A&S Education Facilities supported by NCI:

Building Inspiration
Leading the Way in Steel Construction
Why Choose A&S Building Systems?

A&S is a division of NCI Building Systems. For more than 50 years, A&S has continued to offer quality single source products that not only fit well together, but are preferred by most erectors. Combine this with unparalleled customer service, integrity, and reliability, and you have a trusted advisor on your next project.
Why Choose NCI?

**NCI Building Systems (NYSE: NCS)** is the largest integrated manufacturer and marketer of metal construction solutions in North America. Our metal building components, custom-engineered building systems and coil coating companies give customers access to one of the broadest spectrums of exceptional metal construction offerings available today.
Superior Manufacturing Capabilities

With **over 30 plants** across the U.S. and in Mexico, we are able to promptly respond to your requests throughout North America – as well as ship to locations around the world. You’ll find that NCI is *always* where you need us to be.

Manufacturing Plants
- NCI Metal Components - 18
- NCI Metal Coil Coating - 5
- NCI Engineered Building Systems - 9

31 Total Manufacturing Facilities
Financial Stability & A Proven History of Success

Since 1984, NCI has emerged as one of the forefront industry leaders. Through steadfast attention to current construction market demands, unrivaled customer service and continued product innovations, we have solidified our position as one of the most powerful corporations of our type – ultimately supplying the benefit of strong, stable and long-lasting business partnerships directly to valued clients like you.
Your Education Building Experts
NCI successfully completes over 200 school projects a year. From sophisticated school campuses to simple equipment storage facilities, our expertise for producing school structures is both exceptional and all-encompassing. Industry leading service, resources, and above all else, our people, truly set us apart from all others.

Over 200 school projects a year
Our people do much more than just estimate your building project. We provide **front end design and engineering expertise** that complement the architectural processes while making the most of your project budget. Whether you are a contractor bidding on a facility, or a school director optimizing your construction budget, A&S is the trusted advisor you need to ensure project planning meets your highest priority expectations.
Design & Detailing – Exceptional Technical Proficiencies

A&S’s school facility clients benefit from dedicated design and detailing resources that provide an unsurpassed standard of service. Our experienced professionals use a sophisticated suite of tools — from AutoCAD to multi-dimensional BIM — to deliver a product design that meets the highest degree of accuracy, aesthetics and functional performance.
Winning Project Management – From Budgets to Erection

When you choose an A&S building, you are getting unparalleled service from the day you place your order. Our workflow processes focus on achieving excellence through each stage of project development.

1: Planning/Bid Stage: Estimating & Value Engineering = Budget Optimization
2: Development Stage: Design, Detailing, Drafting = Design Optimization
3: Manufacturing Stage: Fabrication, Delivery, Construction Support = Product Optimization
4: Building Performance Stage: Satisfaction Analysis, Warranty Programs = Performance Optimization
Regional Expertise & Resources for Optimal Results

One of the most essential components of your school project is ensuring that it adheres to local code compliance. That includes attention to such details as weather-related load and code mandates, safety laws, and even meeting the latest governmental guidance on achieving energy efficiency.

Fortunately, A&S maintains personnel with local construction experience in virtually all areas of the United States, along with a vast network of local builders, to ensure area expertise is just a phone call away.
Intuitive Construction – Understanding Your Unique Requirements
How A&S Can Help – School Facility Contractors

You need a hands-on partner with the design and field expertise to give you a competitive edge. Let A&S improve your success ratio with –

- Bidding and planning support to help you win the project
- Value-engineering that keeps you on budget
- Green building guidance to promote energy efficient construction
- Erection-friendly product solutions to expedite construction
- Highly competitive warranty programs to help assure product quality

Hands-On Partner
Architects desire a flexible array of design options to make their masterpiece come alive. At A&S, our products and services are specially suited to celebrate your point of view, including –

• Special support to create aesthetically pleasing designs that are highly functional
• Numerous panel profiles, including specialty and curved applications, to support unique configurations and innovative design
• A broad array of paint colors and applied surface offerings to beautify your building exterior
• Award-winning, modern school facility development recognized for superior attractiveness, innovation and energy performance
How A&S Can Help – School Facility Directors, Planners & Maintenance Specialists

Planning a construction project can be especially challenging when keeping the long-term interests of the students in mind. A&S is the ideal supplier to produce a quality school campus that lasts. Call on us when you need –

- Insulated panels and cool roof color options to optimize your energy management program
- Durable steel product line from quality accredited manufacturing facilities to ensure the integrity and safety of your structure
- Minimal onsite product fabrication resulting in faster project completion and building occupancy
- Resources available to ensure local code compliance, and certified installer programs to guarantee weathertightness of facilities.
Innovative Products –
Bring Your Vision To Life
Insulated Panel Systems

- Insulated metal wall and roof panels employ special foam insulation to provide superior R-values for greater thermal efficiency.
- A comprehensive spectrum of panel profiles are available to meet a broad range of design build applications.
- Attractive exterior wall coating options, including Rockwall, Textured Finish and IPS NaturalStone™ add color and character to your building projects.
- IPS products undergo extensive testing, and are manufactured ready to install in the field.
- Panels made with non-chlorofluorocarbon polyisocyanurate, a rigid type of foam which offers optimal structural integrity and exceptional thermal properties.
- Effective and unique factory-foamed process at state of the art manufacturing facility enhances endurance of each panel.
Building Green

• A&S’s roof and wall panels, structural members and other steel products are virtually 100% recyclable and have 30% to 50% or more post-consumer recycled content, depending on the product.
• In addition to recyclability, metal roof and wall panels can reduce waste due to their unmatched durability and resistance to hail, fire, wind and insects.
• The American Iron and Steel Institute reports that metal roofs last between 40 to 60 years and require significantly less maintenance than other materials.
• A&S product offerings include cool roof colors. A cool roof can help reduce the negative effects of elevated air temperatures in urban areas and reduce the amount of energy consumption of the building, lowering electrical costs in many climates.
Hybrid & Structural Facility Solutions

• Structural and hybrid buildings are ideal for projects that incorporate special requirements, such as mezzanines, multiple floors, heavy environmental loading and large area spans.

• Our hybrid solutions blend custom-engineered metal building solutions with virtually any form of conventional construction materials for a highly functional result.

• Structural Class A Steel projects are manufactured in our 157,000-square-foot IAS-certified plant -- one of the most sophisticated and technologically advanced fabrication shops in the United States.
Retro-fit/NuRoof®

- Retrofitting is an excellent, cost-efficient alternative to new roof construction
- Eliminates common problems associated with flat roofs
- NuRoof® is a light-gauge framing system fully designed to create a sloped roof plane
- Most proven product and system in the industry
- Certified installers for both the roofing system AND the structural system
- Industry’s best and strongest weathertightness warranties
- Knowledgeable technicians for job inspection
- For new construction projects, the NuRoof® system is an economical and competitive alternative to prefabricated truss construction.
Furnish & Erect

- A&S provides a single-source custom engineered steel erected package
- Project management team has extensive experience in preparing an all-encompassing, detailed steel scope of work that is well coordinated with our erectors
- Provide the general contractor a comprehensive scope for review prior to bid date to ensure that scope expectations are satisfied
- Work closely with building design engineers and erectors to determine most cost-effective method to manufacture and install each building – all while meeting or exceeding the parameters set by the projects design team.
- These material and labor value engineering exercises allow us to provide the most cost effective and complete supply and install building package available
Training and Warranty Programs

- The extensiveness of warranty needs may vary significantly depending on the size and scope of the project.
- A&S offers two primary warranty programs, each offering a distinctive range of options and benefits.
- Our Standard Warranties provide a solid protection plan for **Weathertightness** jointly issued by the building manufacturer and the roofing contractor.
- Our Single-Source™ Warranty Programs help to ensure the integrity of your structure unlike any other in the industry.
- Single-Source programs require:
  - Roof design is reviewed to ensure that the geometry meets the warranty requirements before installation begins.
  - The roof is properly installed before the warranty is issued.
  - The building owner is satisfied with the constructed roof system.
Case Studies – A Higher Class of Performance
Profile

Owner: U.S. Army Corps of Engineers
Project Location: Ft. Sam Houston, TX USA
Architect/Designer: Borrelli & Partners Architects
Construction Manager: J2 Engineering
Structural Engineer: TLC Engineering
Program Manager: Current Builders
Building Manufacturer: A&S Building Systems
Gross Square Footage: 20,776
Capacity: 300
Valuation: $6 Million
End Use: Child Development Center
Completion Date: 2010
Value-Added Benefits: Interior Clear Space, Framing Versatility at exterior roof lines.
### Allendale Christian School

#### Profile

| **Owner:** | Allendale Christian School |
| **Project Location:** | Allendale, MI 49401 USA |
| **Architect/Designer:** | GMB Architecture & Engineering |
| **Construction Manager:** | A.J. Veneklasen, Inc.- GC |
| **Structural Engineer:** | GMB Architecture & Engineering |
| **Program Manager:** | Fryling Construction |
| **Building Manufacturer:** | A&S Building Systems |
| **Gross Square Footage:** | 35,000 sq. ft. |
| **Capacity:** | 450+ |
| **Valuation:** | $2,000,000 |
| **End Use:** | Private Elementary & Middle School |
| **Completion Date:** | 2007 |
Thank You!