

Town of North Branford

North Branford Intermediate School



Invitation to Bid

Installation of Network Wiring and IT Infrastructure

RFP #: 6-2008/2009

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Part I
Instructions and General Notes to Bidders

Town of North Branford

North Branford Intermediate School

Installation of the IT Cable Plant and Infrastructure Components

Instructions and General Notes to Bidders

1. There will be a **Mandatory** Bidders Conference and Walk-Thru on May, 13, 2009 at the North Branford High School Auditorium. Bidders' conference will be from 3 PM to 5 PM and include a site walk-thru. Late arrivals (10 min.) will not be accommodated with repeated information and may be subject to bid rejection.

Failure to attend will disqualify any bid responses.

**** HARD HATS AND SAFETY GLASSES ARE REQUIRED FOR THE WALK-THRU AND WILL NOT BE PROVIDED.**

2. Initial questions and clarifications will be taken at the Bidders Conference. Questions after the Bidders conference will be addressed to the appropriate contact.

All questions must be in writing.

Town of North Branford – Mr. Don Winnicki – dwinnicki@northbranfordschools.com

Purchasing and Contracts

Ms. Michelle Knockwood – purchasingassistant@townofnorthbranfordct.com

Technical Questions – Mr. Ralph Bunce – rbunce@iesllc.biz

3. Site conditions and work provided by others will be addressed in detail at the bid conference. Please note a significant amount of pathways and spaces are provided by others and will require close coordination with the Construction Manager, Turner Construction Company.
4. This is a State of Connecticut Prevailing Wage Project. Connecticut State **Project Number 099-0049RNV/E**. Successful bidder will be required to meet all prevailing wage obligations including any increases. For the latest prevailing wage schedule, please refer to the CT Department of Labor Website. www.ct.gov/dol

5. All Town of North Branford contractual requirements must be met. Note bond requirements.
6. Review the add/alternate section.
7. This will be a phased installation based on the construction schedule. It is anticipated that final turnover will be no later than **August 1, 2009**. Anticipated start is **June 5, 2009**.
8. Final payment will be contingent on submittal of all required test results and “as-built” drawings.
9. Bidders are required to obtain all existing contract documents and scaled drawings for work supplied by others to prevent coordination conflicts. These can be obtained from:
Universal Copy
Waterbury, CT
Contact: Brian Burke
Phone: 203-757-2100
State Project Number 99-0049RNV/E
Architect – Herbert S Newman and Partners P.C.
(203) 772-1990
10. A qualified work safety plan must be submitted to Turner Construction Company prior to work commencing.
11. A twenty year (20) manufacturers’ warranty is required and a manufacturers certificate supplied that all warranty conditions have been met by the certified installer. Bidders may submit an alternate warranty solution. This may be reviewed and accepted at the discretion of the Town and NBIS IT.
12. Bid documents will require product submittals for approval. These shall include part numbers and quantities.
13. References shall include **two** school projects of similar scope and **two** other projects that detail proficiencies in the installation of Information Transport systems.
14. All permits and fees must be included in the bid. Town fees are waived. State and other applicable fees are not. The town is exempt from Connecticut State Sales Tax.
15. Bidders must assign a project manager to this project and submit their resume for approval. Project Manager will be required to attend weekly construction meetings and/or IT progress meetings.
16. These bid documents RFP #6 2008-2009 can be obtained from the Town of North Branford web site - www.townofnorthbranfordct.com

Part II
Cable Plant and Infrastructure Guidelines and Project Notes

Town of North Branford

COMMUNICATIONS / DATA INFRASTRUCTURE GUIDELINES and PROJECT NOTES

Cable Plant and Infrastructure Components

PURPOSE and OVERVIEW

The Town of North Branford intends to install a state of the art structured wiring system at the North Branford Intermediate School (NBIS). This system is intended to consider and implement the most current technologies and infrastructure components that exist today. It will also provide North Branford Intermediate School with a communications infrastructure and cable plant that will meet today's current standards while maintaining the ability to "future-proof" the premise wiring and communications infrastructure.

As the new standards evolve and become part of the current ANSI/EIA/TIA Commercial Building Telecommunications Cabling Standards, the National Electric Code (NEC) and the National Fire Protection Association (NFPA), NBIS will be smartly positioned to meet or exceed these new standards.

This document is intended to act as a guideline for installation of new premise wiring and its related infrastructure components at the NBIS facility. Specific project requirements will be addressed by section and project notes indicating the scope of work and design requirements.

However, any deviations from this general specification, scope documents or drawings supplied by others should be addressed in writing to the designated Town of North Branford personnel or their designated representative for approval.

The following sections describe the design and construction parameters required by The Town of North Branford for the installation of communications/data wiring and the associated IT infrastructure at NBIS and other associated facilities.

Section 1 - Preliminary Site Drawings & Project Evaluation

It is important to identify the correct number of outlets required as early in the project as possible. Consideration should be given to install outlets considering the type of facility and space requirements. This will limit unnecessary changes, budget adjustments and move issues. Special use rooms such as conference rooms, computer labs, library center, unique classrooms, common use areas and the server room and any other project specific areas will be addressed in the project specifications and drawings.

Included IES Schematic Drawings:

- **T 0.1 – Guidelines**
- **T 1.0 – First Floor**
- **T 2.0 – Second Floor**
- **T 3.0 – Third Floor**
- **T 4.0 – Racks, Outlets & MCER Schematic**
- **T 5.0 – Schematic Riser**

Scaled Project Drawings can be obtained from:

**Universal Copy
Waterbury, CT
Contact: Brian Burke
Phone: 203-757-2100
State Project Number: 99-0049RNV/E
Architect – Herbert S Newman and Partners P.C. 203 772-1990**

Product Submittals

Submit to the designated engineer/designer shop drawings, product data (including cut sheets and catalog information), and samples required by the contract documents. Submit shop drawings, product data, and samples with such promptness and in such sequence as to cause no delay in the work or in the activities of separate contractors. The engineer/designer/contractor will submit shop drawings, product data, and samples to TONB for review and approval.

The engineer/designer/contractor will indicate approval of shop drawings, product data, and samples submitted to the engineer by stamping such submittals "APPROVED" with a stamp. Submitted shop drawings shall be initialed or signed by the contractor, showing the date and the contractor's legitimate firm name.

It is the responsibility of the installer to bring to the attention of Town of North Branford (TONB) any deviations, errors or omissions that could affect performance or non-compliance to codes, standards, manufacturers' warranties or industry accepted practices.

Section 2 - General Design Requirements

Entrance Facility (EF), Telecommunications Rooms (TR/ICER/MCER), Main Distribution Frames (MDF-Voice only) and Intermediate Distribution Frames (IDF's-voice only) shall meet the design requirements of the references listed in the ANSI/TIA/EIA-569A, except as noted by the building project, or as approved by TONB. Exceptions must be submitted to TONB in writing for approval following the product submittal process outlined above.

Telecommunications Rooms (TRs, ICERs/MCERs) shall be provided to serve as cross-connection points between riser distribution, network interfaces and outlet distribution (network drops) that serve each floor. TR's shall be dedicated to communications/data and related systems, preferably stacked above one another on each floor to facilitate risers and near the center of the building so that the circuits run from the closet are equidistant to the ends of the building. TR's may be designed for shared use of low voltage communications services such as fire alarm, building alarms, AV, CCTV, and CATV. Installers and equipment designers shall coordinate specific requirements for each location with TONB.

Riser distribution shall be by means of four-inch conduits or project specific requirements, except that four-inch sleeves may be used where TR's are aligned in a fire rated partition.

Conduit Outlet distribution shall be provided by others except where noted in the project scope.

A double gang plate may be required for some installations depending upon the services required at the end-user/network drop location. Solid wall construction or special applications may require surface raceways. These will be defined by project. All raceways and conduits shall comply with standard EIA/TIA 569 and any local codes or standards.

CONDUIT SIZING TABLE – General Guidelines

Conduit		Number of Cables or Wires								
Trade Size	Internal Diameter	Wire Outside Diameter (inches)								
		.13	.18	.22	.24	.29	.31	.37	.53	.62
3/4	0.82	6	5	4	3	2	2	1		
1	1.05	8	8	7	6	3	3	2	1	
1-1/4	1.38	16	14	12	10	6	4	3	1	1
1-1/2	1.61	20	18	16	15	7	6	4	2	1
2	2.07	30	26	22	20	14	12	7	4	3
2-1/2	2.47	45	40	36	30	17	14	12	6	3
3	3.07	70	60	50	40	20	20	17	7	6
3-1/2	3.55							22	12	7
4	4.02							30	14	12

This table provides guidelines on cable capacities for conduits that have no more than two 90-degree bends and are not longer than 100 feet. It is based on a maximum 40 percent fill and includes a de-rating factor of 15 percent for each of the two 90 degree bends. The radius of conduit bends shall be at least 10 times the conduit diameter (see exception under “Products”).

Horizontal distribution from outlet stub locations to TR/ICER/MCER’s through ceiling spaces shall be accomplished by either cable tray or conduit or a combination thereof.

Minimum service clearance of 18” above and 12” on either side of a cable tray shall be provided. **Use of rings or hooks is not permitted.** Industry approved methods such as “J” hooks will be permitted as needed. At no time shall any cable be unsupported, placed on ceiling tiles or tied to conduit. All applicable codes and standards must be complied with.

TONB must approve special circumstances requiring alternative distribution methods in writing.

Project Notes:

- **Some cable pathways are being installed by others. Placement and coordination should follow the specified areas and final coordination with Turner Construction Company site project manager.**
- **All cables will be supported using “J” hooks or other approved methods.**
- **Wireless Access Points (WAP) will have a 20’ slack loop and be terminated with a single RJ-45 jack in Surface mount housing.**
- **It is the responsibility of the installer to bring to the attention of TONB any deviations, errors, or omissions that could affect performance or non-compliance to codes, standards, manufacturer’s warranties or industry accepted practices.**
- **Installation will be in a phased approach. Final scheduling is to be determined.**
- **It is required that you obtain the original contract documents and project drawings. These may be obtained from:**

**Universal Copy
Waterbury, CT
Contact: Brian Burke
Phone: 203-757-2100
State Project Number 99-0049RNV/E**

Architect – Herbert S Newman and Partners P.C.

Phone: 203 772-1990

Section 3 – Description of Materials, Products and Approved Manufacturers'

General Descriptions:

1. UTP outlet jacks shall be RJ-45 Category 6 rated. Note colors. (Drawing T-4)
2. Patch panels shall be angled for use in the ICER and MCER racks. These shall be 48-port, high density (2u). The style shall be angled directing the cables to either side, eliminating the need for horizontal wire management under the panels.
3. Two post racks shall accept 19" rack mount equipment and have two 6" Vertical wire managers.
4. Four post racks shall accept 19" rack mount equipment and have two 6" Vertical wire managers.
5. Fiber optic cable riser cable will be a hybrid construction consisting of 12/strands of SMF and 12/strands of laser optimized 50/125 MMF fiber. Cable is to be terminated with LC connectors. Fiber cable specifications shall support 10G Ethernet transmission at 600m. Construction shall be interlock armor plenum rated cable.
6. Hardware for mounting in/on racks is to be coordinated to be the same size, color and type of screws for all applications.
7. Rack Shelves are to be full-length, non-slide out, and moveable. Shelves will be light-duty.
8. Wire Management will be vertical and horizontal. Vertical shall be 6" wide high-capacity managers securely mounted to either side of all comm. racks with covers. Horizontal management will be accomplished with 1U managers mounted between switches. Covers for vertical and horizontal wire management must be included.
9. Patch Cables shall be category 6 UTP/4 pair, full duplex operation, and gigabit capable. Cables for data must be blue in color; cables for VOIP phone must be white in color. Classrooms and MCER/ICER patch cables shall be split up between 3, 5, and 7ft patch cables retaining the blue and white color designations for Data and VOIP. Final lengths and quantities will be determined by NBIS IT – see price sheet.
10. UTP Category six cables are to be plenum rated and meet all ANSI/EIA/TIA-568-B.2-1 Category 6 requirements.
11. Power strips for all racks should be rated at NEMA 5-20R. They must be 19" horizontal rack mountable with 10 Output receptacles. They must also have a minimum cord length of 15' with a twistlock NEMA5L-20P Input Plug Connection.
12. Wiring scheme shall be TIA/EIA T568B
13. Speakers shall be low profile, ceiling mounted and self powered. They shall be 30 to 40 watt/channel in output capacity.

14. Rack mount UPS for ICER is 1.2KVA

15. Rack mount UPS for MCER server racks and four post communication racks is 2.0 KVA

Approved Manufacturers

- Cable
 - o Corning
 - o Berk-Tek
 - o Belden
 - o Mohawk
 - o General Cable
 - o Superior Essex
 - o CommScope
- Connectivity
 - o Leviton
 - o Hubbell
 - o Ortronics
 - o Siemon
 - o Panduit
 - o CommScope
- Cable Management, Ladder, Racks & Shelves
 - o Chatsworth
 - o Middle Atlantic
 - o Ortronics
 - o Panduit
 - o Copper B-Line
- Power Strips and UPS devices
 - o Eaton
 - o Emerson / Liebert
 - o APC
 - o Tripp-Lite
- Speakers for Classroom Projectors
 - o Extron
 - o JBL
 - o Polk-Audio
 - o Panasonic

Project Note:

- **Contractor shall supply a copy of the bill of materials with quantities, manufacturer's names and part numbers for all installed products.**
- **Materials will require an application assurance and manufacturer's 20 year warranty and meet all ANSI/EIA/TIA specifications as outlined in Section 8.**

All materials and products shall be approved by TONB.

Section 4 - General Site Requirements

Delivery, Storage and Handling

- Protect materials from damage, theft, soiling, and misalignment. Coordinate with the owner for secure storage of equipment and materials. Do not store equipment where conditions fall outside recommendations for environmental conditions. Do not install damaged materials; remove from site and replace damaged material with new material.

Sequence and Scheduling

- Submit schedule for installation of equipment and cabling. Indicate installation, and testing for conformance to specific job completion dates. At a minimum, dates are to be provided for bid award, installation start date, completion of station cabling, completion of riser cabling, completion of testing and labeling, cutover, completion of the final punch list, start of demolition, owner acceptance, and demolition completion.

Use of the site

- Use of the site shall be at the owner's direction in matters in which the owner deems it necessary to place restriction.
- Access to building wherein the work is performed shall be as directed by the Construction Manager.
- The owner will occupy the premises during the entire period of construction for conducting normal business operations. Cooperate with the owner to minimize conflict and to facilitate the owner's operations.
- Take no action that will interfere with, or interrupt existing building services unless previous arrangements have been made with the owner's representative. Arrange the work to minimize shutdown time.
- Schedule necessary shutdowns of plant services with the owner, TONB and/or obtain written permission from the owner.

Section 5 - General Installation Requirements

- Prior to start of systems installation, meet at the project site with the owner's representative and representatives of trades performing related work to coordinate efforts. **Review areas of potential interference and resolve conflicts before proceeding with the work.** Facilitation with the TONB personnel and their authorized representatives will be necessary to plan the crucial scheduled completions of the project.
- Examine areas and conditions under which the system is to be installed. Do not proceed with the work until satisfactory conditions have been achieved
- Install materials and equipment in accordance with applicable standards (particularly ANSI TIA 568A), codes, requirements, and recommendations of national, state, and local authorities having jurisdiction, and *National Electrical Code*® (NEC) and with TONB printed instructions and installation specification. Installation must adhere to all manufacturers' warranty requirements
- Adhere to industry specifications for pulling tension, minimum bend radii, and sidewall pressure when installing cables
- Penetrations through floor and fire-rated walls shall be fire-stopped after installation and testing, utilizing a fire-stopping assembly approved for that application and according to all applicable standards including the local Fire Marshall and AHJ
- Attach cables to permanent structure with suitable attachments at intervals 36 inches when approved
- Support cables installed above removable ceilings.
- All support systems must adhere to the ANSI/EIA/TIA 569-A. standards and any applicable NEC Codes
- Support riser cables every three (3) floors and at top of run with cable grips
- Limit four-pair data riser cables per grip to fifty (50)
- Grounding shall conform to ANSI/TIA/EIA 607 - *Commercial Building Grounding and Bonding Requirements for Telecommunications*, *National Electrical Code*® and NBIS's grounding requirements as minimum.
- Ground equipment racks, housings, messenger cables, and raceways.
- Connect cabinets, racks, and frames to single-point ground which is connected to building ground system via #6 AWG green insulated copper grounding conductor.
- Labeling shall conform to the established TONB specification. (T- 4.0)

- In addition, provide the following:
 1. Label each outlet with permanent self-adhesive label.
- Labels shall be machine-printed. Hand-lettered labels shall not be acceptable.
- Label cables, outlets, patch panels, and punch blocks with room according to the TONB and NBIS IT label scheme. T- 4.0
- Mark up floor plans showing outlet locations, type, and cable marking of cables. Turn these drawings over to TONB two (2) weeks prior to move in to allow the owner's personnel to connect and test owner-provided equipment in a timely fashion.
- Install station cabling to the nearest communications closet, unless otherwise noted. Maximum cable length shall not exceed 90 meters.
- Installation shall be neat and installed in a professional manner.

Section 6 - Testing

Testing shall conform to Transmission Performance Specifications for Field Testing of Unshielded Twisted Cabling Systems and ANSI/TIA/EIA-568-B-1, Propagation Delay and Delay Skew Specification for 100 ohm 4-pair cable.

Testing shall be done to all manufacturers' warranty requirements.

Test each pair and shield of each cable for opens, shorts, grounds, and pair reversal. Correct grounded and reversed pairs.

Examine open and shorted pairs to determine if problem is caused by improper termination. If termination is proper, replace the cable.

Project Note: See Drawing T-0. 1

Initially test optical cable with a light source and power meter utilizing procedures as stated in ANSI/TIA/EIA-142.

Optical Power Loss of Installed Single mode Fiber Cable Plant measured results shall be plus/minus 1 dB of submitted loss budget calculations.

If loss results are out of range, test all suspect cable with an optical time domain reflectometer to determine cause of variation.

Correct improper splices and replace damaged cables at no charge to the owner.

- 1) Cables shall be tested at 850 nm and 1300 nm for multimode optical fiber cables.
- 2) Cables shall be tested at 1310 nm and 1550 nm for single mode optical fibers.
- 3) Testing procedures shall utilize "Method B" – One jumper reference.
- 4) Bi-directional testing of optical fibers is required.

Where any portion of system does not meet the specifications, correct deviation and repeat applicable testing at no additional cost to the owner.

Note: TONB as part of the commissioning process, may complete Third Party testing and verification.

Section - 7 Contractor and Quality Requirements

If required by project size, employ job engineer or project manager during the course of the installation to provide coordination of work of this specification and of other trades, and provide technical information when requested by other trades. This person shall maintain current RCDD® (Registered Communications Distribution Designer) or equivalent registration and shall be responsible for quality control during installation.

The contractor shall have worked satisfactorily for a minimum of five (5) years on systems of this type and size. Contractor must be approved for work in TONB facilities. All contractors must be licensed and insured according to local, state and national requirements. A permit will be required for this project.

The contractor will be required to furnish a list of references with specific information regarding type of project and involvement in providing of equipment and systems. Copies of these references are to be presented to the TONB for approval prior to bid.

Where equipment and materials have industry certification, labels, or standards (i.e., NEMA - National Electrical Manufacturers Association), this equipment shall be labeled as certified or complying with standards

Subcontractors shall assume all rights and obligations toward the contractor that the contractor assumes toward the owner and engineer. **Any subcontractor must be approved in writing by NBIS.**

A minimum of two weeks prior to occupancy, the contractor shall supply a completed installation, a riser diagram, test results, firestop submittals identifying the UL Systems, cable schedule and outlet schedule to the TONB or their authorized representative.

TONB may conduct commissioning audit or internal testing of the completed cabling system. The contractor will be responsible to correct any defects discovered by the testing.

Contractor is responsible for all state required Prevailing Wage documentation. In addition

“The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor’s responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor’s website.

The annual adjustments will be posted on the Department of Labor’s Web page: www.ct.gov/dol

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.”

Section 8 - Referenced Standards

The following installation, documentation, component and system industry specifications shall be met or exceeded:

- ANSI/TIA/EIA-568-B.1 and addenda
"Commercial Building Telecommunications Cabling Standard - Part 1: General Requirements"
- ANSI/TIA/EIA-568-B.2 and addenda
"Commercial Building Telecommunications Cabling Standard - Part 2: Balanced Twisted-Pair"
- ANSI/TIA/EIA-568-B.3 and addenda
"Commercial Building Telecommunications Cabling Standard - Part 3: Optical Fiber Cabling and Components Standard"
- ANSI/TIA/EIA-569-A and addenda
"Commercial Building Standard for Telecommunications Pathways and Spaces"
- ANSI/TIA/EIA-606-A and addenda
"Administration Standard for the Telecommunications Infrastructure of Commercial Buildings"
- ANSI-J-STD-607-A and addenda
"Commercial Building Grounding and Bonding Requirements for Telecommunications"
- ANSI/TIA/EIA-526-7
"Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant"
- ANSI/TIA/EIA-526-14A
"Optical Power Loss Measurements of Installed Multimode Fiber Cable Plant"
- NFPA – 70 National Electric Code 2005
- NFPA – 75 Information Technology Equipment
- NFPA – 76 Telecommunications Facilities
- NFPA – 90A Air Conditioning and HVAC
- FCC regulations Part 15 and Part 68
- Siemon Training Manual Rev-J ; August 2006
- BICSI – TDM – 10th Edition or most current

Section 9 – Contractor Bid Submittals

In addition to required Town documents, the following items are also required in the bid submission package.

- 1) A bill of materials with part numbers and quantities
- 2) A list of four (4) references is required . **Two** of which shall be **for** school projects of similar scope and size.
- 3) Statement of the proposed manufacturers 20 year warranty certification.
- 4) A qualified site safety plan.
- 5) Required Town of North Branford bid bond requirements.
- 6) Statement of Prevailing Wage agreements.
- 7) A list of project personnel. This will include the designation of an assigned project manager and a clear escalation process for problem resolution with company names and contact information.
- 8) Any qualifications or exceptions to the project shall be submitted in writing and in question form.

Section 10 – Project Add/Delete Alternates

1. Furnish & Install two four (4) inch conduits from building entrance facility to the 2nd floor MCER.
2. Furnish & Install two speakers in each classroom with a projector outlet.
3. Furnish & Install one four (4) inch conduit from auditorium wiring closet to second 2nd floor MCER.
4. Furnish & Install a 12S/SMF-12S/ MMF hybrid fiber cable from the entrance facility to the second floor MCER.
5. Furnish & Install a 12S/SMF-12S/ MMF hybrid fiber cable from auditorium wiring closet to second 2nd floor MCER.
6. Provide a conduit extension in rooms where there are exposed ceilings and a required information outlet or projector connection.
7. Unit price for a single “Network Drop” – Two Category 6 UTP cables. Labor and Materials (150’)
8. Unit price for the installation of a Server Room rack. Labor and Materials.
9. Include in the following adds in the base bid - Use outlet configuration of 1d/1v.
 - a. Add power/data for a projector on ceiling at : A102 Speech, D103 TV Studio, & C213 Bridges
 - b. Add data outlet at A207, A307, & C202 Team Storages.
 - c. Add data outlet at C210 Storage.
 - d. Add data outlets for student computers at A114 In-School Suspension.
 - e. Add data outlet at B102 Bookstore.
10. Unit Price for a 7’ patch cable Cat-6 UTP patch cable
11. Unit Price for a 3 meter 50/125 LC/LC fiber optic patch cable
12. Install a complete and operational copper backbone / riser system per schematic design on drawing T - 5.0
13. Furnish & Install one Cat-6 UTP (4pr) from the ceiling projector outlet location (CVP) to the wall mounted outlet (LVP).
14. Unit price for 1.2 KVA and 2.0 KVA rack mount UPS.
15. Unit price for a Seven foot lockable cabinet. Cabinet should be a minimum of 36” deep and accept 19” rack mount equipment.
16. Unit price for a horizontal rack mount PDU per specification.

NBIS Price Summary Sheet

Project Number

Network Wiring and IT Infrastructure

ITEM	DESCRIPTION	TOTAL
1	HORIZONTAL CABLING Installation of a complete and functional permanent link cable system per/guidelines and specifications	\$ -

# of Outlets	# of Cables	Labor	\$ -
		Materials	\$ -

2	ICER (TR) Rooms Installation of all necessary infrastructure components in each ICER per/ guidelines and specifications	\$ -
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ICER A305	Labor	\$ -
	Materials	\$ -
ICER A205	Labor	\$ -
	Materials	\$ -
ICER E106	Labor	\$ -
	Materials	\$ -
ICER D108	Labor	\$ -
	Materials	\$ -

3	MCER (Server Room) B213 Installation of all necessary infrastructure components in the MCER per/ guidelines and specifications - include UTP trunk cable	\$ -
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Labor	\$ -
Materials	\$ -

4	Fiber Optic Backbone / Riser Installation of a complete and functional fiber optic backbone/riser system per/guidelines and specifications	\$ -
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Labor	\$ -
Materials	\$ -

	Quantity	Description	Unit Price	Total
5	175	7' Cat-6 UTP patch cord Blue	\$ -	\$ -
6	150	7' Cat-6 UTP patch cord White	\$ -	\$ -
7	275	5' Cat-6 UTP patch cord Blue	\$ -	\$ -
8	75	5' Cat-6 UTP patch cord White	\$ -	\$ -
9	275	3' Cat-6 UTP patch cord Blue	\$ -	\$ -
10	75	3' Cat-6 UTP patch cord White	\$ -	\$ -
11	75	Fiber Optic patch cord LC/LC 50/125 10G (3 meter)	\$ -	\$ -
12	1	All required Permits and fees	\$ -	\$ -

All prices quoted shall remain valid valid for 90 days.

NBIS Price Summary Sheet

Add/Delete Alternates

Project Number

Network Wiring and IT Infrastructure

ITEM	DESCRIPTION	TOTAL
1	Furnish and install two four (4) inch conduits from the EF to the second floor MCER Room B213	\$ -
2	Furnish and install one hybrid Fiber Optic cable from the EF to the second floor MCER Room B213 Cable specification is to follow base bid fiber	\$ -
3	Furnish and install one four (4) inch conduit from the Auditorium (TR) to the second floor MCER Room B213. Conduit placement will be coordinated with Tuner and provide operational protection during construction.	\$ -
4	Furnish and install one hybrid Fiber Optic cable from the Auditorium (TR) to the second floor MCER Room B213 Cable specification is to follow base bid fiber	\$ -
5	Provide a unit cost to extend a conduit from the AV stub-up to the projector location in the rooms where exposed cables may be present.	\$ -
6	Provide a unit cost for a single "Network Drop" . Two Cat-6 UTP cables 150' permanent link - Labor and Materials during initial project.	\$ -
7	Provide a unit cost for a single "Network Drop" . Two Cat-6 UTP cables 150' permanent link - Labor and Materials. After project MAC work.	\$ -
8	Provide a unit cost for the installation of a single server room 4 post rack Include one 6-pak trunk cable - Labor and Materials	\$ -
9	Install a complete and operational copper backbone/riser per schematic design on Drawing T-2.01R - Labor and Materials	\$ -
10	Provide a unit cost for the installation of a single Cat-6 UTP cable from the ceiling projector outlet (CVP) to the wall outlet (LVP)	\$ -
11	Provide a unit cost for a 1.2 KVA rack mount UPS	\$ -
12	Provide a unit cost for a 2.0 KVA rack mount UPS	\$ -
13	Provide a unit cost for a Cat-6 UTP patch cord seven feet (7')	\$ -
14	Provide a unit cost for a 3 meter LC/LC 50/125 10G fiber optic patch cord	\$ -
15	Provide a unit cost for a seven foot (7') enclosed cabinet. Cabinet should be a minimum of 36" deep, lockable and able accept 19" rack mounted hardware.	\$ -
16	Provide a unit cost for a rack mount PDU per specification.	\$ -

Part III
Documents Required by the Town of North Branford

TOWN OF NORTH BRANFORD

Purchasing Department
Town of North Branford

Request For Proposal

Michelle Knockwood, CPPB, Purchasing Assistant
203/484-6005 - Fax: 203/484-6025

Proposal Data

RFP#: 6- 2008/2009

Commodity Title: Installation of Network Wiring and IT Infrastructure
North Branford Intermediate School
Issue Date:

Proposal Opening

Day / Date: May 22, 2009
Time: 11:00 AM
Mailing Address: Town Manager's Office
909 Foxon Road
North Branford, CT 06471

Directions: All Proposals are to be returned to the Office of the Town Manager, North Branford Town Hall, 909 Foxon Road, North Branford, CT 06471.

Proposal Contents

Request for Proposal/Advertisement
Contents Page
General Conditions & Instructions
Project Description & Scope of Services
Proposal Page
Non-Collusion Statement
Affirmative Action Statement
Form W-9

Sealed written Responses must be received by Purchasing no later than the date, time and location indicated above for the Proposal Opening. Late Proposals will not be accepted - no exceptions. Submittal of Response by fax is not acceptable. **PLEASE NOTE:** When returning proposal packages, it is **important** to have the Proposal number and description on the outside of the envelope that contains your proposal.

Please submit an original and two (2) copies of completed proposals to the Purchasing Department.

Note: This Proposal does not constitute an order for the goods or services specified.

RFP #6 – 2008/2009 – Installation of Network Wiring and
IT Infrastructure at North Branford Intermediate School

Date:

RFP#6 2008/2009

INSTALLATION OF NETWORK WIRING AND IT INFRASTRUCTURE
NORTH BRANFORD INTERMEDIATE SCHOOL

TOWN OF NORTH BRANFORD
REQUEST FOR PROPOSAL
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--PURCHASING USE ONLY--

--REQUIREMENTS--

1)	Certificate of Insurance	<u> x </u> Yes	<u> </u> No	<u> </u> Received/Date
2)	Bid Bond	<u> x </u> Yes	<u> </u> No	
3)	100% Performance Bond	<u> x </u> Yes	<u> </u> No	
4)	Labor & Materials Bond	<u> x </u> Yes	<u> </u> No	
5)	Vendor References	<u> x </u> Yes	<u> </u> No	
6)	Samples & Descriptive Literature	<u> x </u> Yes	<u> </u> No	

TOWN OF NORTH BRANFORD

REQUEST FOR PROPOSAL

RFP #6 2008/2009

INSTALLATION OF NETWORK WIRING AND IT INFRASTRUCTURE NORTH BRANFORD INTERMEDIATE SCHOOL

The Town of North Branford is soliciting proposals from contractors to install a state of the art structured wiring system for the North Branford Intermediate School, 654 Foxon Road, North Branford, CT 06471. This system is intended to consider and implement the most current technologies and infrastructure components that exist today. **SEALED PROPOSALS** will be received until 11:00 AM, Friday, May 22, 2009 at the Office of the Town Manager, 909 Foxon Road, North Branford, Connecticut. Proposals received after this time will be considered late and will be rejected.

Mandatory Pre-Bid Conference A **MANDATORY** walk-through meeting will be held 3:30 PM to 5:00 PM, Wednesday, May 13th, 2009 at the North Branford Intermediate School.

Specifications may be obtained at the Office of the Purchasing Assistant, Michelle Knockwood, by calling (203) 484-6005. Drawings and plans can be obtained from Universal Copy, Waterbury CT by calling Brian Burke (203) 957-2100.

The Town Manager reserves the right to reject all proposals or waive defects in same if he deems such to be in the best interest of the Town.

All proposers are advised that the Town of North Branford will affirmatively assure any contract entered into pursuant to this advertisement. Minority business enterprises will be afforded full opportunity to submit bids and are encouraged to do so. The Town of North Branford is an Affirmative Action/EOE.

Richard V. Branigan, Town Manager

Date: 4/29/09

Published one (1) time in the Sound Newspaper under **Legals** on: 5/7/09

**RICHARD V. BRANIGAN
TOWN MANAGER
(203) 484-6000**

NON COLLUSIVE AFFIDAVIT OF BIDDERS

**RFP # 6 2008/2009 –INSTALLATION OF NETWORK WIRING AND IT
INFRASTRUCTUE AT NORTH BRANFORD INTERMEDIATE SCHOOL**

The undersigned bidder, having fully informed themselves regarding the accuracy of the statements made herein certifies that;

- (1) the Proposal has been arrived at by the bidder independently and has been submitted without collusion with, and without any agreement, understanding, or planned common course of action with any other vendor of materials, supplies, equipment, or services described in the request for proposal, designed to limit independent bidding or competition, and
- (2) the contents of the Proposal has not been communicated by the bidder or its employees or agents to any person not an employee or agent of the bidder or its surety on any bond furnished with the proposal, and will not be communicated to any such person prior to the official opening of the proposal.

The undersigned bidder further certifies that this statement is executed for the purpose of including the Town of North Branford to consider the bid and make an award in accordance therewith.

Subscribe and Sworn to me this
_____ day of _____,
2009.

Notary Public
My Commission Expires

Legal Name of Bidder

Business Address

Signature and Title of Person

Date

EVALUATION PROCEDURES

1. Evaluation Criteria - Proposals will be evaluated using three (3) sets of criteria. Firms meeting all three criteria will have the best opportunity for selection. The following represent principal selection criteria that will be used during the evaluation process.
 - a) Requirements Met - The single most important criteria is the degree to which vendor proposals meet the detailed requirements set forth in this proposal. All items included in the questionnaires and required in the proposal must be addressed in full. Any and all alternate proposals, material substitutions or equipment substitutions must be fully documented as required in the proposal. Vendors' responses to all items in the proposal and all conditions set forth in the proposal will be incorporated into the contract between the Town of North Branford and the successful vendor.
 - b) Price / Cost - While cost is not the only factor, it will be a significant factor in the overall evaluation of proposals. It is the desire of the Town of North Branford to select a single vendor for this project. However, the Town will act in accordance with the best interest of the school district. Refer to item 7 of the General Conditions for additional information. If the prices included in a proposal are dependent upon a purchase quantity, it is the responsibility of the vendor to specify the pricing tiers.
 - c) Successful Installations and Service - Vendors should include a list of references as required in the proposal. Location and availability of service will be a factor in the evaluation of proposals.
2. Investigation - The Town of North Branford may make such investigation, as it deems necessary, to determine the ability of Bidder to perform the work.
 - a) The Bidder shall furnish all information and data for this purpose as the Town may request.
 - b) During the evaluation process, the Town may, at its discretion, request one or all firms to make oral presentations to the selection committee or to provide additional information regarding items included in the proposal.
3. Final Selection – The Town of North Branford will select a vendor based upon the recommendations of the selection committee, as applicable.
4. Reservation of Rights
 - a) The Town of North Branford reserves the right to reject any or all bids for this project, and to negotiate terms with the successful vendor.
 - b) The Town reserves the right to reject any Bid if evidence submitted by the Bidder or investigation of the Bidder fails to satisfy the Board that the Bidder is properly qualified to carry out the obligations of the Contract and to complete the work within a specified time.
 - c) The Town reserves the right to purchase all, or a portion of, the equipment or services listed in this proposal.
 - d) The Town reserves the right to purchase the equipment or services listed in this proposal from one or more vendors.

TOWN OF NORTH BRANFORD-PURCHASING DEPARTMENT GENERAL CONDITIONS AND INSTRUCTION TO BIDDERS

The general rules and conditions outlined below apply to all purchases authorized by the Town of North Branford. The conditions outlined become a formal part of each invitation to bid unless otherwise specified. All bidders are expected to fully inform themselves as to the conditions, requirements and specifications before submitting bids. Failure to do so will be at the bidder's own risk.

The terms and conditions outlined in the invitation to bid become part of the formal contract following award, unless specified otherwise.

CONDITIONS OF BIDDING

1. **PROPOSAL FORMS:** The bidder shall maintain one (1) copy for his files and submit the original signed copy in sealed envelope marked with the title of the Bid, Bid opening date and time on the outside.
2. **ADDENDUMS:** It shall be the bidder's responsibility to check for any Addendums added to the original bid.
3. **LATE BIDS:** Formal bids, addendum's to bids or requests to withdraw a bid received after the date and time specified for opening will not be considered.
4. **WITHDRAWAL OF BIDS:** Bids may be withdrawn by written authorization only, and if withdrawal request is received prior to specified time of opening.
5. **MAILING OF BIDS:** All bids are to be mailed in an envelope marked with the title of Bid and Bid Opening date and time and directed to the Office of the Town Manager. Vendors are encouraged to allow sufficient time for mailing of bids. The Town of North Branford assumes no responsibility for postal delays.

All bids received will be stamped by date and time received by the Purchasing Office. This date of receipt will prevail over postmark date.
6. **OPENING OF BIDS:** The bids will be opened publicly and read aloud. Vendors are welcome and are encouraged to attend bid openings.

Bid openings will be listed by vendor name, address and bid amount only. Bid tabulation will be done at a separate time following bid opening and will be available to interested vendors at a later time.
7. **BID COMPLETION:** All information required by the invitation must be complete to constitute proper bid. Failure to do so will result in disqualifying the bid.
8. The Town of North Branford reserves the right to reject all bids, or any part of a bid or to waive defects in bids if in the best interest of the Town of North Branford.
9. All formal bids submitted shall be binding for sixty (60) calendar days following bid-opening date, unless otherwise specified. The bidder may agree to an extension at the request of the Purchasing Agent. All extensions are to be authorized by addendum.
10. **PAYMENT TERMS:** Prepayment discounts for early payment are preferred. All others to be Net 30 days unless otherwise specified.
11. **BIDS FOR ALL OR PART:** Bidders may restrict their bid to consideration in the aggregate by so stating but should include a unit price on each item bid upon. Any bid in which the bidder names a total price for all articles without quoting a unit price may be rejected at the option of the Town of North Branford.
12. **ERROR IN BIDS:** Any mistake in a bid which is obviously a clerical error such as a price extension, decimal point error or FOB terms may be corrected by the Purchasing Agent, following bidder verification. Clerical errors detected at the bid opening will be corrected and initialed by the Purchasing Agent, vendor and a witness if present. If an error exists in the extension of prices, the unit price shall prevail.
13. **RESPONSE TO INVITATIONS:** In the event you are unable to bid on our requirements as specified, in the invitation to bid, forward a letter to the Purchasing Office indication you intention not to bid and a brief explanation as to why you are unable to bid.
14. **MULTIPLE BIDS:** No bidder will be allowed to offer more than one bid price on each item, although alternate models or styles may meet specifications. Alternates will be considered only if requested in the original bid package. Any alternate not specified will be rebid if in the best interest of the Town. If the bidder submits more than one price on any item, all prices for that item may be rejected at the discretion of the Town Manager.
15. **TAXES:** The Town of North Branford is exempt from all State and Local taxes.

16. **EQUIPMENT SPECIFICATION AND/OR DESCRIPTIONS:** Each bidder shall submit, when requested by the Purchasing Agent, catalogs, descriptive literature and detailed drawings, fully detailing features, designs and construction necessary to fully describe the material or work he proposes to furnish.
17. **BID BOND, CERTIFIED CHECK, OR CASHIER'S CHECK:** When required each bid shall be accompanied by a bid bond signed by a surety company authorized to do business in Connecticut or by a cashier's check or certified check made payable to the Town of North Branford, Connecticut. The amount of the bid deposit will be 10% of the total base bid unless otherwise specified.
18. **PERFORMANCE BOND:** If required by the bid specifications, the successful bidder must supply a performance bond for the full amount of the estimated total bid. The performance bond shall be made out in favor of the Town of North Branford. The performance bond will be required as security by the successful bidder for faithful performance of his contract. This performance bond will be required within 10 days of the award notification. The performance bond must be written by a surety company licensed to transact business in the State of Connecticut. The successful bidder upon failure or refusal to furnish within 10 days the required performance bond, shall forfeit to the Town of North Branford as liquidated damages their bid deposit.
19. **SAMPLES:** When samples are required from bidders receiving the award, the samples may be retained by the Town of North Branford until the delivery of contracted items. Bidders whose samples are retained may pick them up after delivery is accepted.

Bidders shall be responsible for delivery and removal of samples. Cost of delivery and removal of samples to be the responsibility of the bidder.

All samples are to be marked samples and delivered to the Purchasing Office. The package must indicate the name of the bidder, item enclosed and bid number. Failure to adequately identify samples as indicated may be considered sufficient reason for rejection of the bid.

SPECIFICATIONS

20. **TRADE NAMES:** In cases where an item is identified by a manufacturer's name, trade name, catalog number or reference it is understood that the bidder proposes to furnish the item so identified and does not propose to furnish an "equal" unless the proposed "equal" is specified.

The reference to the above catalog is intended to be descriptive, not restrictive and is used to indicate to the prospective bidder articles that will be satisfactory.

Bids on other makes will be considered provided the bidder clearly states what is proposed in the space marked exceptions on the bid proposal sheet. Equipment specification sheets or other descriptive information will be required on all exceptions.

The Purchasing Agent reserves the right to approve as an equal or to reject as not being equal any article the bidder proposes to furnish which contains major or minor variations from the specification requirements.

If no particular brand, model or make is specified, the successful contractor may be required to submit working drawings or descriptive data to enable the Purchasing Agent to judge if all requirements of the specifications are being met.

21. The bidder shall comply with the true intent of the specifications and not take advantage of any unintentional error or omission but shall fully complete every part of the specification or drawings whenever mention is made of any article, material or workmanship to be in accordance with laws, ordinances, building codes, ASTM regulations, or similar expressions. These shall be considered to be the minimum requirements of the specifications. Any deviations from specifications must be noted in writing at the time of submission of the formal bid. The absence of written deviations will hold the bidder strictly accountable to the Town of North Branford to the specifications as written. Any deviation from the specifications as written, not previously submitted as required by the above, will be grounds for rejection of the material and/or equipment when delivered.
22. The contract will be awarded to the lowest responsible bidder complying with all the provisions of the invitation, provided the bid price is reasonable and in the best interest of the Town of North Branford to accept it. The Purchasing Office reserves the right to reject any or all bids and to waive any informality in bids received whenever such rejection or waiver is in the interest of the Town. The Purchasing Agent also reserves the right to reject the bid of a bidder who has previously failed to perform properly or complete on time contracts of a similar nature or a bid of a bidder who on investigation shows he is not in a position to perform the contract.

In determining responsibility the following qualifications in addition to price will be considered by the Purchasing Agent.

- The ability, capacity and skill of the bidder to perform the required services.
- The ability of the bidder to perform the contract or provide the service promptly within the time specified.
- The character, integrity, reputation, judgment and experience of the bidder.
- The quality of performance of previous contracts or services.

- e. The previous and existing compliance by the bidder with laws and ordinances relating to the contract or services.
 - f. The sufficiency of the financial resources and ability of the bidder to perform the contract or provide the service.
 - g. The quality, availability and adaptability of the supplies or contractual services to the particular use required.
 - h. The ability of the bidder to provide future maintenance and service for the use of the material and/or equipment.
 - i. Award by item, or part thereof, groups of items or parts thereof, or all items of the bid.
 - j. Prepayment discounts for early payment will be taken into consideration when making award.
23. **NOTICE OF ACCEPTANCE:** All bidders will be notified of the award in writing within a reasonable time from the date of the bid opening. The successful bidder will also be notified. A purchase order will be issued following verbal notification.
24. **TIE BIDS:** If two or more bidders submit identical bids and are equally qualified, the decision of the Town to make award to one or more of such bidders shall be final. Selection shall be made by drawing lots in public.

RESIDENT BIDDERS PREFERENCE: Price and other factors being equal, preference will be given first to resident bidders of the Town. Except when judgment of such purchase would operate to the disadvantage to the Town.

25. **SPECIFIC BID QUANTITIES:** Where quantities are stated specifically, acceptance of the bid will bind the Town to order only those quantities specified, and to pay for at contract prices all such supplies or services delivered that meet specifications and conditions of the contract. The Town will not be required to accept delivery of any balances unordered as of the contract expiration date.
- "AS REQUIRED" BID QUANTITIES:** On "as required" bids, acceptance will bid the Town to pay for at unit prices only quantities ordered and delivered.

CONTRACT PROVISIONS

26. **GUARANTEE:** The contractor shall unconditionally guarantee the materials and workmanship on all equipment furnished by him for a period of one year from date of acceptance of the items delivered and installed, unless otherwise specified herein. If, within the guarantee period, any defects or signs of deterioration are noted which in the opinion of the Town are due to faulty design and installation, workmanship or materials, upon ratification, the contractor, at his expense shall repair the defect or replace the item.

27. **AVAILABILITY OF FUNDS:** A contract shall be deemed executory only to the extent of appropriations available to each agency for the purchase of such articles. The Town's extended obligation on these contracts which envision extended funding, through successive fiscal periods shall be contingent upon actual appropriations for the following fiscal year.

28. **CONTRACT ALTERATIONS:** No alterations in the terms of a contract shall be valid or binding to the Town unless made in writing and signed by the Town Manager or his authorized agent.

29. **INSURANCE REQUIREMENT:** The contractor, following award of the contract may be required to furnish to the Town of North Branford a Certificate of Insurance for the following coverage:
- 1. Comprehensive General Liability
 - 2. Property Damage & Bodily Injury Liability
 - 3. Automobile Liability
 - 4. Workman's Compensation and Employees Liability
 - 5. Professional Liability
- The Town of North Branford shall be named as an additional insured on said policy of public liability insurance to cover all claims against the Town arising out of said contract.

In addition to the coverage delineated above, Builders Risk Insurance may be required for construction contracts. The limits of Insurance unless otherwise specified shall be as follows:

GENERAL LIABILITY: Combined single limit of \$1,000,000. (Property Damage & Bodily Injury Liability \$1,000,000. Combined Single Limit).

The insurance carried by the bidder shall include the following coverage's.

- a. Comprehensive Form
- b. Premises Operations
- c. Products Completed Operations
- d. Contractual – Hold Harmless Requirements*
- e. Independent Contractors
- f. Broad Form Property Damage
- g. Personal Injury

***HOLD HARMLESS REQUIREMENTS:** The contractor shall, at all times, indemnify and save harmless the Town of North Branford, its officers, agents and servants on account of any and all claims, damages, losses, litigation expense, counsel fees and compensation arising out of injuries (including death) sustained by or alleged to have been sustained by the public, any or all persons affected by the contractor's work, or by the contractor, any sub-contractor, material, men or anyone directly or indirectly employed by them or any one of them while engaged in the performance of this contract.

AUTOMOBILE LIABILITY: Combined single limit of \$1,000,000. (Property Damage & Bodily Injury Liability \$1,000,000. Combined Single Limit) Comprehensive automobile liability to cover all

automobiles or vehicles owned, hired or owned by contractor's employees and used on business.

WORKERS' COMPENSATION: The contractor must have workers' compensation and liability insurance as provided by Connecticut and Federal law with statutory limits of \$500,000 per accident, \$500,000 disease each employee and \$1,000,000 disease policy limit.

The contractor shall procure and pay for the insurance coverage's described above with the minimum limits of liability as stated. The certificate of insurance shall certify that said coverage shall be in effect for the term of the contract.

The Town of North Branford shall be named as an additional insured on the General Liability insurance policy. All policies shall provide for 60 days written notice prior to cancellation, substantial change or non-renewal.

The contractor must be in compliance with State of Connecticut Public Act #86-87 "An Act Concerning Workers' Compensation Insurance Requirements For Contractors, On Public Works Projects And State Licenses."

30. **TERMINATION OF CONTRACT:** Contracts will remain in force for full periods specified, and until all articles ordered before the termination have been delivered and accepted, unless:

- a. There have been satisfactory deliveries prior to expiration date.
- b. An extension has been authorized by the Purchasing Agent, and accepted by the contractor, to obtain unordered balances or additional quantities at contract prices and in accordance with contract terms.
- c. **SUBLETTING OF CONTRACT:** Contractor shall not assign, transfer, sublet or otherwise dispose of his contract, or his right, title or interest therein, or his powers to execute such contract to any other person, firm or corporation, without the previous written consent of the Purchasing Agent. In no case shall such consent relieve the contractor from his obligations under the contract, nor shall consent change the terms of the contract. If the contractor assigns, transfers, conveys, sublets or otherwise disposes of his contract or his right, title or interest therein, without obtaining prior written consent from the Purchasing Agent, the Purchasing Agent may cancel the contract in whole or in part.
- d. **DEFAULT:** The contract may be cancelled or annulled by the Purchasing Agent in whole or in part by written notice of default to the contractor upon non-performance or violation of contract

terms. An award may then be made to next lowest responsible bidder, or, articles specified may then be purchased on the open market similar to those so terminated. In either event, the defaulting contractor (or his surety) shall be liable to the Town for costs to the Town in excess of the defaulted contract prices: Provided, that the contractor shall continue the performance of the contract to the extent not terminated under the provisions of this clause. Failure of the contractor to deliver materials or services within the time stipulated on his bid, unless extended in writing by the Purchasing Agent, shall also constitute contract default.

- e. **DELIVERY FAILURES:** Failure of a contractor to deliver within the time specified or to deliver within the time extended by the Purchasing Agent, and failure to make replacements of rejected articles when so requested, immediately or as directed by the Purchasing Agent, shall constitute contract default and authorize the Purchasing Agent to purchase in the open market articles of comparable grade to replace articles rejected or not delivered. On all such purchases, the contractor shall reimburse the Town, within a reasonable time as specified by the Purchasing Agent, for any expenses incurred in excess of contract prices or the Town may deduct such amount from monies owed the defaulting contractor. Such substitute purchases shall be deducted from contract quantities. Should public necessity demand it, the town reserves the right to use or consume articles delivered which are substandard in quality, subject to an adjustment in price to be determined by the Purchasing standard in quality, subject to an adjustment in price to be determined by the Purchasing Agent.
- f. **NON-LIABILITY:** The contractor shall not be liable in damages for delay in shipment or failure to deliver when such delay or failure is the result of fire, flood, strike, act of God, act of government, act of an alien enemy or b any other circumstances which, in the Purchasing Agent's opinion, is beyond the control of the contractor. Under such circumstances, however, the Purchasing Agent may, in his discretion, cancel the contract.
- g. **NON-DISCRIMINATION:** Contractor, in performing under this contract, shall not discriminate against any worker, employee or applicant, or any member of the public, because of race, creed, color, age or national origin, nor otherwise commit an unfair employment practice. Contractor further agrees that this article will be incorporated by contractor in all contracts entered into with suppliers of materials or services, contractors and sub-contractors and all labor organizations, furnishing skilled, unskilled and

craft union skilled labor, or who may perform any such labor or services in connection with this contract. The following principles and requirements of Equal Opportunity and Affirmative Action, as incorporated herein, will be incorporated into "Equal Opportunity – Non-Discrimination Clause" to be included in all bid documents, purchase orders, lease and contracts.

The principles of Affirmative Action are addressed in the 13th, 14th, and 15th Amendments of the United States Constitution, Civil Rights Act of 1886, 1870, 1871, Equal Pay Act of 1963, Title VI and VII of the 1964 United States Civil Rights Act, Presidential Executive Orders 11246, amended by 11375, (nondiscrimination under federal contracts), Act 1, Section 1 and 20 of the Connecticut Constitution, Governor Grasso's Executive Order Number 11, Governor O'Neill's Executive Order Number 9, the Connecticut Fair Employment Practices Law (Sec. 46a-60-69) of the Connecticut General Statutes, Connecticut Code of Fair Practices (46a-70-81), Deprivation of Civil Rights (46a-58 (a) (d)), Public Accommodations Law (46a-63-64), Discrimination against Criminal Offenders (46a-80), definition of blind (46a-51 (l)), definition of Physically Disabled (46a-51 (15)), definition of Mentally Retarded (46a-51 (13)), cooperation with the Commission on Human Rights and opportunities (46a-77), Sexual Harassment (46a-60 (a) –8), Connecticut Credit Discrimination Law (360436 through 439), Title 1 of the State and the Local Fiscal Assistance Act of 1972.

**MICHELLE KNOCKWOOD, CPPB
PURCHASING ASSISTANT
(203) 484-6005**

NON COLLUSIVE AFFIDAVIT OF BIDDERS

BID # - 2008/2009

The undersigned bidder, having fully informed themselves regarding the accuracy of the statements made herein certifies that;

- (1) the Bid has been arrived at by the bidder independently and has been submitted without collusion with, and without any agreement, understanding, or planned common course of action with any other vendor of materials, supplies, equipment, or services described in the invitation to bid, designed to limit independent bidding or competition, and
- (2) the contents of the Bid have not been communicated by the bidder or its employees or agents to any person not an employee or agent of the bidder or its surety on any bond furnished with the bid, and will not be communicated to any such person prior to the official opening of the bid.

The undersigned bidder further certifies that this statement is executed for the purpose of including the Town of North Branford to consider the bid and make an award in accordance therewith.

Subscribe and Sworn to me this
_____ day of _____,
2009.

Notary Public
My Commission Expires

Legal Name of Bidder

Business Address

Signature and Title of Person

Date

****Must Be Notarized and Returned With Bid****

AFFIRMATIVE ACTION STATEMENT

REQUIREMENT-ANY VENDOR OR BIDDER SEEKING TO DO BUSINESS WITH THE TOWN OF NORTH BRANFORD MUST, UPON REQUEST, SUPPLY THE PURCHASING OFFICE WITH ANY INFORMATION CONCERNING THE AFFIRMATIVE ACTION EQUAL EMPLOYMENT PRACTICES OF THE VENDOR/BIDDER. FAILURE TO SUPPLY SUCH INFORMATION, WHEN REQUESTED, WILL RESULT IN THE TERMINATION OF ANY FURTHER TRANSACTIONS BETWEEN THE VENDOR/BIDDER AND THE TOWN OF NORTH BRANFORD.

NOTE- ALL VENDORS/BIDDERS WITH MORE THAN 10 EMPLOYEES SHALL BE REQUIRED TO COMPLETE THE AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYMENT REQUIREMENTS STATEMENT ON AN ANNUAL BASIS EXCEPT AS NOTED BELOW:

1. ALL VENDORS OR BIDDERS WITH LESS THAN 10 EMPLOYEES ARE EXEMPT FROM THIS REQUIREMENT;
2. ALL VENDORS/BIDDERS THAT HAVE COMPLETED THIS FORM WITH THE LAST YEAR;

IF EITHER OF THE ABOVE APPLIES, CHECK THE APPROPRIATE BOX BELOW:

- ☐ LESS THAN 10 EMPLOYEES
INDICATE NUMBER:_____
- ☐ COMPLETED THIS FORM WITHIN THE LAST YEAR
DATE COMPLETED_____

SEALED BIDS- ALL BIDDERS SUBMITTING A SEALED BID WILL BE REQUIRED TO COMPLETE THE AFFIRMATIVE ACTION STATEMENT. IF THE FORM HAS BEEN COMPLETED IN THE PAST YEAR, PLEASE INCLUDE A XEROX COPY OF THE INITIAL FORM INCLUDED WITH OUR BID. IF SIGNIFICANT CHANGES HAVE TAKEN PLACE IN THE PAST YEAR, PLEASE UPDATE THE CHANGES ON THIS FORM.

COMPANY NAME & ADDRESS:_____

TYPE OF BUSINESS: _____

TYPE OF ORANIZATION:

PLEASE CHECK

CORPORATION

PARTNERSHIP

INDIVIDUAL

IF VENDOR/BIDDER FILLING THIS APPLICATION IS NOT THE ABOVE NAMED COMPANY, PLEASE PROVIDE THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE REPORTING UNIT, BRANCH AGENT, REPRESENTATIVE.

****THIS FORM MUST BE RETURNED***

EQUAL EMPLOYMENT OPPORTUNITY

THE VENDOR/BIDDER IS INSTRUCTED TO COMPLETE THE FOLLOWING:

1. DOES THE COMPANY HAVE A WRITTEN POLICY STATEMENT REGARDING EQUAL EMPLOYMENT OPPORTUNITY?

_____YES _____NO (IF YES, ATTACH COPY)

2. IN RECRUITING EMPLOYEES ARE ALL SOURCES OF RECRUITMENT NOTIFIED THAT ALL QUALIFIED APPLICANTS WILL RECEIVE EQUITABLE CONSIDERATION:

_____YES _____NO

IF YES, PROVIDE BRIEF DESCRIPTION OF WHAT METHODS WERE EMPLOYED:

3. DO ALL RECRUITMENT ADVERTISEMENTS STATE THAT YOU ARE AN EQUAL OPPORTUNITY EMPLOYER:

_____YES _____NO

4. PLEASE LIST BY NAME AND CONTACT PERSON, ANY LOCAL COMMUNITY AGENT OR OTHER GROUP PROVIDING MINORITY AND FEMALE PLACEMENT SERVICE WHICH YOU HAVE CONTACTED IN THE LAST 12 MONTHS. IF NONE, PLEASE STATE:

5. IF ADDITIONAL MEANS ARE EMPLOYED TO ADVERTISE OR SOLICIT MINORITY AND FEMALE APPLICANTS FOR EMPLOYMENT OPPORTUNITIES WITHIN YOUR COMPANY, PLEASE INDICATE:

**THIS FORM MUST BE RETURNED*

AFFIRMATIVE ACTION

6. DOES YOUR COMPANY MAINTAIN A WRITTEN AFFIRMATIVE ACTION PLAN FOR THE EMPLOYMENT OF FEMALES AND MINORITIES? _____ YES
_____ NO (IF YES, PLEASE ATTACH COPY)

7. PLEASE INDICATE THE NAME AND ADDRESS OF THE COMPANY OFFICIAL(S) RESPONSIBLE FOR CARRYING OUT THE EQUAL OPPORTUNITY/AFFIRMATIVE ACTION PROGRAM FOR YOUR COMPANY:

8. IF A WRITTEN AFFIRMATIVE ACTION FOR YOUR COMPANY IS NOT IN PLACE, PLEASE ESTIMATE THE NUMBER OF VACANCIES EXPECTED DURING THE NEXT TWELVE MONTHS AND INDICATE THE NUMERICAL OR PERCENTAGE GOALS YOU HAVE SET FOR THE EMPLOYMENT OF MINORITY PEOPLE AND FEMALES TO MAKE YOUR LABOR FORCE REFLECTIVE OF THE LABOR MARKET IN WHICH YOU OPERATE:

THE VENDOR IS HEREBY NOTIFIED THAT FAILURE TO COMPLETE THE ABOVE FORM IN A SATISFACTORY MANNER WILL PRECLUDE SUCH VENDOR FROM BEING ACTIVELY CONSIDERED TO CONTRACT WITH THE TOWN OF NORTH BRANFORD. THE VENDOR IS FURTHER ADVISED THE AFFIRMATIVE ACTION STATEMENT INCLUDED WITH THE BID DOCUMENT WILL BECOME PART OF THE CONTRACT AND THAT ANY BREACH OF SUCH STATEMENTS WILL CONSTITUTE A BREACH OF CONTRACT SUBJECT TO SUCH REMEDIES AS PROVIDED BY LAW.

I CERTIFY THAT THERE ARE NO MISREPRESENTATIONS, OMISSIONS OR FALSIFICATIONS IN THE FOREGOING STATEMENTS AND ANSWERS AND, THAT ALL ENTRIES ABOVE ARE TRUE, COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE: _____

SIGNATURE OF AGENT: _____

TITLE: _____

SUBSCRIBED AND SWORN BEFORE ME AT

CONNECTICUT,

THIS

DAY OF

20

NOTARY PUBLIC

****THIS FORM MUST BE NOTARIZED AND RETURNED.***

Request for Taxpayer Identification Number and Certification

Give form to the
requester. Do not
send to the IRS.

Please print or type

Name (See **Specific Instructions** on page 2.)

Business name, if different from above. (See **Specific Instructions** on page 2.)

Check appropriate box: ☐ Individual/Sole proprietor ☐ Corporation ☐ Partnership ☐ Other ▶

Address (number, street, and apt. or suite no.)

Requester's name and address (optional)

City, state, and ZIP code

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. For individuals, this is your social security number (SSN). **However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 2.** For other entities, it is your employer identification number (EIN). If you do not have a number, see **How to get a TIN** on page 2.

Note: If the account is in more than one name, see the chart on page 2 for guidelines on whose number to enter.

Social security number

--	--	--	--	--	--	--	--	--	--

or

Employer identification number

--	--	--	--	--	--	--	--	--	--

List account number(s) here (optional)

Part II For U.S. Payees Exempt From Backup Withholding (See the instructions on page 2.)

Part III Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), **and**
2. I am not subject to backup withholding because: **(a)** I am exempt from backup withholding, or **(b)** I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or **(c)** the IRS has notified me that I am no longer subject to backup withholding, **and**
3. I am a U.S. person (including a U.S. resident alien).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (See the instructions on page 2.)

Sign
Here

Signature of
U.S. person ▶

Date ▶

Purpose of Form

A person who is required to file an information return with the IRS must get your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to give your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee.

If you are a foreign person, use the appropriate Form W-8. See Pub. 515, Withholding of Tax on Nonresident Aliens and Foreign Corporations.

Note: If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

What is backup withholding? Persons making certain payments to you must withhold and pay to the IRS 31% of such payments under certain conditions. This is called "backup withholding." Payments that may be subject to backup withholding include interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

If you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return, payments you receive will not be subject to backup withholding. **Payments you receive will be subject to backup withholding if:**

1. You do not furnish your TIN to the requester, or
2. You do not certify your TIN when required (see the Part III instructions on page 2 for details), or
3. The IRS tells the requester that you furnished an incorrect TIN, or
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See the Part II instructions and the separate **Instructions for the Requester of Form W-9**.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of Federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Name. If you are an individual, you must generally enter the name shown on your social security card. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first and then circle the name of the person or entity whose number you enter in Part I of the form.

Sole proprietor. Enter your **individual** name as shown on your social security card on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name" line.

Limited liability company (LLC). If you are a single-member LLC (including a foreign LLC with a domestic owner) that is disregarded as an entity separate from its owner under Treasury regulations section 301.7701-3, **enter the owner's name on the "Name" line.** Enter the LLC's name on the "Business name" line.

Caution: A disregarded domestic entity that has a foreign owner must use the appropriate Form W-8.

Other entities. Enter your business name as shown on required Federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name" line.

Part I—Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box.

If you are a **resident alien** and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see **How to get a TIN** below.

If you are a **sole proprietor** and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are an LLC that is **disregarded as an entity** separate from its owner (see **Limited liability company (LLC)** above), and are owned by an individual, enter your SSN (or "pre-LLC" EIN, if desired). If the owner of a disregarded LLC is a corporation, partnership, etc., enter the owner's EIN.

Note: See the chart on this page for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get **Form SS-5**, Application for a Social Security Card, from your local Social Security Administration office. Get **Form W-7**, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN or **Form SS-4**, Application for Employer Identification Number, to apply for an EIN. You can get Forms W-7 and SS-4 from the IRS by calling 1-800-TAX-FORM (1-800-829-3676) or from the IRS's Internet Web Site at www.irs.gov.

If you do not have a TIN, write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all

such payments until you provide your TIN to the requester.

Note: Writing "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Part II—For U.S. Payees Exempt From Backup Withholding

Individuals (including sole proprietors) are **not** exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends. For more information on exempt payees, see the separate Instructions for the Requester of Form W-9.

If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding. Enter your correct TIN in Part I, write "Exempt" in Part II, and sign and date the form.

If you are a nonresident alien or a foreign entity not subject to backup withholding, give the requester the appropriate completed Form W-8.

Part III—Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 3, and 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required).

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified state tuition program payments, IRA or MSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to give your correct TIN to persons who must file information returns with the IRS to

report interest, dividends, and certain other income paid to you, mortgage interest you paid, the acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA or MSA. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return. The IRS may also provide this information to the Department of Justice for civil and criminal litigation, and to cities, states, and the District of Columbia to carry out their tax laws.

You must provide your TIN whether or not you are required to file a tax return. Payers must generally withhold 31% of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to a payer. Certain penalties may also apply.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor ²
4. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee ¹
b. So-called trust account that is not a legal or valid trust under state law	The actual owner ¹
5. Sole proprietorship	The owner ³
For this type of account:	Give name and EIN of:
6. Sole proprietorship	The owner ³
7. A valid trust, estate, or pension trust	Legal entity ⁴
8. Corporate	The corporation
9. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
10. Partnership	The partnership
11. A broker or registered nominee	The broker or nominee
12. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name, but you may also enter your business or "DBA" name. You may use either your SSN or EIN (if you have one).

⁴ List first and circle the name of the legal trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.)

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.



Part IV
Safety Documents as Required by Turner Construction

Safety Additional Provisions
North Branford Intermediate School Renovations & Additions
Dated 01/24/2008

A. Documents & Policies:

It is the intent of the Owner and its trade contractors that this document is intended to serve as the Safety Program at the North Branford in North Branford, CT and in accordance with the following documents and as further enumerated herein:

1. List of referenced forms and policies that are hereby specifically made part of the Contract Documents:
 - a. This Contractor to abide by all applicable Federal, State and Local Regulations for Safety including, but not limited to OSHA 1926 Rules for Construction, NFPA, ANSI and NEC.
2. General Requirements:
 - a. The Town of North Branford requires all Contractors to conduct their operations in a safe, workmanlike manner and in accordance with all applicable Federal, State and Local Regulations for Safety including but not limited to OSHA 1926 Rules for Construction, NFPA, ANSI and NEC.
 - b. The Construction Manager's responsibilities for coordination of safety programs shall not extend to direct control over or charge of the acts or omissions of the Contractors, Contractors, agents or employees of the Contractors or Contractors, or any other persons performing portions of the work and not directly employed by the construction manager.
 - c. This Contractor shall ensure that the hazards of all chemicals used on site are evaluated, and that the information concerning their hazards is transmitted to employees. This transmittal of information is to be accomplished by means of a comprehensive Hazard Communication program, which should include container labeling and other forms of warning, material safety data sheets and employee training.
 - d. This Contractor shall ensure that all its employees have been trained to recognize all hazards associated with the work they are expected to perform and have been provided information on how to prevent, avoid and/or mitigate such hazards that may arise.
 - e. This Contractor shall submit a site specific safety plan 10 days following verbal award for the project and this shall include all safety related to trenching, excavation, protection of leading edges, signage, PPE requirements for workers, equipment maintenance checks and all traffic control measures required for the project as required by their scope of work.
 - f. This Contractor shall have all employees providing manual labor trained in accordance with C.G.S: 31-53 b, which states," a) Each contract entered into on or after July 1, 2007, for the construction, remodeling, refinishing, refurbishing, rehabilitation, alteration or repair of any public building project by the state or any of its agents, or by any political subdivision of the state or any of its agents, where the total cost of all work to be performed by all contractors and subcontractors in connection with the contract is at least one hundred thousand dollars, shall contain a provision requiring that, not later than thirty days after the date such contract is awarded, each contractor furnish proof to the Labor Commissioner that all employees performing manual labor on or in such public building, pursuant to such contract, have completed a course of at least ten hours in duration in construction safety and health approved by the federal Occupational Safety and Health Administration or, in the case of telecommunications employees, have completed at least ten hours of training in accordance with 29 CFR 1910.268."

Safety Additional Provisions
North Branford Intermediate School Renovations & Additions
Dated 01/24/2008

B. Demolition - Contractors Performing Demolition Shall Abide by the Following:

1. This Contractor shall train and protect workers from the hazards of silica dust, fumes from combustion engines and any other air quality contaminants that may arise out of there work. Dust control measures must be effective at all locations at and around the jobsite.
2. This Contractor shall ensure structural stability of the structure being demolished if persons are to work within the structure and shall furnish, install and remove necessary material, including but not limited to shores in order to meet this requirement. An engineering survey of the structure shall be made by a qualified person to determine the condition of framing, floors and walls, and possibility of unplanned collapse of any portion of the structure. Contractor shall also perform same for any adjacent structures that may pose hazard to employees. This survey should be included in this Contractor's Site Specific Safety and Health Program.
3. All temporary shoring of walls must be engineered and inspected by the engineering party a minimum of two times when the shoring is in place. No additional cost will be accepted for this work.
4. Motorized vehicles like Bobcats that are utilized on existing floors of multi-story buildings must be restrained from potentially going off the side of the building. Restraints means can include wheel stops bolted into slab edge, cable restraints, etc, but must be engineered to demonstrate usefulness. System must be capable of physically stopping the equipment from going over the edge in the event of a mechanical or operator failure. Contractor to provide analysis to prove restraint system is adequate for intended means.
5. This Contractor shall provide necessary barriers as required to ensure that job personnel and members of the public are not struck by flying debris or dust emanating from demolition activities. Methodology should be described in the Contractors Demolition Plan. Dumpsters at the base of trash chutes shall be fully enclosed with chain link fence and shall include Warning Signage posted on fence alerting of Trash Chute area.
6. This Contractor shall provide necessary protection, whether existing or created by the Contractor, to prevent their employees and others from falling through holes, etc. Any hole or floor penetration 2 inches or greater in any dimension must be protected by a cover capable of supporting, without failure, at least twice the weight of employees, equipment, and materials that may be imposed on the cover at any one time. Covers shall be secured when installed so as to prevent accidental displacement by the wind, equipment, or employees. All covers shall be color coded or they shall be marked with the word "Hole" or "Cover" to provide warning of the hazard. If for any reason this Contractor has to remove a cover it is their responsibility to replace cover, re-secure and mark. Caution or Danger Tapes shall not be considered as acceptable barriers.
7. This Contractor shall promote a hearing conservation program to protect workers and others from significant occupational noise exposures. The hearing conservation program requires employers to monitor noise exposure levels in a way that accurately identifies employees exposed to noise at or above 85 decibels averaged over 8 working hours, or at an 8 hour time-weighted average (TWA).
8. This Contractor shall ensure task lighting be provided in areas that do not meet the OSHA requirement of 5 ft candles for general construction areas. This Contractor should not assume that temporary lighting will be provided by others.

Safety Additional Provisions

North Branford Intermediate School Renovations & Additions

Dated 01/24/2008

9. Contractor to also ensure hot work permits are filled out daily for any work that produces spark or flame. Contractor to follow instructions spelled out within permit. Fire watch is required at all hot work activities and shall extend 30 minutes beyond cessation of Hot Work Activities.
10. All selective demo activities need to be coordinated with the Owner. This includes all utility shut-downs.
11. This Contractor to include all costs necessary to provide the necessary electrical hook-ups for all their equipment which may require special connections beyond a simple 110 outlet connection. Any electrical work will fully comply with NFPA 70e and lock-out/ tag-out.
12. This Contractor shall provide for his own temporary power in the event no power is available on the premises.
13. In the event this Contractor is to provide rubbish removal chutes please include fall protection at each level within 6 feet of the chute dumping zone and also provide a means to close and secure (lock) access to the chute.
14. This Contractor to provide an 8'-0" high chain link surrounds to enclose the dumpster at the base of the trash chute. Mesh should be provided on the chain link and if space allows the foot print shall be at least 3 feet wider in each direction than that of the foot print of the dumpster intended for use. Please provide a gated access to allow for pick-up and delivery of the dumpster. Please provide at least 2 safety signs on the fence warning of the chute and material disposal area.

C. Blasting - (If Required)Contractors Performing Blasting Shall Abide by the Following:

1. This contractor shall perform a pre-blast survey in accordance to the terms of their insurance company and include in their Site Specific Safety and Health Program.

D. Sitework - Contractors Performing Sitework Shall Abide by the Following:

1. This contractor shall excavate all trenches assuming in accordance to OSHA standards for construction.
2. This Contractor to provide snow removal at all contractor parking areas, trailer areas, and key lay down areas. Removal to include and at least 2 traversable paths of egress into each building, new or existing, that is affected by construction activities, for the duration of the project. Removal must be continuous from all parking areas to the access paths or walkways into the building(s).
3. This Contractor shall ensure the grade differential between the ground floor slab and rough grade is no more than 10 inches below finish floor elevation during all phases of construction.
4. This Contractor shall provide anti-tracking pads and tire wash stations at all entrances and exits from the jobsite. Each anti-tracking pad shall be at least 15 feet wide by 30 feet long and shall be made of coarse aggregate or bluestone. Tracking pads as defined by the site logistics plan or site improvement plan will prevail if more stringent than this requirement or if the area is required to be greater in size. High pressure hoses shall be provided at each location for tire washing purposes. This Contractor shall ensure the appropriate manpower available to ensure all vehicular traffic is washed at these locations before entering onto municipal streets. These areas must be isolated from coming in contact with any soil remediation areas.

Safety Additional Provisions

North Branford Intermediate School Renovations & Additions

Dated 01/24/2008

5. This Contractor shall ensure that all existing storm and sewer drains which may be affected by sitework activities are protected from infiltration of mud or silt in accordance with the terms of the contract documents. Muddy runoff cannot enter existing storm water systems.
6. This Contractor will be required to maintain a concrete wash out area and will be responsible for removing all surplus concrete from the job site in accordance with green building requirements.
7. This Contractor shall ensure safe access in and around all footing areas. If trenches are to be traversed please ensure that walkways are at least 18 inches wide and are secured together when using to planks to make up the required width. If the travel height of the walkway exceeds 6 feet vertically this Contractor will install guardrails to prevent falls from same walkway.
8. This Contractor shall verify the presence of all existing underground utilities that may be affected by their work. This includes all excavations within the property line and job site footprint. This contractor will contact call before you dig for work outside of the property limits. For areas not covered by call before you dig, this Contractor shall use an independent contactor to identify location and depth of all existing underground utilities within all areas of excavation or disturbance. This Contractor shall transfer this information onto a drawing immediately after the survey to retain this information, plan as well as section.
9. This Contractor shall verify soil stability with geotech for the purposes of creating suitable crane pads. This Contractor to coordinate crane pad requirements with those Contractors who will be utilizing cranes on the project.
10. This contractor shall provide dust control for the site during the entire construction period.
11. This Contractor shall provide traffic control as necessary for on site work and for all road or utility work in roads including the cost of any police for same.
12. This Contractor shall provide, install and maintain temporary construction fencing around all overnight excavations and disturbed areas throughout the construction project and shall reconfigure the same during the different phasing of the project. This Contractor shall include removal and replacement of any site fencing during this Contractor's demolition work and any site excavation or installation work required by this contract and the construction documents.
13. This Contractor shall provide, install and maintain the required signage on the exterior of the site fencing required for public safety at reasonable intervals.

Quantity: 2

Description: Site safety Signs – painted aluminum with black letters on safety yellow background – size 3' x 4' to be mounted on two posts. Sign shall read as follows:

North Branford Intermediate School Project

- All Visitors/ New Employees shall report to Turner Construction Trailer Upon Arrival
- Site Speed Limit – 10 Miles Per Hour
- Hardhats and Safety Glasses required on site at all times
- No Smoking on Site

Safety Additional Provisions
North Branford Intermediate School Renovations & Additions
Dated 01/24/2008

E. Structural Concrete - Contractors Performing Concrete Work Shall Abide by the Following:

1. All formwork scaffolding and systems scaffolding Fall Protection shall be installed in accordance to manufacturer's recommendations. Anchorage points to be verified by a PE when attaching to the scaffold structure itself. Manufacturer must confirm acceptability.
2. This Contractor shall form all mechanical openings and shafts less than 3 feet by 3 feet in area and provide and maintain plywood covers that are installed flush with the finish floor. These covers to remain in place until final work is installed within these openings. Coordination will be required with this Contractor and the MEP trades so this contractor when directed will remove and dispose of all covers. This Contractor will be responsible for providing temporary covers at structural steel column diamond box outs both before steel is installed and after as well. This Contractor to maintain these covers until such time steel is finished and final concrete infill may be placed.
3. All floor openings greater than 2" in the least dimension must be covered securely and be able to support twice the load of any equipment, employees or materials. If plywood is used, these covers are to be secured to the top of the opening forms or box-outs and are to be installed flush with the finished floor. The forms and box outs which support the covers must be secured into the side of the slab so when the bottom formwork is removed these covers will remain securely in place. Covers to remain in place until opening is ready to be filled with final work. Cover removal to be done by others. Each plywood cover to be clearly marked "HOLE – DO NOT REMOVE" and be firmly secured from displacement. All covers shall be capable of supporting without failure at least twice the weight of employees, equipment or materials that may be imposed on the cover at any one time.
4. This Contractor will be required to furnish means to protect adjacent/surrounding buildings, property and personnel from concrete splatter, concrete curing agents, additives, form oil or any other deleterious substance emanated all tasks associated with concreting, including but not limited to the conveyance, handling and finishing of concrete.
5. Multiple lift rigging is not allowed for bundles of rebar and mesh or anything other than structural steel framing members.
6. This contractor shall provide within 8 hours of pan stairs being completed by iron worker, either poured concrete or temporary wood in-fills until permanent concrete is established in pan stairs. This Contractor shall provide temporary protection via barriers and signs of the stairs until the temporary in-fills have been installed. This Contractor shall maintain and remove all wooden infill and temporary railings. Styrofoam hardboard will not be acceptable as infill material for stair pan treads. Caution or Safety Tape is not considered an acceptable barrier. It will be the onus of this Contractor to ensure that all workers installing temporary stair rails or guardrailing are protected from falling during this work. This Contractor shall provide access to stairways during construction including temporary wood hand railings as required.
7. This Contractor and its Contractors (rod busters) shall eliminate impalement and puncture hazards attributable to exposed rebar. This Contractor shall provide, maintain and remove all necessary rebar impalement protection.

Safety Additional Provisions

North Branford Intermediate School Renovations & Additions

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8. This Contractor shall provide daily clean up and removal of surplus concrete piles from within the building and jobsite immediately following concreting operations. This Contractor shall provide at least 2 means of temporary access to each upper level until permanent stairways have been installed and shall remove and dispose of same. Job made wooden gang ladders are acceptable and shall be constructed in accordance with ANSI A 14.4-1979. Wooden gang ladders are NOT to be constructed using double headed nails. Contractors are to provide an offset guardrail at the ladders upper landings to prevent people from walking off the edge by the ladder opening. Scaffolding towers are also acceptable. Contractor will be required to make safe opening in the existing perimeter railing system ensuring that no gaps exist between the existing rails and the new access system.
9. This Contractor shall ensure safe access in and around all footing areas. If trenches are to be traversed please ensure that walkways are at least 18 inches wide and are secured together when using to planks to make up the required width. If the travel height of the walkway exceeds 6 feet vertically this Contractor will install guardrails to prevent falls from same walkway. FORMWORK is not to be used for any type of walkway, ladder, scaffolding or any other type of support platform other than the intended use for which it was manufactured.
10. This Contractor shall provide temporary portable generators or other power supply sources for their use until such time the temporary power has been brought to the site by others. Temporary portable power sources being used must be GFCI protected.
11. All workers on the stripping floor that are exposed to falls greater than six feet must be tied off with a proper fall protection system. The same will apply to any worker doing re-shore or safety cable work. There will be zero tolerance for workers not tied off. A monitor system is not acceptable in lieu of tying off.
12. "Safe T Strap" system or other equivalent engineered embeds must be provided by this Contractor at each exterior column and all interior shafts and hoist ways as an anchorage point. This strap will be used by all contractors performing perimeter work and for the stripping gang while stripping the outside face of columns and/or shear walls. Each Contractor will be responsible for visibly inspecting each tie off point before using. Workers intending to utilize these straps will need to be trained in fall protection and must inspect each strap prior to using.
 - a. All anchorage points will be engineered and stamped by a licensed professional engineer or provide manufacturers endorsement or product specifications confirming product will meet the anticipated duty..
 - b. All anchorage points, including "Safe T Straps" shall be left in place and removed by the ceiling contractor.
13. During forming operations all workers required to be on the floor deck must be protected from a fall per OSHA. This contractor shall work with a licensed professional engineer to devise suitable tie-off points on the deck as it is being installed. The only exception to this is that during a 2 day pour cycle project, the following must apply:
 - a. The anchorage points and system for tie off must be reviewed by a Registered Professional Engineer and stamped as such.
14. This Contractor shall provide temporary protection during the course of his operation as follows:
 - a. Furnish, install and maintain all OSHA required perimeter protection at the building perimeter and leading edge consisting of a toe board, and OSHA compliant railings. In addition, provide embedded inserts in the perimeter columns at 60" for use by another Contractor to install vertical netting.

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15. This Contractor must provide temporary protection on floors where concrete is being poured or forms are being stripped until such time that the more permanent temporary protection is provided (guardrails at the building perimeter, platforms at elevator shafts, ladders, railings at stairs, etc.).
16. This Contractor shall ensure the all openings ¼ inch or greater are covered around columns and mechanical openings to prevent concrete from falling down to lower levels.
17. Safety rails (top, mid and kick) must be in place prior the bulk of the concrete gang and subsequent trades entering the working deck. Additionally, a system of your choosing must be implemented so as to avoid exposing any concrete worker to a fall greater than 6' while erecting the working and stripping any deck.
18. This Contractor will be required to provide ladder and site specific fall protection training for all workers engaged in using personal fall arrest systems.
19. All concrete conveyance systems to be inspected at least weekly or before all operations including temporary concrete pump standpipes. These inspections are to be documented and kept on file at the jobsite by this Contractor.
20. This Contractor will be responsible for barricading off the erection and stripping floor from the rest of the job population. It is this Contractor's responsibility to control material from falling and striking its workers as well as others working on the site.
21. Respiratory protection must be provided during the grinding of concrete and means provided to the spread of concrete dust.
22. This Contractor will be responsible for providing temporary covers at structural steel diamond box outs. This Contractor to maintain these covers until such time steel is finished and final concrete infill placed.
23. This Contractor shall provide means to protect employees and others from concrete curing/sealant spray.

F. Masonry - Contractors Performing Masonry Shall Abide by the Following:

1. If this Contractor intends to use its scaffolding Personal fall Arrest System anchorage in conjunction with fall protection, the scaffold manufacturer will need to provide documentation certifying conditions and terms for using scaffold structure as an anchorage point. Additionally, fall protection must be used when servicing mortar silos.
2. Scaffold guardrails to be installed with orange mesh or site fence firmly secured over the top-rail extending down and secured to the planking or toe board. This is to be installed as falling object protection.
3. Stair towers are the required method of scaffold access. Others means such as ladders will be acceptable only when stair towers are not practical. Fall protection must be provided at all scaffold access points by temporary gates, offset guardrails or other means to eliminate the fall hazard at access opening.
4. Mortar tubs and other materials are prohibited from being landed on scaffold bracket support platforms. Contractor will be required to construct a separate scaffold bay/section bump out for which to receive material on. Worker must be protected from falling should top or mid rails be removed when landing material on the scaffold structure.
5. Face shields required when cutting block with wet saw or portable saw.

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6. LPG not to be stored in the building. This Contractor shall provide LPG storage containers in an area coordinated with the Owner.
7. Mixer staging areas if elevated above 2 feet must have guard rails and stairs for access. All guards to mixers must be in place.

G. Structural Steel & Miscellaneous Metals - Contractors Performing Structural Steel and Miscellaneous Metals Work Shall Abide by the Following:

1. This Contractor shall at the end of each day inspect all installed items to insure that they are left in a safe manner and secured against weather. This Contractor shall note load requirements and procedures pertaining temporary installation of Structural Steel, such as number of bolts required, and etc.
2. The Structural Steel Contractor shall design and install a roof tie-off system to be utilized by other trades/owner once the perimeter fall protection is removed. Posts every 25' capable of supporting 3 workers.
3. It is the Structural Steel Contractors responsibility to detail and fabricate beam connections and column splices for safe erection as outlined in OSHA 1926, Subpart R, Section 1926.756 (c)(1). Include all costs for engineering and detailing as required.
4. This Contractor shall coordinate with the Concrete Contractor and Testing/Inspection Company to insure cast-in-place concrete has reached a minimum of 75% of the required design strength before connecting steel to that specific location.
5. This Contractor will ensure that Hot Work Permits are filled out for any work activity that produces spark or flame. Contractor to follow instructions spelled out within permit. At a minimum the Contractor shall provide a 10# ABC fire extinguisher at the location of the Hot Work. Using the jobsite general duty fire extinguishers is not permitted. Firewatch shall be provided at all times during Hot Work and shall continue at least 30 minutes after cessation of Hot Work activities.
6. This contractor shall protect surrounding structures and personnel in below areas from being contacted with Hot Slag and barricade. It is expected that this Contractor will provide necessary barricades and signage to protect workers below from being exposed to this hazard.
7. This Contractor to ensure that workers are adequately protected from sharp surfaces encountered during their work. This Contractor is responsible for providing employees appropriate personal protective equipment to guard against lacerations. All workers installing miscellaneous metal to wear gloves during their operation or any other operation putting them at risk to lacerations.
8. This Contractor shall coordinate removal of all leading edge protection with the General Trades Contractor as required to complete their scope of work.

H. Spray-on Fire Protection – Contractors performing Spray-on Fire Protection Work shall Abide by the Following:

1. This Contractor shall protect adjacent surfaces from overspray.
2. This Contractor shall clean floor surfaces immediately if material is dropped on floor.

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I. Curtainwall, Metal Panel and Precast Exterior Walls Systems - Contractors engaged in either Curtainwall, Metal Panel or Precast Exterior Wall Systems Shall abide by the Following:

1. This Contractor is responsible to ensure that the perimeter protection of each floor that is affected by their work be maintained on a daily basis. If Guardrails systems need to be dropped or removed to install the work this Contractor must ensure that they protect the floor edge by replacing the guardrails or installing new ones. Open sided floors cannot be left unattended at any time. Fines will be issued to the Contractor should they leave perimeter protection down or when they have left the area with the protection down.
2. This Contractor will coordinate removal of temporary exterior perimeter guardrails with General Trades Contractor once the finished exterior wall has been put in place. Removal to be by General Trades Contractor.
3. Contractor to provide proof of employee safety training for scaffold systems they will use to perform their work. Contractor also to provide plans and manufacturer specifications for the scaffold systems they intend to use on the project. Be sure to detail capacities of systems and weights of materials to be installed, including rigging and installation methodologies.

J. Drywall, Ceilings & General Trades - Contractors Performing Drywall, Ceilings and General Trades Shall Abide by the Following:

1. This Contractor to ensure that drywall is stored flat and not leaning vertically against any surface. It is expected that the drywall stacks will be stored on dollies to allow for portability. In lieu of dollies this Contractor may utilize pallet jacks to ensure portability of drywall.
2. This Contractor to investigate and review floor capacity prior to loading floor with sheetrock and provide a loading plan. Loading plan must be reviewed and approved by the structural engineer prior to delivery
3. This Contractor to ensure that workers utilizing or within 10 feet of a steel cutting chop saw are hearing protected. Hot work permits are also required when using a chop saw. Area surrounding chop saw shall be cleared of flammable and combustible material. Spark arresting material or back stop required behind chop saws or any tool that expels sparks.
4. Temporary wooden guardrails are to be furnished, installed and maintained at all stairway, floor perimeter and shaft open side of floor locations greater than 3' x 3', by this Contractor, at all phases of concrete construction, both before and after forming operations on a structural concrete building. Perimeter railing systems will be removed by those installing the final work at these locations. These types of railings will be the responsibility of the steel erector on structural steel buildings. All guardrail systems to be covered with orange mesh at all locations.
5. This Contractor shall cast 3 x 3 steel angle posts into the slab surrounding all elevator, stair and shaft openings of size 3 x 3 or greater. These angles are to be complete with punched holes ready to receive guardrail and mid-rail cables that will need to be located 42 and 21 inches AFF respectively. Be sure to coordinate enough length into the slab in order to maintain rail height at the finish floor level. This Contractor to install the cables into the posts and they shall be terminated by 3 appropriately sized wire rope clips. Minimum allowable cable size will be 3/8ths only if aircraft rated cable is used, if not 1/2" steel cable is acceptable. All guardrail systems to be covered with orange mesh at all locations.

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6. Immediately upon completion of each level of decking, the General Trades Contractor is to furnish and install a complete safety cable system to be used as perimeter, interior shaft, and stairwell fall protection in accordance with all local, state and Federal OSHA regulations. Contractor at a minimum will provide and install two (2) safety cables with stanchions around entire perimeter of all levels (including first floor level), roofs, and other openings. The perimeter cable system is to include turnbuckles spaced at no more than every five (5) columns. This Contractor is to maintain this fall protection on a daily basis until Work is complete. Removal and disposal of safety cabling systems by this Contractor. Coordinate removal with other trade contractors' work. This Contractor to incorporate four (4) material loading areas independent of perimeter protection with removable cables and tie-off points for three (3) workers.
7. This Contractor shall carry an allowance in its budget for 200 lineal feet for the installation and removal of wooden guardrail systems, to be installed at locations determined by the Town of Greenwich. Guardrail systems shall be capable of withstanding a 200 lb. force in any directions and shall be made in compliance to OSHA standards. Guardrail system shall include a top-rail, mid rail and toe board.

K. All Finish Trades - Contractors Performing Finish Work Shall Abide by the Following:

1. Contractor to also ensure all guards are maintained on equipment at all time. Table saws must be outfitted with guards or will not be permitted on site.
2. This Contractor shall ensure proper disposal and removal of all flammable or combustible materials including but not limited to rags, brushes, etc immediately after they have been used.
3. This Contractor shall also comply with all requirements set forth in OSHA 1926.152 Flammable and combustible liquids. Proper storage of paints or any strippers/thinners shall be followed. Refer to standard for specific quantities and storage requirements.
4. This Contractor shall provide the proper air exchange system during the installation of paint finishes as required due to the existing building being under negative pressure. This system shall be exhausted out the existing penetrations at the facility.

L. Roofing - Contractors Performing Roofing Shall Abide by the Following:

1. All flammable and combustible materials including but not limited to mop heads and solvent covered rags will be removed from the site each day. Flammable/combustible materials will be properly stored in accordance with OSHA standards.
2. This Contractor shall provide all necessary mean to prevent material from falling off the roof. Falling object protection below will be the responsibility of this Contractor.
3. This Contractor shall coordinate removal of perimeter roof protection with General Trades Contractor. Removal shall be by General Trades Contractor.

M. Fire Protection - Contractors Performing Fire Protection Work Shall Abide by the Following:

1. Contractor to also ensure slip, trip and fall hazards are controlled by means such as barricades or cleaning oil from materials used on site. Materials to be stored in a workmanlike manner.
2. This Contractor is to control water used in pressure testing at all times. Water will not be allowed dumped out onto the building floors.

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N. HVAC/Plumbing - Contractors Performing HVAC/Plumbing Work Shall Abide by the Following:

1. Contractor to also ensure hot work permits are filled out for any work that produces spark or flame. Contractor to follow instructions spelled out within permit. At a minimum the Contractor shall provide a 10# ABC fire extinguisher at the location of the hot work. Using the jobsite general duty fire extinguishers is not permitted.
2. Contractor to provide proper storage of materials via storage carts and designated areas.
3. Contractor also to provide proper weather protection of ductwork. Ductwork to be protected from moisture.
4. This Contractor shall provide necessary protection to prevent their employees and others from falling through holes, etc. Any hole 2 inches or greater in any dimension must be protected by a cover capable of supporting, without failure, at least twice the weight of employees, equipment, and materials that may be imposed on the cover at any one time. Covers shall be secured when installed so as to prevent accidental displacement by the wind, equipment, or employees. All covers shall be color coded or they shall be marked with the word "Hole" or "Cover" to provide warning of the hazard. If for any reason this Contractor has to remove a cover it is their responsibility to replace cover, re-secure and mark. Caution or Danger Tapes shall not be considered as acceptable barriers.
5. This Contractor is to control water used in pressure testing at all times. Water will not be allowed dumped out onto the building floors.

O. Electrical - Contractors Performing Electrical Work Shall Abide by the Following:

1. This Contractor shall install temporary power that complies with all applicable requirements set forth in Subpart K (Electrical) of the OSHA construction standards including Lockout/tagout requirements referenced in 1910.147.
2. This Contractor shall also provide temporary lighting that meets the requirements set forth in OSHA 1926.56 (a) and (b).
3. This Contractor to perform all work in accordance with the current edition of NFPA 70E.

Part V
Reference Drawings



NORTH BRANFORD INTERMEDIATE SCHOOL

654 FOXON RD

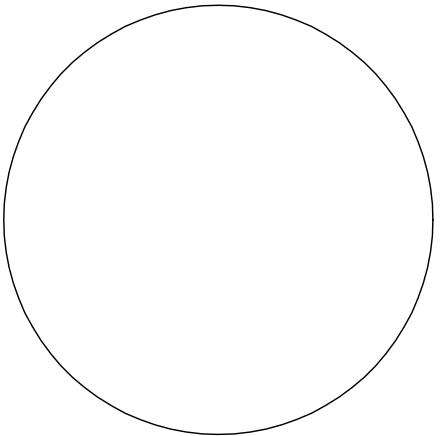
NORTH BRANFORD, CT 06471



Innovative Engineering Systems, LLC
Technology Integration
40 Thompson Street, Suite 400
North Branford, CT 06471
Tel: 860.467.1234 Fax: 860.467.1235

10 West State Street, Suite 100
North Branford, CT 06471
Tel: 860.467.1234 Fax: 860.467.1235

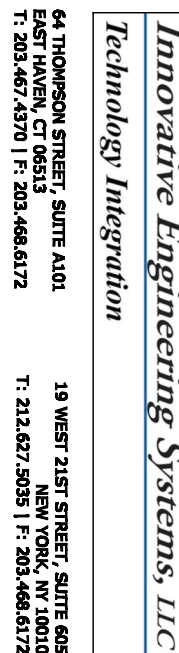
NORTH BRANFORD
INTERMEDIATE SCHOOL
654 FOXON RD
NORTH BRANFORD, CT 06471



NOTES :

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DRAWING NO.

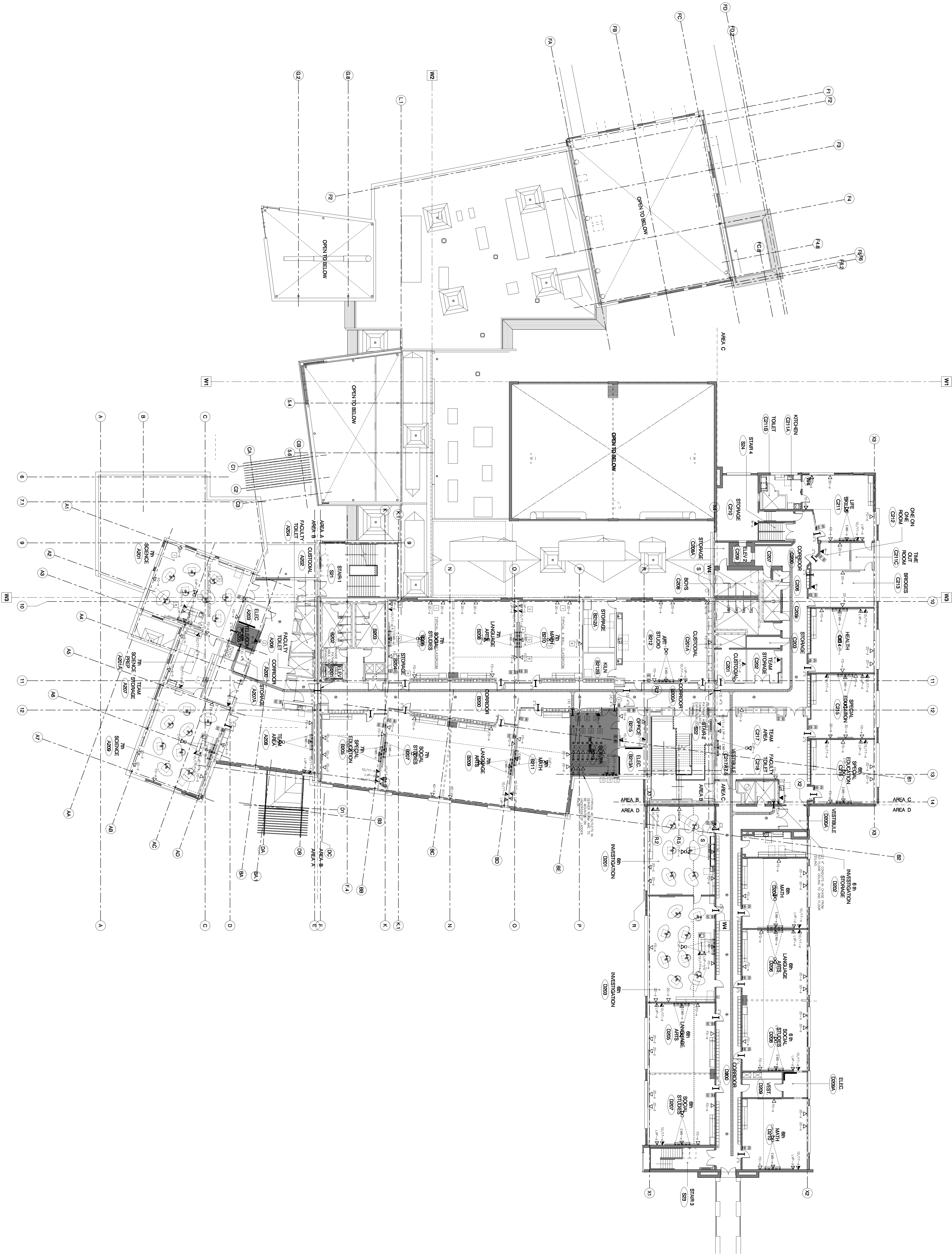
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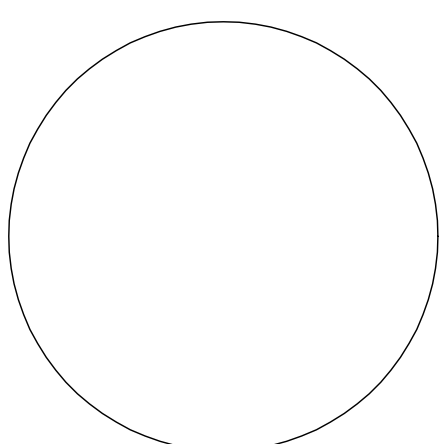
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DATE :	04/24/2009
IES JOB NO.:	B09005
DRAWING NO.	



44 Thompson Street, Suite 404
North Branford, CT 06358-4672
Tel: 860.466.4173 Fax: 860.466.4174
13 West 24th Street, Suite 404
North Branford, CT 06358-4672
Tel: 860.466.4173 Fax: 860.466.4174

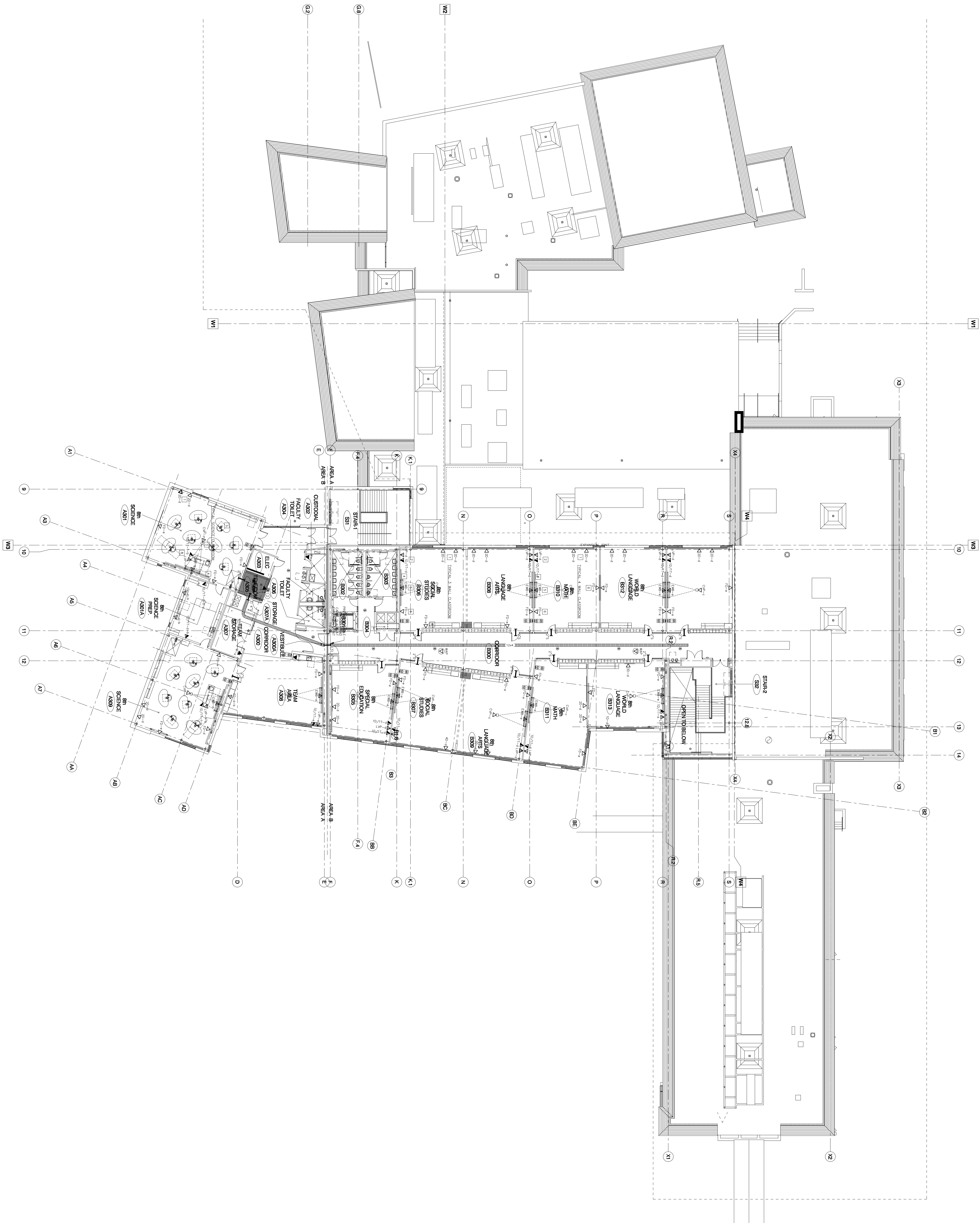
NORTH BRANFORD INTERMEDIATE SCHOOL 654 FOXON RD NORTH BRANFORD, CT 06471



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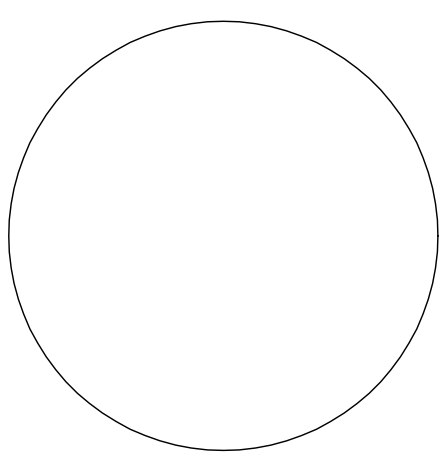
SECOND FLOOR

DATE : 04/24/2009
IES JOB NO. : B09005
DRAWING NO. : T-2.0



44 Thompson Street, Suite 401
North Branford, CT 06358-4012
Tel: 860.735.1300 Fax: 860.735.1301
19 West 24th Street, Suite 400
North Branford, CT 06358-4000
Tel: 860.735.1300 Fax: 860.735.1301

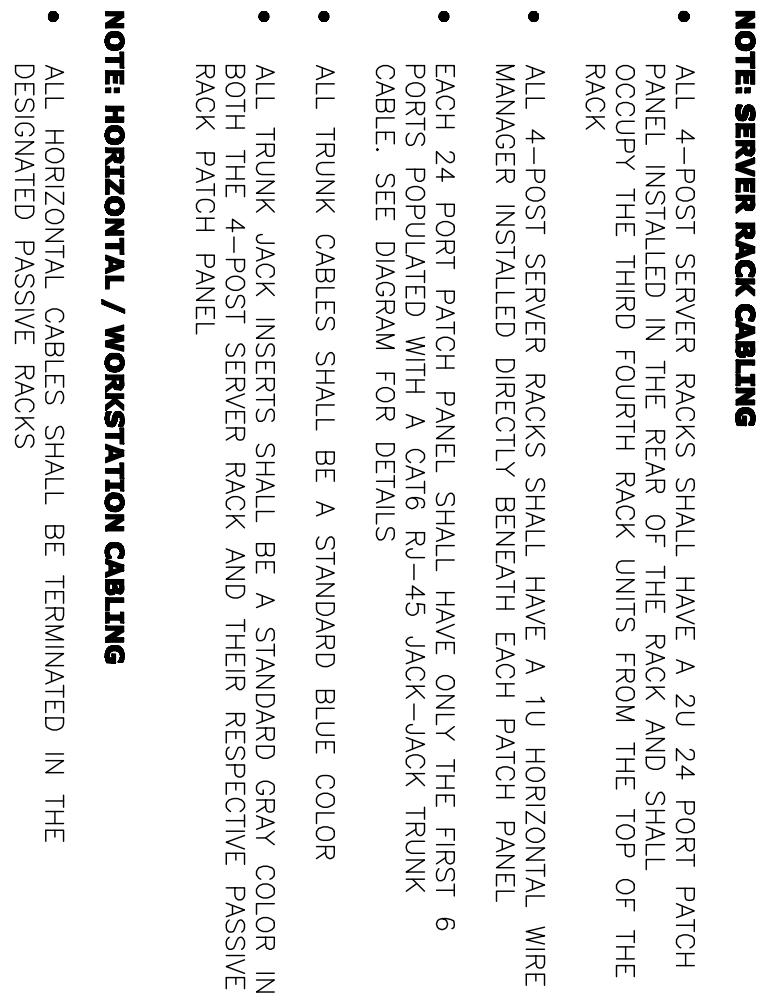
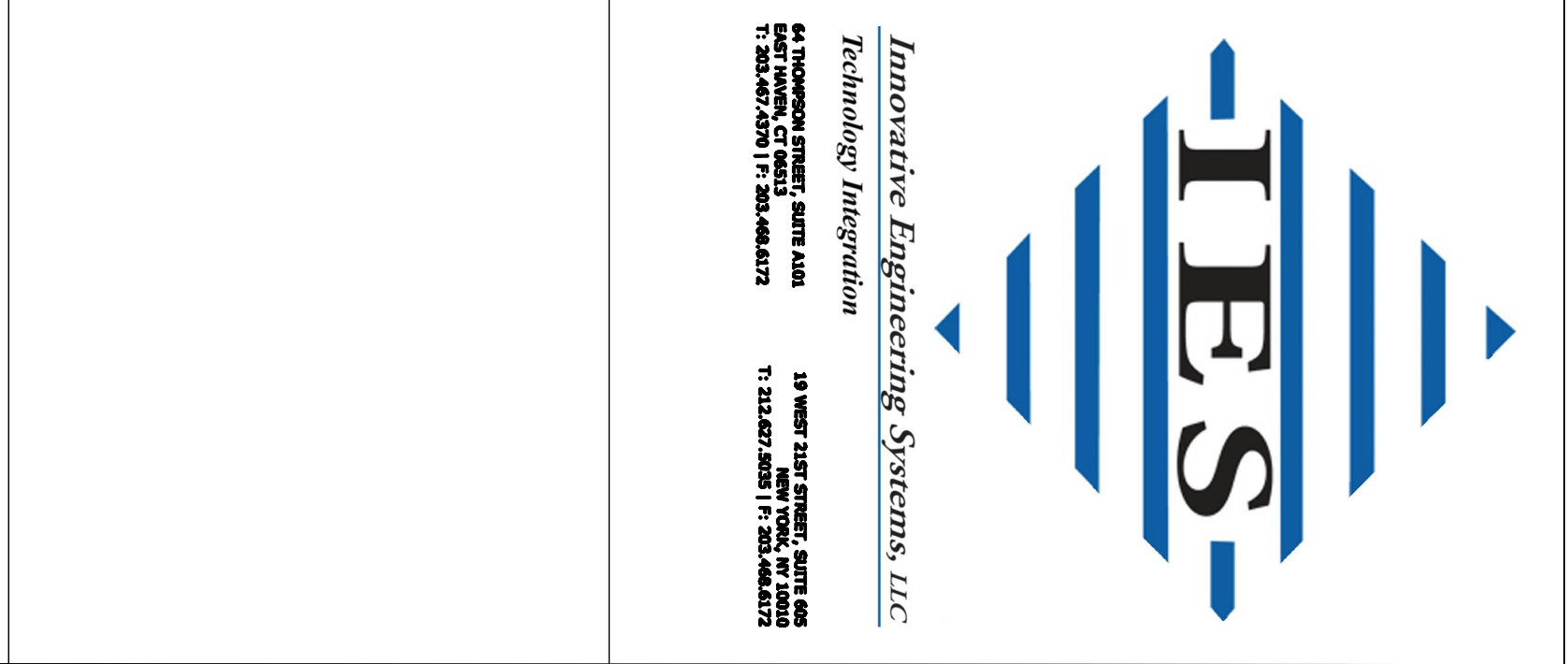
**NORTH BRANFORD
INTERMEDIATE SCHOOL**
654 FOXON RD
NORTH BRANFORD, CT 06471



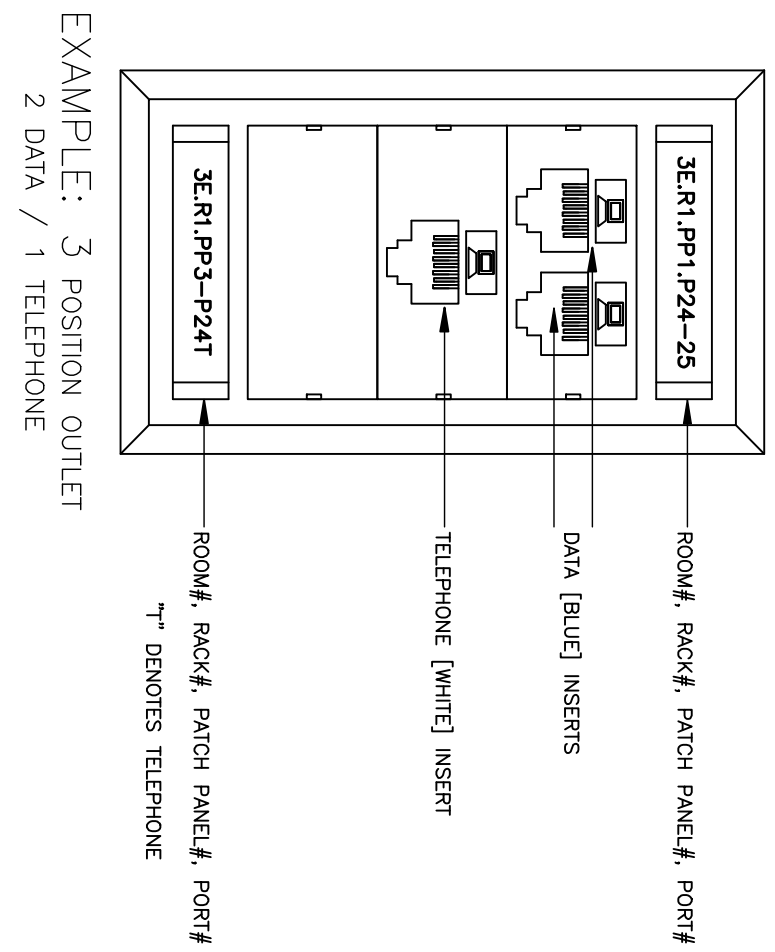
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THIRD FLOOR

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RACK ELEVATIONS, WALL OUTLETS & FLOOR JACK SCHEMATICS

- DATE: 04/24/2009

DATE: 04/24/2009

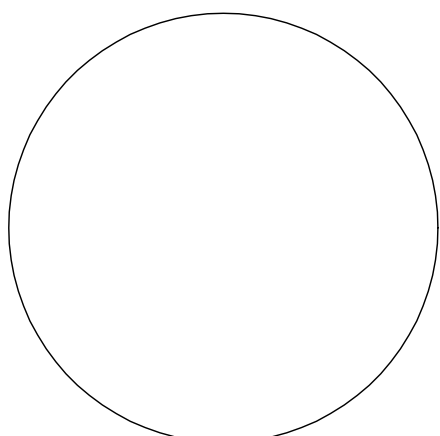
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Innovative Engineering Systems, LLC
Technology Integration
44 Thompson Street, Suite 404
North Branford, CT 06471
Phone: 860.735.3848
Fax: 860.735.3849
Email: info@ies-llc.com

**NORTH BRANFORD
INTERMEDIATE SCHOOL**
654 FOXON RD
NORTH BRANFORD, CT 06471

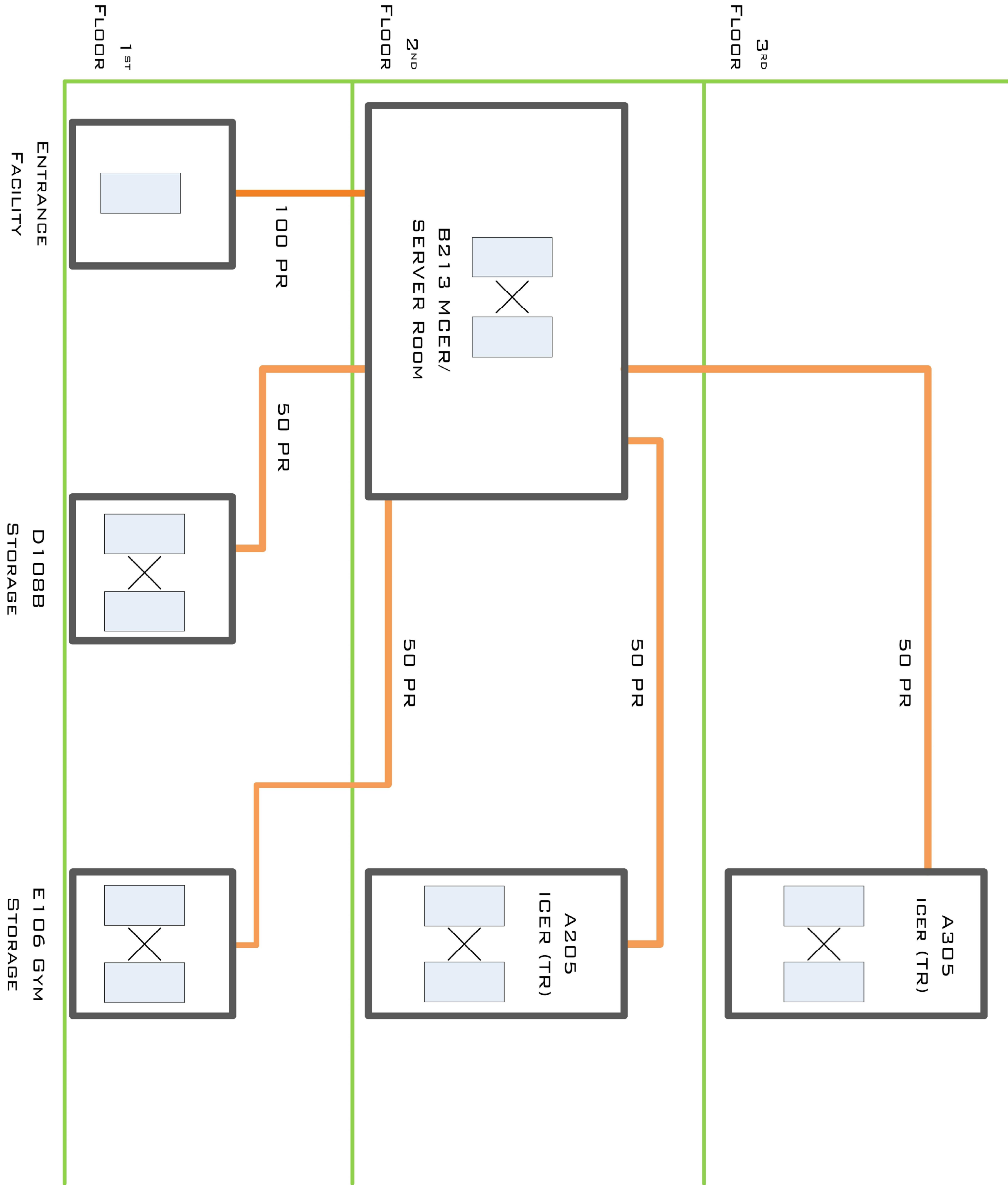
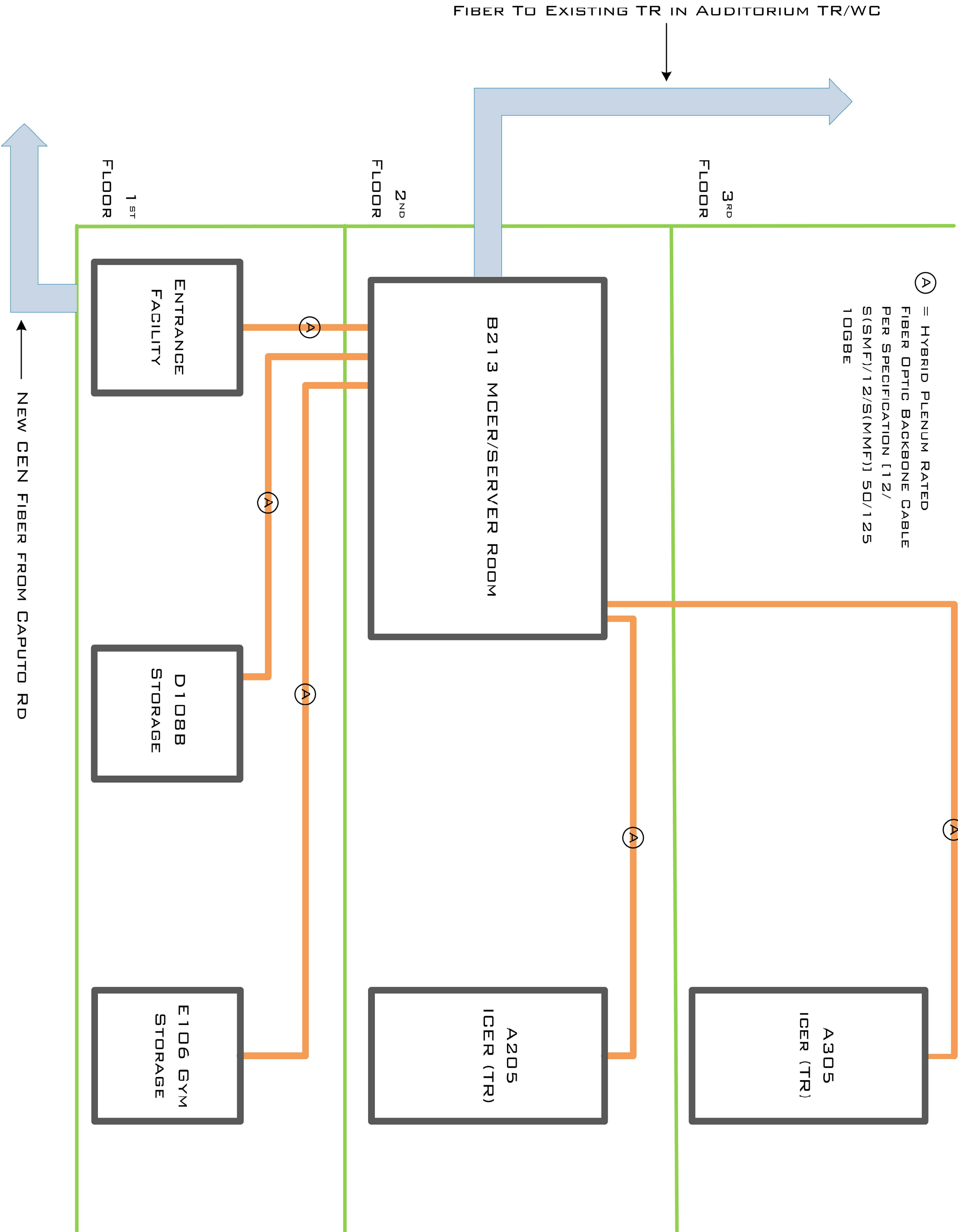


- NOTES :
- DRAWING FOR REFERENCE ONLY
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RISER DIAGRAM

DATE : 04/24/2009
IES JOB NO. : B09005
DRAWING NO.

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Part VI
Anticipated Milestones & Installation Schedule

Anticipated Milestones & Installation Schedule

Bid Award – June 1, 2009

Start Cable “Rough-In” – June 5, 2009

Completion of Fiber Backbone / Riser extension from High School Auditorium TR – June 15, 2009

Completion of Fiber Backbone / Riser – June 19, 2009

Completion of MCER / Server Room – June 30, 2009

Completion of all Horizontal Cabling and ICER rooms – July 17, 2009

Testing and Final Documentation – July 24, 2009

Punch List Review – July 27, 2009

Turnover to Town of North Branford – August 1, 2009



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Excellent 750-840

Good 660-749

Fair 620-659

Poor 450-619

I Don't Know ???

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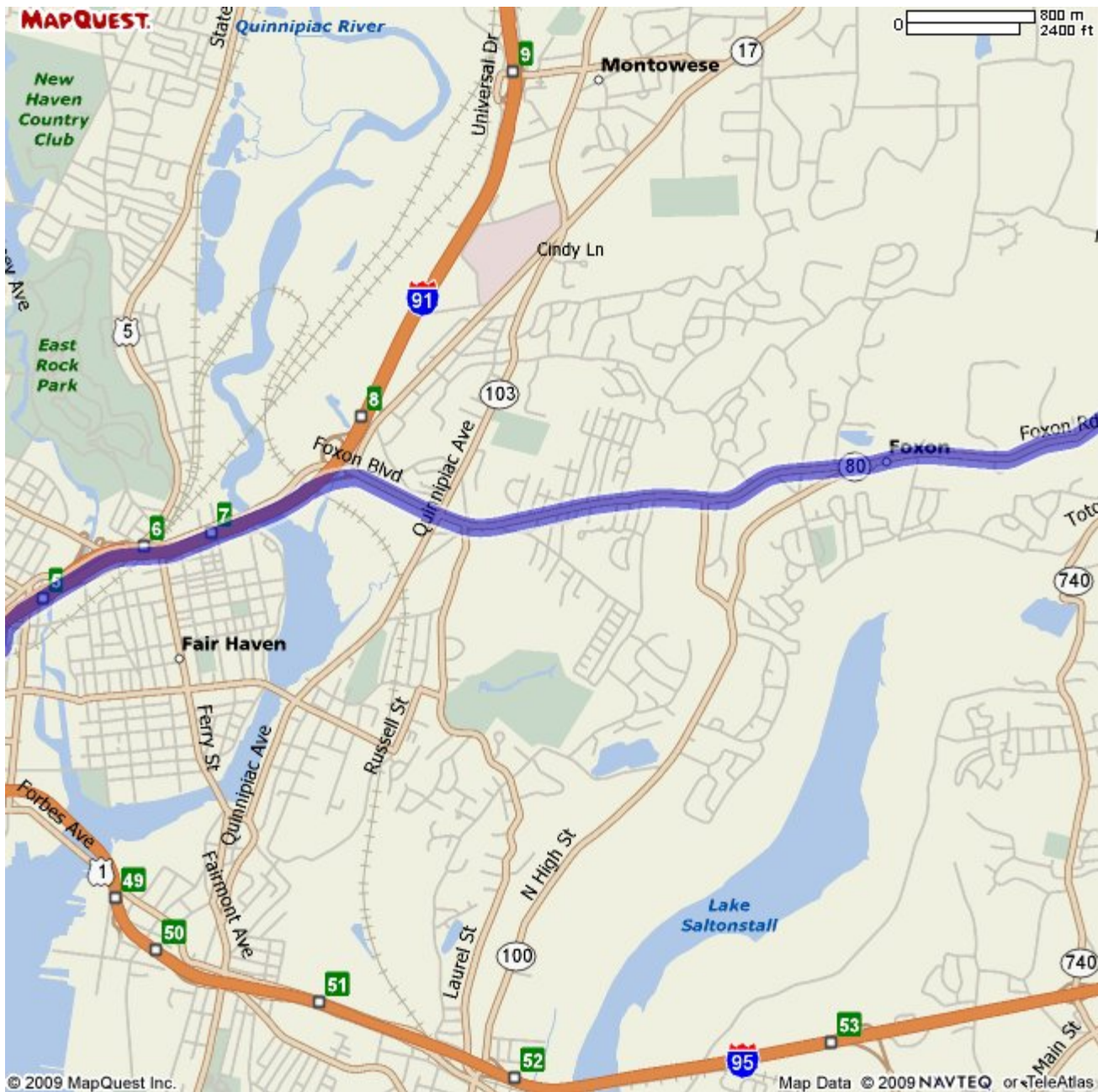
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A: New Haven, CT

	1: Start out going SOUTHWEST on COLLEGE ST toward CHAPEL ST.	0.0 mi
	2: Turn LEFT onto CHAPEL ST.	0.4 mi
	3: Turn LEFT onto STATE ST/US-5 N.	0.5 mi
	4: Merge onto I-91 N toward HARTFORD.	2.0 mi
	5: Take the CT-80 exit, EXIT 8.	0.2 mi
	6: Turn SLIGHT RIGHT onto FOXON BLVD/CT-80. Continue to follow CT-80.	4.4 mi
	7: End at 654 Foxon Rd North Branford, CT 06471-1146	

B: 654 Foxon Rd, North Branford, CT 06471-1146

Total Time: 16 minutes Total Distance: 7.54 miles



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