



METALS INC.

AMG HISTORY

AMG Metals Inc. has been an industry leading supplier of quality aluminum and metal products since 1980, leading the market in sign structures and railings. AMG has supplied projects in Canada and the USA, meeting the required specifications with in house engineering and Solidworks modeling.

AMG has since added on a multitude of offerings to diversify including Communication towers, Transmission & Distribution poles, Station steel structures, Rail Signalling structures and LRT (Light Rapid Transit) structures to name a few. As you will see in our current offering brochure, we are not limited to those items, we are a fully custom manufacturing facility offering you the best one stop solution facility in the market.

As a result of our expertise, the Industry has relied on AMG over the years to provide quality and timely service whether it be "supply only" or "supply and install", (options regionally).

AMG products are marketed across Canada and the US, either direct or through agencies. We are a CSA & CWB certified operation, as well as meeting the requirements of the AWS.

Contact our sales team today at sales@amgmetals.com

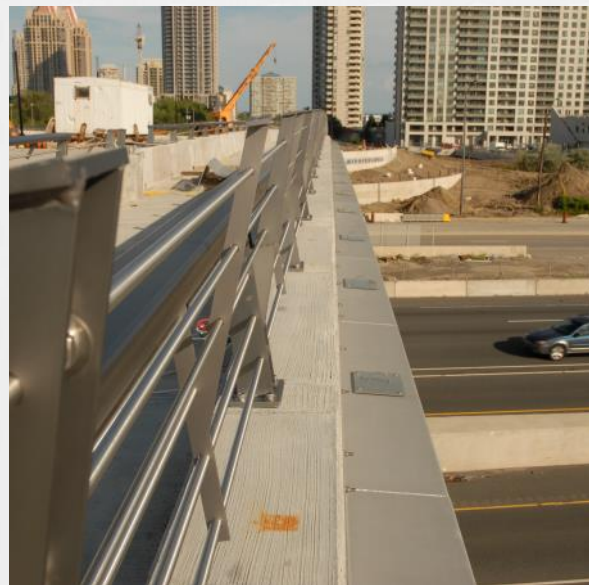


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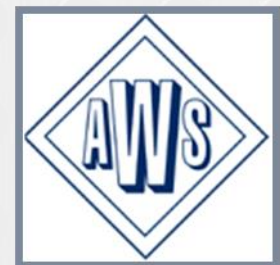
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AMG CERTIFICATIONS & AFFILIATIONS

AMG Metals has been affiliated with some of the top organizations regulating the steel fabrication industry. These recognized organizations are your assurance that AMG will continue its 30+ year commitment to provide you with the best possible products, built with quality materials, regulated by the industry's best, and designed by certified registered Professional Engineers.

Expanding into RAIL work, AMG are now members of the RSSI & Toronto Railway Club.



AMG ENGINEERING CAPABILITIES

Our engineering team is well versed in the many disciplines required in order to properly evaluate structure loading, and determine the most cost effective solution for fabrication & material availability.

- AASHTO - all editions since 1985
- CSA S6-14 - all modifications for use in Canada
- EIA 222F - Tower design in for US
- CSA S37-13 - Tower design for Canada

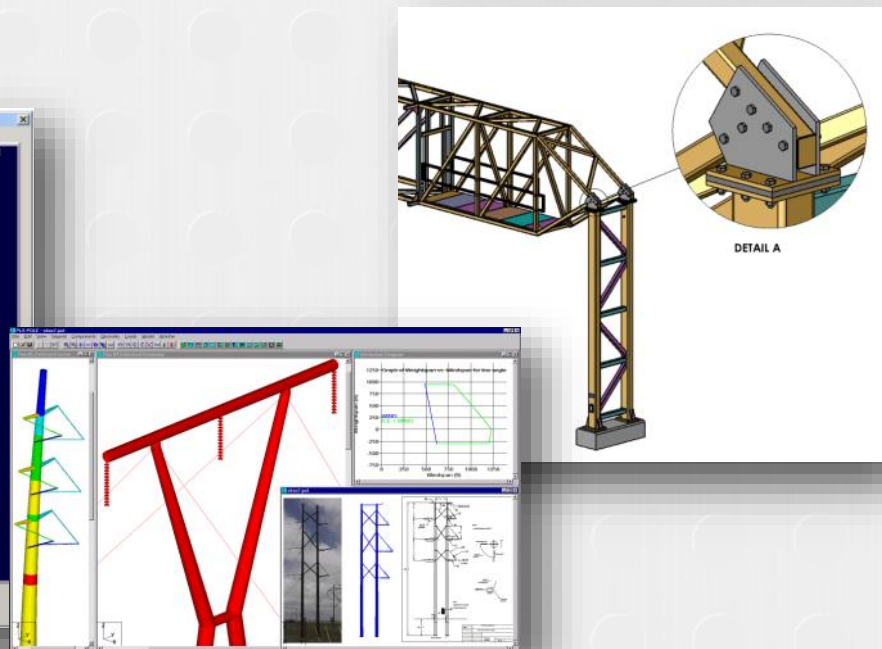
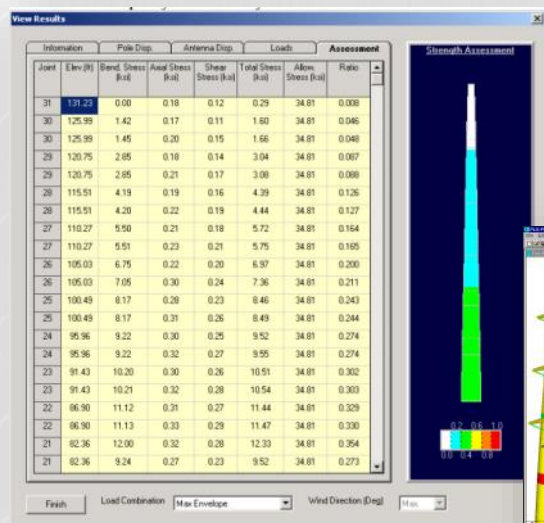
AMG utilizes various market available software packages, as well as in house produced software designed for maximum effectiveness.

- PLS Pole - Design of transmission & distribution structures
- TowerSoft - Design of Communication towers

In house Commercial, Sportslighting & Highmast design

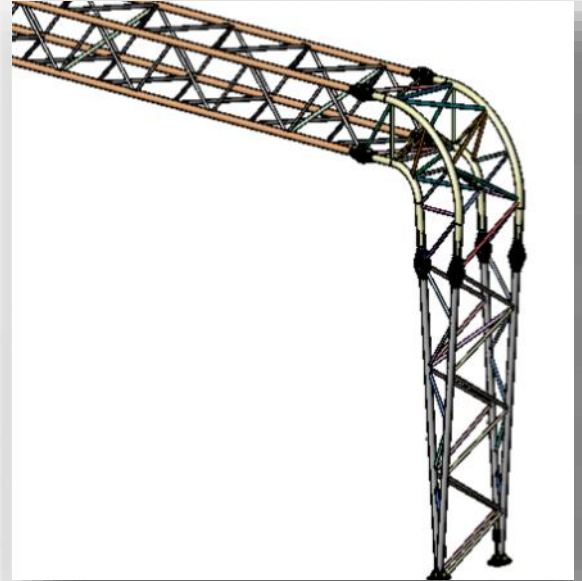
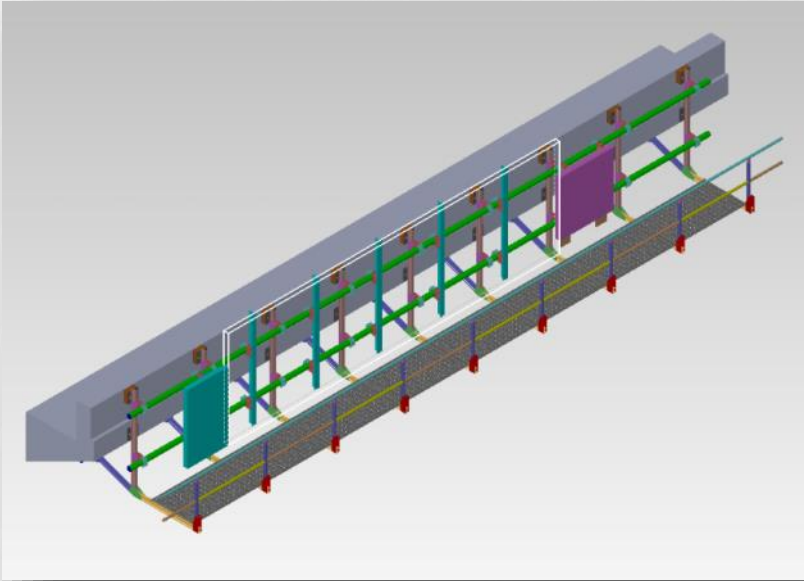
Additionally, all detailing is performed using solidworks to guarantee first time fitup, and accurate manufacturing.

AMG leads the industry in engineering, design, fabrication & service.

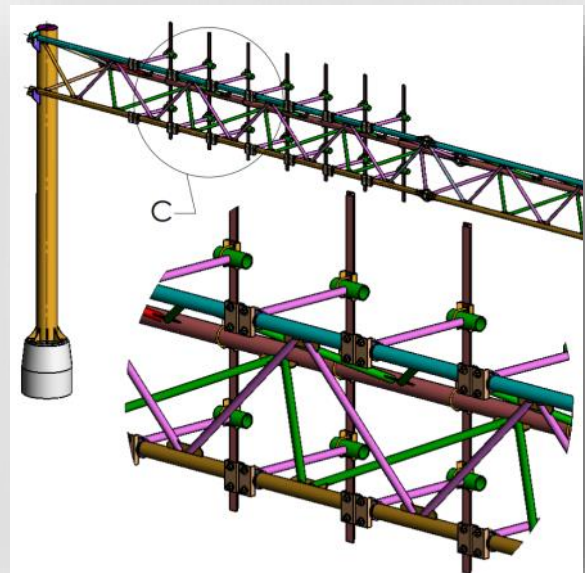
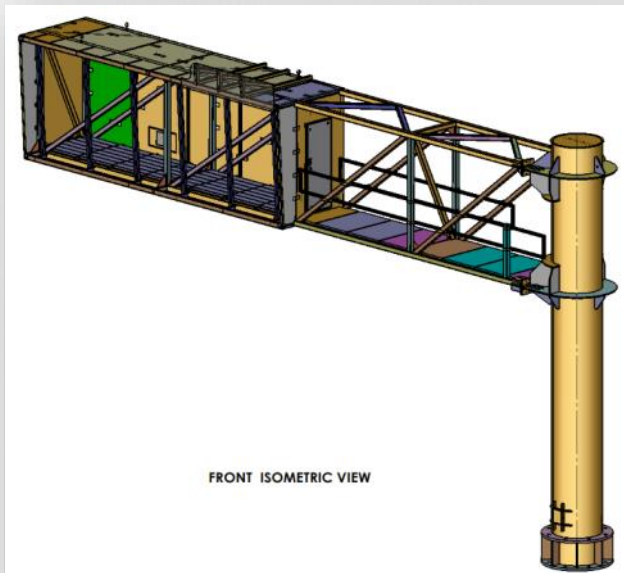


DESIGN

Seasoned Solidworks professionals work hand in hand with engineering and manufacturing to assure products will assemble easily, fit trucks or shipping containers within capacity. We can ship anywhere in the world.



Aluminum structures, bridge front structures, large sign cantilevers and modifying overhead tricords for add ons are a small cross section of the solutions we have assembled for our customers. AMG is looking for the unique solution to solve your problem.

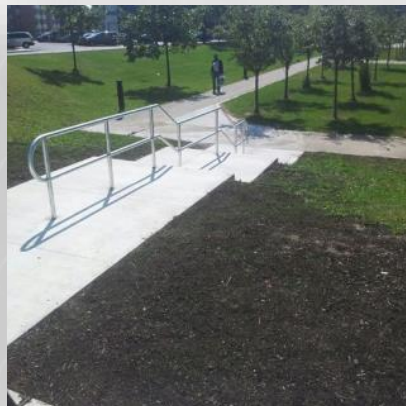
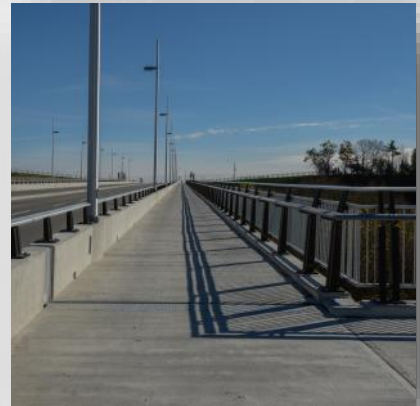


CUSTOM RAILINGS

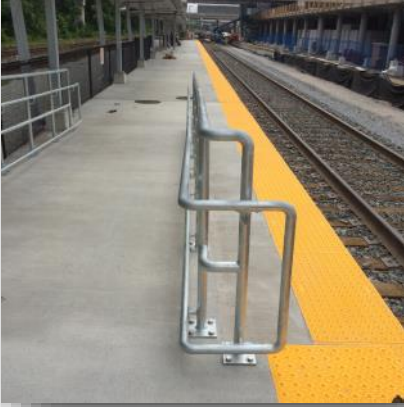


AMG fabricates railings and rail structures for all levels of institutions & governments. Over 30 years of experience has elevated AMG as the prime manufacturer in Canada.

Experienced in aluminum, steel and stainless fabrication, AMG looks for the challenging projects that continue to push development and manufacturing methods further



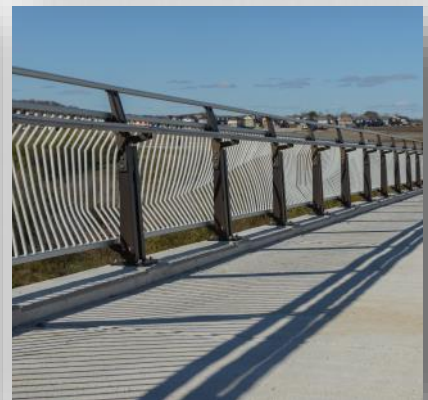
CUSTOM RAILINGS



AMG railings come in virtually any arrangement you are looking for. Since there is such a variation in style we don't have standard designs, but designed from the ground up. If you are unsure of what you want, we can present a few options for you at different price points.

We have the ability to supply plain aluminum, finished aluminum, anodized aluminum, galvanized steel, painted steel, or galvanized & painted steel for that long lasting finish, without corrosion, to preserve concrete work.

AMG can also supply the anchors to firmly hold your structures in place.



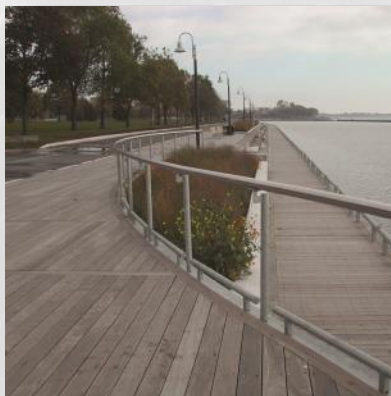
CUSTOM RAILINGS



AMG's manufacturing experience enables us to provide you with the best solutions for your problems, many times seeing an issue before it becomes one.

Breadth of product & quality are cornerstones in the longevity of the AMG brand, we have the capability to provide a layout to accommodate straight runs, elevations changes, and stairs.

We look forward to assisting you with your next project.



TRICORD CANTILEVERS

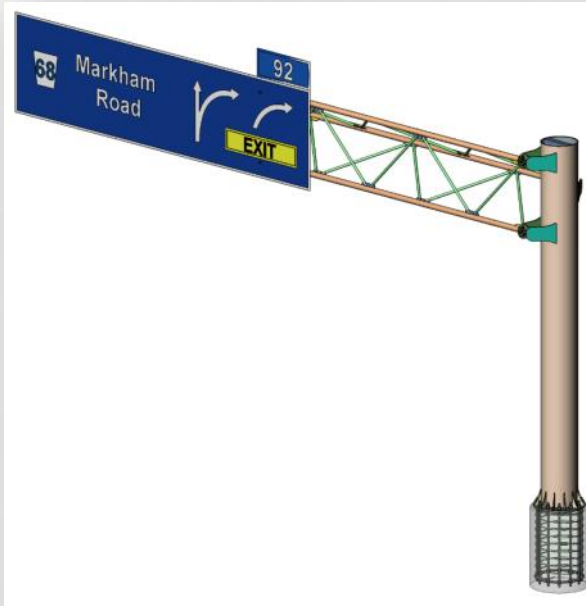


AMG have been leaders in cantilever technology , supplying a large portion of the market with custom designed proprietary designs to Transportation governments across Canada.

AMG has the capability to quote from plans, or custom design structures to meet your local specifications, loadings, spans & wind pressures.

Structures are fully galvanized, and if required , can be painted as well.

All structures are trial assembled in plant for fit, camber, deflections, and to ensure accurate spans. Welding meets the Standards of the Canadian Welding Bureau & American Welding Society. Material & weld test reports are always available upon request.



VMS STRUCTURES(ALUMINUM & STEEL)

Many Transportation governments have started to deliver safety messages, road delays and other warnings to drivers by using variable message signage.

AMG can provide virtually unlimited span, and can co-ordinate with the sign supplier to assure a solution that will fit your needs



Variable Message Structures (VMS) incorporate 3 elements to serve as an excellent solution for ease of installation, economy, and excellent span widths. With steel galvanized legs, and an aluminum support frame made in 3 pieces, the Sign Panel is skinned around a steel fabricated mid structured , then assembled with the 2 ends, and lifted onto the legs on site. With full ladder & platform access, it allows for maintenance as required, and cleaning. We can provide the sign boards as well, or customer supplied.



CUSTOM OVERHEAD STRUCTURES

QUEENSTON/LEWISTON BRIDGE, NEW YORK, USA



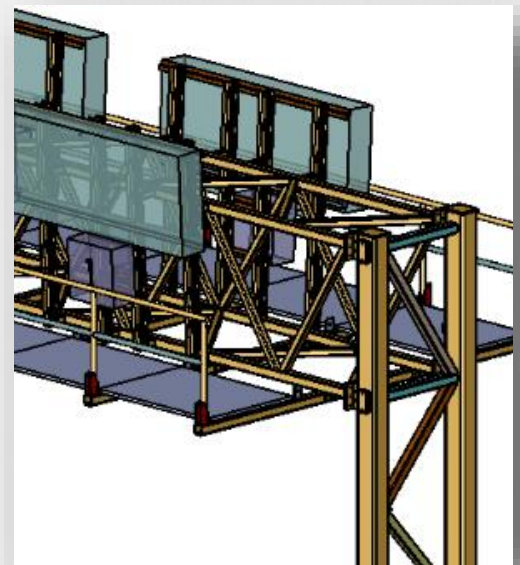
With increased traffic comes new thought processes on traffic direction, and now tolling.

AMG has supplied tolling gantries on the largest toll highway in Canada, and directional gantries for bridges and border crossings.

Video tolling gantries require precision manufacturing and engineering due to the inherent requirements limiting camera deflection with gusting winds. AMG is your source for engineering and supply.

These structures are completely modular, meaning they can easily be shipped, assembled on site, and erected by any experienced crew. We offer an on site liaison who can offer assistance with your project install, and provide customer service throughout the entire process from design, specifications to final install.

AMG sets the standard with field customer service.



TRICORD & MONOTUBE STRUCTURES

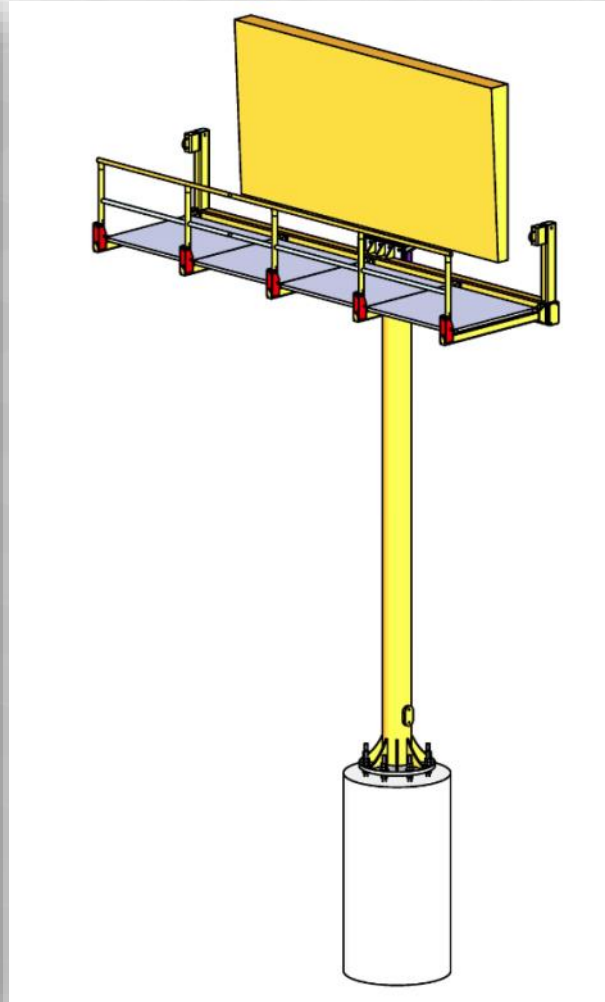
Tricord structures have been used in areas & roadways where large scale directional signage is needed for wide highway spans where a cantilever structure would not suffice. AMG metals fabricates a full welded assembly, and a flat face assembly with bolted diagonals. This can save costs in projects to reduce freight costs by stacking structures. Structures are galvanized, steel, and can be coated if specified.



When smaller directional signs are needed, an overhead Monotube structure may be utilised. Consisting of 4 shafts bolted together, this structure offers an economic benefit, while offering an easy directional solution. Fully galvanized steel, this structure can be painted as well. All sign brackets are welded on, or can be offered separate as clamp on items for adjustment of sign locations.



CMS POLE



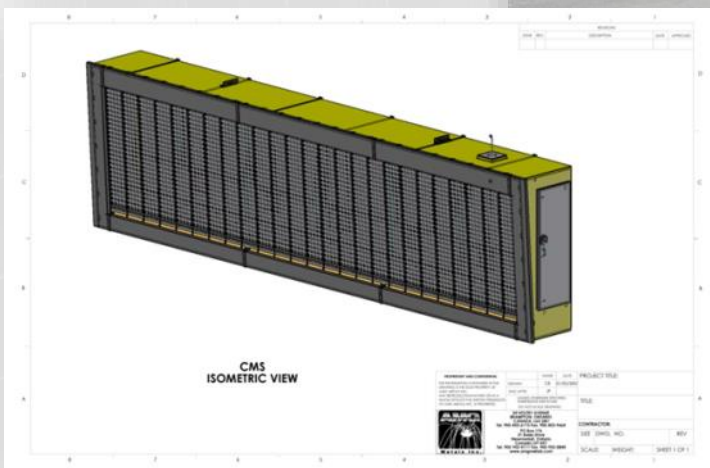
Standalone sign structures are becoming heavier to accommodate larger 'Changeable Message Signs' taking advantage of continually improving technology. AMG's structures come with standard mounting brackets, and optional front access platforms for ease of servicing or cleaning in high traffic areas. All platforms include tie offs for safety harnesses.

Fully assembled or loose anchors with templates designed to accommodate loadings can also be provided. Finishes including galvanized, epoxy painting, powdercoating, or paint over galvanizing are all available.

We are also unlimited by sign size, weight to pole height. Let us quote your standard product or have us design your proprietary structure for your custom sign size, no need to buy off the shelf.



DMS ENCLOSURES



AMG fabricates & supplies Aluminum Walk in Digital Message Sign(DMS) enclosures, as well as the support structures. These units were installed on The Tamp Bay SunGuide Freeway.

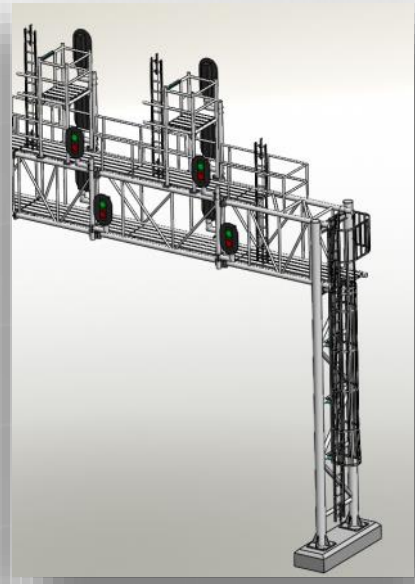


RAIL SIGNAL STRUCTURES

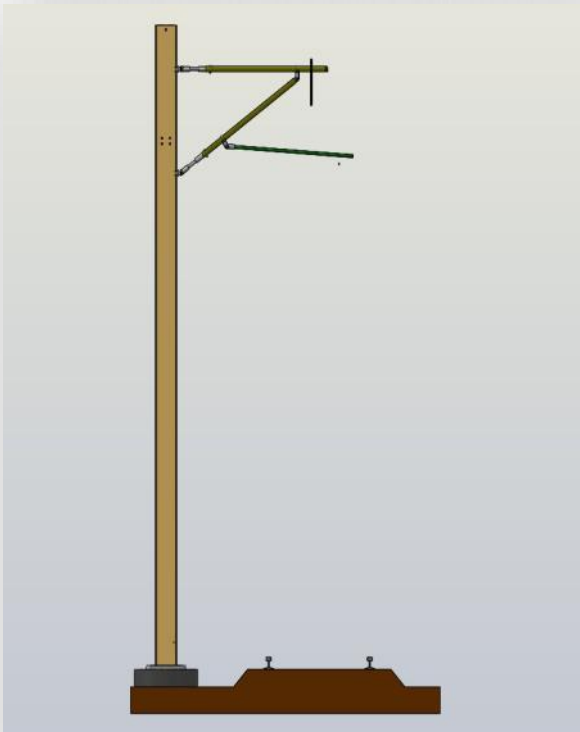


AMG can design & build rail structures for any signal quantity, and span, to your design specifications. All structures can be designed to break down to any lengths, with walkways, railings and ladders to upper sections. The structure will be fitted with wire exits, and can be pre-run with nylon cord to facilitate easier wire running.

Overheads can be designed in aluminum & steel, finished per specification, with or without ladders, vandal resistant covers, and preassembled anchor bolt clusters. Call us to discuss your needs and opportunities.



LRT TRANSIT STRUCTURES



Rail systems worldwide are going electric, and AMG is ahead of the curve having provided LRT structures to some of the largest Train manufacturers on earth, and when it comes to rail structures you want experience and quality.

AMG has provided many kinds of structures, full 'W' beam structures, heavy wall pipe, and formed tapered structures, we are unlimited in our capability to meet your requirements.

We can also provide arms, fittings, anchor bolts, overhead units. And virtually any other fabricated component you need. Typically these structures are galvanized, however painting is an option.

Additionally, we can provide a decorative feature, base cover or finial to further enhance aesthetics when running into an area where necessary.

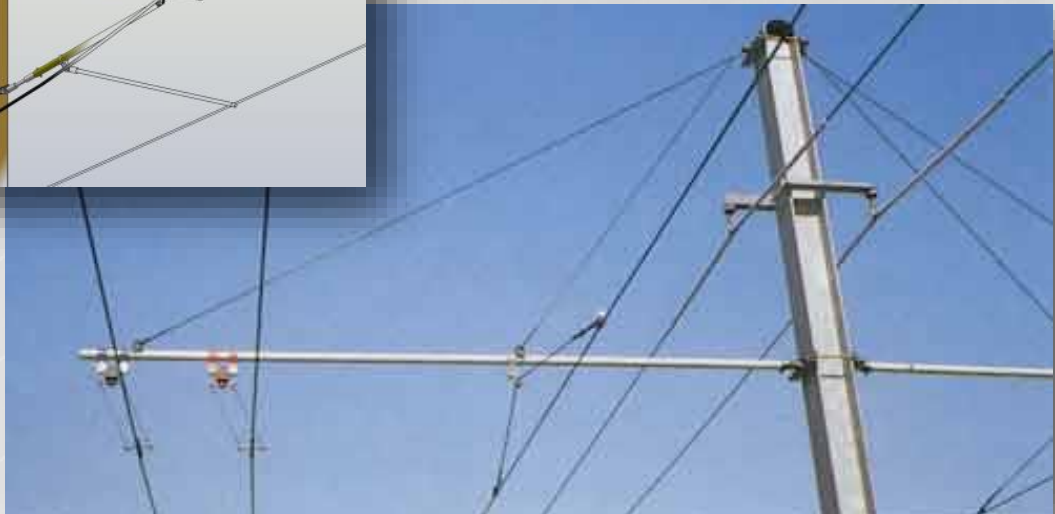
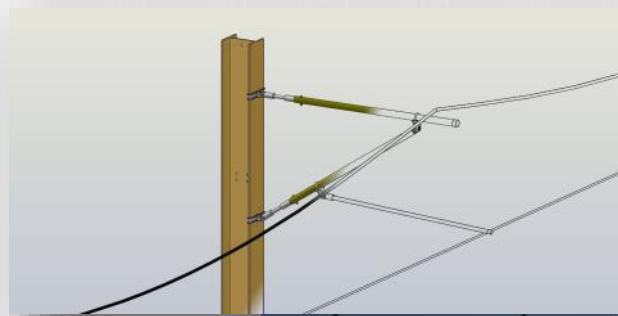


LRT TRANSIT POLES



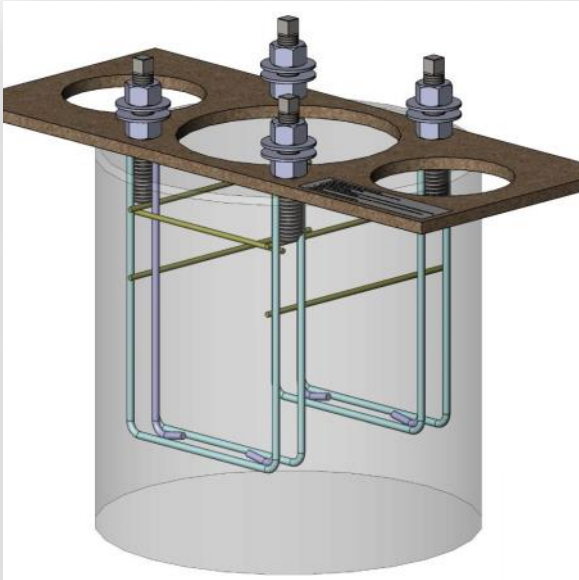
AMG metals can also assist design engineers and specifiers well in advance of projects and tenders to offer designs that meet structural requirements and any architectural features that may uniquely identify the project. Custom base covers with transit or city logos, custom medallions, custom finials, bracketry, custom colours, etc. are not outside our scope of work.

Brackets, line tensioners, arms, clamps etc can also be fabricated to meet your needs, as well as providing the anchors for the project.



ANCHOR CLUSTERS & PRE SET ANCHORS

AMG can provide standard J bolts, pre set anchor bolt assemblies or full cages with spiral wraps. Options include plywood or steel templates, full or partially galvanized rods, and bolt yield. Virtually any BCD, bolt quantity, length and grade are possible.



AMG can provide B7, HTSR 4140, Threaded rebar(75ksi), 55w, welded, bolted, spiral wrapped, etc. Contact us for pricing, with or without the structures.



*Regions & Cities	Specification DWG No.
Brampton	454
Durham	S-506
Guelph	SD-205
London	STS-5.03
MTO	OPSD 2215.02, OPSD 2215.025
Niagara	NRS 2001
Peel	4-7-1
Toronto	807.015, 807.017
Uniform Traffic Signal Standard	UTS 616.020, UTS 616.021
Waterloo	502
York	E-2.17



COMMUNICATION TOWERS

AMG communication towers can be designed to meet the specifications used in the USA & Canada, fully versed in EIA 22f latest issue & CSA S37 latest issue.



We fabricate our communication towers in 2 methods, either brake formed sections, or large diameter pipe. We offer the following add ons:

Ladder or pole steps

Safety cables & harnesses

Mounting brackets, pipes, platforms, etc.

Full preassembled anchor bolt assemblies

Galvanized and or painted finishes



SUBSTATION STRUCTURES



AMG can produce station steel consisting of HSS tube structures and tapered column structures in both galvanized finish, or self weathering steel. If you require drawings & engineering, we can assemble work given loading conditions, or we can fabricate from your plans.

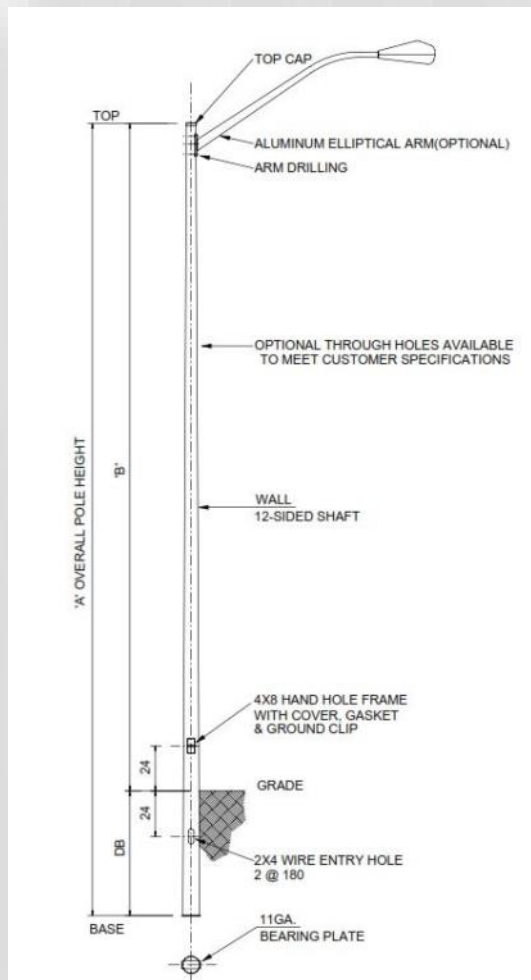
Fully CSA & AWS certified, we are well positioned in the market to assist you in your projects, work with you to meet assembly schedules and deadlines so you can install from one end to another without delay.

AMGs expertise in large scale structures, and Solidworks assisted trial assemblies mean your project goes together on the site without an issue. All assembly hardware, anchors, shims, custom equipment mounts can all be managed so there is no further adjustment on site.



DISTRIBUTION POLES

			mx																								
			pole overall height																								
class	ANSI 05.1	Eq load	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
H6	11400	7125.0	163.9	195.9	228.0	260.1	292.1	324.2	356.3	388.3	420.4	452.4	484.5	516.6	548.6	580.7	612.8	644.8	676.9	708.9	741.0	773.1	805.1	837.2	869.3	901.3	933.4
H5	10000	6250.0	143.8	171.9	200.0	228.1	256.3	284.4	312.5	340.6	368.8	396.9	425.0	453.1	481.3	509.4	537.5	565.6	593.8	621.9	650.0	678.1	706.3	734.4	762.5	790.6	818.8
H4	8700	5437.5	125.1	149.5	174.0	198.5	222.9	247.4	271.9	296.3	320.8	345.3	369.8	394.2	418.7	443.2	467.6	492.1	516.6	541.0	565.5	590.0	614.4	638.9	663.4	687.8	712.3
H3	7500	4687.5	107.8	128.9	150.0	171.1	192.2	213.3	234.4	255.5	276.6	297.7	318.8	339.8	360.9	382.0	403.1	424.2	445.3	466.4	487.5	508.6	529.7	550.8	571.9	593.0	614.1
H2	6400	4000.0	92.0	110.0	128.0	146.0	164.0	182.0	200.0	218.0	236.0	254.0	272.0	290.0	308.0	326.0	344.0	362.0	380.0	398.0	416.0	434.0	452.0	470.0	488.0	506.0	524.0
H1	5400	3375.0	77.6	92.8	108.0	123.2	138.4	153.6	168.8	183.9	199.1	214.3	229.5	244.7	259.9	275.1	290.3	305.4	320.6	335.8	351.0	366.2	381.4	396.6	411.8	426.9	442.1
1	4500	2812.5	64.7	77.3	90.0	102.7	115.3	128.0	140.6	153.3	165.9	178.6	191.3	203.9	216.6	229.2	241.9	254.5	267.2	279.8	292.5	305.2	317.8	330.5	343.1	355.8	368.4
2	3700	2312.5	53.2	63.6	74.0	84.4	94.8	105.2	115.6	126.0	136.4	146.8	157.3	167.7	178.1	188.5	198.9	209.3	219.7	230.1	240.5	250.9	261.3	271.7	282.1	292.5	302.9
3	3000	1875.0	43.1	51.6	60.0	68.4	76.9	85.3	93.8	102.2	110.6	119.1	127.5	135.9	144.4	152.8	161.3	169.7	178.1	186.6	195.0	203.4	211.9	220.3	228.8	237.2	245.6
4	2400	1500.0	34.5	41.3	48.0	54.8	61.5	68.3	75.0	81.8	88.5	95.3	102.0	108.8	115.5	122.3	129.0	135.8	142.5	149.3	156.0	162.8	169.5	176.3	183.0	189.8	196.5
5	1900	1187.5	27.3	32.7	38.0	43.3	48.7	54.0	59.4	64.7	70.1	75.4	80.8	86.1	91.4	96.8	102.1	107.5	112.8	118.2	123.5	128.8	134.2	139.5	144.9	150.2	155.6
6	1500	937.5	21.6	25.8	30.0	34.2	38.4	42.7	46.9	51.1	55.3	59.5	63.8	68.0	72.2	76.4	80.6	84.8	89.1	93.3	97.5	101.7	105.9	110.2	114.4	118.6	122.8
7	1200	750.0	17.3	20.6	24.0	27.4	30.8	34.1	37.5	40.9	44.3	47.6	51.0	54.4	57.8	61.1	64.5	67.9	71.3	74.6	78.0	81.4	84.8	88.1	91.5	94.9	98.3
9	740	462.5	10.6	12.7	14.8	16.9	19.0	21.0	23.1	25.2	27.3	29.4	31.5	33.5	35.6	37.7	39.8	41.9	43.9	46.0	48.1	50.2	52.3	54.3	56.4	58.5	60.6
10	370	231.3	5.3	6.4	7.4	8.4	9.5	10.5	11.6	12.6	13.6	14.7	15.7	16.8	17.8	18.8	19.9	20.9	22.0	23.0	24.1	25.1	26.1	27.2	28.2	29.3	30.3



AMGs utility pole line covers a lot of ground, offering one of the largest available selections in the industry meeting ANSI 05.1-2002.

We can also coordinate pre drilled holes, access holes, ground pads, underground coating, soil bearing plates and fixture or arm mounting holes.

Utilities often have their own custom drilling requirements, we have the adaptability to provide any custom arrangement needed.



TRANSMISSION POLES

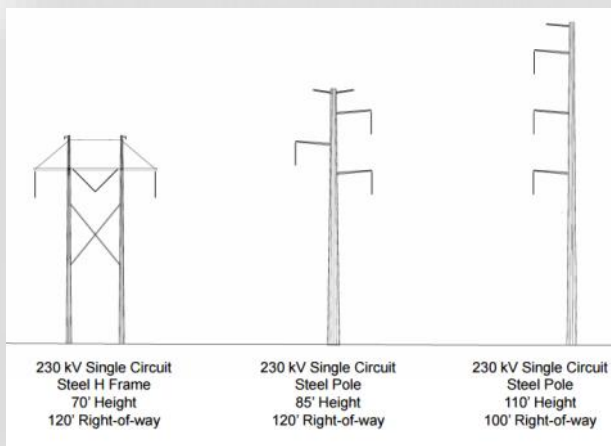


Transmission poles take on virtually any combination, due to the nature of custom line design through the given terrain. AMG possesses the expertise to custom design your structure, and refine the design to meet engineering requirements and safety factors, while keeping the sections as compact as possible for economics.

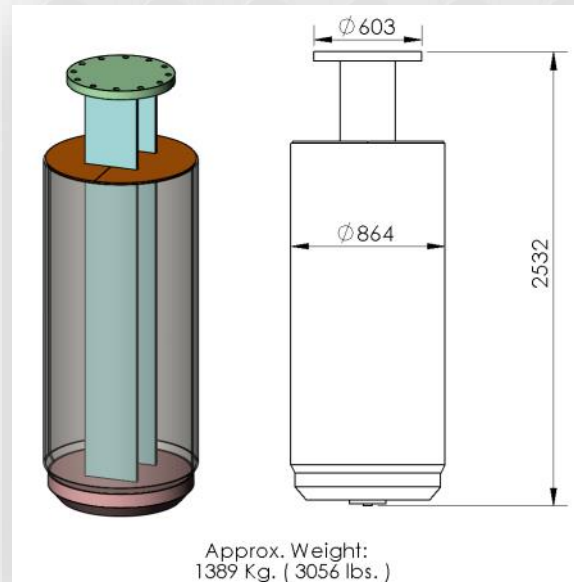
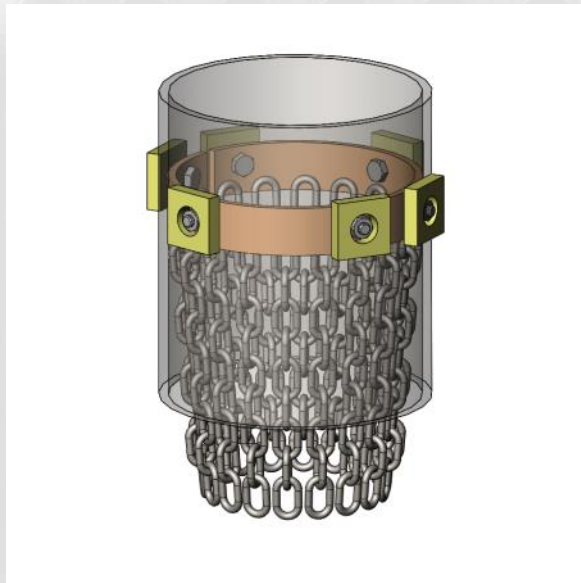
Slip fit and bolted connection sections can be provided, as well as arms, insulator attachment points, overhead wiring, and section grounding.

In addition to single standing structures, we can provide H frames, cross bracing and full crossarms. All structures may be provided in direct buried or base mounted depending on soils.

Our in-house engineering team can meet design requirements for any province, state or region, and gives us an opportunity to tailor designs to our fabrication strengths.



CUSTOM FABRICATORS



AMGs capabilities include custom fabrication of various drilling, digging and mining equipment. Contact us with your requirements and we can provide pricing for you.



CUSTOM FABRICATORS



Duct hangers & brackets



AMGs roots are custom fabrication, growing from a small railing & fabrication shop expanding to the production facility today. With galvanizing and local painting, AMG welcomes its customers, inspectors and future customers to visit our facility for review, pre approval, ongoing & outgoing inspection. Just north of Toronto & Pearson International airport, we are a quick trip away.



Custom forms



BRIDGE STRUCTURES

AMG has supplied steel fabricated bridges with railings for all applications, highway pedestrian crossings, small footpath, golf club and vehicular modular type. With capability to design and engineer a multitude of spans & widths, with overhead decorative features, railings and all finishes, AMG leads the industry in bridge supply.



Bridges need to be designed & engineered to meet rigorous design requirements, such as fatigue, vibration, deflection under loading, safety factors, ease of transport & installation, to satisfy customers needs and public safety. AMG's experience in this field, with industry leading quality & fabrication standards make AMG your best choice for bridge supply.



CUSTOM FABRICATORS

Multi sided pole shafts are prepared for sub arc seam welding, these will become sports lighting poles, with crossarms & platform cages. Also Shown is an installed pedestrian footbridge, designed, manufactured and installed by AMG Metals.



Top sections of Communication towers are ready to ship after inspection, with prewelded pinwheel attachments. Also, VMS/DMS welded aluminum frame shown before electronic installation & skinning. AMG is a fully certified aluminum welding facility.



CUSTOM PROJECTS



COMPLETE SUBSTATION STEEL

OVERHEAD ALUMINUM & STEEL STRUCTURES

PEDESTRIAN WALKWAYS, HIGHWAYS, PATHS, RIVERS.



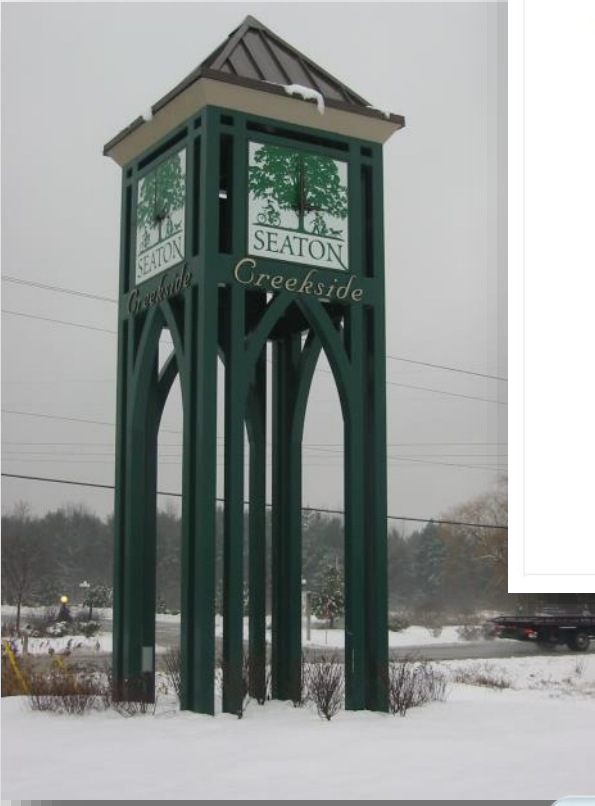
CUSTOM PROJECTS



CUSTOM PROJECTS



AMG can provide complete custom fabricated projects to meet your need. We pride ourselves in engineering, quality service & delivery.



AMG METALS

CONTACT US:

AMG Metals Inc.

Website: www.amgmetals.com

Email: info@amgmetals.com

Newmarket Division

AMG Metals Inc.
21 Bales Drive West
Sharon, ON
L0G 1V0
Canada
Phone: 905-953-4111
Fax: 905-953-0844

- Overhead Structures
- Rail & Lrt Structures
- Rail Signal structures & Aluminum Bridges
- Anchor Systems, pre set, loose, templates
- Custom fabrication, from plans or sample
- Utility & Station Steel
- High mast poles & Lowering device
- Pedestrian & Vehicle bridges
- Transmission & Distribution Poles
- Communication Tower Poles
- Traffic & sectional steel poles
- Commercial & industrial poles for the lighting industry
- Concept to Custom Poles
- Full design & build capabilities
- Noise wall barrier posts

Brampton Division

AMG Metals Inc.
34 Holtby Drive
Brampton, ON
L6X 2M1
Canada
Phone: 905-453-6113
Fax: 905-453-6111

- Deck Drains
- Steel hangars & Rollers
- Dowell inserts
- Guide rail & Channel Anchorages
- Railing Anchors
- Breakaway Sign Structures
- Non-Breakaway Sign Structures
- Wood Breakaway structure steel components
- Trainmen's Walk style Railing & Grating
- Mini Platform railings TTC/GO Stations
- Bridge Anti-Jump Barrier, side or top mounted
- Steel Splash panels
- Aluminum Splash panels with Stainless steel mesh
- Alcan Style Railing Systems
- Bridge railing in Aluminum, Stainless & Steel (Barrier Wall, Parapet Wall & Pedestrian)
- Custom Designed Railing (Barrier Wall, Parapet Wall & Pedestrian)
- Railings to match custom footings
- Highway, Park & Custom gates
- Trash collectors
- Steel Pedestals
- Steel Stairs
- Grating Frames





METALS INC.



AMG METALS INC
21 BALES DRIVE W
SHARON, ONTARIO
L0G-1V0
905-953-4111

WWW.AMGMETALS.COM
SALES@AMGMETALS.COM

2017

AMG METALS INC
34 HOLTBY DRIVE
BRAMPTON, ONTARIO
L6X-2M1
905-453-6113