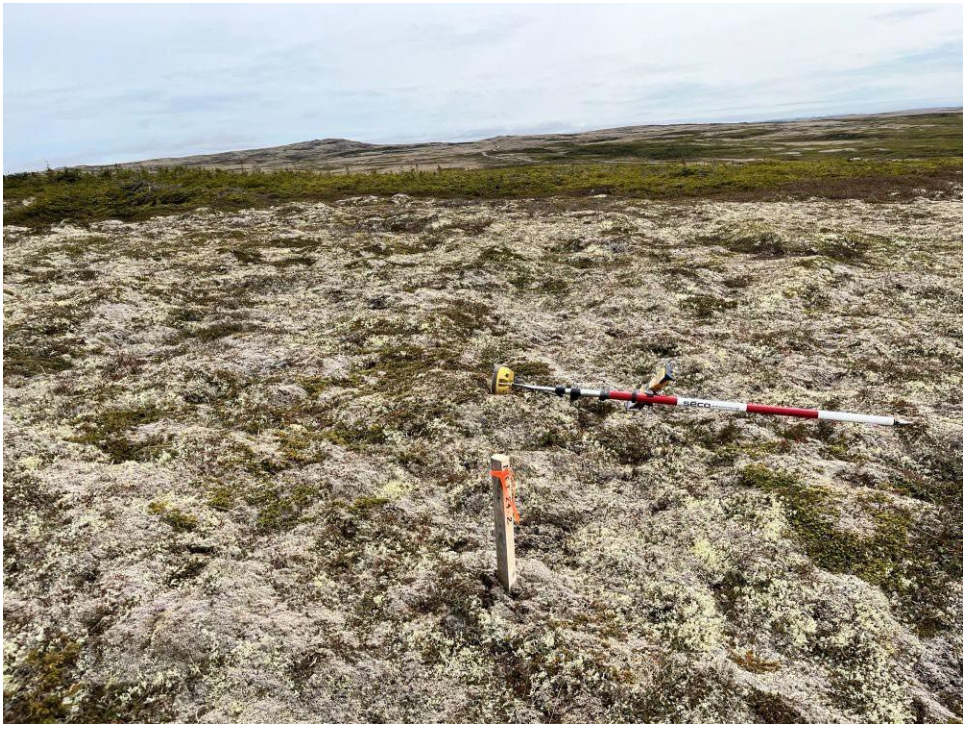
MT24-2 Anchor 1 Looking SE

MT24-2 Anchor 2 Looking NW

MT24-2 Anchor 3 Looking NW

MT24-2 Anchor 3 Looking SE

MT24-2 Looking NE



MT24-2 Looking NW

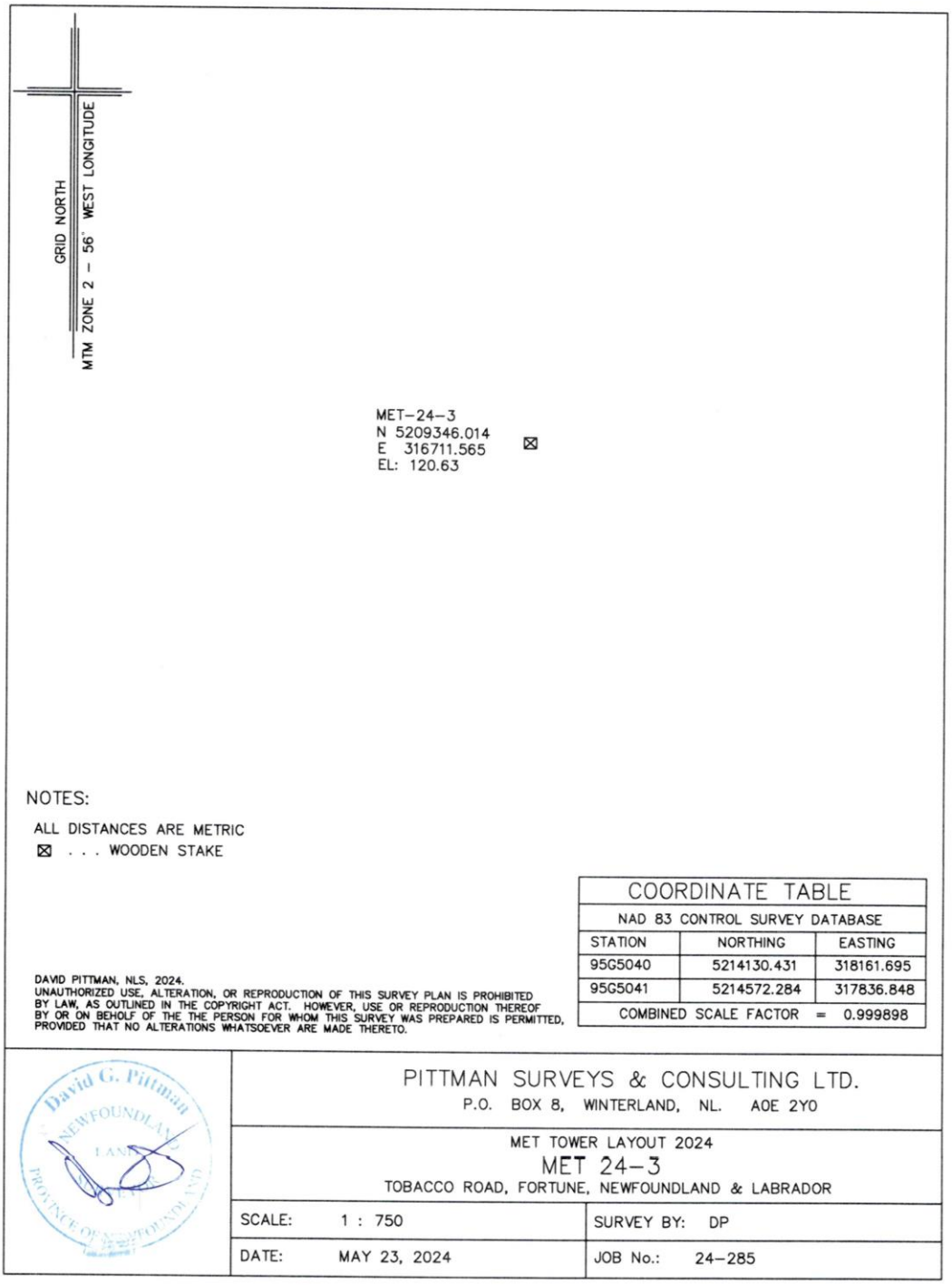
MT24-2 Looking SE

MT24-2 Looking SW

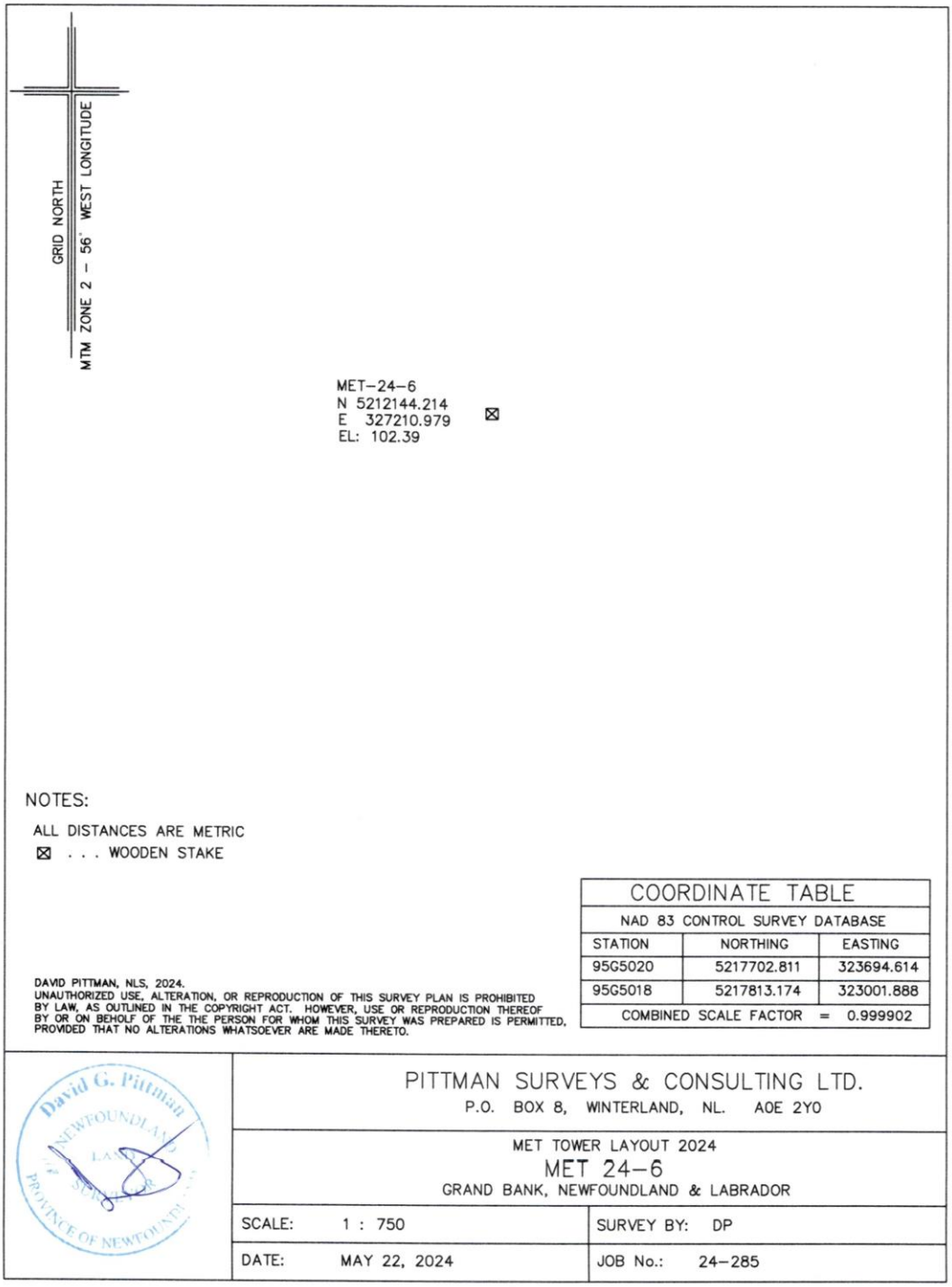
**MT24-3: Map for 60m Tilt Up Tower at Fortune Hills / Tobacco Road**


**MT24-6: Map for 60m Tilt Up Tower at Grand Bank**

**MT24-3: Survey Drawing for 60m Tilt Up Tower at Fortune Hills / Tobacco Road**



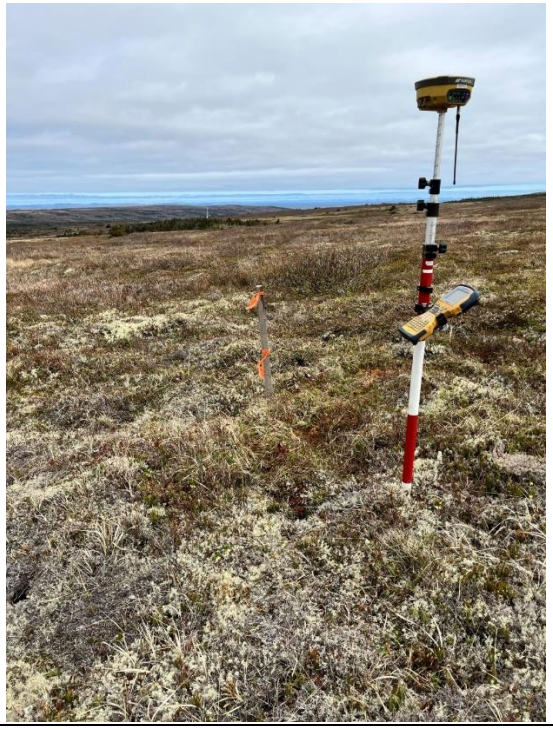
**MT24-6: Survey Drawing for 60m Tilt Up Tower at Grand Bank**



**MT24-3: Pictures for 60m Tilt Up Tower at Fortune Hills / Tobacco Road**

MT24-3 – Looking East

MT24-3 – Looking North

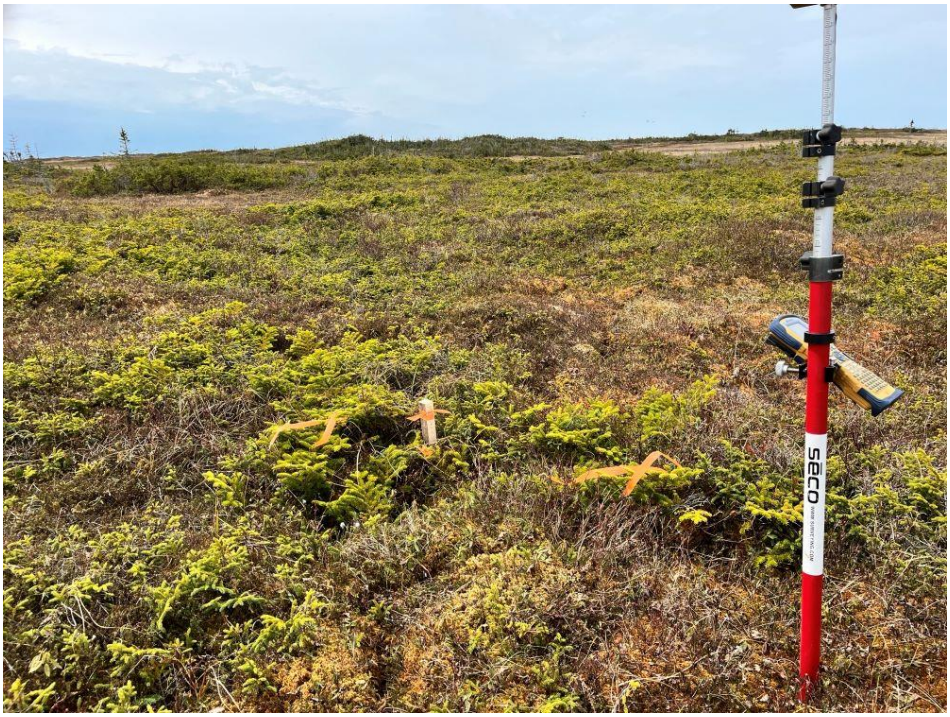


MT24-3 – Looking South

MT24-3 – Looking West

**MT24-6: Pictures for 60m Tilt Up Tower at Grand Bank**

MT24-6 Looking North



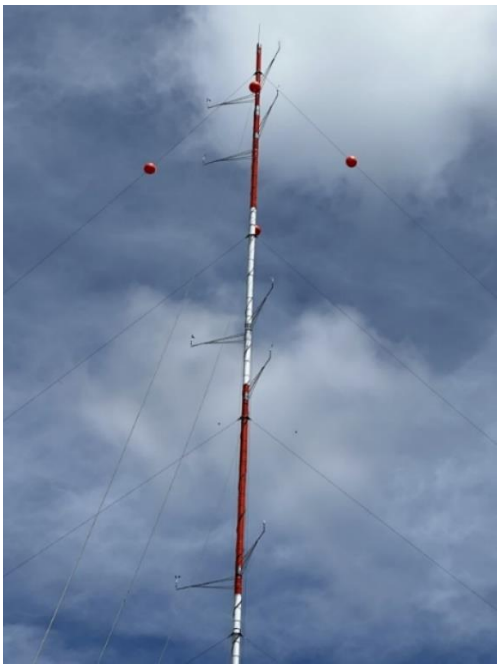

MT24-6 Looking East

MT24-6 Looking Southeast

MT24-6 Looking Southwest

**Map & Picture for Existing Tower at EE1 for Co-Location of MT-24-5 LiDar**


**Sample Pictures of existing Everwind 89m and 60m installations**

| 89m Lattice Tower | 60m Tilt Up Tower |
|---|---|
|  |  |

## A.2 MET II Permitting Table (EverWind Accountabilities)

| MET Permitting Table (Everwind Accountabilities) | | | | | |
|---|---|---|---|---|---|
| **Site** | **Type** | **Regulator / Entity** | **Permit** | **Status as of Jun 12th** | |
| **MET24-1** | 89m Lattice Tower | Crown Lands | MET Site - Licence to Operate | Submitted/Recorded as of 18th April. Pending Approval | |
| | | Crown Lands | Access Route - Licence to Operate | Submitted/Recorded as of 18th April. Pending Approval | |
| | | Town of St. Lawrence | Development Permit | Approved but not issued. Paperwork pending | |
| | | WRMD | Water Permit | Confirmed not required | Complete |
| | | RJG Construction | Agreement to use Quarry Access | Approved and Issued | Complete |
| | | | Permssion to use Laydown Area | To be done w/Proponent Input | |
| | | NavCanada | Land Use | Approved and Issued | Complete |
| | | | Construction Start Notice | To be done with >10days from start | |
| | | Forestry | Permit to Operate | To be done | |
| **MET24-2** | 89m Lattice Tower | Crown Lands | MET Site - Licence to Operate | Submitted/Recorded as of 25th April. Pending Approval | |
| | | Crown Lands | Access Route - Licence to Operate | Submitted/Recorded as of 25th April. Pending Approval | |
| | | WRMD | Section 48 Fording Permit | Approved and Issued in 2023 (valid to Sep '24) | Complete |
| | | Pt. May ATV Trail Association | Permission to use Laydown Area | Approved and Issued | Complete |
| | | NavCanada | Land Use | Approved and Issued | Complete |
| | | | Construction Start Notice | To be done with >10days from start | |
| | | Forestry | Permit to Operate | To be done | |
| **MET24-3** | 60m Tilt Up | Crown Lands | MET Site - Licence to Operate | Submitted/Recorded as of 24th April. Pending Approval | |
| | | Crown Lands | Access Route - Licence to Operate | Submitted/Recorded as of 24th April. Pending Approval | |
| | | WRMD | Section 48 Fording Permit | Confirmed not required | Complete |
| | | Town of Fortune | Development Permit | Application Submitted in April / Under Evaluation | |
| | | Private Residents/Cabin Owners | Permssion to use Laydown Area | To be done w/Proponent Input | |
| | | NavCanada | Land Use | Approved and Issued | Complete |
| | | | Construction Start Notice | To be done with >10days from start | |
| | | Forestry | Permit to Operate | To be done | |
| **MET24-4** | LiDar | Crown Lands | MET Site - Licence to Operate | Submitted/Recorded as of 24th April. Pending Approval | |
| | | Winterland ATV Trail Association | Permssion to use Laydown Area | To be done w/Proponent Input | |
| **MET24-5** | LiDar | Crown Lands | MET Site - Licence to Operate | Submitted/Recorded as of 24th May. Pending Approval | |
| | | Cox Construction | Permssion to use Laydown Area (old Gravel Pit) | To be done w/Proponent Input | |
| **MET24-6** | 60m Tilt Up | Crown Lands | MET Site - Licence to Operate | Submitted/Recorded as of 19th April. Pending Approval | |
| | | Crown Lands | Access Route - Licence to Operate | Submitted/Recorded as of 19th April. Pending Approval | |
| | | WRMD | Section 48 Fording Permit | Submitted/Recorded in May. Pending Approval | |
| | | Grand Bank | Development Permit | Submitted in May. Pending Approval | |
| | | NavCanada | Land Use | Approved and Issued | Complete |
| | | | Construction Start Notice | To be done with >10days from start | |
| | | Forestry | Permit to Operate | To be done | |

## A.3 Potential List of Local Civil Construction Suppliers

Disclaimer: The list provided below is not meant to convey a comprehensive supplier listing but includes suppliers whose safety records have already been vetted by Everwind. There may be many other capable civil construction vendors operating in the Burin Peninsula area. Proponents should conduct their own analysis of available and qualified civil subcontractors as applicable.

| | | | | |
|---|---|---|---|---|
| Bennett's Construction and Supplies (2011) Limited | Jennifer Lake | 709 832-2800 | bennetts2011ltd@eastlink.ca | Grand Bank |
| Brenton Group | Jack Brenton | 709 277-2457 | jbrenton@brentongroup.ca | Marystown |
| Cox's Construction Ltd. | Dale Cox | 709 873-7731 | dalecoxcl@gmail.com | Lawn |
| Mallay's Industrial Services Ltd. | Mike Mallay | 709 277-1336 | mallaysindustrial@hotmail.com | Marystown |
| RJG Construction Limited | Nick Giovanni | 709 753-5229 | nickg@rjgconstruction.com | St. John's - Fortune |
| SP Excavating | Donna Rae & Chris Loder | 709-531-5198 | donnaraeloder@hotmail.com | Little St. Lawrence |
| Stellar Storm Industries Inc. | Terry Norman | 709 689-3786 | tnorman@stellarequipment.ca | Marystown |
| TR Excavating inc. | Thomas Rennie | 709 873-7665 | trexcavating@hotmail.com | St. Lawrence |
| Wally Drake's Trucking Limited | Wally Drake | 709 279-1277 | wallydrakestrucking@hotmail.com | Marystown |

## A.4 Sample 89m Tower & Anchoring Drawings (12 pages)

QUOTE NO. Q-9725RES-D ORIGINAL JOB NO. N/A

PAPER SIZE: 11X17

| PAINT | LEG (50W) | HORIZ. | SP. HORIZ. | DIAG. | SP. PAD | SP. BOLTS | SECTION No. |
|---|---|---|---|---|---|---|---|
| | 2" S.R. | N/A | FB 3/8" x 3" | 3/4" S.R. | PL 5" x 5" x 5/8" | 5/8" x 2-1/2" A325 | 924.3.0055.001 |
| | | | | | | | 924.3.0050.001 |
| | | | | | | | 924.3.0050.001 |
| | | | | | | | 924.3.0050.001 |
| | | | | | | | 924.3.0050.001 |
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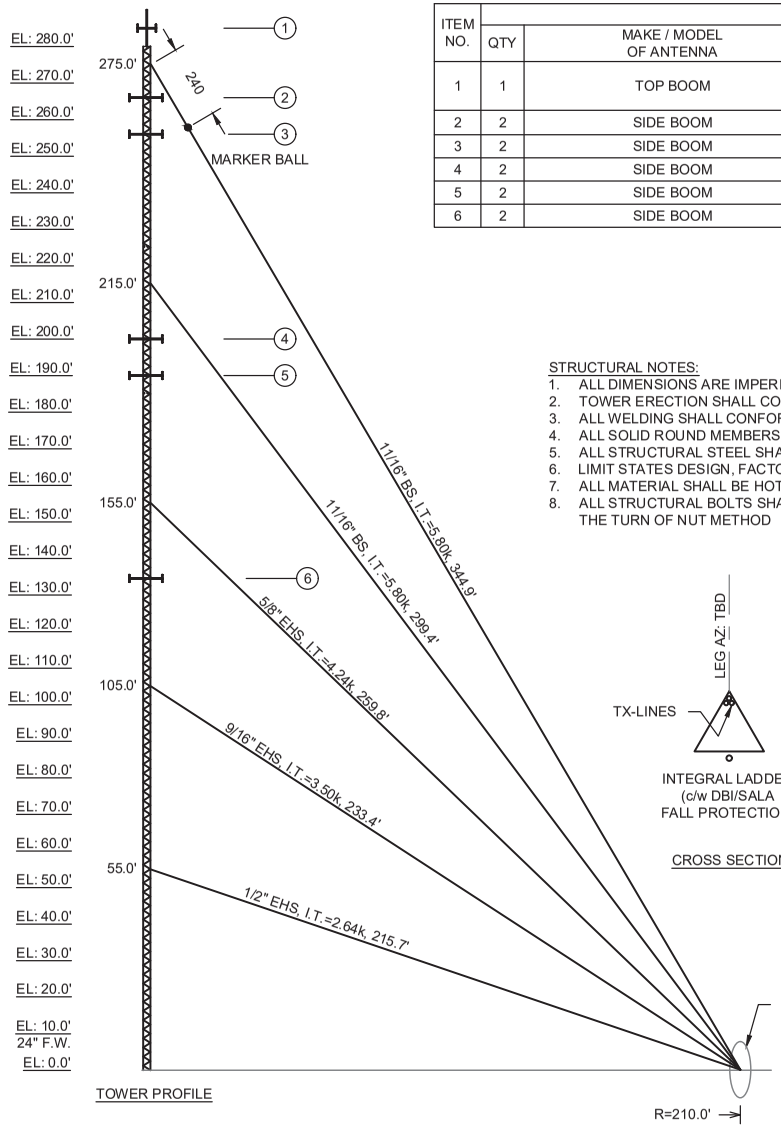
| | | | | | | | 924.3.0050.001 |
| | | | | | | | 924.3.0050.001 |
| | | | | | | | 924.3.0053.001 |
| | | | | | | | 924.3.0050.001 |
| | | | | | | | 924.3.0050.001 |
| | | | | | | | 924.3.0050.001 |
| | | | | | | | 924.3.0049.001 |
| | 2-1/4" S.R. | | | | PL 6" x 6" x 3/4" | 3/4" x 2-3/4" A325 | 9948.0001.001 |
| | | | FB 3/8" x 3" | | | | 924.3.0047.001 |
| | | | | | | | 924.3.0047.001 |
| | | | | | | | 924.3.0047.001 |
| | | | | | | | 924.3.0047.001 |
| | | | | | | | 924.3.0119.003 |




TOWER PROFILE

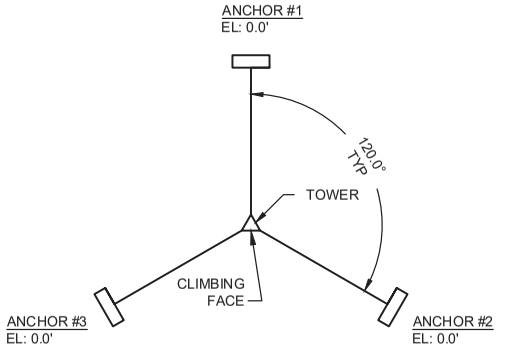
| ITEM NO. | ANTENNA LOADING | | | | | | | TX LINES | |
|---|---|---|---|---|---|---|---|---|---|
| | QTY | MAKE / MODEL OF ANTENNA | ELEV. (ft) | AZ. (°TN) | DOWN TILT | BOOM TYPE | STATUS | QTY | DESCRIPTION |
| 1 | 1 | TOP BOOM | Top | - | N/A | GOAL-POST BOOM 4.5m ABOVE TOWER | INITIAL | 4 | CAT5 |
| 2 | 2 | SIDE BOOM | 266.0 | - | N/A | SIDE MOUNT | INITIAL | 3 | CAT5 |
| 3 | 2 | SIDE BOOM | 256.0 | - | N/A | SIDE MOUNT | INITIAL | 3 | CAT5 |
| 4 | 2 | SIDE BOOM | 200.0 | - | N/A | SIDE MOUNT | INITIAL | - | CAT5 |
| 5 | 2 | SIDE BOOM | 190.0 | - | N/A | SIDE MOUNT | INITIAL | - | CAT5 |
| 6 | 2 | SIDE BOOM | 135.0 | - | N/A | SIDE MOUNT | INITIAL | - | CAT5 |

TOWER DESIGNED TO:
CODE: CSA-S37-18
WIND LOADING: 805 Pa, EC SITE SPECIFIC
ICE LOADING: 35 mm

STRUCTURAL NOTES:
1. ALL DIMENSIONS ARE IMPERIAL UNLESS NOTED OTHERWISE
2. TOWER ERECTION SHALL CONFORM TO CSA-S37 AND S16 (LATEST REVISION)
3. ALL WELDING SHALL CONFORM TO CSA-47.1 & W59 (LATEST REVISION)
4. ALL SOLID ROUND MEMBERS GREATER THAN 2" [51mm] Ø MUST BE PRE-HEATED PRIOR TO WELDING
5. ALL STRUCTURAL STEEL SHALL BE MIN. G40.21-44W [300W] OR 50W [350W] AS NOTED
6. LIMIT STATES DESIGN, FACTORED LOADING
7. ALL MATERIAL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123/A123M U.N.O.
8. ALL STRUCTURAL BOLTS SHALL CONFORM TO ASTM-A325 U.N.O. BOLTS SHALL BE TENSIONED USING THE TURN OF NUT METHOD




CROSS SECTION




LAYOUT

BASE LOADING
VERT = 183.6 kips
HORIZ = 1.3 kips

ANCHOR LOADING
UPLIFT = 57.2 kips
HORIZ = 79.8 kips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ENGINEER STAMP

OWNERS NAME: res powering change

PROJECT TITLE:
280' 24" A.W. GUYED TOWER
-

SITE NAME / CODE:
EVERWIND NEWFOUNDLAND / PM34U NL

CUSTOMER NAME:
res powering change

CUSTOMER REF / PO#:
34476

| REVISIONS | | |
|---|---|---|
| No. | Description | Date |
| A | ISSUE FOR CONSTRUCTION | 07/06/2023 |
| * | * | * |
| * | * | * |
| * | * | * |

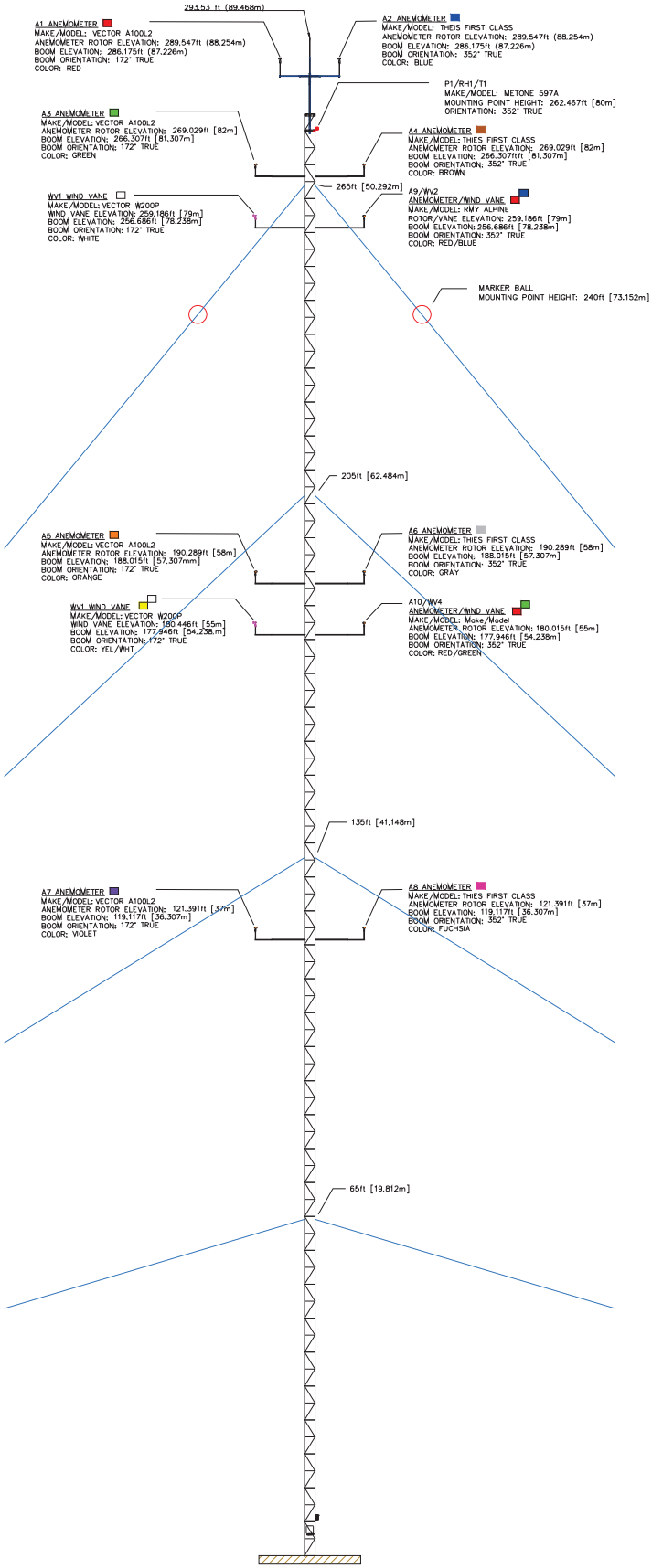
DRAWING TITLE:
TOWER PROFILE
-

APFI JOB No.
9948

DRAWING No.
9948.924.102-1

| DRWN BY | CHK'D BY | APPR'D BY |
|---|---|---|
| SB | MT | - |

DRAWING NUMBER




NOTES:
ALLOWABLE FOUNDATION EXPOSURE AT BASE OF TOWER IS 20 INCHES ABOVE GRADE. TOP OF LIGHTNING ROD MUST REMAIN UNDER 90m.

| | |
|---|---|
| DRAWING REVISION | 001 |
| DRAWN | ZF – 08 AUG 2023 |
| APPROVED | |
| DRAWING NUMBER | |
| PROJECT TITLE | EVERWIND FUELS – NL |
| DRAWING TITLE | 89M TOWER LAYOUT |
| PURPOSE | PRELIMINARY |
| COORDS | N/A |
| SCALE | N/A |
| ORIGINAL PLOT SIZE | 8.5" X 11" |
| LAYOUT DWG | N/A |
| T-LAYOUT NO. | N/A |



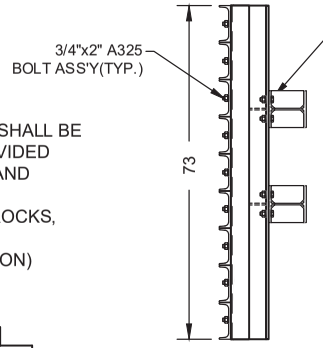
THIS DRAWING WAS PRODUCED BY:
res power for good
RENEWABLE ENERGY SYSTEMS CANADA INC.
508-5605 GASPE AVENUE
MONTREAL, QC H2T 2A4
TEL +1 514 525 2113

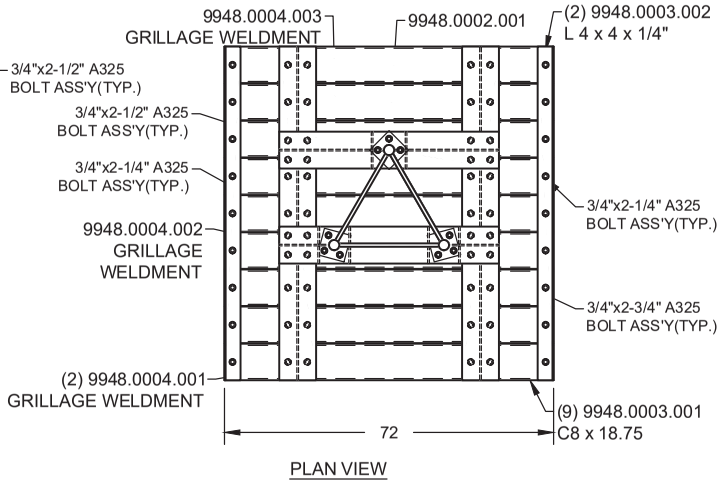
QUOTE NO. Q-9725RES-D ORIGINAL JOB NO. N/A

PAPER SIZE: 11X17

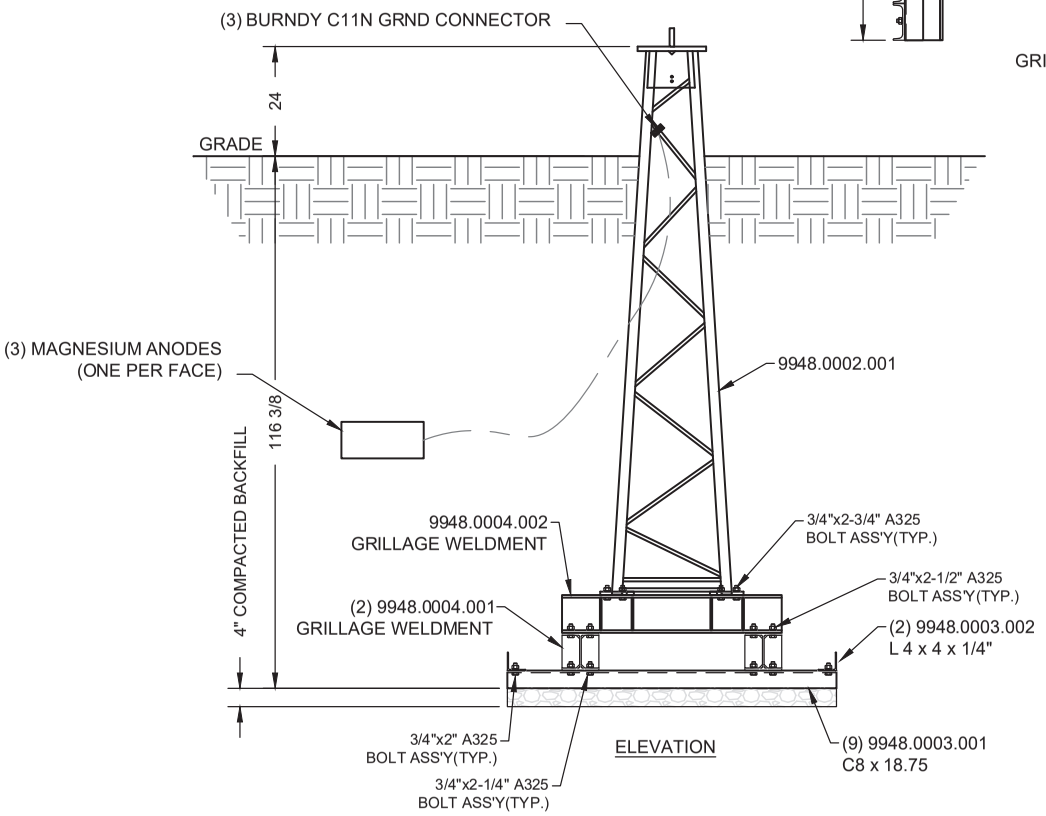
SOIL FOUNDATION NOTES:

1. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS BEFORE PROCEEDING WITH WORK.
2. FOUNDATION DESIGNED BASED ON ASSUMED VALUES BELOW:
   ULTIMATE BEARING CAPACITY OF SOIL = 11.9 KSF [570 KPA]
   SOIL DENSITY = 110 LBS/FT³ [17.3 KN/M³]
   KP = 3.0
   WATER TABLE = 10 FT [3.0 M] OR GREATER DEPTH
   ANGLE OF FRICTION = 30°
3. FOUNDATION BASE SHALL BE PLACED AGAINST UNDISTURBED SOIL
4. ALL ANCHORAGE STEEL BELOW GRADE NOT ENCASED IN CONCRETE SHALL BE GALVANIZED AND FURTHER CORROSION PROTECTION SHALL BE PROVIDED
5. BACKFILL SHALL BE PLACED IN LIFTS NO GREATER THAN 10" [250mm] AND COMPACTED TO A MINIMUM OF 95% OF S.P.D.D.
6. ALL BACKFILL MATERIAL SHALL BE FREE OF DEBRIS, WATER, LARGE ROCKS, ORGANIC MATERIAL, ICE AND SNOW.
7. FOUNDATION DESIGNED IN ACCORDANCE TO CSA-S37 (LATEST REVISION)




PLAN VIEW

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PROJECT TITLE:
280' 24" A.W. GUYED TOWER
-

SITE NAME / CODE:
EVERWIND NEWFOUNDLAND / PM34U NL

CUSTOMER NAME:
res powering change

CUSTOMER REF / PO#:
34476

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DRAWING TITLE:
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APFI JOB No.
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DRAWING No.
9948.924.106-1

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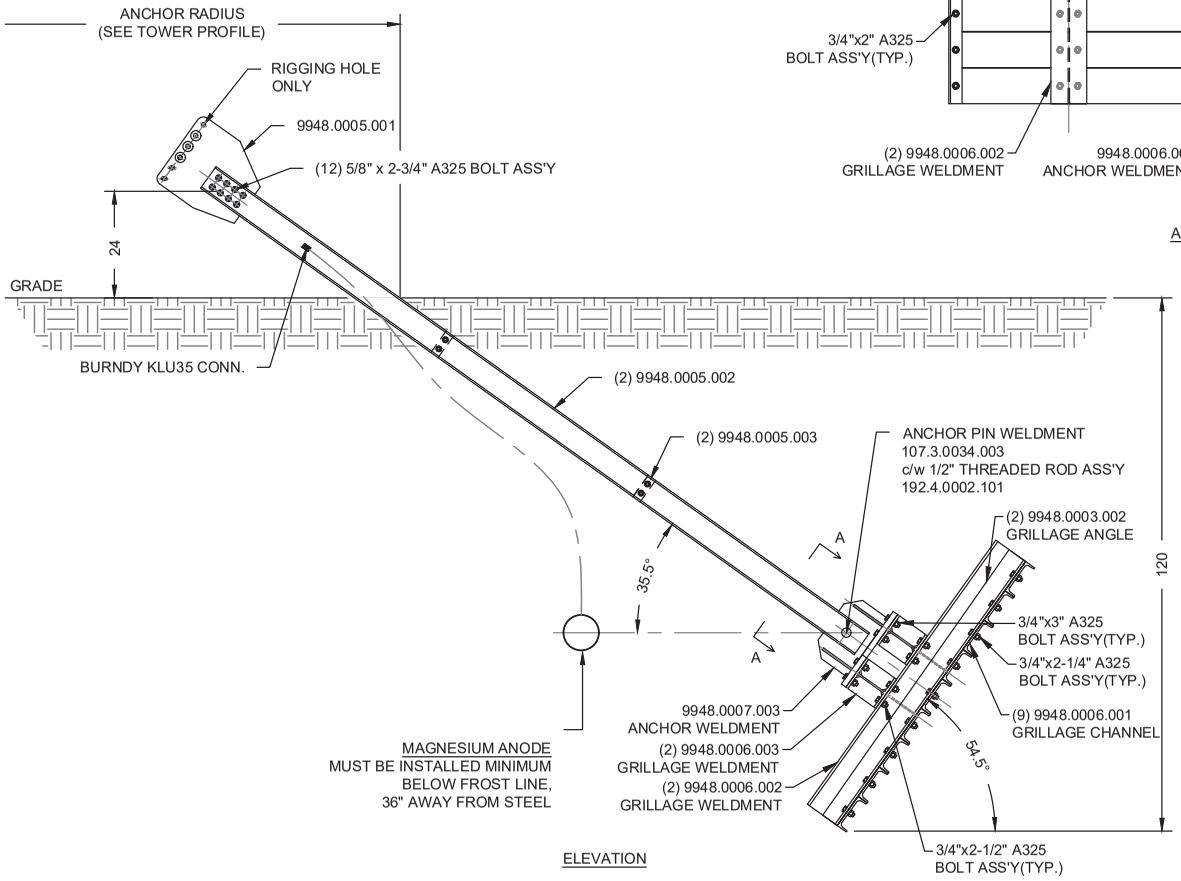
|---|---|---|
| SB | MT | - |

QUOTE NO. Q-9725RES-D ORIGINAL JOB NO. N/A

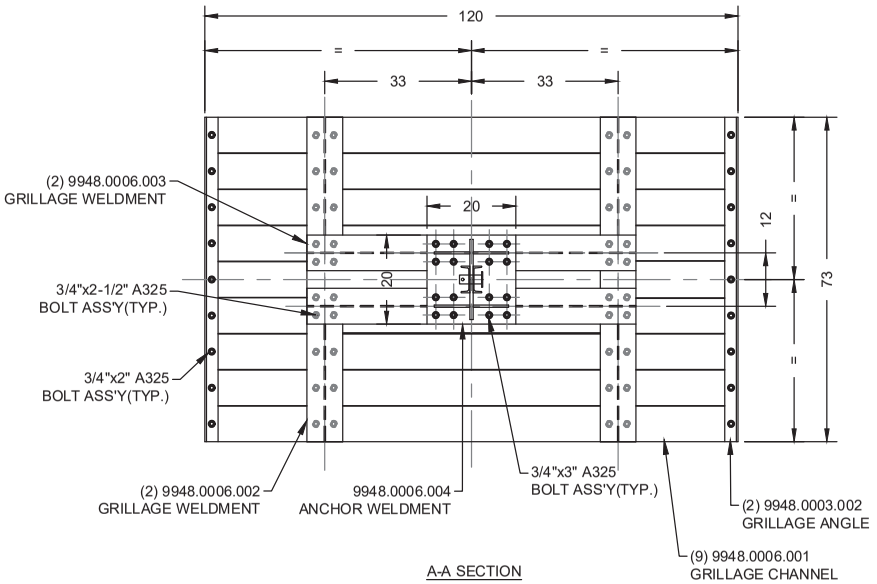
PAPER SIZE: 11X17

SOIL FOUNDATION NOTES:

1. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS BEFORE PROCEEDING WITH WORK.
2. FOUNDATION DESIGNED BASED ON ASSUMED VALUES BELOW:
   ULTIMATE BEARING CAPACITY OF SOIL = 11.9 KSF [570 KPA]
   SOIL DENSITY = 110 LBS/FT³ [17.3 KN/M³]
   KP = 3.0
   WATER TABLE = 10 FT [3.0 M] OR GREATER DEPTH
   ANGLE OF FRICTION = 30°
3. FOUNDATION BASE SHALL BE PLACED AGAINST UNDISTURBED SOIL
4. ALL ANCHORAGE STEEL BELOW GRADE NOT ENCASED IN CONCRETE SHALL BE GALVANIZED AND FURTHER CORROSION PROTECTION SHALL BE PROVIDED
5. BACKFILL SHALL BE PLACED IN LIFTS NO GREATER THAN 10" [250mm] AND COMPACTED TO A MINIMUM OF 95% OF S.P.D.D.
6. ALL BACKFILL MATERIAL SHALL BE FREE OF DEBRIS, WATER, LARGE ROCKS, ORGANIC MATERIAL, ICE AND SNOW.
7. FOUNDATION DESIGNED IN ACCORDANCE TO CSA-S37 (LATEST REVISION)




ELEVATION




A-A SECTION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ENGINEER STAMP

OWNERS NAME: res powering change

PROJECT TITLE:
280' 24" A.W. GUYED TOWER
-

SITE NAME / CODE:
EVERWIND NEWFOUNDLAND / PM34U NL

CUSTOMER NAME:
res powering change

CUSTOMER REF / PO#:
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| A | ISSUE FOR CONSTRUCTION | 07/23/2023 |
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ANCHOR FOUNDATION DETAILS

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9948.924.107-1

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|---|---|---|
| SB | MT | - |

QUOTE NO. Q-9725RES-D ORIGINAL JOB NO. N/A

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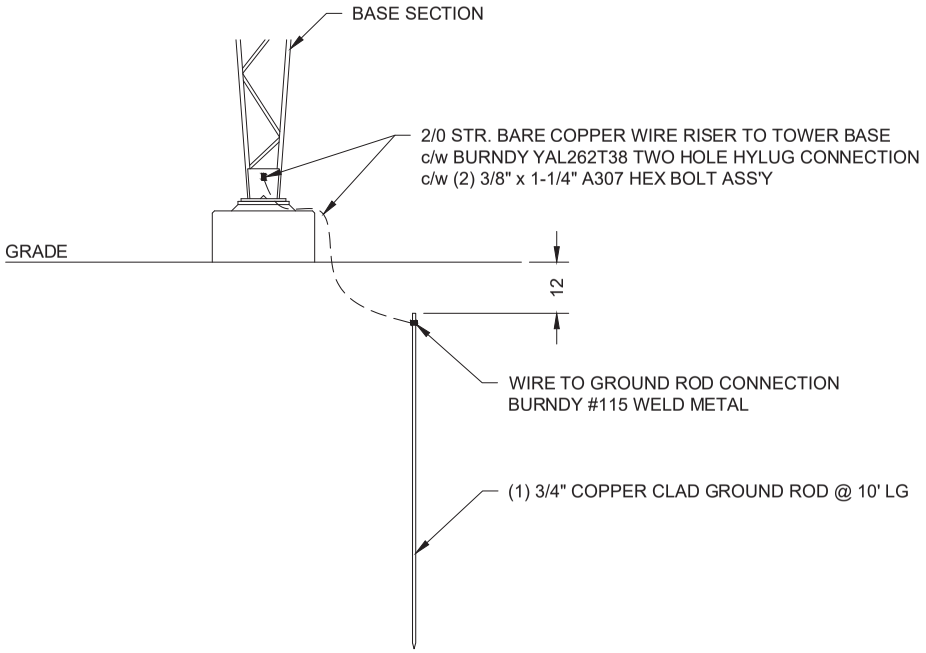
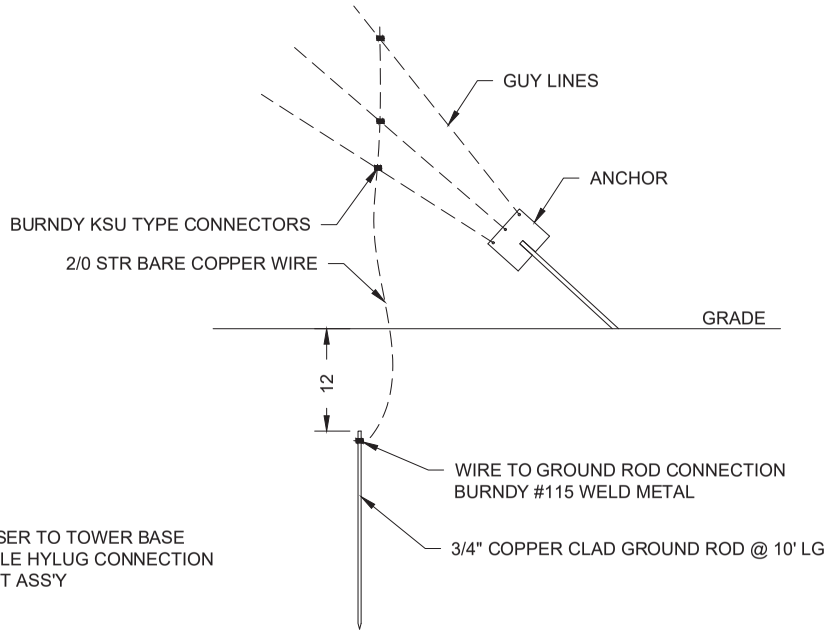
GROUNDING NOTES:

1. ALL BELOW GRADE GROUNDING WIRE SHALL BE 2/0 STR. BARE COPPER WIRE.
2. ALL BELOW GRADE CONNECTIONS SHALL BE MADE USING CADWELD EXOTHERMIC CONNECTIONS.
3. GROUND WIRE MUST BE BURIED MINIMUM 24" AWAY FROM STEEL PILE FOUNDATION AND 12" MINIMUM BELOW GRADE.
4. ANTI OXIDATION COMPOUND SUCH AS PENETROX, SHALL BE USED ON ALL ABOVE GRADE MECHANICAL GROUND CONNECTIONS.




BASE ELEVATION




ANCHOR ELEVATION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ENGINEER STAMP

OWNERS NAME: res powering change

PROJECT TITLE:
280' 24" A.W. GUYED TOWER
-

SITE NAME / CODE:
EVERWIND NEWFOUNDLAND / PM34U NL

CUSTOMER NAME:
res powering change

CUSTOMER REF / PO#:
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DRAWING TITLE:
GROUNDING DETAILS
-

APFI JOB No.
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DRAWING No.
9948.924.110-1

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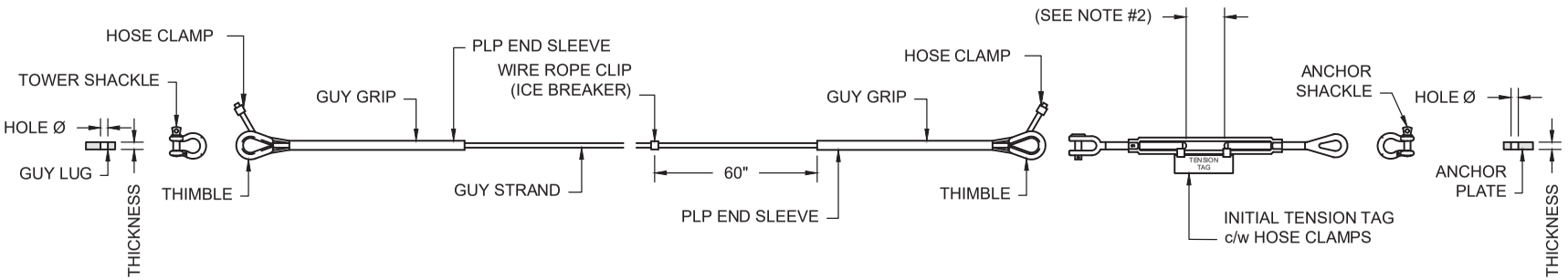
|---|---|---|
| SB | MT | - |

QUOTE NO. Q-9725RES-D ORIGINAL JOB NO. N/A




| GUY ASSEMBLY CHART | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GUY ELEV (ft) | GUY LUG | | TOWER SHACKLE (S.P.) | | | THIMBLE (HEAVY) | STRAND (LEFT HAND LAY) | | GUY GRIPS (BOTH ENDS) | | | WIRE ROPE CLIP | JAW & EYE TURNBUCKLE | | ANCHOR SHACKLE | | | ANCHOR PLATE | |
| | PLT THK | HOLE Ø | SIZE | PIN Ø | T. ULT (kips) | | DESCRIPTION | T. ULT (kips) | SIZE | PART # | T. ULT (kips) | | SIZE | T. ULT (kips) | SIZE | PIN Ø | T. ULT (kips) | PLT THK | HOLE Ø |
| 55.0 | 3/4" | 7/8" | 5/8" | 3/4" | 39.00 | 9/16" | 1/2" EHS 1 x 7 LL GALV STRAND | 26.90 | 1/2" | BG-2115 | 26.90 | 1/2" | 7/8" x 12" | 36.00 | 5/8" | 3/4" | 39.00 | 3/4" | 7/8" |
| 105.0 | 3/4" | 7/8" | 5/8" | 3/4" | 39.00 | 5/8" | 9/16" EHS 1 x 7 LL GALV STRAND | 35.00 | 9/16" | BG-2116 | 35.00 | 1/2" | 1" x 18" | 50.00 | 5/8" | 3/4" | 39.00 | 3/4" | 7/8" |
| 155.0 | 1" | 1" | 3/4" | 7/8" | 57.00 | 3/4" | 5/8" EHS 1 x 7 LL GALV STRAND | 42.40 | 5/8" | BG-2111 | 42.40 | 5/8" | 1" x 18" | 50.00 | 3/4" | 7/8" | 57.00 | 1" | 1" |
| 215.0 | 1" | 1" | 3/4" | 7/8" | 57.00 | 3/4" | 11/16" BS 1 x 19 LL GALV BRIDGE STRAND | 58.00 | 11/16" | BGMS-1035 | 58.00 | 5/8" | 1-1/4" x 18" | 76.00 | 3/4" | 7/8" | 57.00 | 1" | 1" |
| 275.0 | 1" | 1" | 3/4" | 7/8" | 57.00 | 3/4" | 11/16" BS 1 x 19 LL GALV BRIDGE STRAND | 58.00 | 11/16" | BGMS-1035 | 58.00 | 5/8" | 1-1/4" x 18" | 76.00 | 3/4" | 7/8" | 57.00 | 1" | 1" |

NOTES
1. ALL DIMENSIONS ARE IN IMPERIAL UNLESS NOTED OTHERWISE
2. FOR INITIAL INSTALLATIONS, THE MINIMUM TAKE-UP ADJUSTMENT AVAILABLE AFTER THE STRUCTURE IS PLUMB AND THE GUY TENSIONS ARE SET SHOULD BE:
   2.1. 6" (150mm) FOR GUYS WITH NOMINAL DIAMETRE OF 1/2" (13mm) AND SMALLER; AND
   2.2. 10" (250mm) FOR GUYS WITH NOMINAL DIAMETRE GREATER THAN 13mm.
3. AFTER INSTALLATION, SECURE TURNBUCKLES FROM ROTATION USING 3/16" GALV CHAIN AND 3/8" HARDWARE PROVIDED.

PAPER SIZE: 11X17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ENGINEER STAMP

OWNERS NAME: res powering change

PROJECT TITLE: 280' 24" A.W. GUYED TOWER -

SITE NAME / CODE: EVERWIND NEWFOUNDLAND / PM34U NL

CUSTOMER NAME: res powering change

CUSTOMER REF / PO#: 34476

| REVISIONS | | |
|---|---|---|
| No. | Description | Date |
| A | ISSUE FOR CONSTRUCTION | 07/06/2023 |
| * | * | * |
| * | * | * |
| * | * | * |

DRAWING TITLE: GUY ASSEMBLY DETAILS

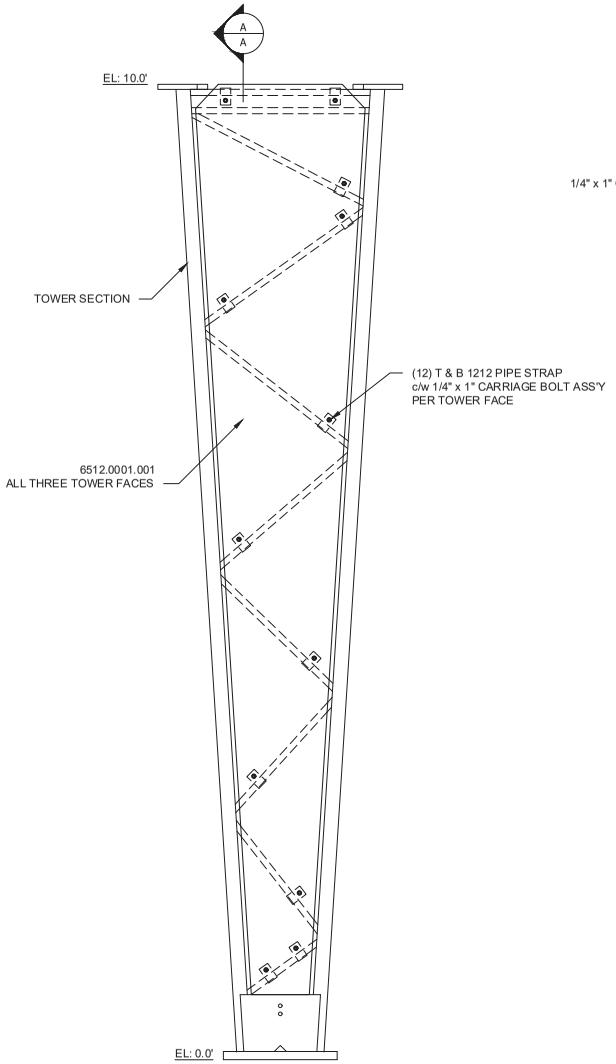
APFI JOB No. 9948

DRAWING No. 9948.924.113-1

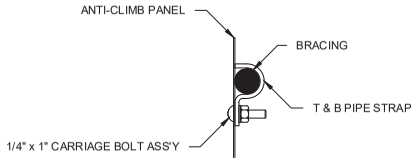
| DRWN BY | CHK'D BY | APPR'D BY |
|---|---|---|
| SB | MT | - |

QUOTE NO. Q-9948RES-D ORIGINAL JOB NO. N/A

PAPER SIZE: 11X17




ELEVATION




SECTION A-A


ALLAN PIPE

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ENGINEER STAMP

OWNERS NAME: res

PROJECT TITLE:
280' 24" A.W. GUYED TOWER
-

SITE NAME / CODE:
EVERWIND NEWFOUNDLAND / PM34U NL

CUSTOMER NAME: res powering change®

CUSTOMER REF / PO#:
34476

REVISIONS

| No. | Description | Date |
|---|---|---|
| A | ISSUE FOR CONSTRUCTION | 07/06/2023 |
| * | * | * |
| * | * | * |
| * | * | * |

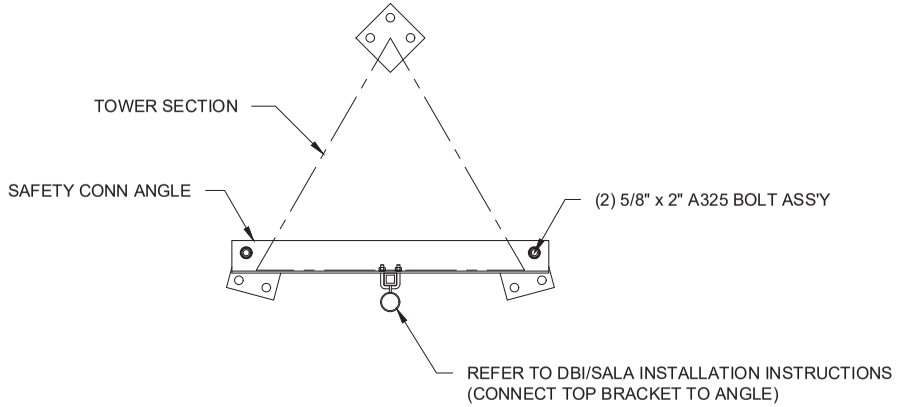
DRAWING TITLE:
ANTI-CLIMB DETAILS
-

APFI JOB No.
9948

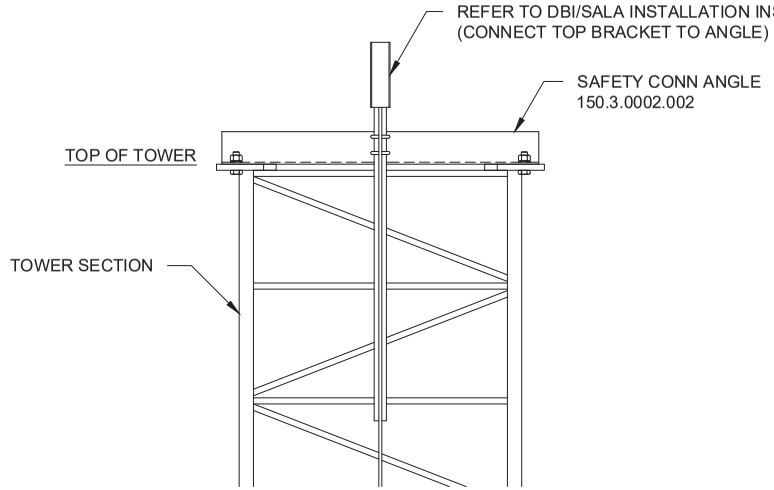
DRAWING No.
9948.924.130-1

| DRWN BY | CHK'D BY | APPR'D BY |
|---|---|---|
| SB | MT | - |

QUOTE NO. Q-9725RES-D ORIGINAL JOB NO. N/A




PLAN VIEW




ELEVATION

PAPER SIZE: 11X17


ALLAN PIPE

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ENGINEER STAMP

OWNERS NAME: res powering change

PROJECT TITLE:
280' 24" A.W. GUYED TOWER
-

SITE NAME / CODE:
EVERWIND NEWFOUNDLAND / PM34U
NL

CUSTOMER NAME: res powering change

CUSTOMER REF / PO#:
34476

REVISIONS

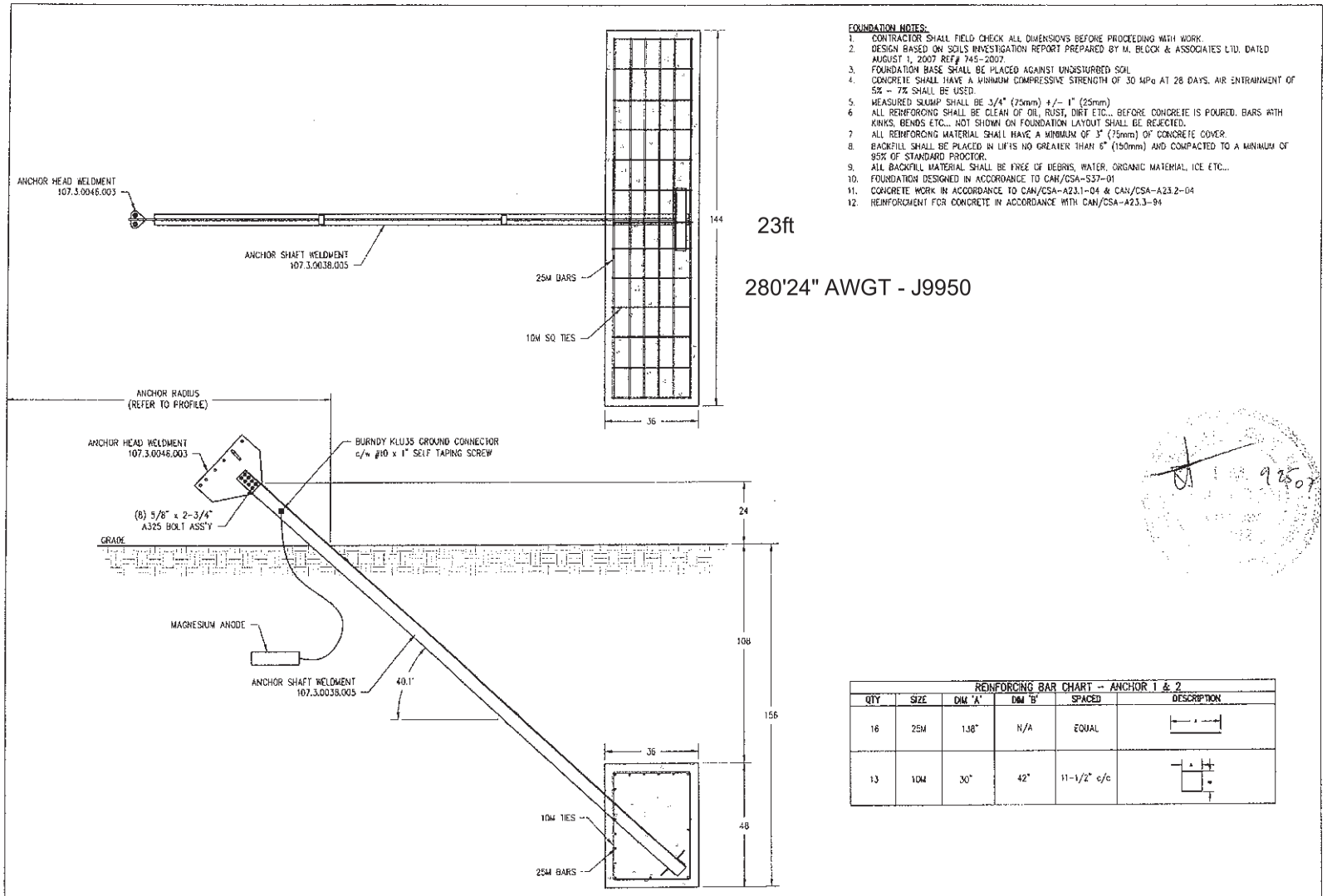
| No. | Description | Date |
|---|---|---|
| A | ISSUE FOR CONSTRUCTION | 07/06/2023 |
| * | * | * |
| * | * | * |
| * | * | * |

DRAWING TITLE:
FALL PROTECTION DETAILS
-

APFI JOB No.
9948

DRAWING No.
9948.924.150-1

| DRWN BY | CHK'D BY | APPR'D BY |
|---|---|---|
| SB | MT | - |




23ft

280'24" AWGT - J9950

FOUNDATION NOTES:

1. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS BEFORE PROCEEDING WITH WORK.
2. DESIGN BASED ON SOILS INVESTIGATION REPORT PREPARED BY M. BLOCK & ASSOCIATES LTD. DATED AUGUST 1, 2007 REF# 745-2007.
3. FOUNDATION BASE SHALL BE PLACED AGAINST UNDISTURBED SOIL
4. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS. AIR ENTRAINMENT OF 5% - 7% SHALL BE USED.
5. MEASURED SLUMP SHALL BE 3/4" (75mm) +/- 1" (25mm)
6. ALL REINFORCING SHALL BE CLEAN OF OIL, RUST, DIRT ETC... BEFORE CONCRETE IS POURED. BARS WITH KINKS, BENDS ETC... NOT SHOWN ON FOUNDATION LAYOUT SHALL BE REJECTED.
7. ALL REINFORCING MATERIAL SHALL HAVE A MINIMUM OF 3" (75mm) OF CONCRETE COVER.
8. BACKFILL SHALL BE PLACED IN LIFTS NO GREATER THAN 6" (150mm) AND COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR.
9. ALL BACKFILL MATERIAL SHALL BE FREE OF DEBRIS, WATER, ORGANIC MATERIAL, ICE ETC...
10. FOUNDATION DESIGNED IN ACCORDANCE TO CAN/CSA-S37-01
11. CONCRETE WORK IN ACCORDANCE TO CAN/CSA-A23.1-04 & CAN/CSA-A23.2-04
12. REINFORCEMENT FOR CONCRETE IN ACCORDANCE WITH CAN/CSA-A23.3-94

REINFORCING BAR CHART - ANCHOR 1 & 2

| QTY | SIZE | DIM 'A' | DIM 'B' | SPACED | DESCRIPTION |
|---|---|---|---|---|---|
| 16 | 25M | 138" | N/A | EQUAL | |
| 13 | 10M | 30" | 42" | 11-1/2" c/c | |

| Rev. | Rev'd By | App'd By | Rev. Description | Date |
|---|---|---|---|---|
| A | NG | | ISSUE FOR CONSTRUCTION | 07 SEPT 20 |

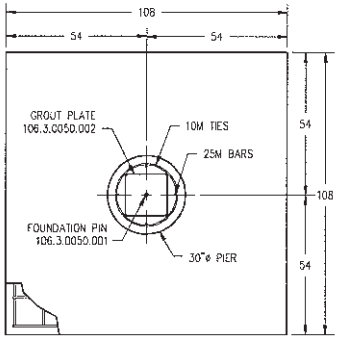
Notes:
1. ALL DIMENSIONS ARE IN INCHES

ALLAN PIPE FAB INC.
305 DOBBIE DRIVE
CAMBRIDGE, ON. CANADA
P: (519) 822-6613 F: (519) 623-7062

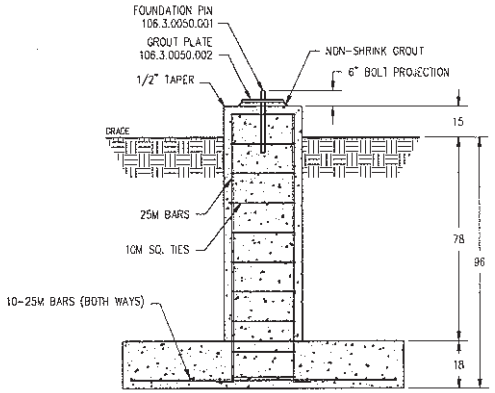
Drawn: SEPT 20 | Scale: 1:20
Checked: B | Job No.: 3202
Drawing Title: ANCHOR FOUNDATION DETAILS | Drawing No.: 3202.930.107-1

**FOUNDATION NOTES:**

1. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS BEFORE PROCEEDING WITH WORK.
2. FOUNDATION DESIGNED BASED ON 75 kPa ALLOWABLE BEARING CAPACITY
3. FOUNDATION BASE SHALL BE PLACED AGAINST UNDISTURBED SOIL
4. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS. AIR ENTRAINMENT OF 5% - 7% SHALL BE USED.
5. MEASURED SLUMP SHALL BE 3/4" (75mm) +/- 1" (25mm)
6. NON SHRINK GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 48 MPa AT 28 DAYS SHALL BE USED AT BASE OF TOWER.
7. ALL REINFORCING SHALL BE CLEAN OF OIL, RUST, DIRT ETC... BEFORE CONCRETE IS POURED. BARS WITH KINKS, BENDS ETC... NOT SHOWN ON FOUNDATION LAYOUT SHALL BE REJECTED.
8. ALL REINFORCING MATERIAL SHALL HAVE A MINIMUM OF 3" (75mm) OF CONCRETE COVER.
9. BACKFILL SHALL BE PLACED IN LIFTS NO GREATER THAN 6" (150mm) AND COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR.
10. ALL BACKFILL MATERIAL SHALL BE FREE OF DEBRIS, WATER, ORGANIC MATERIAL, ICE ETC...
11. FOUNDATION DESIGNED IN ACCORDANCE TO CAN/CSA-S37-01
12. CONCRETE WORK IN ACCORDANCE TO CAN/CSA-A23.1-04 & CAN/CSA-A23.2-04
13. REINFORCMENT FOR CONCRETE IN ACCORDANCE WITH CAN/CSA-A23.3-94




# 280'24" AWGT - J9950




REINFORCING BAR CHART

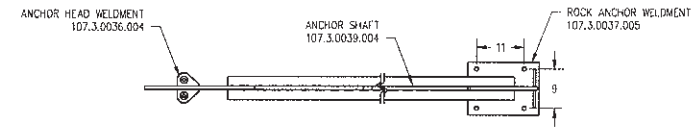
| QTY | SIZE | DIM 'A' | DIM 'B' | SPACED | DESCRIPTION |
|---|---|---|---|---|---|
| 20 | 25M | 102" | N/A | 11-1/2" | A |
| 10 | 10M | 24" | N/A | 12" c/c | A |
| 8 | 25M | 114" | 12" | EQUALLY | A, B |

| Rev. | Rev'd By | App'd By | Rev. Description | Date |
|---|---|---|---|---|
| A | MD | | ISSUE FOR CONSTRUCTION | 07 APR 25 |

Notes:
1. ALL DIMENSIONS ARE IN INCHES


**ALLAN PIPE FAB INC.**
395 DOBBIE DRIVE
CAMBRIDGE, ON, CANADA
P: (519) 622-6013 F: (519) 622-7062


Drawn By:
Checked By:
Date: 07 APR 25
Scale: 1:30
Job No: 3054
Drawing Title: FOUNDATION DETAILS
Drawing No.: 3054.930.106-1



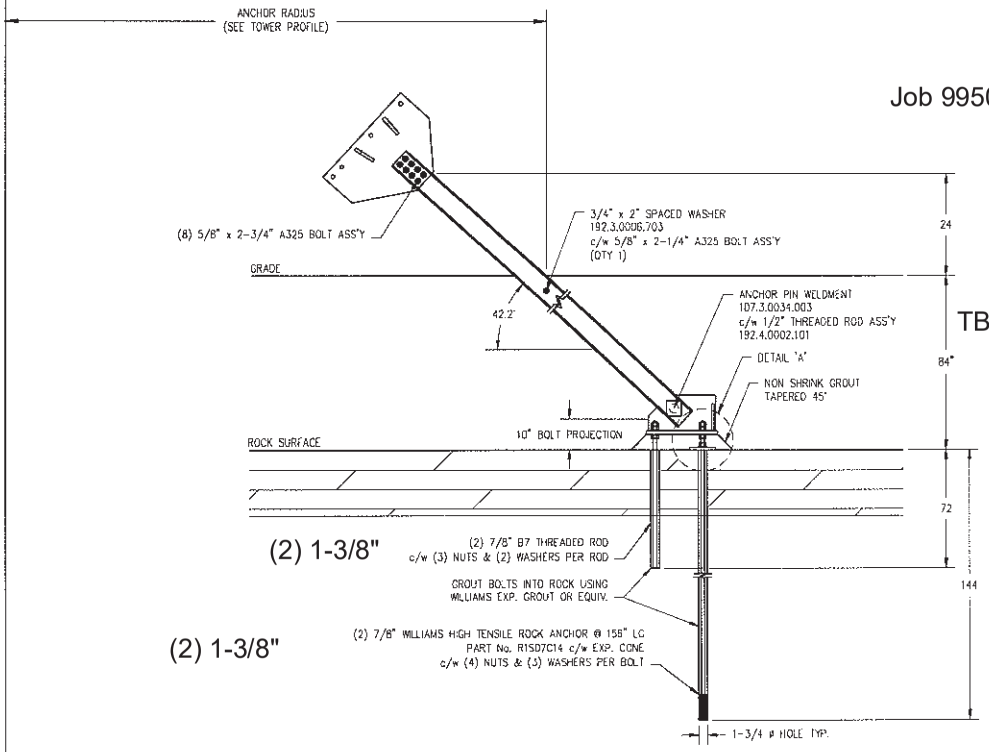

**FOUNDATION NOTES:**

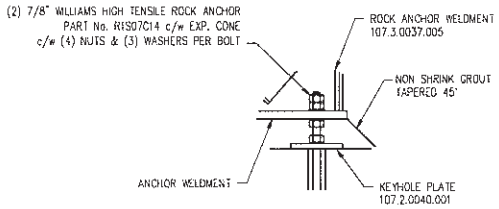
1. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS BEFORE PROCEEDING WITH WORK.
2. DESIGN BASED ON SOILS INVESTIGATION REPORT PREPARED BY M. BLOCK & ASSOCIATES LTD. DATED FEBRUARY 28, 2007 REF# 715-2007.
3. FOUNDATION BASE SHALL BE PLACED AGAINST ROCK
4. NON SHRINK GROUT WITH MINIMUM COMPRESSIVE STRENGTH OF 48 MPa AT 28 DAYS SHALL BE USED UNDER ROCK ANCHOR WELDMENT
5. BACKFILL SHALL BE PLACED IN LIFTS NO GREATER THAN 6" (150mm) AND COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR.
6. ALL BACKFILL MATERIAL SHALL BE FREE OF DEBRIS, WATER, ORGANIC MATERIAL, ICE ETC...
7. FOUNDATION DESIGNED IN ACCORDANCE TO CAN/CSA-S37-01
8. CONCRETE WORK IN ACCORDANCE TO CAN/CSA-A23.1-04 & CAN/CSA-A23.2-04
9. REINFORCEMENT FOR CONCRETE IN ACCORDANCE WITH CAN/CSA-A23.3-94

**WILLIAMS HIGH TENSILE ROCK BOLTS:**

PART No. R1S07C14
BOLT DIAMETRE = 7/8"
REQUIRED HOLE DIAMETRE IN ROCK = 1-3/4"
TORQUE TO SET SHELL = 390 ft lbs
PRE-TENSION = 28 kips

## Job 9950 - 280ft 24" AWGT, NL




DETAIL 'A'

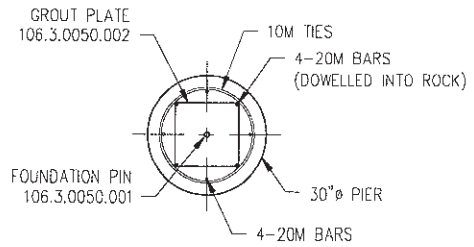
ANCHOR # 3

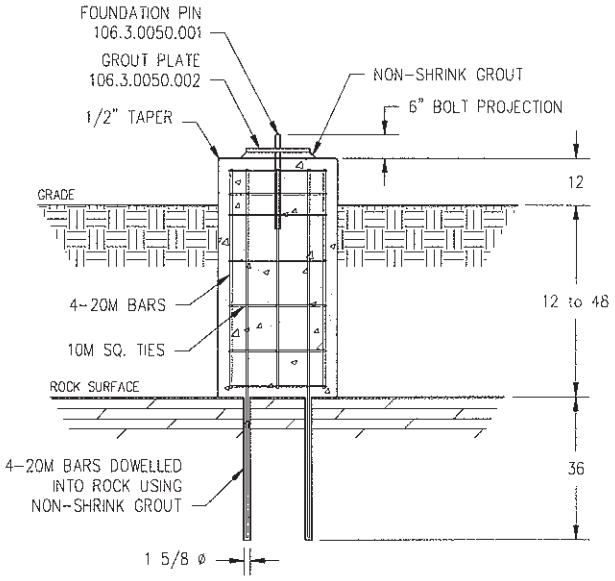
| Rev. | Rev'd By | App'd By | Rev. Description | Date |
|---|---|---|---|---|
| A | MD | | ISSUE FOR CONSTRUCTION | 07 APR 25 |

Notes:
1. ALL DIMENSIONS ARE IN INCHES
2. REFER TO MANUFACTURERS CATELOG FOR INSTALLATION INSTRUCTIONS
3. REFERRED TO ON SOILS REPORT AS TEST HOLE # 3


**ALLAN PIPE FAB INC.**
386 DOBBIE DRIVE
CAMBRIDGE, ON, CANADA
P: (519) 622-6013 F: (519) 622-7052


Drawn By: | Checked By: | Date: 07 25 | Scale: 1:20
Job No: 3053
Drawing Title: ROCK ANCHOR DETAILS
Drawing No.: 3053.930.107-1




FOUNDATION NOTES:

1. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS BEFORE PROCEEDING WITH WORK.
2. DESIGNED BASED ON ASSUMING GOOD ROCK CONDITIONS.
3. FOUNDATION BASE SHALL BE PLACED AGAINST ROCK SURFACE
4. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS. AIR ENTRAINMENT OF 5% – 7% SHALL BE USED.
5. MEASURED SLUMP SHALL BE 3/4" (75mm) +/- 1" (25mm)
6. NON SHRINK GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 48 MPa AT 28 DAYS SHALL BE USED AT BASE OF TOWER.
7. ALL REINFORCING SHALL BE CLEAN OF OIL, RUST, DIRT ETC... BEFORE CONCRETE IS POURED. BARS WITH KINKS, BENDS ETC... NOT SHOWN ON FOUNDATION LAYOUT SHALL BE REJECTED.
8. ALL REINFORCING MATERIAL SHALL HAVE A MINIMUM OF 3" (75mm) OF CONCRETE COVER.
9. BACKFILL SHALL BE PLACED IN LIFTS NO GREATER THAN 6" (150mm) AND COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR.
10. ALL BACKFILL MATERIAL SHALL BE FREE OF DEBRIS, WATER, ORGANIC MATERIAL, ICE ETC...
11. FOUNDATION DESIGNED IN ACCORDANCE TO CAN/CSA-S37-01
12. CONCRETE WORK IN ACCORDANCE TO CAN/CSA-A23.1-04 & CAN/CSA-A23.2-04
13. REINFORCMENT FOR CONCRETE IN ACCORDANCE WITH CAN/CSA-A23.3-94

## Job 9950 - 280ft 24"AWGT - NL

REINFORCING BAR CHART

| QTY | SIZE | DIM 'A' | DIM 'B' | SPACED | DESCRIPTION |
|---|---|---|---|---|---|
| 4 | 20M | 54" | N/A | EQUALLY | A |
| 4 | 20M | 96" | N/A | EQUALLY | A |
| 7 | 10M | 24" | N/A | (2) @ 6" c/c 12" c/c | A |

| Rev. | Rev'd By: | App'd By: | Rev. Description | Date: |
|---|---|---|---|---|
| A | MO | | ISSUE FOR CONSTRUCTION | 08 FEB 20 |

Notes:
1. ALL DIMENSIONS ARE IN INCHES

**ALLAN PIPE FAB INC.**
395 DOBBIE DRIVE
CAMBRIDGE, ON. CANADA
P: (519) 622-6013 F: (519) 622-7062

| Drawn By: | Checked By: | Date: | Scale: |
|---|---|---|---|
| MO | | 08 FEB 20 | 1:30 |

Job No: 3390

Drawing Title: TOWER FOUNDATION DETAILS

Drawing No. 3390.924.106-1