

## **REQUEST FOR PROPOSALS**

NOTICE IS HEREBY GIVEN; that the Undersigned, on behalf of the Essex County Board of Supervisors, will accept sealed proposals at the Office of the Purchasing Agent until June 15, 2012 at 2:00 P.M. for Radio Communications System Equipment Shelters.

Specifications are available by contacting the Office of the Purchasing Agent, Linda M. Wolf, CPA, Government Center, 7551 Court St., Elizabethtown, New York 12932 or by calling 518-873-3332. Specifications are also available on the website at: [www.co.essex.ny.us](http://www.co.essex.ny.us).

All proposals submitted in response to this notice shall be marked "SEALED PROPOSAL – RADIO COMMUNICATIONS SYSTEM EQUIPMENT SHELTERS" clearly on the outside of the envelope.

In addition to the proposal, the proposer shall submit executed non-collusion bid certificates signed by the proposer or one of its officers as required by the General Municipal Law Sec. 103d.

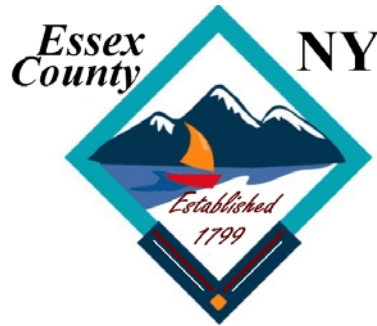
The successful proposer will be notified promptly by letter and must be prepared to enter into a contract to furnish the materials or services.

Essex County reserves the right to reject any and all proposals not considered to be in the best interest of Essex County, and to waive any technical or formal defect in the proposals which is considered by Essex County to be merely irregular, immaterial, or unsubstantial.

PLEASE TAKE FURTHER NOTICE that Essex County affirmatively states that in regard to any contract entered into pursuant to this notice, without regard to race, color, sex, religion, age, national origin, disability, sexual preference or Vietnam Era veteran status, disadvantaged and minority or women-owned business enterprises will be afforded equal opportunity to submit bids in response hereto.

Dated: May 23, 2012

Linda M. Wolf, CPA  
Purchasing Agent  
Essex County Government Center  
Elizabethtown, New York 12932  
(518) 873-3332



# **Essex County, New York Request for Proposals For**

**Public Safety Radio Communications System  
Equipment Shelters**

**May 23, 2012**

**Essex County Purchasing Department**

**Linda Wolf, Purchasing Agent**

**7551 Court Street**

**Elizabethtown, NY 12932**

**518-873-3332**

**[lwolf@co.essex.ny.us](mailto:lwolf@co.essex.ny.us)**

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## **1. General**

Essex County, New York (County), solicits, through this Request for Proposals (RFP), qualified vendors (VENDOR) to supply radio communication systems equipment shelters (shelters) and other associated components for the proposed Essex County Public Safety Radio Communication System.

The County will enter negotiations to contract with a VENDOR whose proposal, in the judgment of the County best serves the County's needs considering the following factors:

- Cost to the County
- VENDOR warranty
- VENDOR performance guarantees
- Financial viability of the VENDOR

Trade secrets or proprietary information submitted by a VENDOR in connection with a procurement transaction shall not be subject to public disclosure under the New York State Freedom of Information Act. However, the VENDOR must invoke the protection of this section prior to or upon submission of the proposal response information. The VENDOR must also identify the specific content or other materials requiring protection and state the reasons why protection is necessary. Disposition of material after award(s) is/are made should be stated by the VENDOR.

### **1.1 *Submission of Proposals***

Proposal submissions must be received no later than 2:00 PM on June 15, 2012 and shall be submitted to:

Linda M. Wolf  
Purchasing Agent  
Essex County Government Center  
Elizabethtown, New York 12932

Three copies of each proposal must be received in a sealed package with the designation "SEALED PROPOSAL – Radio Communications System Equipment Shelters" conspicuously marked on the outer envelope. All proposals will be opened

and logged in on the above stated date and time. All proposals submitted will be a matter of public record.

## **1.2 Proposal Format**

All proposals must be submitted according to the following requirements and the requirements defined in Attachment H – *County Terms and Conditions* and include the following:

- A. Executive Summary – include proposal structure, pricing summary, assumptions and constraints, and any other pertinent information
- B. Point-by-point compliance:
  - 1. VENDORS shall demonstrate compliance with the requirements herein by completing the matrix provided in Attachment A – *Compliance Matrix*.
  - 2. **The fully completed compliance matrix must be included in the proposal response.**
  - 3. VENDORS shall mark an “X” in the appropriate column for each line of the matrix. VENDORS are not required to address rows of the matrix that are marked with “N/A,” as these rows do not require a statement of compliance. Compliance statements are limited to the following three choices:
    - a. COMPLY – The proposal meets or exceeds the specified requirement.
    - b. COMPLY WITH CLARIFICATION – The proposal does not meet the exact stated requirement; however, meets a substantial portion of or meets the intent of the requirement. PROPOSER must provide a detailed explanation in the “Questions/Comments” column when using this statement.
    - c. EXCEPTION – The proposal does not meet the specified requirements. PROPOSER must provide a detailed explanation when using this statement.

C. Description of the products and services to be provided as described in this RFP:

1. Equipment shelters:

- a. Belfry Mountain – New 12' x 24' equipment shelter
- b. Mount Pisgah – New 10' x 28' equipment shelter with integral 9' x 10' generator room (generator room shall be customized to support a generator provided by others)
- c. Terry Mountain – New 10' x 16' equipment shelter
- d. Wells Hill – New 10' x 22' equipment shelter with integral 9' x 10' generator room (generator room shall be customized to support a generator provided by others)

***NOTE – Equipment shelter dimensions are nominal exterior measurements.***

2. Engineering drawings:

- a. Equipment shelter foundation designs
- b. Equipment shelter build-to (installation) drawings
- c. Equipment shelter design drawings
  - 1) Floor space layout
  - 2) Lighting placement
  - 3) Electrical component placement
  - 4) Grounding

3. Warranty:

- a. No deductible warranty against all defects in materials and workmanship for a minimum period of 5 years from the date of installation and acceptance at the site for each equipment shelter
- b. Should the warranty period start upon delivery, the VENDOR shall warranty each equipment shelter for an additional 6 months from the delivery date.

4. Delivery:

- a. Delivery and offload of the equipment shelters and associated components to either a temporary staging location or the installation locations (communication sites) as directed by the County (see Section 2.6 and Appendices B and G for additional information)

5. Documentation:

- a. Equipment shelter warranty documentation and maintenance manuals
- b. Equipment shelter training documentation (if applicable)

6. Price proposal:

- a. VENDORS shall provide a fixed-priced cost proposal for the equipment shelters, any other associated components, and the delivery and offload of the equipment shelters and associated components at a **temporary staging area** located at 702 Stowersville Road, Lewis, New York 12950. Should the County engage the VENDOR to deliver and offload the equipment shelters and associated components to the temporary staging area, the County will contract with another party to transport and offload the equipment shelters and associated components to the installation locations (communication sites). See Section 2.6 for additional information.
- b. VENDORS shall provide a fixed-priced cost proposal for the equipment shelters, associated components, and the delivery,

offloading, and placement of the equipment shelters on the concrete foundations (pads) at the **installation locations (communications sites)** (see Section 2.6 and Appendices B, F, and G).

7. VENDORS shall provide an equipment shelter manufacturing schedule identifying lead times, production duration, etc.

Essex County will not be liable for any costs incurred by VENDORS associated with the development or delivery of proposals in response to this RFP. VENDORS should direct any questions concerning this RFP to Linda Wolf, Purchasing Agent via e-mail at lwolf@co.essex.ny.us.

### **1.3 Proposal Evaluation**

During the evaluation process, the County reserves the right, where it may serve the County's best interest, to request additional information or clarifications from VENDORS or to allow corrections of errors or omissions.

For additional information on proposal evaluation, reference Attachment H – *County Terms and Conditions*.

### **1.4 Alternate Proposal**

VENDORS are permitted to submit alternate proposals. Such an alternate proposal can consist of any submittal that the VENDOR feels will meet the needs of the County. The County will not consider a submittal that does not substantially meet the intent of the requirements set forth in the specification. To the extent the proposal deviates from the requirements set forth in the RFP, the VENDOR should identify and explain the economic, technical, or environmental benefit to the County of such deviations. Furthermore, proposals should explain the ability of each proposal to satisfy the County's requirements. The County reserves the right to reject any or all proposals, including the alternative proposals.

### **1.5 Proposal Clarifications**

In the event that requirements are stated in more than one section of this RFP and appear to conflict, the more stringent requirement shall apply. For additional information

regarding proposal clarifications and revisions, reference *Attachment H – County Terms and Conditions*.

### **1.6    *Modification and Withdrawal of Proposals***

For additional information regarding modification and withdrawal of proposals, reference *Attachment H – County Terms and Conditions*.

## 2. Equipment Shelter Specification

- A. The VENDOR shall provide a prefabricated equipment shelter for each of the following sites:
- Belfry Mountain – New 12' x 24' equipment shelter
  - Terry Mountain – New 10' x 16' equipment shelter
  - Wells Hill – New 10' x 22' equipment shelter with integral 9' x 10' generator room (generator room shall be customized to support a generator provided by others)
- B. The VENDOR shall provide **EITHER** a prefabricated **OR** panel-built (i.e., erect onsite) equipment shelter for the following site depending on site access challenges, the desired equipment shelter position location, and considering the VENDOR's requirements for crane operations and installation work with nearby utility lines (reference Appendices B, F, and G):
- Mount Pisgah – New 10' x 28' equipment shelter with integral 9' x 10' generator room (generator room shall be customized to support a generator provided by others)

**NOTE – Equipment shelter dimensions are nominal exterior measurements.**

### **References**

Reference the following attachments included with this RFP for additional information:

- Attachment A – *Compliance Matrix*
- Attachment B – *Site Locations*
- Attachment C – *High-Level Site Summaries*
- Attachment D – *Geotechnical Reports*
- Attachment E – *Alarm Wiring Plan*
- Attachment F – *Preliminary Zoning Drawings*
- Attachment G – *Mount Pisgah Access and Site Plan*
- Attachment H – *County Terms and Conditions*

## **2.1 Equipment Shelter Engineering Drawings**

- A. The VENDOR shall employ a professional engineer (PE) licensed in the State of New York to prepare the equipment shelter foundation designs, build-to (installation), and equipment shelter design drawings.
- B. The equipment shelter design drawings shall include:
  - 1. Floor space layout – Interior dimensions of the floor space including the equipment rack location (reference *Attachment C – High-Level Site Summaries*)
  - 2. Lighting placement – Interior and exterior lighting placement and outlets
  - 3. Electrical component placement – Main disconnect, transient voltage surge suppression (TVSS) equipment, main panel, uninterruptible power supply (UPS), load panels, bypass switch, automatic transfer switch (ATS), cable tray layout, and interior utility outlet layout
  - 4. Grounding design
- C. The initial equipment shelter design drawings shall be provided a minimum of two weeks **prior to shelter manufacturing** and submitted in accordance to the requirements in Sections 3 and 4.
- D. The equipment shelter foundation designs and build-to (installation) drawings shall be developed in accordance with the completed geotechnical reports provided in Attachment D – *Geotechnical Reports*.
  - 1. A geotechnical report is not currently available for Belfry Mountain. The VENDOR shall design the equipment shelter foundation based on presumptive soil parameters (normative). Rock, non-cohesive soils, or submerged soils are not considered normal soils.
- E. Following County review and approval of the drawings, the VENDOR shall have all drawings certified and sealed by a professional engineer (PE) licensed in the State of New York. See Sections 3 and 4 for additional information on project drawings.



- F. The County intends to contract a separate firm for site development services to install the equipment shelter foundations in accordance with the VENDOR-provided foundation designs and build-to (installation) drawings.

## **2.2 Equipment Shelter Compliance Requirements**

- A. The exterior finish of each equipment shelter shall be of a neutral, earth tone color that complies with New York State Adirondack Park Agency (APA) requirements.
- B. The VENDOR shall provide equipment shelters that meet National Fire Protection Association (NFPA), National Electric Code (NEC) 70-2011 (or latest revision), New York State, county, and local fire and building codes.
- C. The VENDOR shall provide equipment shelters that meet or exceed the guidelines set forth in Motorola's R56 – *Standards and Guidelines for Communications Sites* (latest revision).
- D. ***If a panel-built (i.e., erect onsite) equipment shelter is proposed for Mount Pisgah, it shall MEET or EXCEED the functional requirements defined herein for prefabricated equipment shelters.***

## **2.3 Equipment Shelter Functional Requirements**

This section defines the equipment shelter functional requirements. Reference Attachment C – *High-Level Site Summaries* and Attachment F – *Preliminary Zoning Drawings* for the equipment shelter proposed floor plans and other requirements including electrical power; heating, ventilating, and air conditioning (HVAC); cable trays; and cable entry port details.

- A. General structural features:
1. The Belfry Mountain, Terry Mountain, and Wells Hill equipment shelters shall be of prefabricated concrete construction.
  2. The Mount Pisgah equipment shelter shall ***EITHER*** be prefabricated ***OR*** panel-built (i.e., erect onsite) depending on the VENDOR's delivery, offloading, and installation requirements.

3. All equipment shelters shall be weather tight to prevent entry by animals, birds, and insects. All ducts, openings, and vents shall be protected with two-layer screens consisting of an insect screen and an animal screen to prevent the entry of insects, birds, and small animals.

B. Equipment shelter foundation:

1. The equipment shelter foundations shall consist of an elevated concrete slab a minimum of 12-inches above ground level to prevent possible ground water intrusion into the equipment shelter. A 48"x 48" concrete entrance pad shall be included in the foundation design to serve each entry door and shall be a continuous pour with the main foundation.
2. The proposed equipment shelter foundations shall be designed for Seismic Zone 2A.
3. The equipment shelter foundation designs and build-to (installation) drawings shall be developed in accordance with the completed geotechnical report provided in Attachment D – *Geotechnical Reports*.
4. The VENDOR shall employ a PE licensed in the State of New York to prepare the equipment shelter foundation designs, build-to (installation), and equipment shelter design drawings. The designs must meet or exceed manufacturer's specifications. See Sections 3 and 4 for additional information on project drawings.
5. The VENDOR shall provide all required hardware to attach each equipment shelter to its foundation.

C. Equipment shelter floor:

1. Interior flooring shall be conductive vinyl tile and mounted over concrete subflooring with conductive adhesive.
2. The flooring shall be grounded to the equipment shelter's electrical grounding system.
3. Base moldings shall be installed around all of the perimeter walls. The floor load shall be 300 pounds per square foot for heavy equipment loading.

D. Equipment shelter ceiling:

1. The interior ceiling height shall be a minimum of 9-feet from the finished floor.
2. The interior ceiling shall be sheathed with one-and-a-half inches of high-performance hard-board insulation with white NuPoly™ or equivalent covering.

E. Equipment shelter walls:

1. The equipment shelter walls shall be designed with an R-19 insulation value or greater.
2. Exterior wall construction shall be a minimum of 4-inch concrete aggregate.
3. The interior walls shall have one-and-one-half inches of high-performance hardboard insulation with white NuPoly™ or equivalent covering. Mounting of ancillary equipment to the walls may be required and shall require the use of only standard fasteners.
4. The equipment shelter walls shall be bullet resistant, meeting the Underwriters Laboratory (UL) 752 specification.
5. The equipment shelter walls shall have a minimum wall wind load of 120 miles-per-hour (MPH).

F. Equipment shelter roof:

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1. The Terry Mountain equipment shelter roof shall be concrete construction designed to prevent penetration by falling ice and other objects and able to withstand 200-pounds of ice mass falling from a height of 700-feet.
2. The Belfry Mountain, Mount Pisgah, and Wells Hill equipment shelter roofs shall be concrete construction designed to prevent penetration by falling ice and other objects and able to withstand 50-pounds of ice mass falling from a height of 100-feet.
3. The roof insulation shall be R-19 or greater.
4. The roof design shall prevent the accumulation of water.
5. The roof shall meet a 150 pounds per-square-foot (PSF) capacity rating.

G. Equipment shelter door:

1. The Belfry Mountain and Terry Mountain equipment shelters shall contain one 42" x 84" exterior door for each room with dead bolt, anti-pick plate, door bumper with "T" tieback, and shall be of steel/aluminum construction with a solid core.
2. The Mount Pisgah and Wells Hill equipment shelters shall contain a 42" x 84" exterior door for each room (except the integral generator room) with dead bolt, anti-pick plate, door bumper with "T" tieback, and shall be of steel/aluminum construction with a solid core.
3. The Mount Pisgah and Wells Hill equipment shelters shall contain a 48" x 84" exterior door *for the integral generator room* with dead bolt, anti-pick plate, door bumper with "T" tieback, and shall be of steel/aluminum construction with a solid core.
4. All hinges shall be tamper-resistant (or interior mounted) so that pins cannot be removed from the outside of the equipment shelter. Combination deadbolt locks that require no electrical power to operate shall be included.
5. Lever opening handles shall be employed for all doors.
6. A drip awning shall be installed over each door to prevent water entry.

7. Doors shall be sealed using adjustable weather stripping and an adjustable saddle.
8. Doors shall be bullet resistant to meet the UL-752 specification.

H. Equipment shelter electrical and grounding features:

1. All electrical equipment supplied shall be UL listed.
2. All electrical installations and wiring shall comply with NFPA, NEC 70-2011 (or latest revision), New York State, county, and local fire and building codes.
3. All electrical installations and wiring shall meet or exceed the guidelines set forth in Motorola's R56 – *Standards and Guidelines for Communications Sites* (latest revision).
4. Equipment shelter electrical system shall be designed to support 2 kW of power per equipment rack for all existing, proposed, and future rack spaces.
5. An interior perimeter halo split-ring ground system shall be installed as per the guidelines set forth in Motorola's R56 – *Standards and Guidelines for Communications Sites* (latest revision).
6. Ground bar kits shall be included with interior and exterior ground buss bars and exterior copper straps shall be located at the cable entry port.

I. Equipment shelter lighting:

1. Equipment shelter lighting shall be energy efficient and generate low heat levels. Technologies such as light emitting diodes (LED) or fluorescent shall be employed.
2. Equipment shelter lighting shall comply with the U.S. defense standard MIL-STD-461E for low radio frequency interference (RFI) lighting fixtures.
3. There shall be sufficient interior lighting to provide a level of 540 Lux (50-foot candles at 1 meter (39.4 inches) above the equipment shelter floor. Refer to the American National Standards Institute (ANSI)

Telecommunications Industry Association (TIA) and Electronic Industries Alliance (EIA) – TIA/EIA-569-B standard for additional information.

4. Placement of equipment shelter lighting shall assure illumination in front of and behind tall equipment racks (within aisle ways; not directly above equipment racks).
5. Interior lighting control switches shall be located on the non-hinged side of the equipment shelter entrance door. One switch shall control a single lighting fixture and the second switch shall control the remaining lighting fixtures. Refer to NFPA, NEC 70-2011 (or latest edition) Article 410 – *Luminaries, Lamp Holders, and Lamps* for additional information.
6. Interior emergency backup lighting units shall be installed and activate immediately upon failure of all Alternating Current (AC) power. The emergency backup lighting shall also be equipped with an illuminated “Exit” sign mounted above the equipment shelter exit door depicting exit locations in the equipment shelter during emergency evacuation.
7. Exterior lighting shall illuminate points-of-exit and entry into the site compound and the equipment shelter and shall be located to the side of the entrance way and above door level (reference Attachment C – *High-Level Site Summaries* and Attachment F – *Preliminary Zoning Drawings*).
8. 35-watt high pressure sodium (HPS) exterior lighting fixtures with cutoff housings that limit the beam top to 35-degrees below horizontal shall be provided and installed with each equipment shelter.
9. A combination photoelectric/motion switch shall be provided and installed that allows for automatic illumination and extinguishment of the exterior equipment shelter lights at twilight and sunrise. The photoelectric/motion switch shall only illuminate the exterior light(s) when motion is detected.
10. A photocell/motion bypass switch shall be installed at the same location as the interior lighting control switches.

J. Equipment shelter power:

***NOTE – An electrical load study is being performed for the Belfry Mountain site. As such, it is currently unknown whether the electrical utilities will be 120/240 Volts Alternating Current (VAC), 200 Amp (A) single-phase or***

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***120/208 VAC, 200A, three-phase. The County will notify the VENDOR of this requirement following contract execution.***

1. AC power shall enter the equipment shelter through an entrance LB connector or properly sized junction box (J-Box) rated for external use. AC power entry must be located as close to the master ground bus (MGB) as possible to provide immediate tie between external building ground and main electrical ground.
2. A main disconnect switch shall be provided as required by state and local electrical codes to provide a quick-disconnect of utility power in the event of an emergency.
3. An all-mode surge arrestor shall be provided and installed to protect AC power mains.
4. A metal oxide varistor (MOV) Type-2 TVSS protector shall be supplied and wired in at the main electrical disconnect of each equipment shelter before the ATS.
5. A silicon avalanche diode MOV Type-1A TVSS protector shall be supplied and wired on the main breaker panel before the UPS and equipment.
6. Both the MOV Type-2 and silicon avalanche diode MOV Type-1A TVSS units shall have a disconnect mechanism enabling the units to be powered off without affecting the power to any other equipment at the site.
7. The equipment room AC power shall be installed in electrical metallic tubing (EMT) conduit with all outlets mounted on an outlet bar running the length of the equipment row and mounted above the equipment racks.
8. A minimum of two 20-ampere 120-Volt dedicated simplex circuit outlets National Electrical Manufacturers Association (NEMA) Type 5-20 (NEMA 5-20) shall be installed above each equipment rack location.
9. Separate circuit breakers shall be provided and installed to serve all equipment outlets (not required for utility outlets).
10. For service equipment, 20-ampere 120-Volt duplex service/utility outlets shall be supplied and mounted on each of the four interior walls of the

equipment shelter with a maximum distance between them of no more than 10-feet.

11. Utility outlets shall be connected to dedicated circuit breakers. All outlets shall be run in conduit (or suitable enclosed pathways) throughout the equipment shelters.
12. A duplex outlet shall be provided and located in the generator room for the Mount Pisgah and Wells Hill equipment shelters.
13. A minimum of one exterior ground fault circuit interrupter (GFCI) protected weatherproof 20-ampere 120-Volt duplex outlet shall be supplied for each equipment shelter using a GFCI circuit breaker with an interior shutoff switch.
14. The VENDOR shall provide additional dedicated electrical circuits above the following planned equipment rack locations according to each equipment shelter's specific floor plan (reference Attachment C – *High-Level Site Summaries*):
  - a. One 20-ampere, 240-Volt AC circuit shall be provided in a 4-inch square junction box (NEMA Type-1) above the equipment rack dedicated to "UPS" for Mount Pisgah.
  - b. One 20-ampere, 240-Volt AC circuit **OR** one 25-ampere 208-Volt AC circuit shall be provided in a 4-inch square junction box (NEMA Type-1) above the equipment rack dedicated to "UPS" for Belfry Mountain.
  - c. Two 30-ampere, 240-Volt AC circuits shall be provided, each terminated with a NEMA L14-30R receptacle located above the equipment rack dedicated to "Rectifier & Batteries" for Mount Pisgah and Wells Hill.
  - d. Two 30-ampere, 208-Volt AC circuits shall be provided, each terminated with a NEMA L14-30R receptacle located above the equipment rack dedicated to "Rectifier & Batteries" for Terry Mountain.
  - e. Two 30-ampere, 240-Volt AC circuits **OR** two 30-ampere 208-Volt AC circuits shall be provided, each terminated with a NEMA L14-



30R receptacle located above the equipment rack dedicated to "Rectifier & Batteries" for Belfry Mountain.

- f. One 20-ampere, 120-Volt AC duplex outlet shall be provided within 6-feet of the cable entry port for Belfry Mountain, Mount Pisgah, and Terry Mountain, and Wells Hill.
- 15. A single-phase main breaker distribution panel rated at 120/240-Volt AC, 200-amperes and consisting of at least 40 circuits shall be provided and installed for the Mount Pisgah and Wells Hill equipment shelters.
- 16. A three-phase main breaker distribution panel rated at 120/208-Volt AC, 200-amperes, and consisting of at least 40 circuits shall be provided and installed for the for the Terry Mountain equipment shelter.
- 17. A single-phase **OR** three-phase main breaker distribution panel rated at 120/240-Volt AC, 200-amperes **OR** 120/208-Volt AC, 200-amperes, respectively, and consisting of at least 40 circuits shall be provided and installed for the for the Belfry Mountain equipment shelter.
- 18. One ATS rated at 120/240-Volt AC, 200-amperes **OR** 120/208-Volt AC, 200-amperes shall be provided for the Belfry Mountain equipment shelter. This transfer switch is to support a multi-metering site utility configuration.

K. Equipment shelter cable tray:

- 1. The primary function of the cable tray is to manage cable support and installation, which includes proper support of the cables while also maintaining adequate cable separation between the different groups of cables. The cable tray shall maintain a minimum separation of 3-inches between the different groups of cable systems required between the equipment.
- 2. The VENDOR shall provide and install a cable tray system that is at least 18-inches wide for each equipment shelter. The cable tray system shall be supported from the equipment shelter ceiling with the appropriate hardware and located over the equipment racks based on the required equipment layout (reference Attachment C – *High-Level Site Summaries*). Material shall be aluminum with a minimum of 9-inch spacing rung-style.

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3. The VENDOR shall provide and install all required cable tray accessory components such as section splice plates, horizontal bends/tees/crosses, vertical members, frame/wall supports, and barriers. The accessory components provided shall be from a single manufacturer to ensure compatibility.
  4. All cable tray sections shall be bonded together at each joint and connected back to the MGB at a single location on the cable tray closest to the MGB. The joints shall be bonded with #2 American Wire Gauge (AWG) green jacket copper and both ends shall be attached with the appropriate two-hole compression fittings and required hardware.
  5. A #2 AWG green jacket copper run shall also be installed from the closest point of the cable tray to the MGB with the appropriate compression fittings and hardware to tie the cable tray back to the single-point ground system.
  6. The cable tray shall be installed at 244-centimeters (8-feet) above the equipment shelter finished floor.
  7. A minimum of 30-centimeters (1-foot) shall be maintained between the top of the cable tray and the interior ceiling of the equipment shelter.
  8. ***Cable trays shall NOT be placed under electrical fixtures or ceiling lights, however they may cross electrical fixtures.***
  9. The entire cable tray system shall be rigid and immovable and properly secured to the equipment shelter ceilings and walls with the appropriate hardware.
  10. The cable tray system shall be capable of supporting the entire cable load both for the proposed cable system plus a 30% margin for future growth.
  11. The cable tray support hardware shall not extend below the cable tray bottom further than the required fittings and shall include the appropriate protective end caps.
- L. Equipment shelter equipment layout and expansion:
1. The equipment shelter space shall be designed in accordance with the floor plans in Attachment C – *High-Level Site Summaries*.
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2. The equipment shall be positioned to provide adequate space to service equipment and allow space for test equipment and spare electronic system equipment to be stored.
3. The equipment shelter aisle space (i.e., isle ways) located between the rows of equipment racks shall be a minimum of 36-inches to enable adequate access to both front and back of all equipment racks.

M. Equipment shelter HVAC system:

1. The equipment shelter HVAC units shall be sized based on the thermal load requirements of all the electronic systems and electrical equipment including UPS, DC charger, and thermal heat loads produced from the interior lighting). The VENDOR shall assume 2 kW for each rack space for equipment power loading. Once the overall thermal load has been engineered, the VENDOR shall size each HVAC unit to support the complete thermal load of the equipment shelter.
2. The equipment shelter HVAC system shall be designed in a redundant configuration with primary/secondary controllers or cycle controllers so that the HVAC units are subject to equal wear and provide cooling of the equipment shelter in the event one of the HVAC units fails.
3. Only commercial grade HVAC units shall be used. **Consumer grade household units or window mounted units are unacceptable.**
4. The equipment shelter HVAC units shall contain electric heat strips to maintain an interior equipment shelter temperature between 60 and 80-degrees Fahrenheit (F).
5. The HVAC units shall be designed based on the area at which relative humidity is maintained per ANSI/TIA/EIA-569-B in the equipment shelters.
6. The equipment shelter HVAC units shall be equipped with a service disconnect switch so that each individual unit can be disconnected for maintenance and service.
7. The equipment shelters shall be equipped with thermostats at locations where room ambient temperature can be best and most evenly controlled.

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8. The VENDOR shall determine thermostat placement and the number of thermostats required based on the flow of the circulating air and per the thermal load to provide the appropriate cooling throughout the equipment shelter.
  9. Equipment shelters shall include a thermostatically-controlled exhaust fan located as high as possible in the equipment shelter to remove heat in the event of HVAC failure. A corresponding cold air intake vent with motorized louvers shall also be installed low on an opposing wall to allow unobstructed air flow through the site.
  10. All ducts, openings, and HVAC vents shall be protected with two-layer screens consisting of an insect screen and an animal screen to prevent the entry of insects, birds, and small animals.
- N. Equipment shelter fire detection and suppression:
1. The equipment shelters shall be equipped with the following fire detection and suppression equipment:
    - a. Automatic fire detection system
      - 1) Radio area photoelectric
      - 2) Radio area ionizing
    - b. Automatic alarms
  2. A 10-pound handheld Carbon Dioxide (CO<sub>2</sub>) fire extinguisher
- O. Equipment shelter alarms:

***NOTE – The County is currently evaluating shelter alarm monitoring solutions. As a result, it is unknown whether the alarm points must support analog or dry contact closures. The County will notify the VENDOR of the requirement following contact award.***

1. The equipment shelters must be capable of providing alarms using analog sensors **OR** dry contact closures.
2. If dry contact closures are used, the closures shall conform to the Form C configuration providing common, normally open (NO), and normally closed

(NC) dry contact closures. NC contact closures are preferred and shall be utilized when possible.

3. The outputs shall not be referenced to ground or voltage potentials.
4. All alarms shall be terminated at a wall-mounted 66 punch-down block (i.e., M-Block or B-Block) in accordance with Attachment E – *Alarm Wiring Plan*.
5. The VENDOR shall supply and install one 66 punch-down block (i.e., M-Block or B-Block) mounted on a 4' x 6' x ¾" plywood backboard with each equipment shelter. Alarm wires shall be clearly marked.
6. At minimum, the equipment shelters shall be equipped with the following alarms (reference Attachment E – *Alarm Wiring Plan*):
  - a. Smoke detectors:
    - 1) Radio area photoelectric
    - 2) Radio area ionizing
  - b. Door intrusion switches (for all exterior equipment shelter doors):
    - 1) Radio room
    - 2) Generator room (applicable for Mount Pisgah and Wells Hill)
  - c. Temperature sensors:
    - 1) Actual **OR** Radio area >90F
    - 2) Actual **OR** Radio area <40F
    - 3) Actual **OR** Generator area >90F
    - 4) Actual **OR** Generator area <40F
  - d. HVAC operating status:
    - 1) Primary
    - 2) Secondary

- e. Commercial power failure relay
- P. Equipment shelter transmission line entry:
  - 1. Each equipment shelter shall be equipped with a 12-port entry panel consisting of 4-inch port entry feed-through holes.
  - 2. All unused entry openings shall be sealed thereby preventing animals, birds, and insects from entering an unused port and gaining equipment shelter access.
- Q. Equipment shelter generator room equipment:
  - 1. The VENDOR shall provide the following equipment for the Mount Pisgah and Wells Hill generator rooms:
    - a. A set of generator exhaust piping, thimble, and muffler wrap
    - b. A motor operated exhaust shutter with outside hood and animal/insect screen
    - c. A motor operated intake shutter with outside hood and animal/insect screen
    - d. A leak containment floor

## **2.4 Equipment Shelter Warranty**

- A. The VENDOR shall provide a no deductible warranty against all defects in materials and workmanship for a minimum period of 5 years from the date of installation and acceptance of each equipment shelter. Should the warranty period start upon delivery, the VENDOR shall warranty each equipment shelter for an additional 6 months from the delivery date.

## **2.5 Equipment Shelter Documentation**

- A. Upon acceptance of the equipment shelters, the VENDOR shall supply three complete sets of warranty documentation and maintenance manuals for each equipment shelter.

- B. The VENDOR shall provide training documentation for each equipment shelter (if applicable).

## **2.6 *Equipment Shelter Delivery***

- A. Upon contract award, the County shall notify the VENDOR whether the equipment shelters and associated components must be delivered and offloaded at the temporary staging area or at the installation locations (communications sites). If delivered and offloaded to the temporary staging area, the County will contract with another party to transport and offload the equipment shelters and associated components to the installation locations.
- B. The VENDOR shall deliver, offload, and place the equipment shelters on the concrete foundations (pads) at the specified location(s) within 45 calendar days after the County notifies the VENDOR of the shipment initiation date and delivery/offload location (reference and Appendices B, F, and G).

### **3. Documentation Deliverable Requirements**

Following award of a contract to the VENDOR, all documentation deliverables produced per this RFP shall meet the following requirements.

#### **3.1 *Format and Submission***

- A. All documentation deliverables shall be provided in hard copy (triplicate), properly bound, and in electronic format via email and CD-ROM (the County desires Microsoft Office and/or pdf file formats, dwg file format shall not be accepted).
- B. All documentation deliverables shall include a cover letter or letter of transmittal, signed, dated, and fully describing the contents of the submittal.
- C. The equipment shelter foundation designs, build-to (installation) and engineering drawings shall contain the following minimum information:
  - 1. Name of firm or entity that prepared each submittal on label or title block
  - 2. A space approximately 3-1/2 by 5 inches on label or beside title block to record the County's review and approval markings
  - 3. Project name and date
  - 4. Submittal number or other unique identifier, including revision identifier
  - 5. Drawing number and detail references, as appropriate
  - 6. Communications site name
  - 7. Name and seal of a PE licensed in the State of New York
  - 8. Other necessary identification
- D. All project drawings shall be marked as draft until the County reviews and provides written approval for the drawings.



### **3.2 Compliance**

- A. The VENDOR shall adhere to all applicable federal, state, and local laws, ordinances, or regulations governing the products and services to be supplied.
- B. Where applicable, the products provided by the VENDOR shall comply with the latest versions of the following standards, rules, codes, regulations, and industry guidelines (presented in alphabetical order; not reflective of priority):
- American Concrete Institute (ACI)
  - American National Standards Institute (ANSI)
  - American Society of Testing Materials (ASTM)
  - Building Officials and Code Administrators (BOCA)
  - Electronic and Telecommunications Industry Associations (EIA-TIA)
  - Federal Aviation Administration (FAA)
  - Federal Communications Commission (FCC)
  - Institute of Electrical and Electronics Engineers (IEEE)
  - Motorola R56 *Standards and Guidelines for Communications Sites*
  - National Electrical Code (NEC)
  - National Electrical Manufacturer's Association (NEMA)
  - National Fire Protection Association (NFPA)
  - New York State Uniform Fire Prevention and Building Code
  - Occupational Safety and Health Administration (OSHA)
  - Standard Mechanical Code (SMC)
  - Telecommunications Distribution Methods Manual (TDMM)
  - Underwriters Laboratories, Inc. (UL)

## **4. Deliverable Review and Acceptance**

### **4.1 Review**

- A. The VENDOR shall allow a minimum of two weeks for drawing and documentation deliverable review, including time for re-submittals (instances where the County deems the initial submittal unacceptable), as follows:
1. Time for review shall commence on County's receipt of deliverable.
  2. No contract extensions will be authorized because of failure to transmit deliverables enough in advance of the work to permit processing, including re-submittals.
  3. All deliverables shall be subject to review and written approval by the County and its consultants.

### **4.2 Acceptance**

- A. The County shall consider the equipment shelters, equipment shelter engineering drawings, warranty, and equipment shelter documentation ready for final acceptance following successful completion and approval of the following:
1. Resolution of all revision requests, questions, comments, and concerns
  2. Final equipment shelter engineering drawings certified and sealed by a PE licensed in the State of New York
  3. Final deliverables submitted to the County per the requirements in Section 3 – *Documentation Deliverable Requirements*

## **5. Project Management**

- A. The VENDOR shall identify in writing the primary and secondary points of contact (POCs) who shall be responsible for coordinating all project activities with the County project manager and the County's consultant.
- B. The VENDOR shall address all written and verbal correspondence from the County and/or the County's consultant during normal business hours on the same day or following business day. Response time shall not exceed 24-hours from receipt of correspondence except on weekends and official holidays.

## **Attachment A – Compliance Matrix**

The file containing the compliance matrix, *Attachment A – Shelter RFP Compliance Matrix.xlsx*, is provided electronically as Attachment A of this RFP.

Specification Section	Description	N/A	Comply	Comply with Clarification	Exception	Weight	Questions / Comments
		65	0	0	0	193	
<b>SECTION 1</b>	<b>GENERAL</b>	X					
	Essex County, New York (County), solicits, through this Request for Proposals (RFP), qualified vendors (VENDOR) to supply radio communication systems equipment shelters (shelters) and other associated components for the proposed Essex County Public Safety Radio Communication System.  The County will enter negotiations to contract with a VENDOR whose proposal, in the judgment of the County best serves the County's needs considering the following factors: • Cost to the County • VENDOR warranty • VENDOR performance guarantees • Financial viability of the VENDOR Trade secrets or proprietary information submitted by a VENDOR in connection with a procurement transaction shall not be subject to public disclosure under the New York State Freedom of Information Act. However, the VENDOR must invoke the protection of this section prior to or upon submission of the proposal response information. The VENDOR must also identify the specific content or other materials requiring protection and state the reasons why protection is necessary. Disposition of material after award(s) is/are made should be stated by the VENDOR.	X					
<b>1.1</b>	<b>Submission of Proposals</b>	X					
	Proposal submissions must be submitted to: Linda M. Wolf Purchasing Agent Essex County Government Center Elizabethtown, New York 12932 Three copies of each proposal must be received in a sealed package with the designation "SEALED PROPOSAL – Radio Project Shelter Proposal" conspicuously marked on the outer envelope. All proposals will be opened and logged in on the above stated date and time. All proposals submitted will be a matter of public record.	X					
<b>1.2</b>	<b>Proposal Format</b>	X					
	All proposals must be submitted according to the following requirements and the requirements defined in Attachment G – County Terms and Conditions and include the following:	X					
1.2.A	Executive Summary – include proposal structure, pricing summary, assumptions and constraints, and any other pertinent information					1	
1.2.B	Point-by-point compliance:	X					
1.2.B.1	VENDORS shall demonstrate compliance with the requirements herein by completing the matrix provided in Attachment A – Compliance Matrix.	X					
1.2.B.2	The fully completed compliance matrix must be included in the proposal response.					1	
1.2.B.3	VENDORS shall mark an "X" in the appropriate column for each line of the matrix. VENDORS are not required to address rows of the matrix that are marked with "N/A," as these rows do not require a statement of compliance. Compliance statements are limited to the following three choices:	X					
1.2.B.3.a	COMPLY – The proposal meets or exceeds the specified requirement.					1	
1.2.B.3.b	COMPLY WITH CLARIFICATION – The proposal does not meet the exact stated requirement; however, meets a substantial portion of or meets the intent of the requirement. PROPOSER must provide a detailed explanation in the "Questions/Comments" column when using this statement.					1	
1.2.B.3.c	EXCEPTION – The proposal does not meet the specified requirements. PROPOSER must provide a detailed explanation when using this statement					1	
1.2.C	Description of the products and services to be provided as described in this RFP:	X					
1.2.C.1	Equipment shelters:	X					
1.2.C.1.a	Belfry Mountain – New 12' x 24' equipment shelter					1	
1.2.C.1.b	Mount Pisgah – New 10' x 28' equipment shelter with integral 9' x 10' generator room (generator room shall be customized to support a generator provided by others)					1	
1.2.C.1.c	Terry Mountain – New 10' x 16' equipment shelter					1	
1.2.C.1.d	Wells Hill – New 10' x 22' equipment shelter with integral 9' x 10' generator room (generator room shall be customized to support a generator provided by others) NOTE – Shelter dimensions are nominal exterior measurements					1	
1.2.C.2	Engineering drawings:	X					
1.2.C.2.a	Equipment shelter foundation designs					1	
1.2.C.2.b	Equipment shelter build-to (installation) drawings					1	
1.2.C.2.c	Equipment shelter design drawings					1	
1.2.C.2.c.1	Floor space layout					1	
1.2.C.2.c.2	Lighting placement					1	
1.2.C.2.c.3	Electrical component placement					1	
1.2.C.2.c.4	Grounding					1	
1.2.C.3	Warranty:	X					
1.2.C.3.a	No deductible warranty against all defects in materials and workmanship for a minimum period of 5 years from the date of installation and acceptance at the site for each equipment shelter					1	
1.2.C.3.b	Should the warranty period start upon delivery, the VENDOR shall warranty each equipment shelter for an additional 6 months from the delivery date.					1	
1.2.C.4	Delivery:	X					
1.2.C.4.a	Delivery and offload of the equipment shelters and associated components to either a temporary staging location or the installation locations (communication sites) as directed by the County (see Section 2.6 and Appendices B and G for additional information)					1	
1.2.C.5	Documentation:	X					
1.2.C.5.a	Equipment shelter warranty documentation and maintenance manuals					1	
1.2.C.5.b	Equipment shelter training documentation (if applicable)					1	
1.2.C.6	Price proposal:	X					
1.2.C.6.a	VENDORS shall provide a fixed-priced cost proposal for the equipment shelters, any other associated components, and the delivery and offload of the equipment shelters and associated components at a temporary staging area located at 702 Stowersville Road, Lewis, New York 12950. Should the County engage the VENDOR to deliver and offload the equipment shelters and associated components to the temporary staging area, the County will contract with another party to transport and offload the equipment shelters and associated components to the installation locations (communication sites). See Section see Section 2.6 for additional information.					1	
1.2.C.6.b	VENDORS shall provide a fixed-priced cost proposal for the equipment shelters, associated components, and the delivery, offloading, and placement of the equipment shelters on the concrete foundations (pads) at the installation locations (communication sites).					1	

Specification Section	Description	N/A	Comply	Comply with Clarification	Exception	Weight	Questions / Comments
1.2.C.7	VENDORS shall provide an equipment shelter manufacturing schedule identifying lead times, production duration, etc.					1	
1.3	<b>Proposal Evaluation</b>	X					
	During the evaluation process, the County reserves the right, where it may serve the County's best interest, to request additional information or clarifications from VENDORS or to allow corrections of errors or omissions. For additional information on proposal evaluation, reference Attachment G – County Terms and Conditions.	X					
1.4	<b>Alternate Proposal</b>	X					
	VENDORS are permitted to submit alternate proposals. Such an alternate proposal can consist of any submittal that the VENDOR feels will meet the needs of the County. The County will not consider a submittal that does not substantially meet the intent of the requirements set forth in the specification. To the extent the proposal deviates from the requirements set forth in the RFP, the VENDOR should identify and explain the economic, technical, or environmental benefit to the County of such deviations. Furthermore, proposals should explain the ability of each proposal to satisfy the County's requirements. The County reserves the right to reject any or all proposals, including the alternative proposals.	X					
1.5	<b>Proposal Clarifications</b>	X					
	In the event that requirements are stated in more than one section of this RFP and appear to conflict, the more stringent requirement shall apply. For additional information regarding proposal clarifications and revisions, reference Attachment G – County Terms and Conditions.	X					
1.6	<b>Modification and Withdrawal of Proposals</b>	X					
	For additional information regarding modification and withdrawal of proposals, reference Attachment G – County Terms and Conditions.	X					
<b>SECTION 2</b>	<b>EQUIPMENT SHELTER SPECIFICATION</b>	X					
2.A	The VENDOR shall provide a prefabricated equipment shelter for each of the following sites: • Belfry Mountain – New 12' x 24' equipment shelter • Terry Mountain – New 10' x 16' equipment shelter • Wells Hill – New 10' x 22' equipment shelter with integral 9' x 10' generator room (generator room shall be customized to support a generator provided by others) NOTE – Equipment shelter dimensions are nominal exterior measurements.					1	
2.B	The VENDOR shall provide EITHER a prefabricated OR panel-built (i.e., erect onsite) equipment shelter for the following site depending on site access challenges, the desired equipment shelter position location, and considering the VENDOR's requirements for crane operations and installation work with nearby utility lines (reference Appendices B, F, and G): • Mount Pisgah – New 10' x 28' equipment shelter with integral 9' x 10' generator room (generator room shall be customized to support a generator provided by others) NOTE – Equipment shelter dimension is defined in nominal exterior measurements.					1	
2.1	<b>Equipment Shelter Engineering Drawings</b>	X					
2.1.A	The VENDOR shall employ a professional engineer (PE) licensed in the State of New York to prepare the equipment shelter foundation designs, build-to (installation), and equipment shelter design drawings.					1	
2.1.B	The equipment shelter design drawings shall include:					1	
2.1.B.1	Floor space layout – Interior dimensions of the floor space including the equipment rack location (reference Attachment C – High-Level Site Summaries)					1	
2.1.B.2	Lighting placement – Interior and exterior lighting placement and outlets					1	
2.1.B.3	Electrical component placement – Main disconnect, transient voltage surge suppression (TVSS) equipment, main panel, uninterruptible power supply (UPS), load panels, bypass switch, automatic transfer switch (ATS), cable tray layout, and interior utility outlet layout					1	
2.1.B.4	Grounding design					1	
2.1.C	The initial equipment shelter design drawings shall be provided a minimum of two weeks prior to shelter manufacturing and submitted in accordance to the requirements in Sections 3 and 4.					1	
2.1.D	The equipment shelter foundation designs and build-to (installation) drawings shall be developed in accordance with the completed geotechnical reports provided in Attachment D – Geotechnical Reports.					1	
2.1.D.1	A geotechnical report is not currently available for Belfry Mountain. The VENDOR shall design the equipment shelter foundation based on presumptive soil parameters (normative). Rock, non-cohesive soils, or submerged soils are not considered normal soils.					1	
2.1.E	Following County review and approval of the drawings, the VENDOR shall have all drawings certified and sealed by a professional engineer (PE) licensed in the State of New York. See Sections 3 and 4 for additional information on project drawings.					1	
2.1.F	The County intends to contract a separate firm for site development services to install the equipment shelter foundations in accordance with the VENDOR-provided foundation designs and build-to (installation) drawings.					1	
2.2	<b>Equipment Shelter Compliance Requirements</b>	X					
2.2.A	The exterior finish of each equipment shelter shall be of a neutral, earth tone color that complies with New York State Adirondack Park Agency (APA) requirements.					1	
2.2.B	The VENDOR shall provide equipment shelters that meet National Fire Protection Association (NFPA), National Electric Code (NEC) 70-2011 (or latest revision), New York State, county, and local fire and building codes.					1	
2.2.C	The VENDOR shall provide equipment shelters that meet or exceed the guidelines set forth in Motorola's R56 – Standards and Guidelines for Communications Sites (latest revision).					1	
2.2.D	If a panel-built (i.e., erect onsite) equipment shelter is proposed for Mount Pisgah, it shall MEET or EXCEED the functional requirements defined herein for prefabricated equipment shelters.					1	
2.3	<b>Equipment Shelter Functional Requirements</b>	X					
	This section defines the equipment shelter functional requirements. Reference Attachment C – High-Level Site Summaries and Attachment F – Preliminary Zoning Drawings for the equipment shelter proposed floor plans and other requirements including electrical power; heating, ventilating, and air conditioning (HVAC); cable trays; and cable entry port details.	X					
2.3.A	<b>General structural features:</b>	X					
2.3.A.1	The Belfry Mountain, Terry Mountain, and Wells Hill equipment shelters shall be of prefabricated concrete construction.					1	
2.3.A.2	The Mount Pisgah equipment shelter shall EITHER be prefabricated OR panel-built (i.e., erect onsite) depending on the VENDOR's delivery, offloading, and installation requirements.					1	



Specification Section	Description	N/A	Comply	Comply with Clarification	Exception	Weight	Questions / Comments
2.3.A.3	All equipment shelters shall be weather tight to prevent entry by animals, birds, and insects. All ducts, openings, and vents shall be protected with two-layer screens consisting of an insect screen and an animal screen to prevent the entry of insects, birds, and small animals.					1	
2.3.B	Equipment shelter foundation:	X					
2.3.B.1	The equipment shelter foundations shall consist of an elevated concrete slab a minimum of 12-inches above ground level to prevent possible ground water intrusion into the equipment shelter. A 48"x 48" concrete entrance pad shall be included in the foundation design to serve each entry door and shall be a continuous pour with the main foundation.					1	
2.3.B.2	The proposed equipment shelter foundations shall be designed for Seismic Zone 2A.					1	
2.3.B.3	The equipment shelter foundation designs and build-to (installation) drawings shall be developed in accordance with the completed geotechnical report provided in Attachment D – Geotechnical Reports.					1	
2.3.B.4	The VENDOR shall employ a PE licensed in the State of New York to prepare the shelter foundation designs, build-to (installation), and equipment shelter design drawings. The designs must meet or exceed manufacturer's specifications. See Sections 3 and 4 for additional information on project drawings.					1	
2.3.B.5	The VENDOR shall provide all required hardware to attach each equipment shelter to its foundation.					1	
2.3.C	Equipment shelter floor:	X					
2.3.C.1	Interior flooring shall be conductive vinyl tile and mounted over concrete subflooring with conductive adhesive.					1	
2.3.C.2	The flooring shall be grounded to the equipment shelter's electrical grounding system.					1	
2.3.C.3	Base moldings shall be installed around all perimeter walls. The floor load shall be 300 pounds per square foot for heavy equipment loading.					1	
2.3.D	Equipment shelter ceiling:	X					
2.3.D.1	The interior ceiling height shall be a minimum of 9-feet from the finished floor.					1	
2.3.D.2	The interior ceiling shall be sheathed with one-and-a-half inches of high-performance hard-board insulation with white NuPoly™ or equivalent covering.					1	
2.3.E	Equipment shelter walls:	X					
2.3.E.1	The equipment shelter walls shall be designed with an R-19 insulation value or greater.					1	
2.3.E.2	Exterior wall construction shall be a minimum of 4-inch concrete aggregate.					1	
2.3.E.3	The interior walls shall have one-and-one-half inches of high-performance hardboard insulation with white NuPoly™ or equivalent covering. Mounting of ancillary equipment to the walls may be required and shall require the use of only standard fasteners.					1	
2.3.E.4	The equipment shelter walls shall be bullet resistant, meeting the Underwriters Laboratory (UL) 752 specification.					1	
2.3.E.5	The equipment shelter walls shall have a minimum wall wind load of 120 miles-per-hour (MPH).					1	
2.3.F	Equipment shelter roof:	X					
2.3.F.1	The Terry Mountain equipment shelter roof shall be concrete construction designed to prevent penetration by falling ice and other objects and able to withstand 200-pounds of ice mass falling from a height of 700-feet.					1	
2.3.F.2	The Belfry Mountain, Mount Pisgah, and Wells Hill equipment shelter roofs shall be concrete construction designed to prevent penetration by falling ice and other objects and able to withstand 50-pounds of ice mass falling from a height of 100-feet.					1	
2.3.F.3	The roof insulation shall be R-19 or greater.					1	
2.3.F.4	The roof design shall prevent the accumulation of water.					1	
2.3.F.5	The roof shall meet a 150 pounds per-square-foot (PSF) capacity rating.					1	
2.3.G	Equipment shelter door:	X					
2.3.G.1	The Belfry Mountain and Terry Mountain equipment shelters shall contain one 42" x 84" exterior door for each room with dead bolt, anti-pick plate, door bumper with "T" tieback, and shall be of steel/aluminum construction with a solid core.					1	
2.3.G.2	The Mount Pisgah and Wells Hill equipment shelters shall contain a 42" x 84" exterior door for each room (except the integral generator room) with dead bolt, anti-pick plate, door bumper with "T" tieback, and shall be of steel/aluminum construction with a solid core.					1	
2.3.G.3	The Mount Pisgah and Wells Hill equipment shelters shall contain a 48" x 84" exterior door for the integral generator room with dead bolt, anti-pick plate, door bumper with "T" tieback, and shall be of steel/aluminum construction with a solid core.					1	
2.3.G.4	All hinges shall be tamper-resistant (or interior mounted) so that pins cannot be removed from the outside of the equipment shelter. Combination deadbolt locks that require no electrical power to operate shall be included.					1	
2.3.G.5	Lever opening handles shall be employed for all doors.					1	
2.3.G.6	A drip awning shall be installed over each door to prevent water entry.					1	
2.3.G.7	Doors shall be sealed using adjustable weather stripping and an adjustable saddle.					1	
2.3.G.8	Doors shall be bullet resistant to meet the UL-752 specification.					1	
2.3.H	Equipment shelter electrical and grounding features:	X					
2.3.H.1	All electrical equipment supplied shall be UL listed.					1	
2.3.H.2	All electrical installations and wiring shall comply with NFPA, NEC 70-2011 (or latest revision), New York State, county, and local fire and building codes.					1	
2.3.H.3	All electrical installations and wiring shall meet or exceed the guidelines set forth in Motorola's R56 – Standards and Guidelines for Communications Sites (latest revision).					1	
2.3.H.4	Equipment shelter electrical system shall be designed to support 2 kW of power per equipment rack for all existing, proposed, and future rack spaces.					1	
2.3.H.5	An interior perimeter halo split-ring ground system shall be installed as per the guidelines set forth in Motorola's R56 – Standards and Guidelines for Communications Sites (latest revision).					1	
2.3.H.6	Ground bar kits shall be included with interior and exterior ground buss bars and exterior copper straps shall be located at the cable entry port.					1	
2.3.I	Equipment shelter lighting:	X					
2.3.I.1	Equipment shelter lighting shall be energy efficient and generate low heat levels. Technologies such as light emitting diodes (LED) or fluorescent shall be employed.					1	
2.3.I.2	Equipment shelter lighting shall comply with the U.S. defense standard MIL-STD-461E for low radio frequency interference (RFI) lighting fixtures.					1	
2.3.I.3	There shall be sufficient interior lighting to provide a level of 540 Lux (50-foot candles at 1 meter (39.4 inches) above the equipment shelter floor. Refer to the American National Standards Institute (ANSI) Telecommunications Industry Association (TIA) and Electronic Industries Alliance (EIA) – TIA/EIA-569-B standard for additional information.					1	
2.3.I.4	Placement of equipment shelter lighting shall assure illumination in front of and behind tall equipment racks (within aisle ways; not directly above equipment racks).					1	

Specification Section	Description	N/A	Comply	Comply with Clarification	Exception	Weight	Questions / Comments
2.3.I.5	Interior lighting control switches shall be located on the non-hinged side of the equipment shelter entrance door. One switch shall control a single lighting fixture and the second switch shall control the remaining lighting fixtures. Refer to NFPA, NEC 70-2011 (or latest edition) Article 410 – Luminaries, Lamp Holders, and Lamps for additional information.					1	
2.3.I.6	Interior emergency backup lighting units shall be installed and activate immediately upon failure of all Alternating Current (AC) power. The emergency backup lighting shall also be equipped with an illuminated "Exit" sign mounted above the equipment shelter exit door depicting exit locations in the equipment shelter during emergency evacuation.					1	
2.3.I.7	Exterior lighting shall illuminate points-of-exit and entry into the site compound and the equipment shelter and shall be located to the side of the entrance way and above door level (reference Attachment C – High-Level Site Summaries and Attachment F – Preliminary Zoning Drawings).					1	
2.3.I.8	35-watt high pressure sodium (HPS) exterior lighting fixtures with cutoff housings that limit the beam top to 35-degrees below horizontal shall be provided and installed with each equipment shelter.					1	
2.3.I.9	A combination photoelectric/motion switch shall be provided and installed that allows for automatic illumination and extinguishment of the exterior equipment shelter lights at twilight and sunrise. The photoelectric/motion switch shall only illuminate the exterior light(s) when motion is detected.					1	
2.3.I.10	A photocell/motion bypass switch shall be installed at the same location as the interior lighting control switches.					1	
2.3.J	Equipment shelter power:	X					
	NOTE – An electrical load study is being performed for the Belfry Mountain site. As such, it is currently unknown whether the electrical utilities will be 120/240 Volts Alternating Current (VAC), 200 Amp (A) single-phase or 120/208 VAC, 200A, three-phase. The County will notify the VENDOR of this requirement following contract execution.	X					
2.3.J.1	AC power shall enter the equipment shelter through an entrance LB connector or properly sized junction box (J-Box) rated for external use. AC power entry must be located as close to the master ground bus (MGB) as possible to provide immediate tie between external building ground and main electrical ground.					1	
2.3.J.2	A main disconnect switch shall be provided as required by state and local electrical codes to provide a quick-disconnect of utility power in the event of an emergency.					1	
2.3.J.3	An all-mode surge arrester shall be provided and installed to protect AC power mains.					1	
2.3.J.4	A metal oxide varistor (MOV) Type-2 TVSS protector shall be supplied and wired in at the main electrical disconnect of each equipment shelter before the ATS.					1	
2.3.J.5	A silicon avalanche diode MOV Type-1A TVSS protector shall be supplied and wired on the main breaker panel before the UPS and equipment.					1	
2.3.J.6	Both the MOV Type-2 and silicon avalanche diode MOV Type-1A TVSS units shall have a disconnect mechanism enabling the units to be powered off without affecting the power to any other equipment at the site.					1	
2.3.J.7	The equipment room AC power shall be installed in electrical metallic tubing (EMT) conduit with all outlets mounted on an outlet bar running the length of the equipment row and mounted above the equipment racks.					1	
2.3.J.8	A minimum of two 20-ampere 120-Volt dedicated simplex circuit outlets National Electrical Manufacturers Association (NEMA) Type 5-20 (NEMA 5-20) shall be installed above each equipment rack location.					1	
2.3.J.9	Separate circuit breakers shall be provided and installed to serve all equipment outlets (not required for utility outlets).					1	
2.3.J.10	For service equipment, 20-ampere 120-Volt duplex service/utility outlets shall be supplied and mounted on each of the four interior walls of the equipment shelter with a maximum distance between them of no more than 10-feet.					1	
2.3.J.11	Utility outlets shall be connected to dedicated circuit breakers. All outlets shall be run in conduit (or suitable enclosed pathways) throughout the equipment shelters.					1	
2.3.J.12	A duplex outlet shall be provided and located in the generator room for the Mount Pisgah and Wells Hill equipment shelters.					1	
2.3.J.13	A minimum of one exterior ground fault circuit interrupter (GFCI) protected weatherproof 20-ampere 120-Volt duplex outlet shall be supplied for each equipment shelter using a GFCI circuit breaker with an interior shutoff switch.					1	
2.3.J.14	The VENDOR shall provide additional dedicated electrical circuits above the following planned equipment rack locations according to each equipment shelter's specific floor plan (reference Attachment C – High-Level Site Summaries):					1	
2.3.J.14.a	One 20-ampere, 240-Volt AC circuit shall be provided in a 4-inch square junction box (NEMA Type-1) above the equipment rack dedicated to "UPS" for Mount Pisgah.					1	
2.3.J.14.b	One 20-ampere, 240-Volt AC circuit OR one 25-ampere 208-Volt AC circuit shall be provided in a 4-inch square junction box (NEMA Type-1) above the equipment rack dedicated to "UPS" for Belfry Mountain.					1	
2.3.J.14.c	Two 30-ampere, 240-Volt AC circuits shall be provided, each terminated with a NEMA L14-30R receptacle located above the equipment rack dedicated to "Rectifier & Batteries" for Mount Pisgah and Wells Hill.					1	
2.3.J.14.d	Two 30-ampere, 208-Volt AC circuits shall be provided, each terminated with a NEMA L14-30R receptacle located above the equipment rack dedicated to "Rectifier & Batteries" for Terry Mountain.					1	
2.3.J.14.e	Two 30-ampere, 240-Volt AC circuits OR two 30-ampere 208-Volt AC circuits shall be provided, each terminated with a NEMA L14-30R receptacle located above the equipment rack dedicated to "Rectifier & Batteries" for Belfry Mountain.					1	
2.3.J.14.f	One 20-ampere, 120-Volt AC duplex outlet shall be provided within 6-feet of the cable entry port for Belfry Mountain, Mount Pisgah, and Terry Mountain, and Wells Hill.					1	
2.3.J.15	A single-phase main breaker distribution panel rated at 120/240-Volt AC, 200 amperes and consisting of at least 40 circuits shall be provided and installed for the Mount Pisgah and Wells Hill equipment shelters					1	
2.3.J.16	A three-phase main breaker distribution panel rated at 120/208-Volt AC, 200-amperes, and consisting of at least 40 circuits shall be provided and installed for the for the Terry Mountain equipment shelter.					1	
2.3.J.17	A single-phase OR three-phase main breaker distribution panel rated at 120/240-Volt AC, 200-amperes OR 120/208-Volt AC, 200-amperes, respectively, and consisting of at least 40 circuits shall be provided and installed for the for the Belfry Mountain equipment shelter.					1	
2.3.J.18	One ATS rated at 120/240-Volt AC, 200-amperes OR 120/208-Volt AC, 200-amperes shall be provided for the Belfry Mountain equipment shelter. This transfer switch is to support a multi-metering site utility configuration.					1	
2.3.K	Equipment shelter cable tray:	X					



Specification Section	Description	N/A	Comply	Comply with Clarification	Exception	Weight	Questions / Comments
2.3.K.1	The primary function of the cable tray is to manage cable support and installation, which includes proper support of the cables while also maintaining adequate cable separation between the different groups of cables. The cable tray shall maintain a minimum separation of 3-inches between the different groups of cable systems required between the equipment.					1	
2.3.K.2	The VENDOR shall provide and install a cable tray system that is at least 18-inches wide for each equipment shelter. The cable tray system shall be supported from the equipment shelter ceiling with the appropriate hardware and located over the equipment racks based on the required equipment layout (reference Attachment C – High-Level Site Summaries). Material shall be aluminum with a minimum of 9-inch spacing rung-style.					1	
2.3.K.3	The VENDOR shall provide and install all required cable tray accessory components such as section splice plates, horizontal bends/tees/crosses, vertical members, frame/wall supports, and barriers. The accessory components provided shall be from a single manufacturer to ensure compatibility.					1	
2.3.K.4	All cable tray sections shall be bonded together at each joint and connected back to the MGB at a single location on the cable tray closest to the MGB. The joints shall be bonded with #2 American Wire Gauge (AWG) green jacket copper and both ends shall be attached with the appropriate two-hole compression fittings and required hardware.					1	
2.3.K.5	A #2 AWG green jacket copper run shall also be installed from the closest point of the cable tray to the MGB with the appropriate compression fittings and hardware to tie the cable tray back to the single-point ground system.					1	
2.3.K.6	The cable tray shall be installed at 244-centimeters (8-feet) above the equipment shelter finished floor.					1	
2.3.K.7	A minimum of 30-centimeters (1-foot) shall be maintained between the top of the cable tray and the interior ceiling of the equipment shelter.					1	
2.3.K.8	Cable trays shall NOT be placed under electrical fixtures or ceiling lights, however they may cross electrical fixtures.					1	
2.3.K.9	The entire cable tray system shall be rigid and immovable and properly secured to the equipment shelter ceilings and walls with the appropriate hardware.					1	
2.3.K.10	The cable tray system shall be capable of supporting the entire cable load both for the proposed cable system plus a 30% margin for future growth.					1	
2.3.K.11	The cable tray support hardware shall not extend below the cable tray bottom further than the required fittings and shall include the appropriate protective end caps.					1	
2.3.L	Equipment shelter equipment layout and expansion:	X					
2.3.L.1	The equipment shelter space shall be designed in accordance with the floor plans in Attachment C – High-Level Site Summaries.					1	
2.3.L.2	The equipment shall be positioned to provide adequate space to service equipment and allow space for test equipment and spare electronic system equipment to be stored.					1	
2.3.L.3	The equipment shelter aisle space (i.e., aisle ways) located between the rows of equipment racks shall be a minimum of 36-inches to enable adequate access to both front and back of all equipment racks.					1	
2.3.M	Equipment shelter HVAC system:	X					
2.3.M.1	The equipment shelter HVAC units shall be sized based on the thermal load requirements of all the electronic systems and electrical equipment including UPS, DC charger, and thermal heat loads produced from the interior lighting. The VENDOR shall assume 2 kW for each rack space for equipment power loading. Once the overall thermal load has been engineered, the VENDOR shall size each HVAC unit to support the complete thermal load of the shelter.					1	
2.3.M.2	The equipment shelter HVAC system shall be designed in a redundant configuration with primary/secondary controllers or cycle controllers so that the HVAC units are subject to equal wear and provide cooling of the shelter in the event one of the HVAC units fails.					1	
2.3.M.3	Only commercial grade HVAC units shall be used. Consumer grade household units or window mounted units are unacceptable.					1	
2.3.M.4	The equipment shelter HVAC units shall contain electric heat strips to maintain an interior shelter temperature between 60 and 80-degrees Fahrenheit (F).					1	
2.3.M.5	The HVAC units shall be designed based on the area at which relative humidity is maintained per ANSI/TIA/EIA-569-B in the equipment shelters.					1	
2.3.M.6	The equipment shelter HVAC units shall be equipped with a service disconnect switch so that each individual unit can be disconnected for maintenance and service.					1	
2.3.M.7	The equipment shelters shall be equipped with thermostats at locations where room ambient temperature can be best and most evenly controlled.					1	
2.3.M.8	The VENDOR shall determine thermostat placement and the number of thermostats required based on the flow of the circulating air and per the thermal load to provide the appropriate cooling throughout the equipment shelter.					1	
2.3.M.9	Equipment shelters shall include a thermostatically-controlled exhaust fan located as high as possible in the equipment shelter to remove heat in the event of HVAC failure. A corresponding cold air intake vent with motorized louvers shall also be installed low on an opposing wall to allow unobstructed air flow through the site.					1	
2.3.M.10	All ducts, openings, and HVAC vents shall be protected with two-layer screens consisting of an insect screen and an animal screen to prevent the entry of insects, birds, and small animals.					1	
2.3.N	Equipment shelter fire detection and suppression:	X					
2.3.N.1	The equipment shelters shall be equipped with the following fire detection and suppression	X					
2.3.N.1.a	Automatic fire detection system					1	
2.3.N.1.a.1	radio area photoelectric					1	
2.3.N.1.a.2	Radio area ionizing					1	
2.3.N.1.b	Automatic alarms					1	
2.3.N.2	A 10-pound handheld Carbon Dioxide (CO2) fire extinguisher					1	
2.3.O	Equipment shelter alarms:	X					
	NOTE – The County is currently evaluating shelter alarm monitoring solutions. As a result, it is unknown whether the alarm points must support analog or dry contact closures. The County will notify the VENDOR of the requirement following contact award.	X					
2.3.O.1	The equipment shelters must be capable of providing alarms using analog sensors OR dry contact closures.					1	
2.3.O.2	If dry contact closures are used, the closures shall conform to the Form C configuration providing common, normally open (NO), and normally closed (NC) dry contact closures. NC contact closures are preferred and shall be utilized when possible.					1	
2.3.O.3	The outputs shall not be referenced to ground or voltage potentials.					1	
2.3.O.4	All alarms shall be terminated at a wall-mounted 66 punch-down block (i.e., M-Block or B-Block) in accordance with Attachment E – Alarm Wiring Plan.					1	
2.3.O.5	The VENDOR shall supply and install one 66 punch-down block (i.e., M-Block or B-Block) mounted on a 4' x 6' x ¾" plywood backboard with each equipment shelter. Alarm wires shall be clearly marked.					1	

Specification Section	Description	N/A	Comply	Comply with Clarification	Exception	Weight	Questions / Comments
2.3.O.6	At minimum, the equipment shelters shall be equipped with the following alarms (reference Attachment E – Alarm Wiring Plan):	X					
2.3.O.6.a	Smoke detectors:	X					
2.3.O.6.a.1	Radio area photoelectric					1	
2.3.O.6.a.2	Radio area ionizing					1	
2.3.O.6.b	Door intrusion switches (for all exterior equipment shelter doors):					1	
2.3.O.6.b.1	Radio room					1	
2.3.O.6.b.2	Generator room (applicable for Mount Pisgah and Wells Hill)					1	
2.3.O.6.c	Temperature sensors:	X					
2.3.O.6.c.1	Actual OR Radio area >90F					1	
2.3.O.6.c.2	Actual OR Radio area <40F					1	
2.3.O.6.c.3	Actual OR Generator area >90F					1	
2.3.O.6.c.4	Actual OR Generator area <40F					1	
2.3.O.6.d	HVAC operating status:	X					
2.3.O.6.d.1	Primary					1	
2.3.O.6.d.2	Secondary					1	
2.3.O.6.e	Commercial power failure relay					1	
2.3.P	Equipment shelter transmission line entry:	X					
2.3.P.1	Each equipment shelter shall be equipped with a 12-port entry panel consisting of 4-inch port entry feed-through holes.					1	
2.3.P.2	All unused entry openings shall be sealed thereby preventing animals, birds, and insects from entering an unused port and gaining equipment shelter access.					1	
2.3.Q	Equipment shelter generator room equipment:	X					
2.3.Q.1	The VENDOR shall provide the following equipment for the Mount Pisgah and Wells Hill generator rooms:	X					
2.3.Q.1.a	A set of generator exhaust piping, thimble, and muffler wrap					1	
2.3.Q.1.b	A motor operated exhaust shutter with outside hood and animal/insect screen					1	
2.3.Q.1.c	A motor operated intake shutter with outside hood and animal/insect screen					1	
2.3.Q.1.d	A leak containment floor					1	
2.4	<b>Equipment Shelter Warranty</b>	X					
2.4.A	The VENDOR shall provide a no deductible warranty against all defects in materials and workmanship for a minimum period of 5 years from the date of installation and acceptance of each equipment shelter. Should the warranty period start upon delivery, the VENDOR shall warranty each equipment shelter for an additional 6 months from the delivery date.					1	
2.5	<b>Equipment Shelter Documentation</b>	X					
2.5.A	Upon acceptance of the shelters, the VENDOR shall supply three complete sets of warranty documentation and maintenance manuals for each equipment shelter.					1	
2.5.B	The VENDOR shall deliver, and offload, and place the equipment shelters on the concrete foundations (pads) at the specified location(s) within 45 calendar days after the County notifies the VENDOR of the shipment initiation date and delivery/offload location (reference and Appendices B, F, and G).					1	
2.6	<b>Equipment Shelter Delivery</b>	X					
2.6.A	Upon contract award, the County shall notify the VENDOR whether the equipment shelters and associated components must be delivered and offloaded at the temporary staging area or at the installation locations (communications sites). If delivered and offloaded to the temporary staging area, the County will contract with another party to transport and offload the equipment shelters and associated components to the installation locations.					1	
2.6.B	The VENDOR shall deliver and offload the equipment shelters at the specified location(s) within 45 calendar days after the County notifies the VENDOR of the shipment initiation date and delivery/offload location.					1	
<b>SECTION 3</b>	<b>DOCUMENTATION DELIVERABLE REQUIREMENTS</b>	X					
	Following award of a contract to the VENDOR, all documentation deliverables produced per this RFP shall meet the following requirements.	X					
3.1	<b>Format and Submission</b>	X					
3.1.A	All documentation deliverables shall be provided in hard copy (triplicate), properly bound, and in electronic format via email and CD-ROM (the County desires Microsoft Office and/or pdf file formats, dwg file format shall not be accepted).					1	
3.1.B	All documentation deliverables shall include a cover letter or letter of transmittal, signed, dated, and fully describing the contents of the submittal.					1	
3.1.C	The equipment shelter foundation designs, build-to (installation) and engineering drawings shall contain the following minimum information:					1	
3.1.C.1	Name of firm or entity that prepared each submittal on label or title block					1	
3.1.C.2	A space approximately 3-1/2 by 5 inches on label or beside title block to record the County's review and approval markings					1	
3.1.C.3	Project name and date					1	
3.1.C.4	Submittal number or other unique identifier, including revision identifier					1	
3.1.C.5	Drawing number and detail references, as appropriate					1	
3.1.C.6	Communications site name					1	
3.1.C.7	Name and seal of a PE licensed in the State of New York					1	
3.1.C.8	Other necessary identification					1	
3.1.D	All project drawings shall be marked as draft until the County reviews and provides written approval for the drawings.					1	
3.2	<b>Compliance</b>	X					
3.2.A	The VENDOR shall adhere to all applicable federal, state, and local laws, ordinances, or regulations governing the products and services to be supplied.					1	
3.2.B	The products provided by the VENDOR shall comply with the latest versions of the standards, rules, codes, regulations, and industry guidelines called out in the RFP.					1	
<b>SECTION 4</b>	<b>DELIVERABLE REVIEW AND ACCEPTANCE</b>	X					
4.1	<b>Review</b>	X					
4.1.A	The VENDOR shall allow a minimum of two weeks for drawing and documentation deliverable review, including time for re-submittals (instances where the County deems the initial submittal unacceptable), as follows:					1	
4.1.A.1	Time for review shall commence on County's receipt of deliverable.					1	
4.1.A.2	No contract extensions will be authorized because of failure to transmit deliverables enough in advance of the work to permit processing, including re-submittals.					1	
4.1.A.3	All deliverables shall be subject to review and written approval by the County and its consultants.					1	
4.2	<b>Acceptance</b>	X					
4.2.A	The County shall consider the equipment shelters, equipment shelter engineering drawings, warranty, and equipment shelter documentation ready for final acceptance following successful completion and approval of the following:					1	
4.2.A.1	Resolution of all revision requests, questions, comments, and concerns					1	
4.2.A.2	Final equipment shelter engineering drawings certified and sealed by a PE licensed in the State of New York					1	

Specification Section	Description	N/A	Comply	Comply with Clarification	Exception	Weight	Questions / Comments
4.2.A.3	Final deliverables submitted to the County per the requirements in Section 3 – Documentation Deliverable Requirements					1	
SECTION 5	PROJECT MANAGEMENT	X					
5.A	The VENDOR shall identify in writing the primary and secondary Points of Contact (POCs) who shall be responsible for coordinating all project activities with the County project manager and the County's consultant.					1	
5.B	The VENDOR shall address all written and verbal correspondence from the County and/or the County's consultant during normal business hours on the same day or following business day. Response time shall not exceed 24-hours from receipt of correspondence except on weekends and official holidays.					1	

## Attachment B – Site Locations

Site Name	Site Address	Site Coordinates
Belfry Mountain	Site Access – 729 Dalton Hill Road Witherbee, New York  Site Location – Summit of Belfry Mountain Moriah, New York	44°05'55" N 73°32'52" W
Mount Pisgah	Site Access – 96 Mount Pisgah Lane Saranac Lake, New York 12983  Site Location – Summit of Mount Pisgah Ski Area	44°20'28" N 74°07'41"W
Terry Mountain	Terry Mountain Peasleeveville, New York (1.8 Miles South)	44°34'27" N 73°40'29" W
Wells Hills	189 Seventy Lane Lewis, New York	44°18'12" N 73°36'47" W

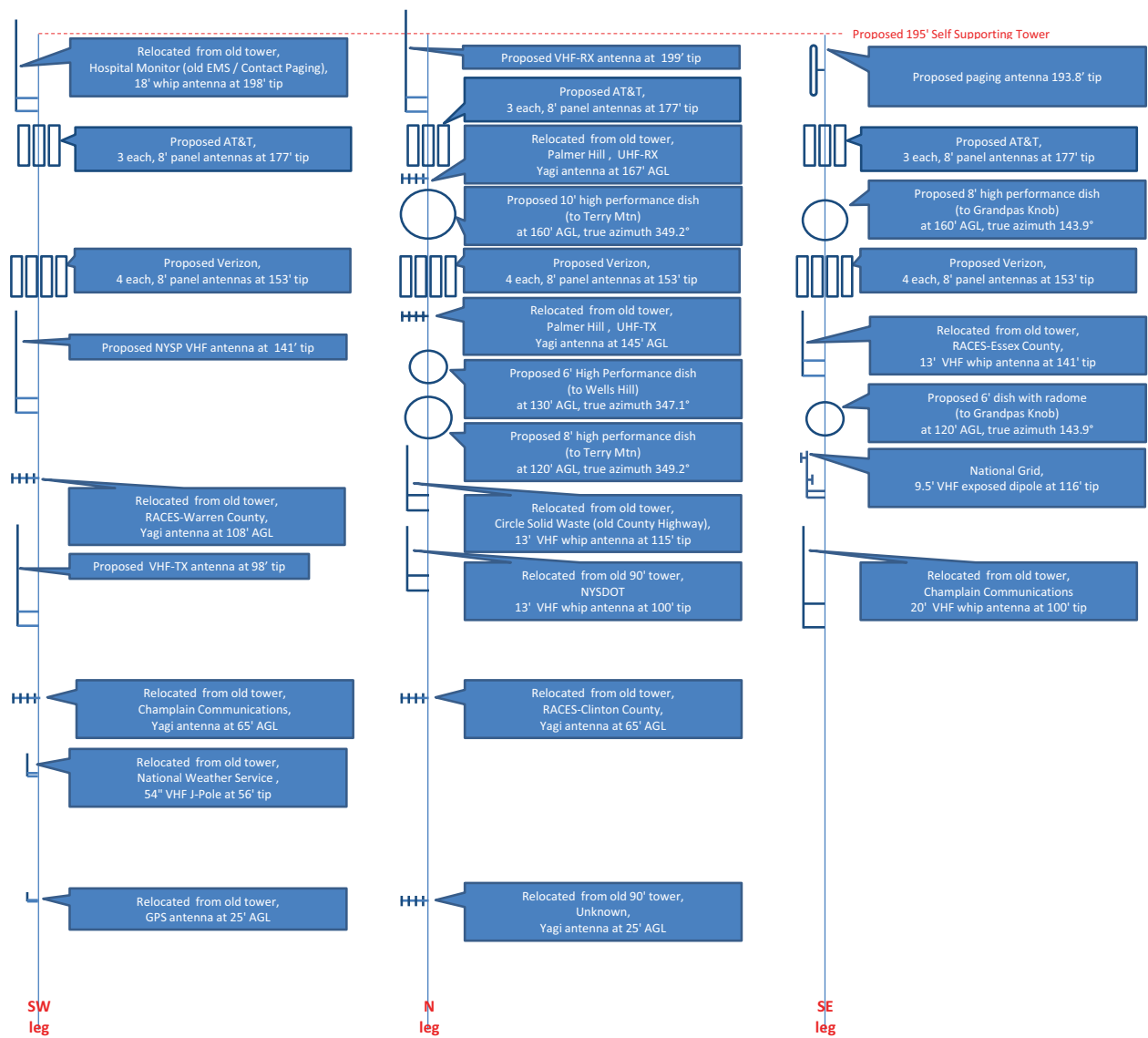
### ***B.1 – Site Access Notes***

- Belfry Mountain – Requires a standard 4x4 vehicle (gravel road with steep grades)
- Mount Pisgah – May require a “trail crawler” and/or a heavy-duty 4x4 vehicle (dirt road with steep grades; difficult to access when wet). [\*\*\*Reference Attachment G for Mount Pisgah access details.\*\*\*](#)
- Terry Mountain– Requires a standard 4x4 vehicle (gravel road with some washout prone areas)
- Wells Hill – Requires a standard 4x4 vehicle (gravel road with steep grades)

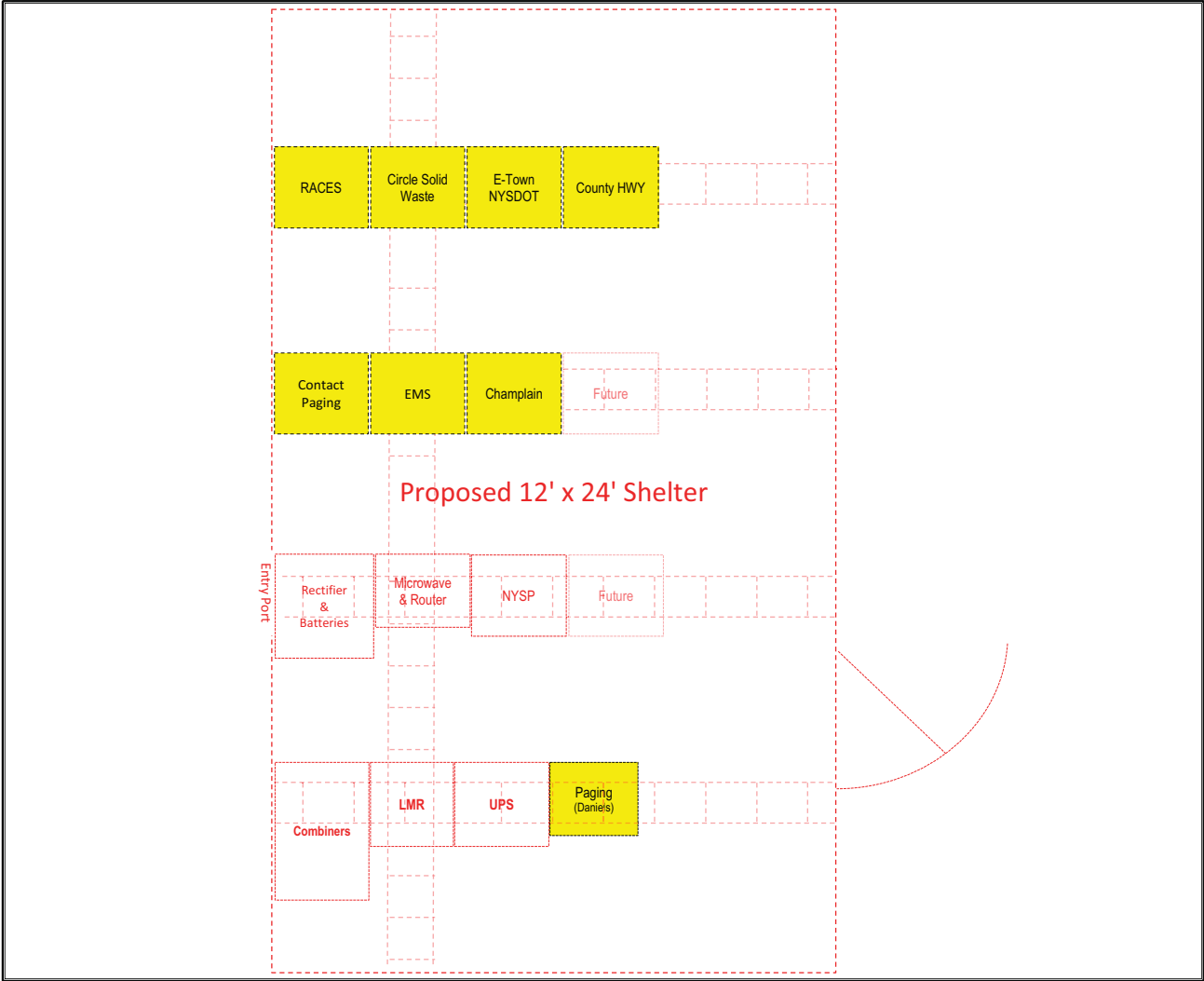
## **Attachment C – High-Level Site Summaries**

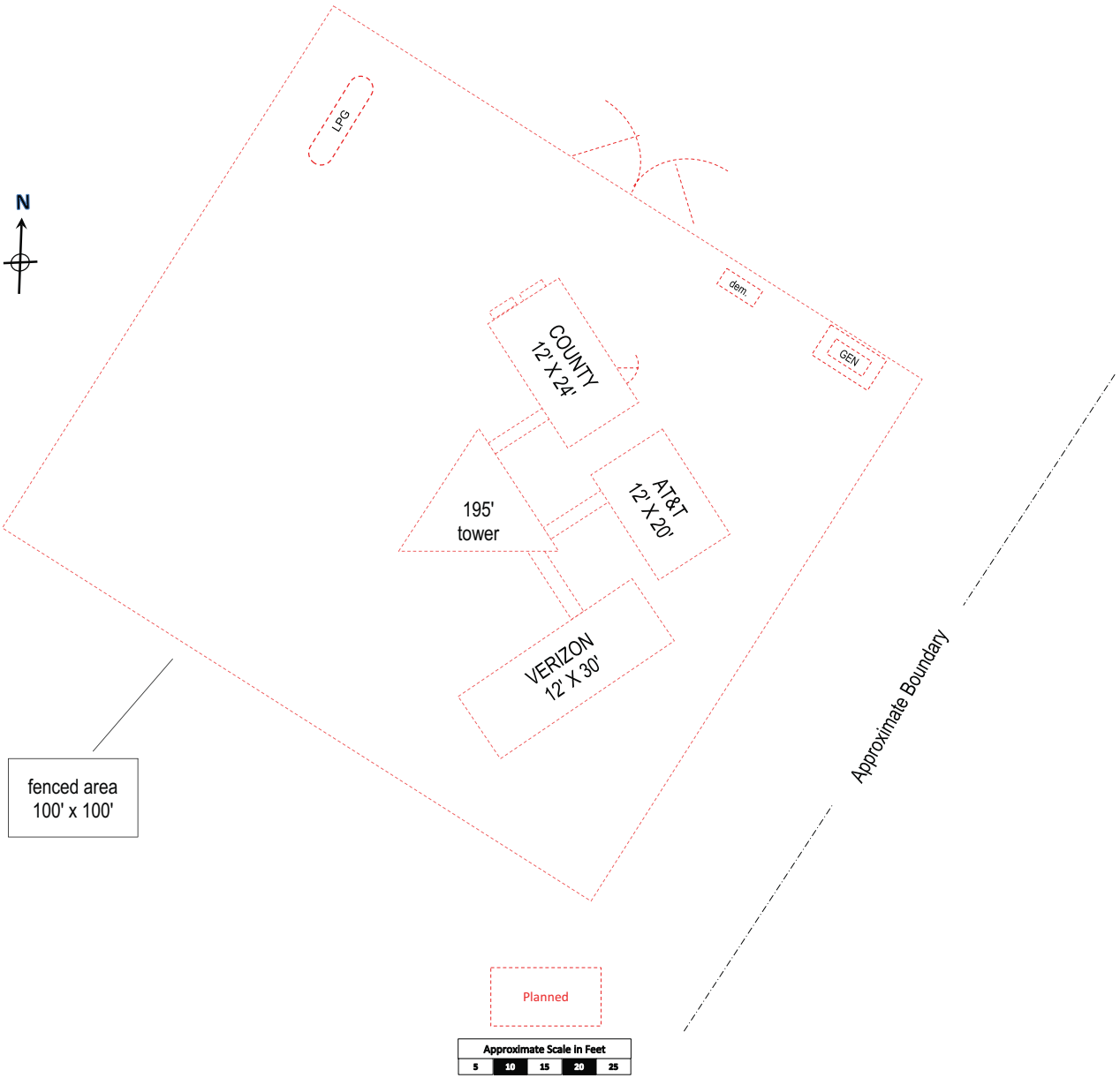
The file containing the site summaries, *Attachment C – Shelter RFP Site Summaries.pdf*, is provided electronically as Attachment C of this RFP.

**Belfry Mountain (proposed)**  
Proposed 195' Self Supporting Tower



**Belfry Mountain (proposed)**  
Proposed 195' Self Supporting Tower

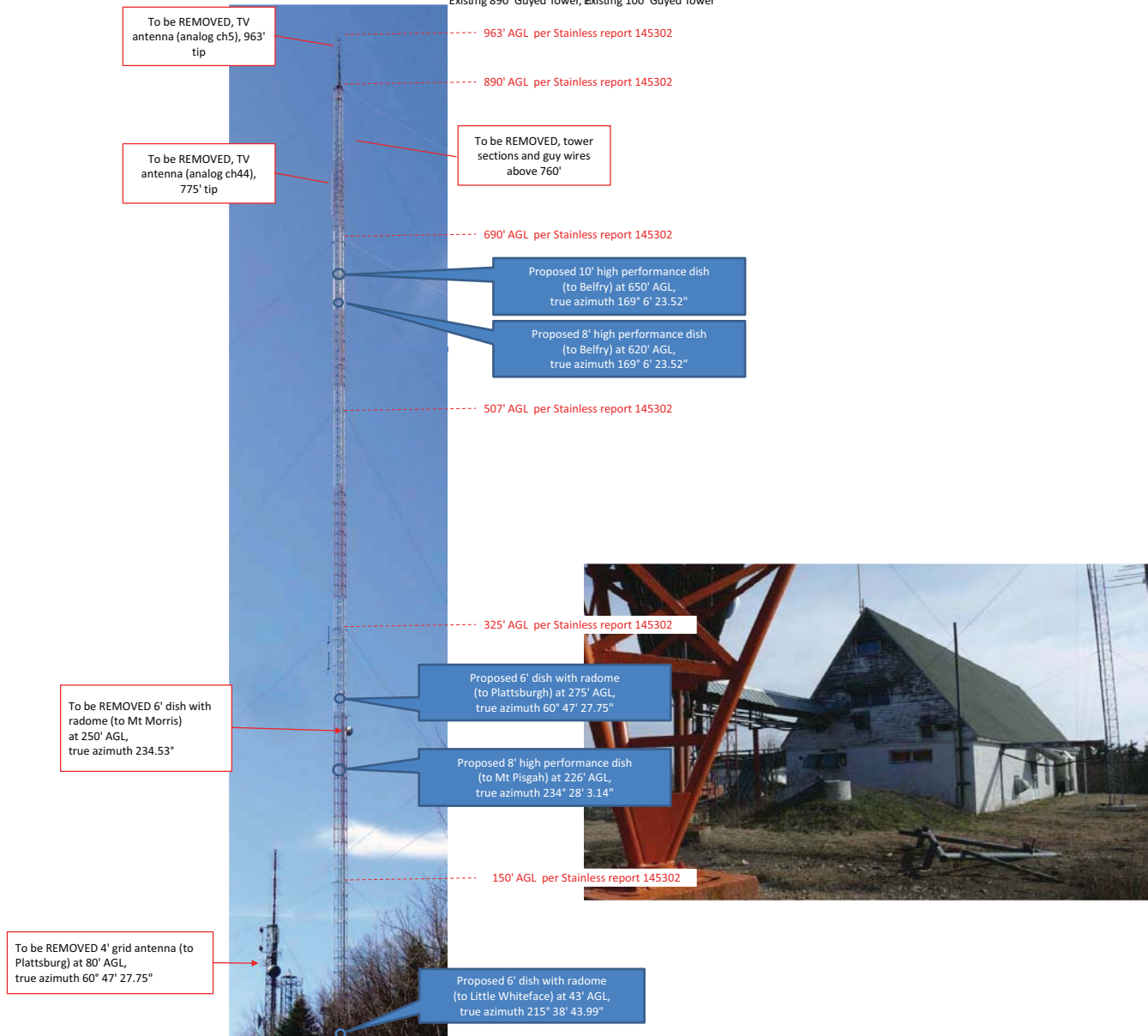






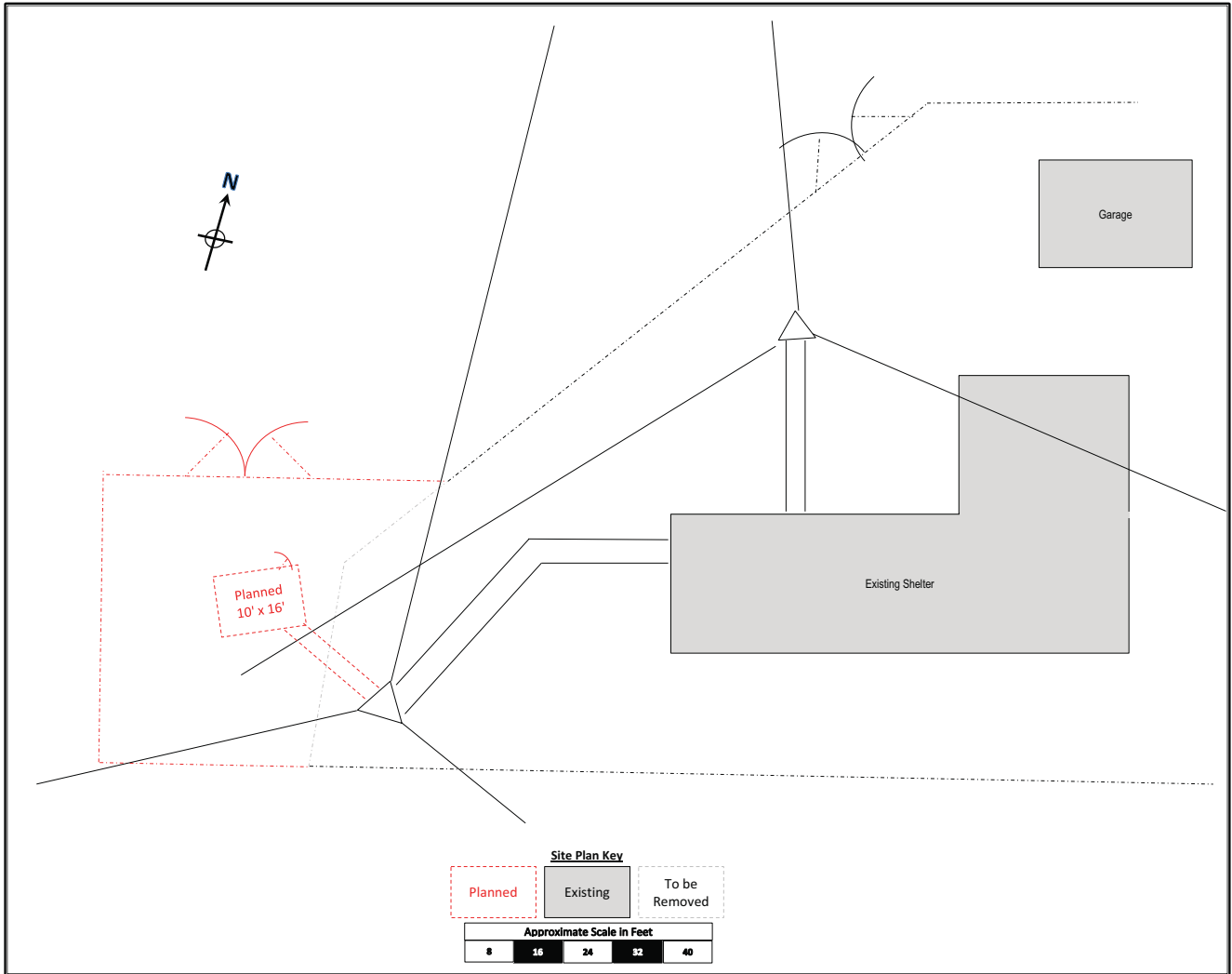
## Terry Mountain

Existing 890' Guyed Tower, Existing 100' Guyed Tower



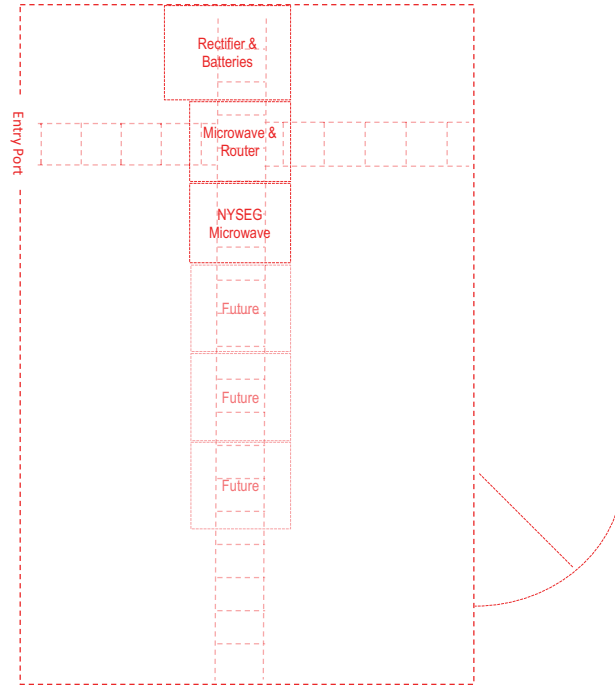
# Terry Mountain

Existing 890' Guyed Tower, Existing 100' Guyed Tower



# Terry Mountain

Existing 890' Guyed Tower, Existing 100' Guyed Tower



## Proposed Shelter Plan Key

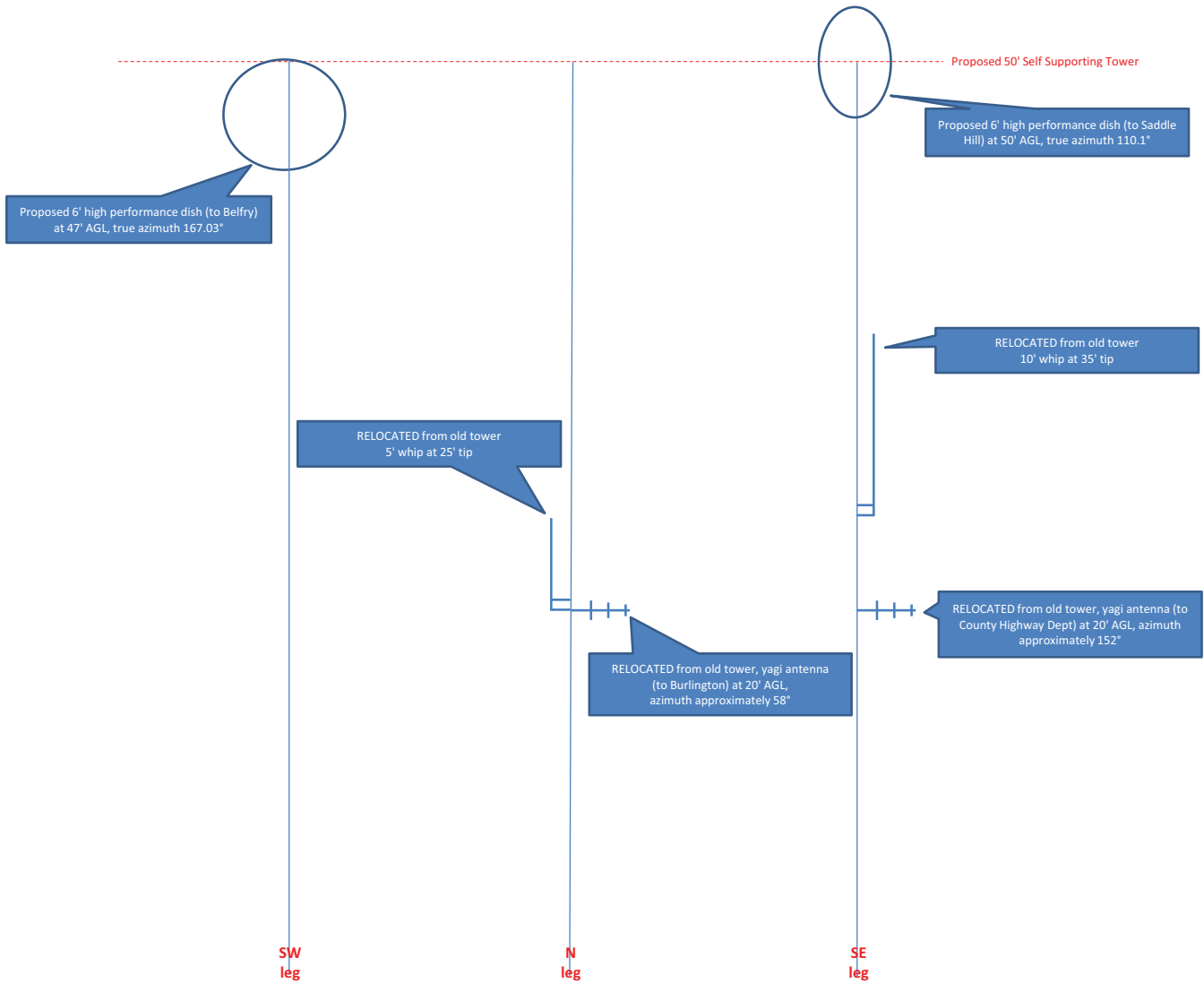
Planned

Approximate Scale in Feet

1	2	3	4	5
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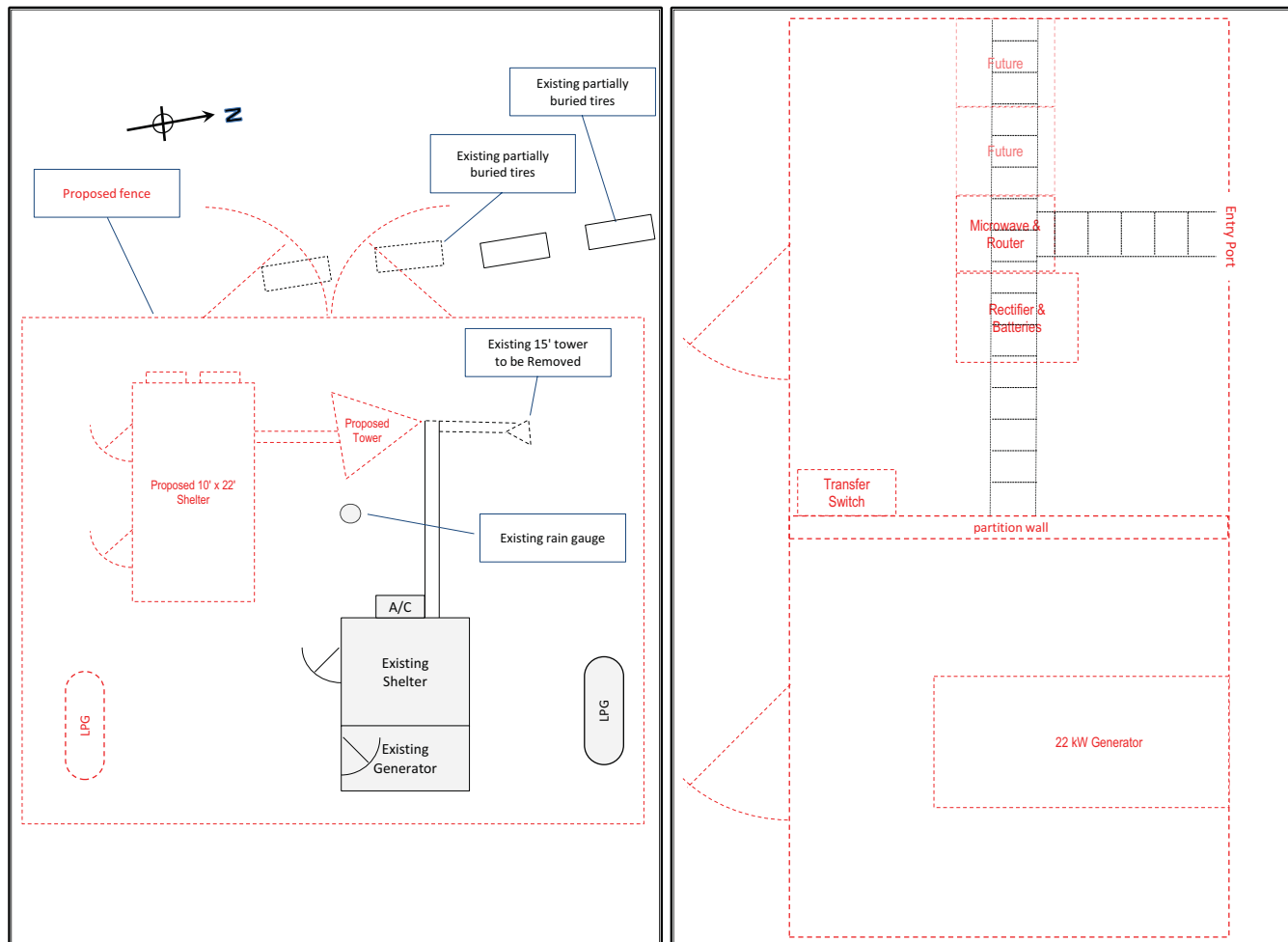
# Wells Hill (proposed)

Proposed 50' Self Supporting Tower



# Wells Hill (proposed)

Proposed 50' Self Supporting Tower



## Site Plan Key

Planned	Existing	To Remove
---------	----------	-----------

Approximate Scale in Feet				
4	8	12	16	20

## Shelter Plan Key

Planned	Existing	To Remove
---------	----------	-----------

Approximate Scale in Feet				
1	2	3	4	5



Mount Pisgah

Existing 100' Self Supporting Tower (also Guyed)

- To be REMOVED 4' dish with radome (to Whiteface Mtn) at 98' AGL, true azimuth 81.27°
- To be REMOVED 6' dish with radome (to Mt Morris) at 100' AGL, true azimuth 234° 09' 01.57"
- To be REMOVED 4' dish (to Ray Brook) at 89' AGL, true azimuth 137° 50' 13.07"

100' AGL per ALU report 5-18-10

Proposed VHF-RX antenna at 100' tip, mounted on SW leg

Proposed 6' dish with radome (to Mt Morris) at 86' AGL, true azimuth 234° 09' 01.57"

81' AGL per ALU report 5-18-10

Proposed 6' dish with radome (to Ray Brook) at 77' AGL, true azimuth 137° 50' 13.07"

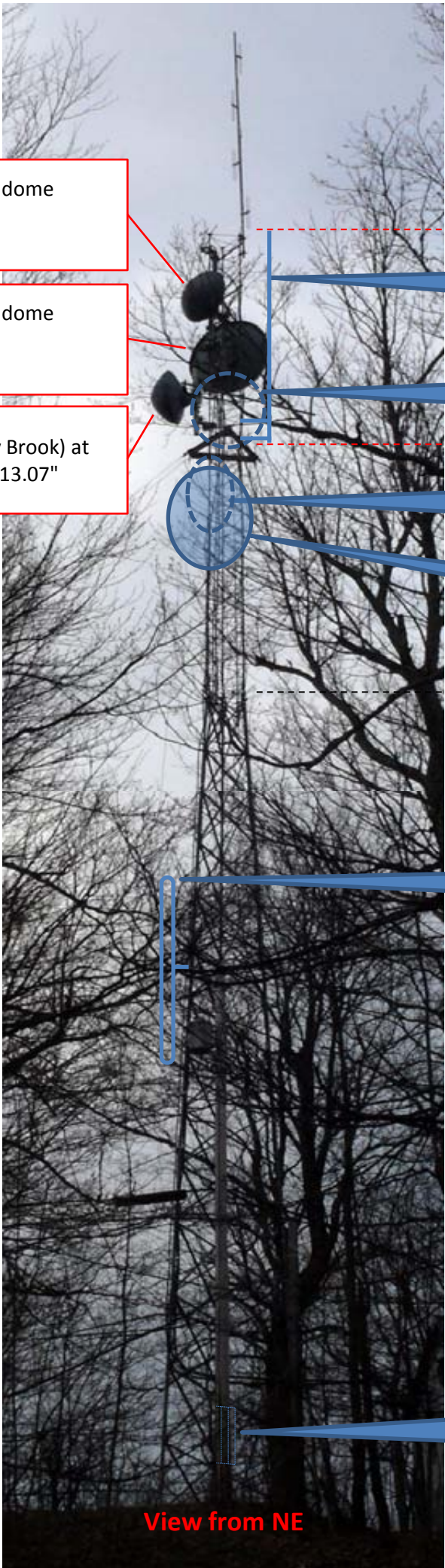
Proposed 8' high performance dish (to Terry Mtn) at 72' AGL, true azimuth 054° 09' 00.18"

60' AGL

Proposed paging antenna 38' tip, mounted on E leg

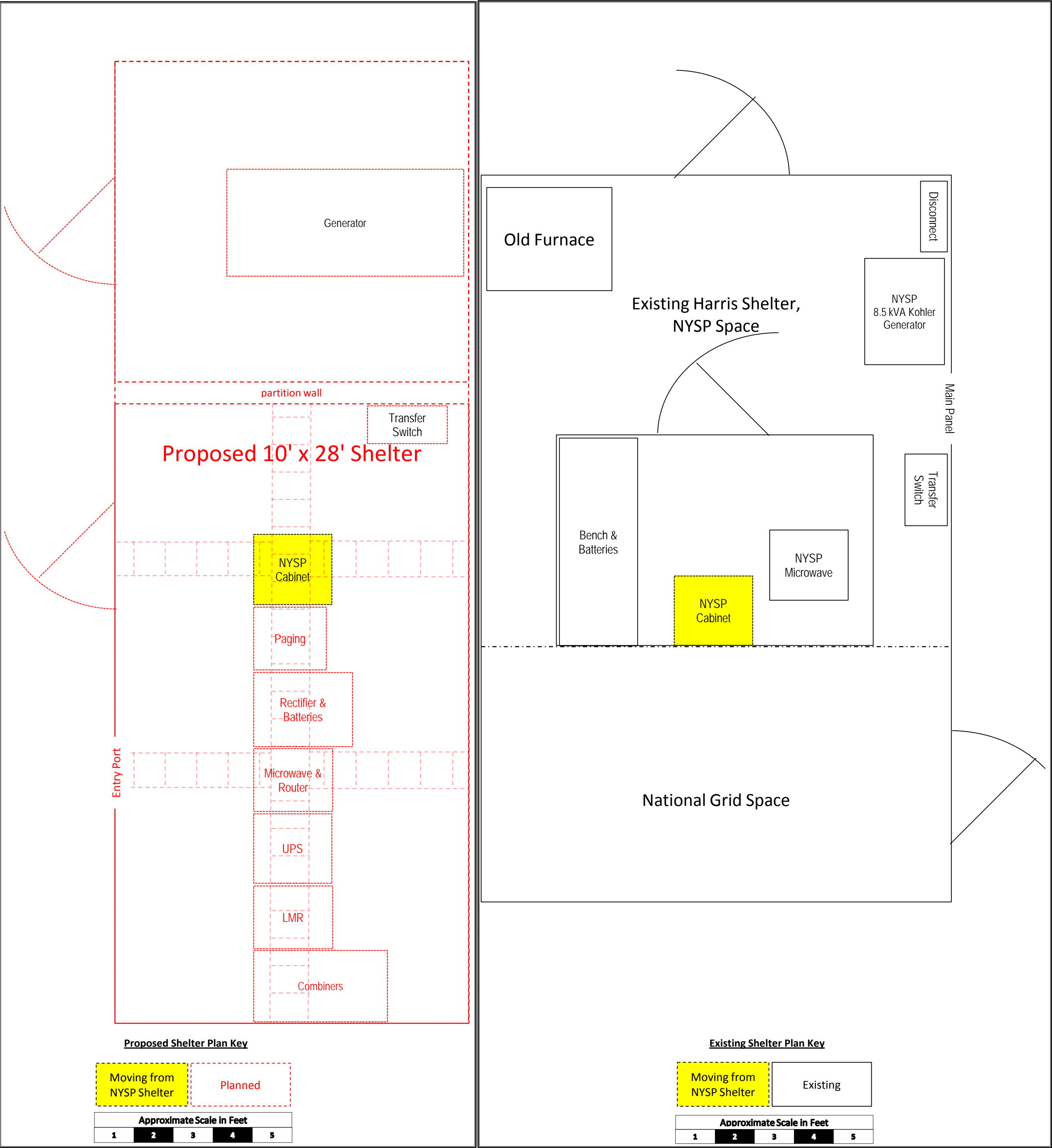
Proposed VHF-TX antenna at 10' tip, true azimuth 22°, mounted on N leg

View from NE



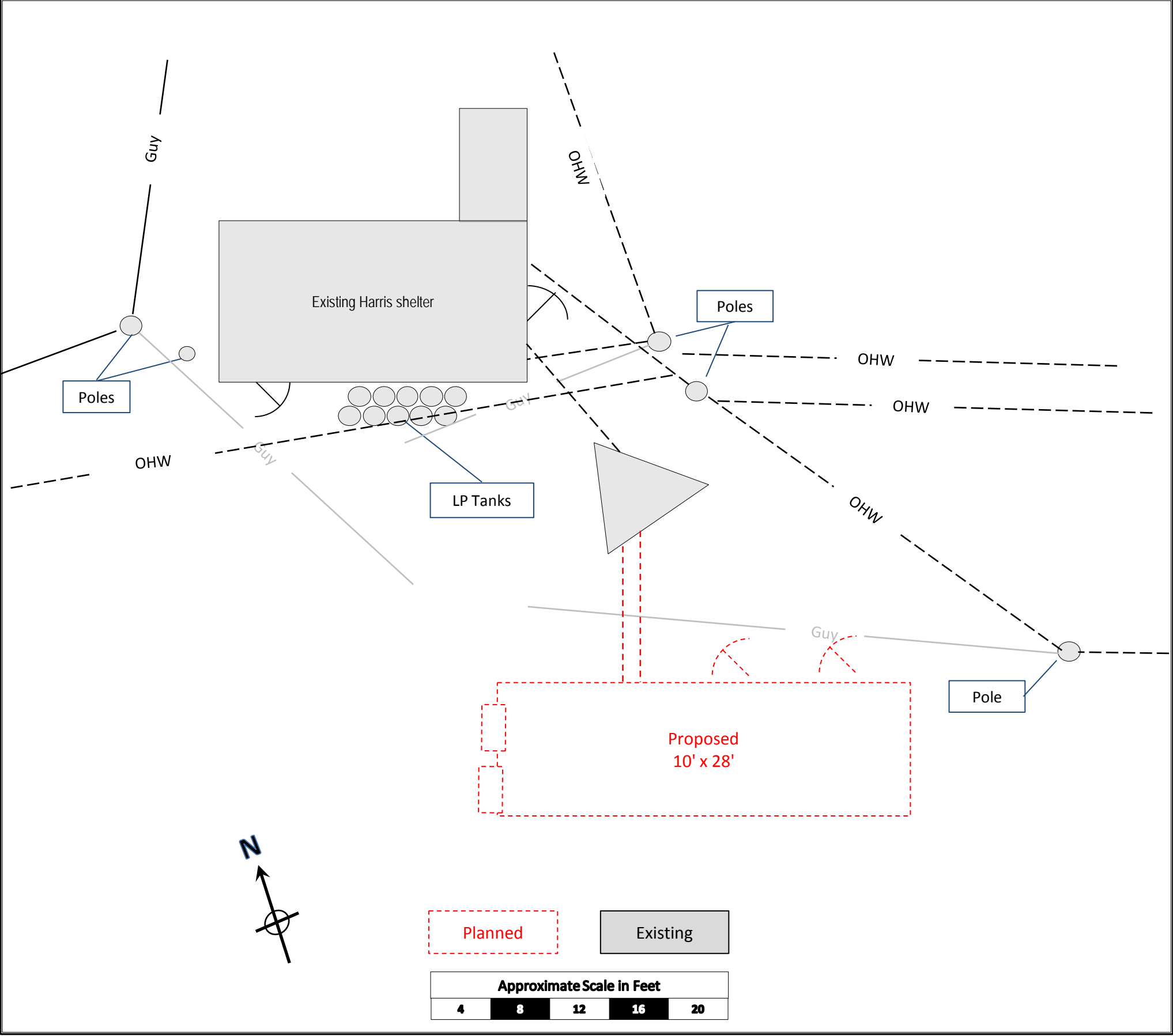
Mount Pisgah

Existing 100' Self Supporting Tower (also Guyed)





**Mount Pisgah**  
Existing 100' Self Supporting Tower (also Guyed)





## **Attachment D – Geotechnical Reports**

The file containing the geotechnical reports, *Attachment D – Shelter RFP Geotechnical Reports.pdf*, is provided electronically as Attachment D of this RFP.

### **NOTES –**

- *The location of the proposed equipment shelter depicted on the Mount Pisgah site plot plan in the geotechnical report is no longer valid. Refer to Appendices F and G for the proposed locations. The VENDOR shall assume similar soil conditions for the alternate equipment shelter locations as those identified in the geotechnical report.*
- *A geotechnical report is not currently available for Belfry Mountain. The VENDOR shall design the equipment shelter foundation based on presumptive soil parameters (normative). Rock, non-cohesive soils, or submerged soils are not considered normal soils.*



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Essex County Emergency Services  
702 Stowersville Road  
P.O. Box 30  
Lewis, NY 12950

Attention: Donald Jaquish

October 11, 2011

**RE: W.O. 5932.06  
GEOTECHNICAL ENGINEERING SERVICES  
PROPOSED EQUIPMENT SHELTER  
MOUNT PISGAH SITE  
SUMMIT OF MOUNT PISGAH SKI AREA  
TOWN OF SAINT ARMAND, ESSEX COUNTY, NEW YORK**

Dear Mr. Jaquish,

Tectonic Engineering & Surveying Consultants, P.C. has completed a subsurface investigation and a geotechnical engineering analysis for the proposed equipment shelter to be located at the above-referenced project site. The results of our investigation and analysis are summarized in this report, in the form of recommendations for the design and construction of the proposed foundations.

## **1.0 DESIGN CONSIDERATIONS**

The proposed equipment shelter will measure approximately 10 feet by 24 feet in footprint, and will include a 6-foot by 9-foot generator room, as well as communications equipment which is to be used by Essex County for emergency service communications. The foundation for the shelter is anticipated to be subjected to relatively light vertical loading and minimal horizontal loading.

## **2.0 PROJECT AND SITE DESCRIPTION**

The project site is located at the summit of the Mount Pisgah Ski Center in the Village of Saranac Lake, Town of Saint Armand, Essex County, New York. The site consists of a hill with a ski area with several ski and snowboard trails on the north side, and generally undisturbed wooded hillside on the remaining sides. The site is located at the top of the hill, near an existing guyed tower and an existing equipment shelter. An access road extends from the ski area at the base of the north side of the hill to the tower site. A separate cellular communications tower site, consisting of a self-support tower and two equipment shelters, is located approximately 100 feet west of the site. Overhead wires enter the guyed tower site from the north, west, and southeast directions.

The proposed equipment shelter will be located about 6 feet southeast of the base of the guyed tower. The area of the proposed shelter generally consisted of overgrown grass at the time of the subsurface investigation, and slopes downward gently towards the southeast. Some minor re-grading of the site may be required to create a level grade around the equipment shelter.

### **3.0 SUBSURFACE INVESTIGATION**

An investigation was performed to identify the subsurface conditions below the proposed equipment shelter for the purpose of foundation design and construction. The subsurface investigation consisted of one test boring performed within the footprint of the proposed equipment shelter to a depth of 5.8 feet below existing grade. The boring was drilled by TransTech Drilling Services, Inc. on August 17, 2011, with an all-terrain mounted drill rig. The boring was advanced using 3-1/4 inch inside diameter hollow-stem augers. Standard Penetration Testing (SPT), using a 2-inch O.D. split-spoon sampler, was performed continuously throughout the boring. A geotechnical engineer was on-site during the boring operations to locate the boring, collect and identify the soil conditions, and to prepare a log of the subsurface conditions encountered. The boring location is indicated on the Boring Location Plan (Figure 1), which is attached to this report. A typed copy of the boring log is also attached.

### **4.0 SUBSURFACE CONDITIONS**

The subsurface conditions encountered within the boring consist of a thin layer of topsoil overlying gravelly sand soil, weathered bedrock, and bedrock. The soil directly underlying the topsoil consists of brown medium to fine sand with some silt and trace to some coarse to fine gravel. The SPT N-values within these soils were 8 blows per foot in the upper 2 feet, and split-spoon sampler refusal below a depth of 2 feet. Split-spoon sampler refusal is defined as more than 50 blows for less than 6 inches of sampler penetration. Within the upper 4 feet, the split-spoon sampler refusals were likely due to the presence of cobbles and boulders. Below a depth of 4 feet, the recovered samples resembled fractured rock fragments. The N-values indicate very dense conditions below a depth of 2 feet. Auger refusal, due to more competent bedrock, was encountered at a depth of 5.8 feet below grade.

Groundwater was not encountered during the boring. Based on local topography, the depth to groundwater likely exceeds the depths explored. It should be noted that groundwater levels fluctuate and that groundwater may be present at different depths at other times.

## **5.0 RECOMMENDATIONS**

The equipment shelter can be supported on conventional spread footing foundations or circular piers bearing on the native sand and gravel soil or weathered bedrock. The foundations should bear at or below a depth of 5 feet for frost protection. Isolated footings should be a minimum of 2.5 feet wide, or 2.5 feet in diameter if circular piers are used. Continuous strip footings running the full length of the pad should be a minimum of 1.5 feet wide. An allowable net bearing pressure of 3 tons per square foot (tsf) should be used to size the footings.

A single mat (slab) foundation may also be utilized to support the equipment shelter. Unless the mat is designed to resist the bending which would result from heave of the soil during periods of frost, the mat should bear below the frost depth indicated earlier. Local building code requirements for unoccupied buildings should be reviewed to determine the applicability of a shallow-bearing mat. To minimize the potential for frost heave, the mat should bear on a layer of crushed stone at least 12 inches in thickness. The mat should be designed assuming a soil subgrade modulus,  $k$ , of 200 pci.

## **6.0 EARTHWORK CONSTRUCTION CRITERIA**

The foundation subgrade should be prepared by removing all soil, cobbles, and boulders loosened by machine excavation to the required bearing depth of the foundation. The subgrade should then be inspected by a geotechnical engineer to verify that the subgrade soils are consistent with those described on the boring logs (dense sand and gravel soil or weathered bedrock). Any unsuitable soil materials (soils other than those recommended for bearing) or areas found to be soft should be removed as directed by the geotechnical engineer. The area of removal should be within the zone of influence of the foundation as defined below. Overexcavated areas of unsuitable soil should be backfilled with structural fill. The native soils contain abundant cobbles and boulders, and these should be anticipated when performing excavations at the site.

Soils that become disturbed due to moisture (wet weather) are unsuitable for providing the recommended bearing capacity. During excavation and prior to backfilling, the ground surface around the mat excavation should be graded to divert surface water away from the excavation. The subgrade should be protected from wet weather until concrete is placed.

If groundwater is encountered, dewatering should be performed to maintain the groundwater level a minimum 2 feet below the deepest excavation in such a manner that the subgrade soils are not disturbed. Dewatering by sump pumps should not be conducted in subgrade areas. If sump pumps are utilized, they should be placed at a distance outside the subgrade area, and the excavation for the sumps should not

intersect the zone of influence of the foundation. Subgrade areas disturbed by moisture should be removed from the foundation zone of influence and replaced with compacted structural fill or clean crushed gravel. The zone of influence is defined by imaginary lines sloping downward and outward from the perimeter of the mat at a 1 horizontal to 1 vertical slope.

Backfill around the foundation should be clean natural non-expansive soil free of organic matter, debris and rocks or hard lumps of material in excess of 4 inches in the longest dimension having a moisture content suitable for compaction. Imported structural fill should be clean granular soil free of organic material or debris and conform to the following gradation:

<u>Sieve Size</u>	<u>Percent Finer by Weight</u>
4"	100
1/4"	30-70
No. 40	5-40
No. 200	0-10

The native soils encountered below the topsoil may be suitable for re-use as structural fill, provided that all cobbles and boulders are removed, and that additional evaluations of the soil gradation are made during construction.

All fill should be compacted to at least 95 percent of the maximum dry density at near optimum moisture contents as determined by ASTM D1557. The lift thickness for the fill soils will vary depending on the type of compaction equipment used. Fill should generally be placed in uniform lifts not exceeding 8 inches in loose thickness. In confined areas, the loose lift thickness should be 4 inches or less and each lift should be compacted with sufficient passes of hand operated vibratory or impact compaction equipment. A geotechnical engineer with appropriate field and laboratory support should inspect all footing subgrades, approve materials for use as fill, and test fill materials for compliance with the recommended compaction.

The sides of the excavation should be sloped back for safety unless a sheeting or bracing system is used. OSHA and other applicable agency requirements pertaining to worker safety should be met during the excavation activities.

## **7.0 SOIL RESISTIVITY TESTING**

The resistivity testing was performed by setting two potential-measuring electrodes between two current carrying electrodes at various spacing for the purpose of measuring the resistance generated by the soils when passing the current through the soil. The current drop measured by the potential-measuring electrodes provides an

indication of the resistance of a soil column equal in thickness to the spacing of the electrodes. The electrode spacing was equal for all spacings between the total of four electrodes during each test.

The test is run by inducing a current through the outer current-carrying electrodes and measuring the voltage drop between the inner potential-measuring electrodes. One test line was performed at the location indicated on the attached Figure 1. Site constraints prohibited performing the tests at greater spacing. The results of the resistivity testing are included on the attached forms and summarized below:

<b><u>MEASURED RESISTIVITY FOR VARYING ELECTRODE SPACING (Ohm-cm)</u></b>				
<b>TEST NO.</b>	<b>ELECTRODE SPACING</b>			
	2 FT	4 FT	8 FT	12 FT
RT-1	95,750	367,680	766,000	769,830

NA – TEST COULD NOT BE PERFORMED DUE TO SITE CONSTRAINTS

## **8.0 LIMITATIONS**

Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable geotechnical engineers and geologists practicing in this or similar situations. The interpretation of the field data is based on good judgment and experience. However, no matter how qualified the geotechnical engineer or detailed the investigation, subsurface conditions cannot always be predicted beyond the points of actual sampling and testing. No other warranty, expressed or implied, is made as to the professional advice included in this report.

The recommendations contained in this report are intended for design purposes only. Contractors and others involved in the construction of this project are advised to make an independent assessment of the rock, subsoil and groundwater conditions for the purpose of establishing quantities, schedules and construction techniques.

This report has been prepared for the exclusive use of Essex County and their agents for the specific application to the proposed equipment shelter to be located at the existing Mount Pisgah tower site in Saranac Lake, New York. We recommend that prior to construction; Tectonic Engineering & Surveying Consultants P.C. review the project plans and specifications. It should be noted that upon review of those documents, some recommendations presented herein might be revised or modified. In the event that any change in the design or location of the proposed structures are planned, Tectonic shall not consider the conclusions and recommendations contained in this report valid unless reviewed and verified in writing. It is further recommended that

Tectonic be retained to provide construction monitoring and inspection services to ensure proper implementation of the recommendations contained herein, which would otherwise limit our professional liability.

We appreciate the opportunity to be of service on this project. Should you require additional information, please do not hesitate to contact the undersigned.

Sincerely,

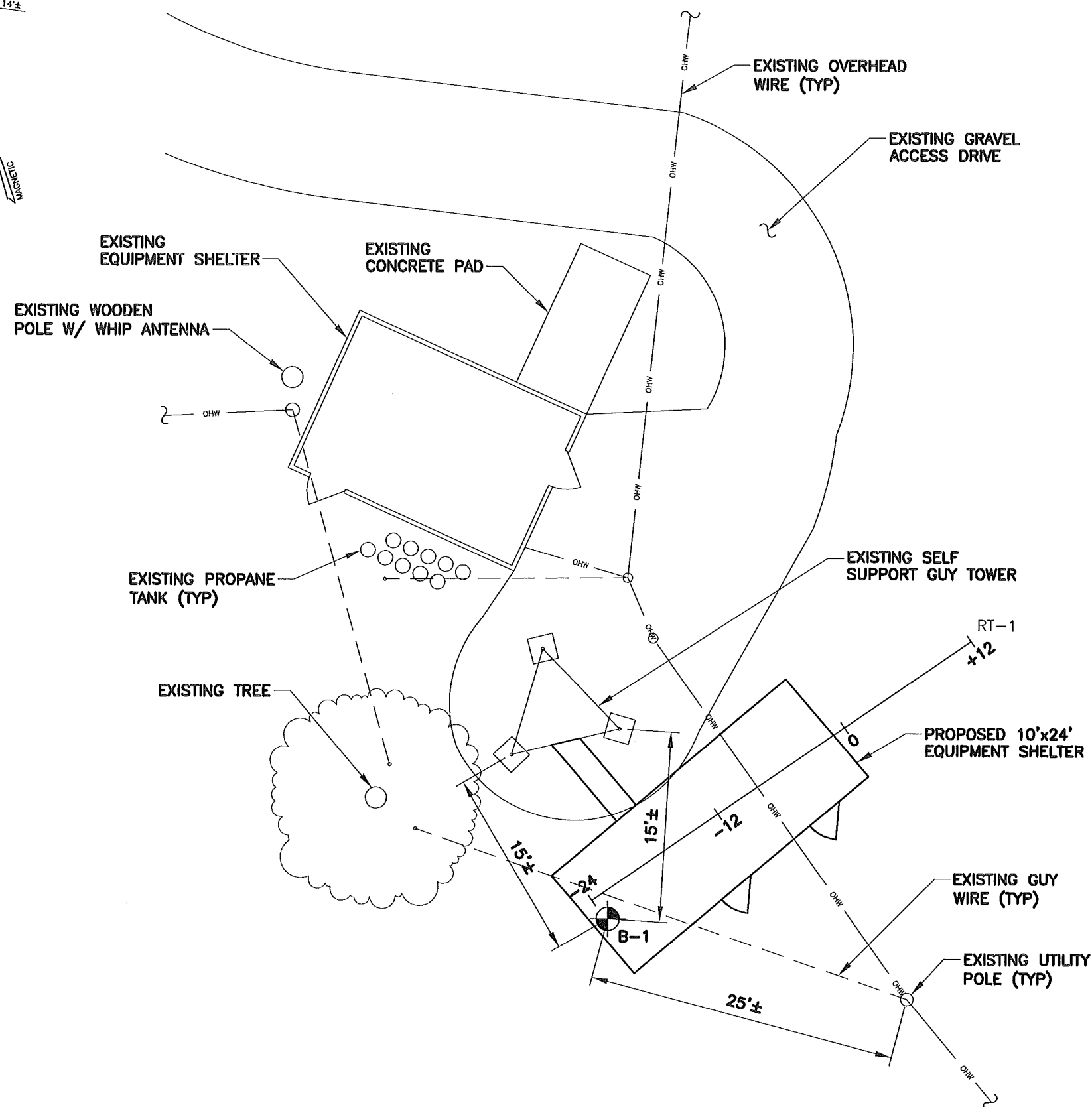
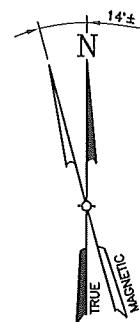
TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.



Scott M. Doehla, P.E.  
Manager of Engineering



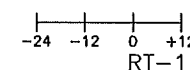
Attachments:      Boring Location Plan (Figure 1)  
                             Boring Log  
                             Legend for Soil Description



## LEGEND



APPROXIMATE BORING LOCATION



APPROXIMATE RESISTIVITY TEST LOCATION

## NOTES

1. BORING & RESISTIVITY TEST LOCATIONS DETERMINED ON-SITE BY MEASURING FROM EXISTING SITE FEATURES.
2. BORING LOCATION PLAN BASED ON DRAWING ENTITLED "SITE DETAIL PLAN", DRAWING Z-2 BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C., DATED 7/26/11.

ORIGINAL SIZE IN INCHES



# TECTONIC

- PLANNING
- ENGINEERING
- SURVEYING
- CONSTRUCTION MANAGEMENT

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36 British American Boulevard, Suite 101 Fax: (518) 783-1544  
Latham, New York 12110 www.tectonicengineering.com

### BORING LOCATION PLAN

**PROPOSED EQUIPMENT SHELTER**  
**SITE NAME: MOUNT PISGAH**  
**SUMMIT OF MOUNT PISGAH SKI AREA**  
**TOWN OF ST. ARMAND, ESSEX COUNTY, NEW YORK**

Date	9/13/11	Work Order	5932.06	Drawing No.	FIGURE 1	Rev	0
Scale	1" = 10'						



TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.				PROJECT No. 5932.06			BORING No. B-1					
				PROJECT: Mt. Pisgah								
				LOCATION: Saranac Lake, NY			SHEET No. 1 of 1					
CLIENT: Essex County				GROUND WATER	DATE	TIME	DEPTH	INSPECTOR: Cory MacFee				
CONTRACTOR: TransTech Drilling Services, Inc.					8/17/11		NE	DRILLER: John Leonhardt				
METHOD OF ADVANCING BORING								SURFACE ELEVATION: ---				
DIA.		DEPTH		MON. WELL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			DATUM: See Remarks					
POWER AUGER:		3 1/4" 0 TO 5'		SCREEN DEPTH: --- TO ---			DATE START: 8/17/11					
ROT. DRILL:				WEATHER: Clear TEMP: 60° F			DATE FINISH: 8/17/11					
CASING:				DEPTH TO ROCK: Not Encountered'			UNCONFINED COMPRESS. STRENGTH (TONS/FT)					
DIAMOND CORE:				*CHANGES IN STRATA ARE INFERRED								
DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES			UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %			DEPTH (FT.)
			SAMPLE NUMBER	RECOV. LENGTH (IN.)	RQD (%)				MOISTURE	1 2 3 4 5	10 20 30 40 50	
1	8	3	S-1	8		D	SM	Bwn c-f SAND, some Silt, trace c-f Gravel				1
2		4										2
3	160+	12	S-2	6		D	SM	Tn c-f SAND, some Silt, some c-f Gravel				3
4	100+	60	S-3	2		D	SM	Tn c-f SAND, some Silt, trace c-f Gravel (rock fragments)				4
5	100+	100/3	S-4	4		D	SM	Same				5
6	100+	75	S-5	2		D	SM	Same				6
7		100/3										7
8		68										8
9		100/2										9
10												10
11												11
12												12
13												13
14												14
15												15
16												16
17												17
18												18
19												19
20												20
21												21
22												22
23												23
24												24
25												25

REMARKS: Surface elevation data not available.

DATE: August 17 2011

CLIENT: Essex County	DEPTH OF SEEPAGE: NE	PROJECT: Mt. Pisgah
CONTRACTOR: Transtech Drilling Services	DEPTH TO GROUNDWATER: NE	LOCATION: Saranac Lake, NY
EQUIPMENT: Nilsson Model 400	DEPTH TO BEDROCK: NE	INSPECTOR: Cory MacFee
	SURFACE ELEVATION: N/A	DATUM: N/A

Location of Test: Near proposed shelter location

Electrode Spacing "a" (ft)	Electrode Depth (a/20)	Measured Average Soil Resistance	Soil Resistivity (ohm-cm)
2 FT 2	0.1	250	95,750
4 FT 4	0.2	480	367,680
8 FT 8	0.4	500	766,000
12 FT 12	0.6	335	769,830
16 FT			

Other \_\_\_\_\_

Other \_\_\_\_\_

Orientation of Leads: East to WestTopography: mostly level sloping downward to north, east, west and upward to the southRemarks: Due to restrictive features of site, tests were limited to spacing indicated above.Method of Resistivity Determination ☐ Nomogram ☐ P=2II aR (for homogenous soils)

### LEGEND FOR SOIL DESCRIPTION

#### GRANULAR SOIL (Coarser than No. 200 Sieve)

##### DESCRIPTIVE TERM

Coarse - c  
Medium - m  
Fine - f

##### COBBLES BOULDERS

##### SAND

No. 4 Sieve to No. 10 Sieve  
No. 10 Sieve to No. 40 Sieve  
No. 40 Sieve to No. 200 Sieve  
3" TO 10"  
10" +

##### GRAIN SIZE

##### GRAVEL

3" to ¾"  
¾" to ⅜"

##### GRADATION DESIGNATIONS

Fine, f  
Medium to Fine, m-f  
Medium, m  
Coarse to medium, c-m  
Coarse, c  
Coarse to fine, c-f

##### PROPORTIONS OF COMPONENT

Less than 10% coarse and medium  
Less than 10% coarse  
Less than 10% coarse and fine  
Less than 10% fine  
Less than 10% medium and fine  
All greater than 10%

#### COHESIVE SOIL (Finer than No. 200 Sieve)

##### DESCRIPTION

Silt  
Clayey Silt  
Silt & Clay  
Clay & Silt  
Silty Clay  
Clay

##### PLASTICITY INDEX

0-1  
2-5  
6-10  
11-20  
21-40  
Greater Than 40

##### PLASTICITY

None  
Slight  
Low  
Medium  
High  
Very High

##### PROPORTION

##### DESCRIPTIVE TERM

trace  
little  
some  
and

##### PERCENT SAMPLE BY WEIGHT

1-10  
10-20  
20-35  
35-50

The Primary component is fully capitalized

##### COLOR

Blue	- blue	Gy	- gray	Wh	- white	Yl	- yellow
Blk	- black	Or	- orange	Tn	- tan	Lgt	- light
Bwn	- brown	Rd	- red	Gn	- green	Dk	- dark

##### SAMPLE NOTATION

S	- Split Spoon Soil Sample	WOC	- Weight of Casing
U	- Undisturbed Soil Sample	WOR	- Weight of Rod
C	- Core Sample	WOH	- Weight of Hammer
B	- Bulk Soil Sample	PPR	- Compressive Strength Based on Pocket Pentrometer
NR	- No Recovery of Sample	TV	- Shear Strength (tsf) Based on Torvane

### LEGEND FOR ENGINEERING ROCK CLASSIFICATION AND CORE DESCRIPTION (1)

#### DESCRIPTIVE TERMINOLOGY FOR JOINT SPACING

##### DESCRIPTIVE TERM

Very Close  
Close  
Medium  
Wide  
Very Wide

##### SPACING OF JOINT

Less Than 2 ½ inches  
2 ½ to 8 inches  
8 to 24 inches  
2 to 6 feet  
Greater than 6 feet

#### RELATIONSHIP OF RQD AND ROCK QUALITY

##### Rock Quality

##### Designation (RQD) (2)

0-25%  
25-50%  
50-75%  
75-90%  
90-100%

##### Description of Rock

Quality  
Very Poor  
Poor  
Fair  
Good  
Excellent

- (1) Core description system is based on a suggested system proposed in the Design manual 7.1 – Soil Mechanics, Department of the Navy, Navy Facilities Engineering Command, (May 1982).
- (2) "Rock Quality Designation" is defined as a modified core recovery ration which considers only pieces of core that are at least 4 inches long. Obvious fractures introduced by drilling are ignored in this system.



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Essex County Emergency Services  
702 Stowersville Road  
P.O. Box 30  
Lewis, NY 12950

Attention: Donald Jaquish

September 30, 2011

**RE: W.O. 5932.07  
GEOTECHNICAL INVESTIGATION  
PROPOSED EQUIPMENT SHELTER AND TOWER UPGRADES  
EXISTING 890-FOOT GUYED TOWER "TERRY MOUNTAIN"  
1159 PEASLEEVE ROAD  
PERU, CLINTON COUNTY, NEW YORK**

Dear Mr. Jaquish,

Tectonic Engineering & Surveying Consultants, P.C. has performed a subsurface investigation and geotechnical engineering analyses for the above-referenced project. The purpose of the investigation was to identify the soil, bedrock and groundwater conditions in the vicinity of the existing 890-foot guyed tower and associated guy anchors, and the proposed equipment shelter at the site. This report presents our findings and general descriptions of the site and the investigation.

## **1.0 SITE DESCRIPTION**

The project site is located at 1159 Peasleeve Road in the Town of Peru, Clinton County, New York. The site is an existing tower complex located at the top of Terry Mountain. The property is owned by Rollins Telecasting and contains a fenced compound with three guyed towers, an L-shaped equipment building, and a garage at the crest of the hill. A self-support tower is located within a separate fenced compound approximately 120 feet southwest of, and downhill from, the previously described compound. The ground surface within the compound and the immediately surrounding area is relatively level, but slopes down steeply towards the southwest and southeast, and more gently downward towards the north, at locations away from the compound. The area around the compound comprise the sides of Terry Mountain and are generally vegetated with mature coniferous and deciduous trees, with occasional wetland areas. Bedrock outcrops are evident at the ground surface within the compound area, outside the compound area, and on the slopes surrounding the tower complex.

The three towers located within the fenced compound are all guyed towers with heights of 60 feet, 100 feet, and 890 feet. The self-support tower within the separate

compound has a total height of approximately 160 feet. Each guyed tower is supported by three arrays of guy anchors generally oriented approximately 120 degrees from each other around the tower.

The 890-foot guyed tower is supported at its base by an approximately 4-foot square concrete pad, and has a TV antenna at the top, which extends to a total height of 963 feet above ground level. The guys for this tower extend away from the tower in three different arrays oriented approximately north, southwest, and southeast from the tower. The guys are connected to the tower at heights of 150 feet, 325 feet, 507 feet, 690 feet, and 890 feet above ground level. These guys extend to one of two anchors on each array. The closest set of anchors are located about 385 feet from the tower base, and the outer anchors are located approximately 690 feet from the tower base. Each anchor supports multiple guys and typically consists of a formed concrete block which appears to be embedded below grade. It is our understanding that the dimensions of these blocks increases below grade. Each block appears to have been constructed by excavating into the bedrock.

It is our understanding that the proposed construction includes removing sections of the tower so that the final tower height is 690 feet above grade, and the addition of several dish antennas to support the Essex County emergency communications system. A new equipment shelter is proposed to be located near the existing 890-foot guyed tower, at a location approximately 15 feet to the northwest of the tower base. The new shelter will measure approximately 10 feet by 16 feet in footprint.

### **3.0 SUBSURFACE INVESTIGATION**

The subsurface investigation consisted of the drilling of four borings, designated as B-1 through B-4. Boring B-1 was performed as near to the existing tower base as possible to a depth of 8.9 feet below grade. Boring B-2 was performed within the proposed shelter location to a depth of 6.3 feet below grade. Borings B-3 and B-4 were performed in-between the southwest and southeast arrays of guy anchors to depths between 5.4 feet and 8.6 feet below grade. The northern guy anchors array could not be accessed due to the steeply sloping terrain. The boring locations are shown on the attached Boring Location Plan (Figure 1).

The borings were drilled by TransTech Drilling Services, Inc. on August 18 and 19, 2011. The borings were advanced using a 2-1/2 inch diameter rotary drill bit through soil materials, and an NQ-size double-tube core barrel through bedrock. Standard Penetration Testing (SPT) was conducted continuously where soil was encountered over the rock. Rock coring was performed in a minimum 5-foot length at each boring location. A geotechnical engineer prepared logs of the subsurface conditions encountered within each boring. Copies of the boring logs are attached to this letter.

#### **4.0 SUBSURFACE CONDITIONS**

The subsurface conditions at the site consist of relatively thin layers of topsoil and native soil overlying bedrock. The topsoil was measured to be up to 4 inches thick at the borings. The native soils were encountered to depths between 0.4 and 3.6 feet below grade. The native soil generally consists of silty sand with some gravel.

Bedrock was encountered at depths ranging from 0.4 to 3.6 feet below grade at the boring locations. The bedrock at the site consists of grey to dark grey, slightly weathered, slightly to moderately fractured, medium to coarse grained, hard granite with traces of quartz. Fracture planes within the bedrock are oriented at angles ranging from 0 to 60 degrees from horizontal. The Rock Quality Designations (RQD's) of the cored intervals ranged from 54 to 86 percent, indicating fair to good rock mass quality.

Groundwater was not reported to be present at any of the boring locations during or upon completion of drilling. Groundwater levels will fluctuate with season and weather conditions; therefore, groundwater should be anticipated to be encountered at a shallower depth at other times.

#### **5.0 DISCUSSION AND RECOMMENDATIONS**

Based on the results of the test borings and observations made at the site, it appears that the existing tower base is supported by an approximately 4-foot square concrete foundation bearing on the granite bedrock. The guy anchors are anchored by concrete blocks embedded below grade. The increase in axial load on the tower as a result of the proposed antennae installation should be added to the existing axial load on the tower foundation. The resistance which can be provided by each of the existing guy anchors should be checked against the final resistance which will be imposed on each anchor as a result of the new antennae installation. It should be noted that some of the guy anchors may be drilled or anchored into bedrock. If drilled rock anchors were used, their capacity would be difficult to quantify without detailed information on the diameter and depth of the anchor.

The following subsections provide soil properties that can be utilized to evaluate the allowable bearing, uplift and lateral capacity of the foundations.

##### **5.1 Tower Base**

The foundation at the base of the tower consists of a 4.0-foot square concrete mat that appears to bear directly on bedrock. Based on these dimensions and the observed rock hardness and degree of weathering and fracturing, the foundation should be assumed to have an allowable bearing capacity of 20 tons per square foot (tsf) when analyzing the tower in accordance with TIA-222-F. Sliding at the base of the tower due to lateral loads should be evaluated using a

frictional coefficient of 0.6 between the foundation concrete and bedrock. Passive earth pressure should be ignored.

## 5.2 Guy Anchorages

Each of the guy anchorages will resist the uplift and lateral forces exerted by the guy wires through a combination of dead weight, resistance to shear, and passive earth pressure. The passive earth pressure will occur, as a result of the lateral loading, along the face of the concrete blocks that are oriented perpendicular to the direction of the guy anchor and are closest to the tower. Frictional resistance will also be developed along the sides and base of the block in the opposite direction of the applied force.

Resistance to uplift forces will be in the form of dead weight of soil and concrete, and rock shear resistance along the anticipated failure planes. It is assumed that the deadmen directly abut bedrock along the side of excavation that faces the tower. When evaluating the dead weight of soil over the concrete foundation, the volume of soil should be determined based on lines extending vertically upward from the edges of the foundation (ignore cone failure methods). The shear resistance of the rock may be determined using a combined friction-cohesion model, assuming formation of a large rock wedge does not occur.

The table below provides recommended parameters for use in evaluating the rock resistance to the imposed lateral and uplift loads:

Bedrock Property	Units	
Total Unit Weight	Pounds per cubic foot	140
Friction Angle	Degrees	30
Cohesion	Pounds per square foot	10,000
Ultimate Friction Factor ( $\tan \delta$ where $\delta$ is the friction angle of bedrock against concrete)	NA	0.6

The actual dimensions and depths of the deadmen should be verified as part of the evaluation of their stability. This may be possible through non-destructive testing methods, or by performing test pit excavations against the deadmen anchors. If the results of the analysis of the existing guy anchors indicates that additional resistance to the uplift loading is required, additional resistance can be achieved by increasing the size of the blocks or by anchoring the blocks to the rock using rock anchors. Design recommendations for rock anchors can be provided upon request.

### **5.3 Equipment Shelter Foundation Recommendations**

The equipment shelter can be supported on a conventional spread footing bearing on the bedrock. There is no minimum depth requirement when bearing on solid bedrock. An allowable net bearing pressure of 4 tons per square foot (tsf) should be used to size footings bearing on bedrock.

A single mat (slab) foundation may also be utilized to support the equipment shelter. The mat should be constructed directly on a competent bedrock subgrade.

### **5.4 Equipment Shelter Foundation Construction Considerations**

The foundation subgrade should be prepared by excavating to the bearing depth using hydraulic excavation or rock chipping equipment or controlled blasting (if permitted), and using compressed air, brooms and/or hand shovels to remove all soil and broken rock materials loosened by excavation. The subgrade should then be inspected by the geotechnical engineer to observe and document that the materials are consistent with those described in this report (granitic gneiss bedrock). Any unsuitable materials (soil or rock other than those recommended for bearing) should be removed as directed by the geotechnical engineer. The area of removal should be within the zone of influence of the foundation, which is defined by imaginary lines sloping downward and outward from the bottom edge of the foundation at a 1 to 1 (Horizontal to Vertical) slope.

Competent bedrock encountered above the subgrade elevation should be removed to create a level bearing surface. Contractors involved in the excavation for the foundation should anticipate the need for rock removal. Over-excavated or uneven areas within the subgrade should be filled with concrete.

The bedrock surface is anticipated to be variable across the foundation area. The bedrock surface should be leveled to allow foundation construction on a surface sloping no steeper than 5 to 1 (Horizontal to Vertical).

Static groundwater is not anticipated during construction. However, perched water seepage requiring dewatering may be encountered during foundation excavation depending upon the season and rainfall conditions at the time of construction. Surface water runoff around the excavation should be intercepted outside of the subgrade area.



## 6.0 RESISTIVITY TEST RESULTS

The resistivity testing was performed by setting two potential-measuring electrodes between two current carrying electrodes at various spacing for the purpose of measuring the resistance generated by the soils when passing the current through the soil. The current drop measured by the potential-measuring electrodes provides an indication of the resistance of a soil column equal in thickness to the spacing of the electrodes. The electrode spacing was equal for all spacings between the total of four electrodes during each test.

The test is run by inducing a current through the outer current-carrying electrodes and measuring the voltage drop between the inner potential-measuring electrodes. Three test lines were performed at the locations indicated on the attached Figure 1. The test spacing indicated above was performed for each test line, indicated as RT-1 through RT-3. Site constraints prohibited performing the tests at greater spacing. The results of the resistivity testing are included on the attached forms and summarized below:

<u>MEASURED RESISTIVITY FOR VARYING ELECTRODE SPACING (Ohm-cm)</u>					
TEST NO.	ELECTRODE SPACING				
	2 FT	4 FT	8 FT	12 FT	16 FT
RT-1	478,750	NA	536,200	NA	333,976
RT-2	517,050	666,420	873,240	551,520	520,880
RT-3	384,915	919,200	689,400	NA	551,520

NA – TEST COULD NOT BE PERFORMED DUE TO SITE CONSTRAINTS

## 7.0 LIMITATIONS

Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable geotechnical engineers and geologists practicing in this or similar situations. The interpretation of the field data is based on good judgment and experience. However, no matter how qualified the geotechnical engineer or detailed the investigation, subsurface conditions cannot always be predicted beyond the points of actual sampling and testing. No other warranty, expressed or implied, is made as to the professional advice included in this report.

The recommendations provided within this report are for design purposes only. Contractors and others involved in the construction of this project are recommended to make an independent assessment of the soil, bedrock, and groundwater conditions for the purposes of establishing quantities, schedules, costs, and construction techniques.

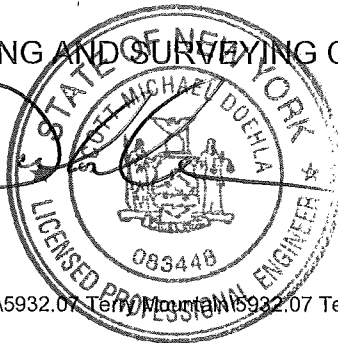
This report has been prepared for the exclusive use of Essex County Emergency Services for the specific application to the existing guyed tower and proposed equipment shelter installations detailed in this report. In the event that any changes in the design or location of the proposed equipment shelter are planned, the conclusions and recommendations contained in this report shall not be considered valid unless reviewed and verified in writing by Tectonic Engineering & Surveying Consultants P.C. It is recommended that Tectonic be retained to provide construction monitoring and inspection services to ensure proper implementation of the recommendations contained herein, which would otherwise limit our professional liability.

We trust this report will allow you to proceed with design of the proposed foundations.

Sincerely,

TECTONIC ENGINEERING AND SURVEYING CONSULTANTS P.C.

  
Scott M. Doehla, P.E.  
Manager of Engineering



G:\Latham\Geotechnical\5932.Essex\5932.07 Terry Mountain\5932.07 Terry geo rept.doc

Attachments:      Boring Location Plan (Figure 1)  
                         Boring Logs  
                         Legend for Soil Description  
                         Resistivity Test Results



BORING LOG 5932-07.GPJ TECTONIC ENG.GDT 9/22/11

TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.										PROJECT No. 5932.07		BORING No. B-1				
										PROJECT: Terry Mountain						
										LOCATION: Peasleeville, NY		SHEET No. 1 of 1				
CLIENT: Essex County						GROUND WATER	DATE	TIME	DEPTH	INSPECTOR: Cory MacFee						
CONTRACTOR: TransTech Drilling Services, Inc.							8/18/11		NE	DRILLER: John Leonhardt						
METHOD OF ADVANCING BORING		DIA.	DEPTH							SURFACE ELEVATION: ---						
POWER AUGER:			TO		MON. WELL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			DATUM: See Remarks								
ROT. DRILL:		2 1/2"	0	TO 0.9'		SCREEN DEPTH: --- TO ---			DATE START: 8/18/11							
CASING:		3"	0	TO 0.9'		WEATHER: Rain TEMP: 65° F			DATE FINISH: 8/18/11							
DIAMOND CORE:		NQ	0.9	TO 8.9'		DEPTH TO ROCK: 0.9' <th colspan="2">UNCONFINED COMPRESS. STRENGTH (TONS/FT)</th> <th colspan="2" rowspan="3">DEPTH (FT.)</th>			UNCONFINED COMPRESS. STRENGTH (TONS/FT)		DEPTH (FT.)					
CME 750 Track with Auto Hammer						*CHANGES IN STRATA ARE INFERRED <th colspan="2">1 2 3 4 5</th>			1 2 3 4 5							
DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES			UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	STANDARD PENETRATION (BLOWS/FT.)							
			SAMPLE NUMBER	RECOV. LENGTH (IN.)	ROD (%)				MOISTURE	PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %				
1	50+	1 50/4	S-1	3		M	SM	2" Topsoil Bwn c-f SAND, some Silt, trace c-f Gravel, roots within sample Refusal @ 0.9'							1	
2	14															2
3	14															3
4	14		C-1	60/60	78			Gy, slightly weathered, moderately fractured, medium grained, hard GRANITE with fractures oriented from 0 to 45 degrees with Quartz								4
5	14															5
6	14															6
7	14															7
8	14		C-2	36/36	86			Same								8
9																9
10								End of Boring at 8.9'								10
11																11
12																12
13																13
14																14
15																15
16																16
17																17
18																18
19																19
20																20
21																21
22																22
23																23
24																24
25																25

REMARKS: Surface elevation data not available.

<b>TECTONIC</b> <small>ENGINEERING &amp; SURVEYING CONSULTANTS P.C.</small>										PROJECT No. 5932.07		<b>BORING No. B-2</b>				
										PROJECT: Terry Mountain						
										LOCATION: Peasleeville, NY		SHEET No. 1 of 1				
CLIENT: Essex County						GROUND WATER	DATE	TIME	DEPTH	INSPECTOR: Cory MacFee						
CONTRACTOR: TransTech Drilling Services, Inc.							8/18/11		NE	DRILLER: John Leonhardt						
METHOD OF ADVANCING BORING		DIA.	DEPTH						SURFACE ELEVATION: ---							
POWER AUGER:			TO		MON. WELL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			DATUM: See Remarks								
ROT. DRILL:		2 1/2"	0	TO 1.3'		SCREEN DEPTH: --- TO ---			DATE START: 8/18/11							
CASING:		3"	0	TO 1.3'		WEATHER: Overcast TEMP: 68° F			DATE FINISH: 8/19/11							
DIAMOND CORE:		NQ	1.3	TO 6.3'		DEPTH TO ROCK: 1.3'			UNCONFINED COMPRESS. STRENGTH (TONS/FT)							
CME 750 Track with Auto Hammer						*CHANGES IN STRATA ARE INFERRED			1 2 3 4 5					DEPTH (FT.)		
DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES			UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %							
			SAMPLE NUMBER	RECOV. LENGTH (IN.)	ROD (%)				MOISTURE	X --- ⊗ --- Δ						
										10 20 30 40 50						
STANDARD PENETRATION (BLOWS/FT.)										10 20 30 40 50						
1	51+	1 50/3	S-1	1		M	SM	2" Topsoil Bwn c-f SAND, some Silt, trace c-f Gravel Refusal @ 1.3'							1	
2	30															2
3	30															3
4	15		C-1	51/60	65			Wht to gy, slightly weathered,highly to slightly fractured, coarse to fine grained, hard GRANITE with fractures oriented 0 to 60 degrees from horizontal, weathering and fracturing decreased with depth								4
5	15															5
6	15															6
7								End of Boring at 6.3'								7
8																8
9																9
10																10
11																11
12																12
13																13
14																14
15																15
16																16
17																17
18																18
19																19
20																20
21																21
22																22
23																23
24																24
25																25
REMARKS: Surface elevation data not available.																

BORING LOG 5932-07.GPJ TECTONIC.ENG.GDT 9/22/11

<b>TECTONIC</b> ENGINEERING & SURVEYING CONSULTANTS P.C.				PROJECT No. 5932.07			<b>BORING No. B-3</b>										
				PROJECT: Terry Mountain													
				LOCATION: Peasleeville, NY			SHEET No. 1 of 1										
CLIENT: Essex County				GROUND WATER	DATE	TIME	DEPTH	INSPECTOR: Cory MacFee									
CONTRACTOR: TransTech Drilling Services, Inc.					8/19/11		NE	DRILLER: John Leonhardt									
METHOD OF ADVANCING BORING		DIA.	DEPTH					SURFACE ELEVATION: ---									
POWER AUGER:			TO	MON. WELL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			DATUM: See Remarks										
ROT. DRILL:		2 1/2"	0 TO 0.4'	SCREEN DEPTH: --- TO ---			DATE START: 8/19/11										
CASING:		3"	0 TO 0.4'	WEATHER: Overcast TEMP: 68° F			DATE FINISH: 8/19/11										
DIAMOND CORE:		NQ	0.4 TO 5.4'	DEPTH TO ROCK: 0.4'			UNCONFINED COMPRESS. STRENGTH (TONS/FT)										
CME 750 Track with Auto Hammer				*CHANGES IN STRATA ARE INFERRED													
DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES				UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	UNCONFINED COMPRESS. STRENGTH (TONS/FT)					DEPTH (FT.)		
			SAMPLE NUMBER	RECOV.		MOISTURE				1	2	3	4	5			
				LENGTH (IN.)	RQD (%)												
										PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %					
										X	---	---					
										10	20	30	40				
										STANDARD PENETRATION (BLOWS/FT.)							
										10	20	30	40	50			
1	18	50/4	S-1	0				No Recovery Refusal @ 0.4'							1		
2	18							Blk-dk gy, slightly weathered, highly fractured to massive, hard, GRANITE GNEISS with fractures @ 0 to 15 degrees from horizontal								2	
3	18		C-1	60/60	54.2												3
4	18																4
5	18																5
6								End of Boring at 5.4'								6	
7																7	
8																8	
9																9	
10																10	
11																11	
12																12	
13																13	
14																14	
15																15	
16																16	
17																17	
18																18	
19																19	
20																20	
21																21	
22																22	
23																23	
24																24	
25																25	
REMARKS: Surface elevation data not available.																	

<b>TECTONIC</b> ENGINEERING & SURVEYING CONSULTANTS P.C.		PROJECT No. 5932.07		<b>BORING No. B-4</b>										
		PROJECT: Terry Mountain												
		LOCATION: Peasleeville, NY												
CLIENT: Essex County		GROUND WATER DATE 8/15/11 TIME DEPTH NE	INSPECTOR: Cory MacFee		SHEET No. 1 of 1									
CONTRACTOR: TransTech Drilling Services, Inc.			DRILLER: John Leonhardt											
METHOD OF ADVANCING BORING	DIA.		DEPTH	SURFACE ELEVATION: ---										
POWER AUGER:		TO	MON. WELL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		DATUM: See Remarks									
ROT. DRILL:		0 TO 3.6'	SCREEN DEPTH: --- TO ---		DATE START: 8/19/11									
CASING:		0 TO 3.6'	WEATHER: Overcast TEMP: 75° F		DATE FINISH: 8/19/11									
DIAMOND CORE:	NQ	3.6 TO 8.6'	DEPTH TO ROCK: 3.6'		UNCONFINED COMPRESS. STRENGTH (TONS/FT.) 1 2 3 4 5 PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT % X---O---△ 10 20 30 40 50 STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50									
CME 750 Track with Auto Hammer		*CHANGES IN STRATA ARE INFERRED												
DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES			UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*						DEPTH (FT.)
			SAMPLE NUMBER	RECOV. LENGTH (IN.)	ROD (%)				MOISTURE	PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %		
1	11	1 4 7	S-1	0			4" Topsoil No Recovery							1
2		15												2
3	50+	27 50/1	S-2	4		M	Bwn c-f SAND, some Silt, some c-f Gravel Refusal @ 3.6'							3
4	12													4
5	12													5
6	12		C-1	60/60	72		Dk gy, slightly weathered, moderately fractured, medium to coarse grained, hard GRANITE & QUARTZ with fractures oriented @ 0 to 15 degrees from horizontal;							6
7	12													7
8	12													8
9														9
10							End of Boring at 8.6'							10
11														11
12														12
13														13
14														14
15														15
16														16
17														17
18														18
19														19
20														20
21														21
22														22
23														23
24														24
25														25

REMARKS: Surface elevation data not available.

### LEGEND FOR SOIL DESCRIPTION

#### GRANULAR SOIL (Coarser than No. 200 Sieve)

##### DESCRIPTIVE TERM

Coarse - c  
Medium - m  
Fine - f

##### COBBLES

##### BOULDERS

##### GRAIN SIZE

##### SAND

No. 4 Sieve to No. 10 Sieve  
No. 10 Sieve to No. 40 Sieve  
No. 40 Sieve to No. 200 Sieve  
3" TO 10"  
10" +

##### GRAVEL

3" to 3/4"  
3/4" to 3/16"

##### GRADATION DESIGNATIONS

Fine, f  
Medium to Fine, m-f  
Medium, m  
Coarse to medium, c-m  
Coarse, c  
Coarse to fine, c-f

##### PROPORTIONS OF COMPONENT

Less than 10% coarse and medium  
Less than 10% coarse  
Less than 10% coarse and fine  
Less than 10% fine  
Less than 10% medium and fine  
All greater than 10%

#### COHESIVE SOIL (Finer than No. 200 Sieve)

##### DESCRIPTION

Silt  
Clayey Silt  
Silt & Clay  
Clay & Silt  
Silty Clay  
Clay

##### PLASTICITY INDEX

0-1  
2-5  
6-10  
11-20  
21-40  
Greater Than 40

##### PLASTICITY

None  
Slight  
Low  
Medium  
High  
Very High

##### PROPORTION

##### DESCRIPTIVE TERM

trace  
little  
some  
and

##### PERCENT SAMPLE BY WEIGHT

1-10  
10-20  
20-35  
35-50

The Primary component is fully capitalized

##### COLOR

Blue	- blue	Gy	- gray	Wh	- white	Yl	- yellow
Blk	- black	Or	- orange	Tn	- tan	Lgt	- light
Bwn	- brown	Rd	- red	Gn	- green	Dk	- dark

##### SAMPLE NOTATION

S	- Split Spoon Soil Sample	WOC	- Weight of Casing
U	- Undisturbed Soil Sample	WOR	- Weight of Rod
C	- Core Sample	WOH	- Weight of Hammer
B	- Bulk Soil Sample	PPR	- Compressive Strength Based on Pocket Pentrometer
NR	- No Recovery of Sample	TV	- Shear Strength (tsf) Based on Torvane

### LEGEND FOR ENGINEERING ROCK CLASSIFICATION AND CORE DESCRIPTION (1)

#### DESCRIPTIVE TERMINOLOGY FOR JOINT SPACING

##### DESCRIPTIVE TERM

Very Close  
Close  
Medium  
Wide  
Very Wide

##### SPACING OF JOINT

Less Than 2 1/2 inches  
2 1/2 to 8 inches  
8 to 24 inches  
2 to 6 feet  
Greater than 6 feet

#### RELATIONSHIP OF RQD AND ROCK QUALITY

##### Rock Quality

##### Designation (RQD) (2)

0-25%  
25-50%  
50-75%  
75-90%  
90-100%

##### Description of Rock

Quality  
Very Poor  
Poor  
Fair  
Good  
Excellent

- (1) Core description system is based on a suggested system proposed in the Design manual 7.1 – Soil Mechanics, Department of the Navy, Navy Facilities Engineering Command, (May 1982).
- (2) "Rock Quality Designation" is defined as a modified core recovery ration which considers only pieces of core that are at least 4 inches long. Obvious fractures introduced by drilling are ignored in this system.



DATE: August 19 2011

CLIENT: Essex County	DEPTH OF SEEPAGE: NE	PROJECT: Terry Mountain
CONTRACTOR: Transtech Drilling Services	DEPTH TO GROUNDWATER: NE	LOCATION: Peasleeville, NY
EQUIPMENT: Nilsson Model 400	DEPTH TO BEDROCK: 0'-1.3' (per borings)	INSPECTOR: Cory MacFee
	SURFACE ELEVATION: N/A	DATUM: N/A

Location of Test: Near proposed tower location

Electrode Spacing "a" (ft)	Electrode Depth (a/20)	Measured Average Soil Resistance	Soil Resistivity (ohm-cm)
2 FT      2	0.1	1,250	478,750
4 FT      8	.4	350	536,200
8 FT     16	.8	109	333,976
12 FT			
16 FT			

Other \_\_\_\_\_

Other \_\_\_\_\_

Orientation of Leads: northwest to southeastTopography: rocky outcrops, gradual to steep declinesRemarks: Due to restrictive features of site, tests were limited to spacing mentioned above.Method of Resistivity Determination ☐ Nomogram ☒ P=2II aR (for homogenous soils)

DATE: August 19 2011

CLIENT: Essex County	DEPTH OF SEEPAGE: NE	PROJECT: Terry Mountain
CONTRACTOR: Transtech Drilling Services	DEPTH TO GROUNDWATER: NE	LOCATION: Peasleeveville, NY
EQUIPMENT: Nilsson Model 400	DEPTH TO BEDROCK: 0'-1.3' (per borings)	INSPECTOR: Cory MacFee
	SURFACE ELEVATION: N/A	DATUM: N/A

Location of Test: Near proposed tower location

Electrode Spacing "a" (ft)	Electrode Depth (a/20)	Measured Average Soil Resistance	Soil Resistivity (ohm-cm)
2 FT 2	0.1	1,350	517,050
4 FT 4	0.2	870	666,420
8 FT 8	0.4	570	873,240
12 FT 12	0.6	240	551,520
16 FT 16	0.8	170	520,880

Other \_\_\_\_\_

Other \_\_\_\_\_

Orientation of Leads: northeast to southwest

Topography: rocky outcrops, gradual to steep declines

Remarks: Due to restrictive features of site, tests were limited to spacing mentioned above.

Method of Resistivity Determination ☐ Nomogram ☒ P=2II aR (for homogenous soils)

DATE: August 19 2011

CLIENT: Essex County	DEPTH OF SEEPAGE: NE	PROJECT: Terry Mountain
CONTRACTOR: Transtech Drilling Services	DEPTH TO GROUNDWATER: NE	LOCATION: Peasleeveville, NY
EQUIPMENT: Nilsson Model 400	DEPTH TO BEDROCK: 0'-1.3' (per borings)	INSPECTOR: Cory MacFee
	SURFACE ELEVATION: N/A	DATUM: N/A

Location of Test: Near proposed tower location

Electrode Spacing "a" (ft)	Electrode Depth (a/20)	Measured Average Soil Resistance	Soil Resistivity (ohm-cm)
2 FT 2	0.1	1,005	384,915
4 FT 4	0.2	1,200	919,200
8 FT 8	0.4	450	689,400
12 FT			
16 FT 16	0.8	180	551,520

Other \_\_\_\_\_

Other \_\_\_\_\_

Orientation of Leads: northeast to southwestTopography: rocky outcrops, gradual to steep declinesRemarks: Due to restrictive features of site, tests were limited to spacing mentioned above.Method of Resistivity Determination ☐ Nomogram ☒ P=2II aR (for homogenous soils)



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Latham, NY 12110

(518) 783-1630 FAX: (518) 783-1544  
www.tectonicengineering.com

Essex County Emergency Services  
702 Stowersville Road  
P.O. Box 30  
Lewis, NY 12950

Attention: Donald Jaquish

September 27, 2011

**RE: W.O. 5932.10  
GEOTECHNICAL INVESTIGATION  
PROPOSED 50-FOOT SELF-SUPPORT TOWER  
WELLS HILL SITE  
189 SEVENTY LANE  
LEWIS, ESSEX COUNTY, NEW YORK**

Dear Mr. Jaquish,

Tectonic Engineering & Surveying Consultants P.C. has performed a subsurface investigation and geotechnical engineering analyses for the proposed self-support tower structure at the above-referenced site. This report presents our findings and recommendations for the design and construction of the foundations for these structures.

## **1.0 DESIGN CONSIDERATIONS**

The proposed self-support tower is a 50-foot tall, three-legged lattice structure that will be used to support communication antennas. The foundation supporting the tower is expected to be subjected to modest compressive and overturning loads and comparatively low horizontal loads. The ground equipment associated with the communication antennas is proposed to be housed within an existing equipment shelter at the site. The actual loads from the tower are to be determined by others.

## **2.0 SITE DESCRIPTION**

The project site is located at 189 Seventy Lane in the Town of Lewis, Essex County, New York, and is owned by the NYCO Minerals, Inc. The site currently consists of an active mine encompassing approximately one-half of the approximately 200 acre parcel. The property is located on the west side of Seventy Lane, approximately ½ mile north of Wells Hill Road/Carlott Lane. The portion of the property not occupied by the mining operation is generally densely wooded forest on a hillside which slopes downward towards the east. The portions of the site being actively mined have been

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cut into the bedrock and the land has been altered to allow truck and equipment travel throughout. The project site is located on the eastern boundary of the mining operation, at a location about 1,170 feet west of Seventy Lane. Gravel and dirt-covered access roads, which originate at Seventy Lane near an existing office building on the property, extend into the property, allowing access to the project site.

The project site contains an existing 20-foot tall self-support tower, a one-story equipment shelter, and an above-ground propane tank located within a relatively flat area just east of the access road. The surrounding area currently consists of level, unused land and contains some trees at the top edge of an existing slope to the east. At a location about 18 feet east of the existing shelter, the ground surface slopes downward towards the east at an approximately 1.25 to 1 (Horizontal to Vertical) for a height of about 45 feet. The slope appears to be a fill slope and the area was likely filled with excavation spoils from the mining operations. The proposed tower will be located about 12 feet south of the existing tower and 18 feet west of the existing shelter. A new cable bridge will be constructed to connect with the existing tower. Ground surface elevations around the proposed tower are relatively level at approximately El. +1,548 feet. No regarding of the site is anticipated to result from the proposed construction.

### **3.0 SUBSURFACE INVESTIGATION**

The subsurface investigation consisted of one test boring, designated as B-1, which was performed at the center of the proposed lattice tower to a depth of 40 feet. The boring was performed by TransTech Drilling Services, Inc. on August 22, 2011 using a rubber-track drill rig. The boring was advanced through overburden soils using 3-¼ inch inside diameter hollow-stem augers. Standard Penetration Testing (SPT) and split-spoon sampling, conducted in accordance with ASTM D 1586, was performed continuously to a depth of 13 feet and at maximum 5-foot intervals thereafter. Groundwater conditions were monitored during and upon completion of drilling. The boring operations were performed under the supervision of a geotechnical engineer. The geotechnical engineer also conducted soil resistivity testing at the site in accordance with the Wenner Four-Point Method as described in ASTM G57.

The boring location and resistivity test locations are shown on the attached Boring Location Plan, Figure 1. Typed copies of the boring log and resistivity test results are attached.

### **4.0 SUBSURFACE CONDITIONS**

The subsurface conditions consist of a relatively thick layer of existing fill overlying dense native sand. The following is a general description of the encountered subsurface conditions. Detailed descriptions can be found on the attached boring log.

Existing fill was encountered to a depth of about 38 feet within boring B-1, and consists primarily of sand and gravel with trace to some silt. The fill contained angular pieces of gravel and appears to be spoils from the results of the mining operation. SPT N-values within the fill ranged from 11 to 48 blows per foot (bpf) in the upper 9 feet, and generally decreased to between 4 and 10 bpf to a depth of 38 feet, with the exception of a sample recovered from 11 to 13 feet, which exhibited an N-value of 33 bpf. An abundance of wood and other organic materials were present at depths of 30 and 35 feet, indicating a possible transition from fill to native soil. Although SPT N-values indicate that the fill could be dense in some layers, the majority of the N-values indicate loose conditions. Considering that the fill was likely placed in an uncontrolled manner, the fill should be considered in a relatively loose condition. Based on observations made during drilling and sampling, the fill likely contains cobbles and boulders.

The soil underlying the fill generally consists of tan coarse to fine sand with little silt and little fine gravel. The SPT N-value of the native soils was 100 bpf, indicating very dense soil conditions.

No evidence of groundwater was encountered within any of the borings. Samples recovered at a depth of 40 feet exhibited an increase in moisture content, but did not appear to be saturated. It should be noted that groundwater conditions vary seasonally and with precipitation changes. Perched water may also be encountered following periods of wet weather or may result from variations in the permeability of the soils.

## **5.0 TOWER FOUNDATION RECOMMENDATIONS**

Due to the relatively thick layer of existing fill at the site, a single large mat which can evenly distribute the bearing pressure of the tower at low levels is recommended. The use of a deep foundation system would require drilling caissons to depths of 40 feet through loose fill containing cobbles and boulders, and would likely be costly and logistically difficult. In order to properly construct a stable subgrade for the mat, some remedial removal of the existing fill and replacement with structural fill is required. Recommendations for a single mat foundation are provided below:

### **5.1 Ultimate Bearing Pressure**

The mat should bear on a minimum 3-foot thick layer of compacted structural fill placed below the proposed foundation after removal of the existing fill. The foundation should also bear at least 5 feet below the ground surface for purposes of frost protection. The dimensions of the mat and the actual depth of embedment of the mat should be determined by the designer so as to provide sufficient resistance to overturning, sliding and vertical loading.

The mat should be designed utilizing a net allowable bearing pressure of 2,000 pounds per square foot (psf). The maximum compressive pressure at the edges of the mat that occur as a result of relatively high overturning moments should not exceed the design value after application of the reduction factor.

## **5.2 Subgrade**

The mat foundation subgrade should be within the existing fill soils and should be prepared approximately level, at a depth at least 3 feet below the proposed bottom of footing level. Proofrolling of the subgrade should then be achieved using a roller having a static weight of at least 5 tons. The soil and subgrade conditions at the site are anticipated to be relatively loose upon excavation. Proofrolling should continue until the subgrade is thoroughly recompacted. The excavation should extend at least 3 feet (laterally) in all directions around the proposed foundation.

Once a thoroughly compacted and dense overexcavated subgrade is achieved, structural fill should be placed in lifts not exceeding 8 inches in thickness and compacted in accordance with the requirements of Section 5.4 of this report. This should continue until the final subgrade bottom of foundation elevation is achieved.

Cobbles, boulders, and miscellaneous debris within the fill soils should be anticipated. The need to remove cobbles and boulders during excavation should be planned for by the contractors performing excavations at the site.

If perched water is present within the excavation, dewatering should be performed to maintain groundwater at least 2 feet below the subgrade level and prevent adverse affects to the strength of concrete. Additional recommendations relative to temporary construction dewatering are provided in Section 5.4.

## **5.3 Requirements for Sliding and Overturning**

The unit weight of backfill should be assumed to be 115 pounds per cubic foot (pcf). Backfill gradation and compaction requirements are presented in Section 5.4 of this report. A sliding coefficient of 0.35 should be used to calculate the ultimate sliding resistance of the foundation/soil interface.

The passive resistance of the backfill soil should be ignored within the upper 4 feet due to frost action of the soil. A passive coefficient of 3.00 should be used for design below this depth.

#### **5.4 Foundation Construction Considerations**

Special attention to excavation safety will be required due to the coarse-grained nature of the soils. The excavation sidewalls will likely ravel easily. The appropriate sloping should be provided to maintain excavation stability. All OSHA and State regulations pertaining to excavation safety should be followed during construction.

The foundation subgrade should be prepared by removing all soil loosened by machine excavation to at least 3 feet below the required bearing depth of the mat. The subgrade should then be thoroughly proofrolled with a minimum 5-ton vibratory roller making at least 4 passes in 2 perpendicular directions. Any soil materials found to be soft should be removed as directed by the geotechnical engineer. The area of removal should be within the zone of influence of the foundation as defined below. Overexcavated areas of unsuitable soil should be backfilled with structural fill. The existing fill and native soils contain cobbles and boulders, and these should be anticipated when performing excavations at the site.

Soils that become disturbed due to moisture (wet weather) are unsuitable for providing the recommended bearing capacity. During excavation and prior to backfilling, the ground surface around the mat excavation should be graded to divert surface water away from the excavation. The subgrade should be protected from wet weather until concrete is placed.

If groundwater is encountered, dewatering should be performed to maintain the groundwater level a minimum 2 feet below the deepest excavation in such a manner that the subgrade soils are not disturbed. Dewatering by sump pumps should not be conducted in subgrade areas. If sump pumps are utilized, they should be placed at a distance outside the subgrade area, and the excavation for the sumps should not intersect the zone of influence of the foundation. Subgrade areas disturbed by moisture should be removed from the foundation zone of influence and replaced with compacted structural fill or clean crushed gravel. The zone of influence is defined by imaginary lines sloping downward and outward from the perimeter of the mat at a 1 horizontal to 1 vertical slope.

Backfill around and above the foundation should be clean natural non-expansive soil free of organic matter, debris and rocks or hard lumps of material in excess of 4 inches in the longest dimension having a moisture content suitable for compaction.



Imported structural fill used to re-establish subgrade below the mat should be clean granular soil free of organic material or debris and conform to the following gradation:

<u>Sieve Size</u>	<u>Percent Finer by Weight</u>
4"	100
1/4"	30-70
No. 40	5-40
No. 200	0-10

The on-site soils are not suitable for use as structural fill without processing.

All fill should be compacted to at least 95 percent of the maximum dry density at near optimum moisture contents as determined by ASTM D1557. The lift thickness for the fill soils will vary depending on the type of compaction equipment used. Fill should generally be placed in uniform lifts not exceeding 8 inches in loose thickness. In confined areas, the loose lift thickness should be 4 inches or less and each lift should be compacted with sufficient passes of hand operated vibratory or impact compaction equipment. A geotechnical engineer with appropriate field and laboratory support should inspect all footing subgrades, approve materials for use as fill, and test fill materials for compliance with the recommended compaction. 3

The sides of the excavation should be sloped back for safety unless a sheeting or bracing system is used. OSHA and other applicable agency requirements pertaining to worker safety should be met during the excavation activities.

Care should be exercised during excavation so as not to undermine any existing structures to remain. If necessary, existing structure foundations should be underpinned. All underpinning and excavation shoring, if used, should be designed by a New York State licensed Professional Engineer.

## **6.0 RESISTIVITY TEST RESULTS**

The resistivity testing was performed by setting two potential-measuring electrodes between two current carrying electrodes at various spacing for the purpose of measuring the resistance generated by the soils when passing the current through the soil. The current drop measured by the potential-measuring electrodes provides an indication of the resistance of a soil column equal in thickness to the spacing of the electrodes. The electrode spacing was equal for all spacings between the total of four electrodes during each test.

The test is run by inducing a current through the outer current-carrying electrodes and measuring the voltage drop between the inner potential-measuring electrodes. Two test lines were performed at the locations indicated on the attached Figure 1. The test spacing indicated above was performed for each test line, indicated as RT-1 through RT-2. Site constraints prohibited performing the tests at greater spacing. The results of the resistivity testing are included on the attached forms and summarized below:

<b>MEASURED RESISTIVITY FOR VARYING ELECTRODE SPACING (Ohm-cm)</b>						
<b>TEST NO.</b>	<b>ELECTRODE SPACING</b>					
	2 FT	4 FT	8 FT	10 FT	16 FT	20 FT
RT-1	40,215	40,598	22,980	36,768	36,768	NA
RT-2	15,320	26,044	69,706	51,705	NA	17,618

NA – TEST COULD NOT BE PERFORMED DUE TO SITE CONSTRAINTS

## **7.0 LIMITATIONS**

Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable geotechnical engineers and geologists practicing in this or similar situations. The interpretation of the field data is based on good judgment and experience. However, no matter how qualified the geotechnical engineer or detailed the investigation, subsurface conditions cannot always be predicted beyond the points of actual sampling and testing. No other warranty, expressed or implied, is made as to the professional advice included in this report.

The recommendations contained in this report are for design purposes only. Contractors and others involved in this project are advised to make an independent assessment of the subsurface conditions for the purpose of estimating quantities and scheduling.

This report has been prepared for the exclusive use of Essex County for the specific application to the proposed self-support tower installation detailed in this report. In the event that any changes in the design or location of the proposed tower shelter are planned, the conclusions and recommendations contained in this report shall not be considered valid unless reviewed and verified in writing by Tectonic Engineering & Surveying Consultants P.C. It is recommended that Tectonic be retained to provide construction monitoring and inspection services to ensure proper implementation of the recommendations contained herein, which would otherwise limit our professional liability.

5932.10


Page 8

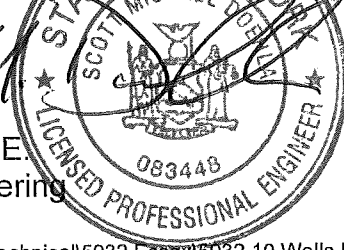
September 27, 2011

We trust this report will allow you to proceed with design of the proposed foundations.

Sincerely,

TECTONIC ENGINEERING AND SURVEYING CONSULTANTS P.C.

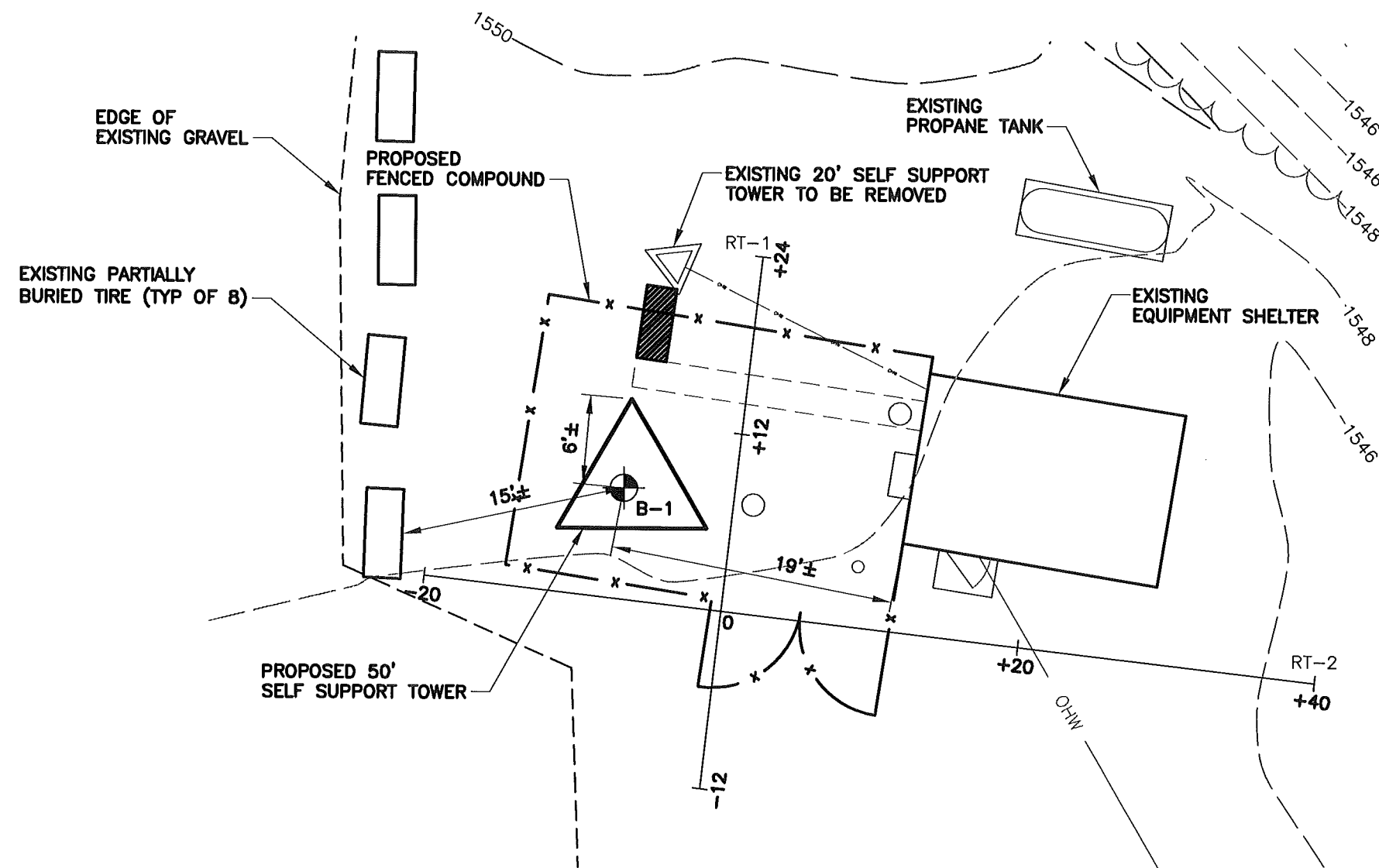
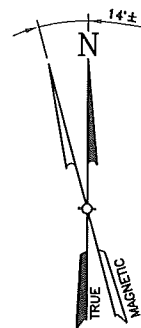
  
Scott M. Doehla, P.E.  
Manager of Engineering



SMD File G:\Latham\Geotechnical\5932.Essex\5932.10 Wells Hill\Report\5932.10 geo report.doc

Attachments:      Figure 1 - Boring Location Plan  
                         Boring Log  
                         Legend for Soil Description  
                         Resistivity Test Results

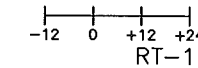
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## LEGEND



APPROXIMATE BORING LOCATION



APPROXIMATE RESISTIVITY TEST LOCATION

## NOTES

1. BORING & RESISTIVITY TEST LOCATIONS DETERMINED ON-SITE BY MEASURING FROM EXISTING SITE FEATURES.
2. BORING LOCATION PLAN BASED ON DRAWING ENTITLED "SITE DETAIL PLAN", DRAWING Z-2 BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C., DATED 8/11/11.

ORIGINAL SIZE IN INCHES



# TECTONIC

- PLANNING
- ENGINEERING
- SURVEYING
- CONSTRUCTION MANAGEMENT

TECTONIC Engineering & Surveying Consultants P.C. Phone: (518) 783-1630  
36 British American Boulevard, Suite 101 Fax: (518) 783-1544  
Latham, New York 12110 www.tectonicengineering.com

### BORING LOCATION PLAN

**PROPOSED 50-FOOT SELF SUPPORT TOWER**  
**SITE NAME: WELLS HILL**  
**189 SEVENTY LANE, TOWN OF LEWIS**  
**ESSEX COUNTY, NEW YORK**

Date 9/13/11	Work Order 5932.10	Drawing No. FIGURE 1	Rev 0
Scale 1" = 10'			

TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.										PROJECT No. 5932.10		BORING No. B-1						
PROJECT: Wells Hill										LOCATION: Lewis, NY								
CLIENT: Essex County										SHEET No. 1 of 2								
CONTRACTOR: TransTech Drilling Services, Inc.										GROUND WATER	DATE	TIME	DEPTH	INSPECTOR: Cory MacFee				
METHOD OF ADVANCING BORING											DIA.	DEPTH	8/22/11		35'	DRILLER: John Leonhardt		
POWER AUGER:											3 1/4"	0 TO 40'	MON. WELL	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	DATUM: See Remarks			
ROT. DRILL:											TO	SCREEN DEPTH: -- TO --			DATE START: 8/22/11			
CASING:											TO	WEATHER: Overcast	TEMP: 60° F		DATE FINISH: 8/22/11			
DIAMOND CORE:											TO	DEPTH TO ROCK: Not Encountered'		UNCONFINED COMPRESS. STRENGTH (TONS/FT)				
CME 750 Track Rig with Auto Hammer										*CHANGES IN STRATA ARE INFERRED								
DEPTH (FT.)	N OR MIN/FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES			UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	PLASTIC LIMIT %			WATER CONTENT %			LIQUID LIMIT %			ELEVATION (FT.)
			SAMPLE NUMBER	RECOV. LENGTH (IN.)	RQD (%)				MOISTURE	1	2	3	4	5	1	2	3	
1	11	3	S-1	20		M	2" Topsoil	[Hatched Pattern]										
2		4					Bwn c-f SAND, some c-f Gravel, trace Silt (FILL)											
3	60	19	S-2	22		M	Same (FILL)											
4		26																
5	100+	34	S-3	3		M	Wh-blk c-f GRAVEL, and c-f Sand (FILL)											
6	48	50/5																
7		100/4	S-4	18		M	Bwn c-f SAND, little c-f Gravel (FILL)											
8	11	28																
9		20																
10	5	12																
11		9	S-5				Bwn c-f SAND, some c-f Gravel, some Silt (FILL)											
12	33	6																
13		5																
14		4																
15		2																
16	8	3	S-6	10		M	Bwn-tn c-f SAND, and c-f Gravel, trace Silt (FILL)											
17		17																
18		16																
19		24																
20																		
21	4	1	S-7	1		M	Same (FILL)											
22		1																
23		22																
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REMARKS: Surface elevation estimated based on drawing entitled "Site Detail Plan", sheet Z-2 by Tectonic dated 8/11/11. Depth to groundwater estimated based on sample moisture content.

BORING LOG 5932-10.GPJ TECTONIC ENG.GDT 9/13/11

<div>TECTONIC</div> <div>ENGINEERING &amp; SURVEYING CONSULTANTS P.C.</div>								PROJECT No. 5932.10		BORING No. B-1										
								PROJECT: Wells Hill												
								LOCATION: Lewis, NY												
CLIENT: Essex County								SHEET No. 2 of 2												
CONTRACTOR: TransTech Drilling Services, Inc.																				
DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES				UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	UNCONFINED COMPRESS. STRENGTH (TONS/FT)					ELEVATION (FT.)					
			SAMPLE NUMBER	RECOV.		MOISTURE				1	2	3	4	5						
				LENGTH (IN.)	RQD (%)											PLASTIC LIMIT % X	WATER CONTENT % O	LIQUID LIMIT % A		
																			STANDARD PENETRATION (BLOWS/FT.) ●	
10	20	30	40	50																
26	6	2 3 3	S-9	8		M		Dk bwn SAND, some c-f Gravel, some Silt (FILL)		●										
27																				
28																				
29																				
30																			1518.0	
31	10	4 4 6	S-10	3		M		Dk bwn c-f SAND, little c-f Gravel, trace Silt (wood, organic matter) (FILL)		●										
32		5																		
33																				
34																				
35																			1513.0	
36	8	3 4 4	S-11	6		W		Dk bwn c-f SAND, little c-f Gravel, little Silt (Possible FILL)		●										
37		5																		
38																				
39																				
40																			1508.0	
41	100	5 54 46	S-12	22		M	SM	Dk bwn c-f SAND, some c-f Gravel, trace Silt		●									100	
42		35																		
43								End of Boring at 42'												
44																				
45																			1503.0	
46																				
47																				
48																				
49																				
50																			1498.0	
51																				
52																				
53																				
54																				
55																			1493.0	
REMARKS: Surface elevation estimated based on drawing entitled "Site Detail Plan", sheet Z-2 by Tectonic dated 8/11/11. Depth to groundwater estimated based on sample moisture content.																				

### LEGEND FOR SOIL DESCRIPTION

#### GRANULAR SOIL (Coarser than No. 200 Sieve)

##### DESCRIPTIVE TERM

Coarse - c  
Medium - m  
Fine - f

##### COBBLES

##### BOULDERS

##### SAND

No. 4 Sieve to No. 10 Sieve  
No. 10 Sieve to No. 40 Sieve  
No. 40 Sieve to No. 200 Sieve  
3" TO 10"  
10" +

##### GRAIN SIZE

##### GRAVEL

3" to ¾"  
¾" to 3/16"

##### GRADATION DESIGNATIONS

Fine, f  
Medium to Fine, m-f  
Medium, m  
Coarse to medium, c-m  
Coarse, c  
Coarse to fine, c-f

##### PROPORTIONS OF COMPONENT

Less than 10% coarse and medium  
Less than 10% coarse  
Less than 10% coarse and fine  
Less than 10% fine  
Less than 10% medium and fine  
All greater than 10%

#### COHESIVE SOIL (Finer than No. 200 Sieve)

##### DESCRIPTION

Silt  
Clayey Silt  
Silt & Clay  
Clay & Silt  
Silty Clay  
Clay

##### PLASTICITY INDEX

0-1  
2-5  
6-10  
11-20  
21-40  
Greater Than 40

##### PLASTICITY

None  
Slight  
Low  
Medium  
High  
Very High

##### PROPORTION

##### DESCRIPTIVE TERM

trace  
little  
some  
and

##### PERCENT SAMPLE BY WEIGHT

1-10  
10-20  
20-35  
35-50

The Primary component is fully capitalized

##### COLOR

Blue - blue	Gy - gray	Wh - white	Yl - yellow
Blk - black	Or - orange	Tn - tan	Lgt - light
Bwn - brown	Rd - red	Gn - green	Dk - dark

##### SAMPLE NOTATION

S - Split Spoon Soil Sample	WOC - Weight of Casing
U - Undisturbed Soil Sample	WOR - Weight of Rod
C - Core Sample	WOH - Weight of Hammer
B - Bulk Soil Sample	PPR - Compressive Strength Based on Pocket Pentrometer
NR - No Recovery of Sample	TV - Shear Strength (tsf) Based on Torvane

### LEGEND FOR ENGINEERING ROCK CLASSIFICATION AND CORE DESCRIPTION (1)

#### DESCRIPTIVE TERMINOLOGY FOR JOINT SPACING

##### DESCRIPTIVE TERM

Very Close  
Close  
Medium  
Wide  
Very Wide

##### SPACING OF JOINT

Less Than 2 ½ inches  
2 ½ to 8 inches  
8 to 24 inches  
2 to 6 feet  
Greater than 6 feet

#### RELATIONSHIP OF RQD AND ROCK QUALITY

##### Rock Quality

##### Designation (RQD) (2)

0-25%  
25-50%  
50-75%  
75-90%  
90-100%

##### Description of Rock

Quality  
Very Poor  
Poor  
Fair  
Good  
Excellent

- (1) Core description system is based on a suggested system proposed in the Design manual 7.1 – Soil Mechanics, Department of the Navy, Navy Facilities Engineering Command, (May 1982).
- (2) "Rock Quality Designation" is defined as a modified core recovery ration which considers only pieces of core that are at least 4 inches long. Obvious fractures introduced by drilling are ignored in this system.

DATE: August 17 2011

CLIENT: Essex County	DEPTH OF SEEPAGE: NE	PROJECT: Wells Hill
CONTRACTOR: Transtech Drilling Services	DEPTH TO GROUNDWATER: NE	LOCATION: Lewis, NY
EQUIPMENT: Nilsson Model 400	DEPTH TO BEDROCK: NE	INSPECTOR: Cory MacFee
	SURFACE ELEVATION: 1,548'	DATUM: See Remarks

Location of Test: Near proposed tower location

Electrode Spacing "a" (ft)	Electrode Depth (a/20)	Measured Average Soil Resistance	Soil Resistivity (ohm-cm)
2 FT 2	0.1	105	40,215
4 FT 4	0.2	53	40,598
8 FT 8	0.4	15	22,980
12 FT 10	0.5	16	36,768
16 FT 16	0.8	12	36,768

Other \_\_\_\_\_

Other \_\_\_\_\_

Orientation of Leads: North to SouthTopography: sloping downward to southeast, upward to northwestRemarks: Due to restrictive features of site, tests were limited to spacing mentioned above.

Elevation Estimate based on drawing entitled "site detail plan" sheet Z-2 dated 8/11/11 by Tectonic Engineering &amp; Surveying

Consultants PC.

Method of Resistivity Determination ☐ Nomogram ☐ P=2II aR (for homogenous soils)



DATE: August 17 2011

CLIENT: Essex County	DEPTH OF SEEPAGE: NE	PROJECT: Wells Hill
CONTRACTOR: Transtech Drilling Services	DEPTH TO GROUNDWATER: NE	LOCATION: Lewis, NY
EQUIPMENT: Nilsson Model 400	DEPTH TO BEDROCK: NE	INSPECTOR: Cory MacFee
	SURFACE ELEVATION: 1,548'	DATUM: See Remarks

Location of Test: Near proposed tower location

Electrode Spacing "a" (ft)	Electrode Depth (a/20)	Measured Average Soil Resistance	Soil Resistivity (ohm-cm)
2 FT 2	0.1	40	15,320
4 FT 4	0.2	34	26,044
8 FT 8	0.4	45.5	69,706
12 FT 10	0.5	22.5	51,705
16 FT 20	1.0	4.6	17,618

Other \_\_\_\_\_

Other \_\_\_\_\_

Orientation of Leads: East to WestTopography: sloping downward to southeast, upward to northwestRemarks: Due to restrictive features of site, tests were limited to spacing mentioned above.

Elevation Estimate based on drawing entitled "site detail plan" sheet Z-2 dated 8/11/11 by Tectonic Engineering &amp; Surveying

Consultants PC.

Method of Resistivity Determination ☐ Nomogram ☐ P=2II aR (for homogenous soils)

## Attachment E – Alarm Wiring Plan

Pins	Alarm Circuit Analog <b>OR</b> <sup>1</sup> NC Dry Contact Closures	Responsibility
1,26	<b>Tower lights</b>	Others
	<b>Smoke detectors</b>	Shelter VENDOR
2,27	Radio area photoelectric	
3,28	Radio area ionizing	
	<b>Door intrusion switches</b>	Shelter VENDOR
4,29	Radio room	
5,30	Generator room	
	<b>Temperature sensors</b>	Shelter VENDOR
6,31	Actual <b>OR</b> Radio area >90F	
7,32	Actual <b>OR</b> Radio area <40F	
8,33	Actual <b>OR</b> Generator area >90F	
9,34	Actual <b>OR</b> Generator area <40F	
	<b>HVAC operating status</b>	Shelter VENDOR
10,35	Primary	
11,36	Secondary	
12,37	<b>Commercial power failure relay</b>	Shelter VENDOR
	<b>Generator alarms</b>	Others
13,38	Low oil pressure	
14,39	High coolant temperature	
15,40	Engine oil temperature	
16,41	Low fuel	
17,42	Generator run	
18,43	Generator fail	
19,44	Over speed	
20,45	Over voltage	
21,46	Under voltage	
22,47	Over crank	
23,48	Low battery voltage	
24,49	<b>Transfer switch indication</b>	Generator VENDOR
25,50	Unused	Not applicable

<sup>1</sup> See note in Section 2.3 O

## **Attachment F – Preliminary Zoning Drawings**

The file containing the preliminary zoning drawings, *Attachment F – Shelter RFP Preliminary ZDs.pdf*, is provided electronically as Attachment F of this RFP.

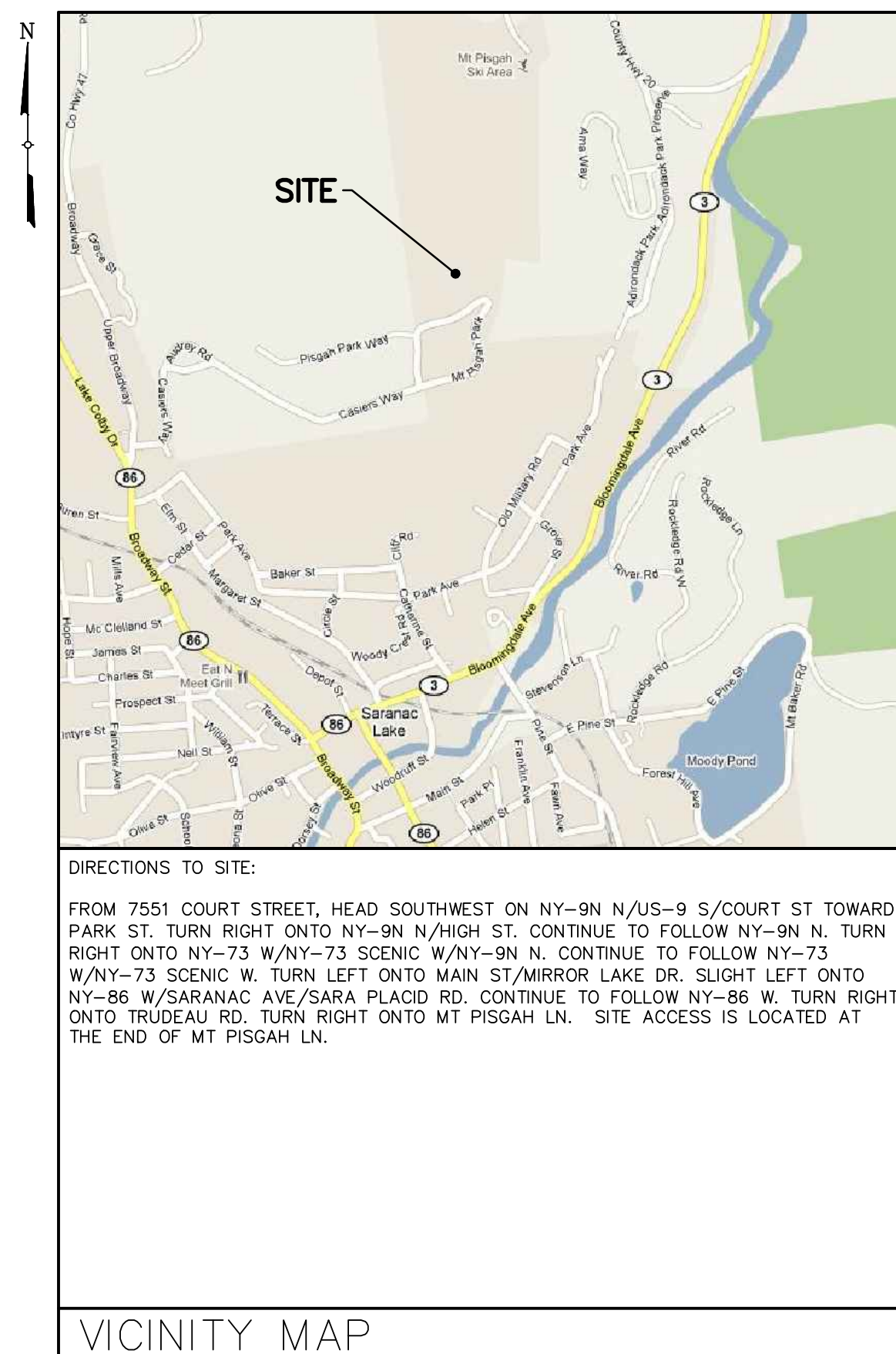
### **NOTES –**

- *VENDORS must review the Mount Pisgah preliminary zoning drawing along with Attachment G to determine whether a prefabricated or panel-built (erect onsite) equipment shelter should be proposed based on site access, the desired equipment shelter location, and considering crane operations and installation work with nearby utility lines.*

*The County desires to position the Mount Pisgah equipment shelter at the location depicted as “Option 1” on the preliminary zoning drawing. It is possible to temporarily disconnect the tower guy wire extending over this location as displayed in the preliminary zoning drawing.*

- *A preliminary zoning drawing is not currently available for Belfry Mountain. The preliminary zoning drawing will be provided to the VENDOR when available.*

SITE NAME:  
MOUNT PISGAH



SITE NAME:	SUMMIT MOUNT PISGAH
SITE ADDRESS:	SUMMIT OF MOUNT PISGAH SKI AREA SARANAC LAKE, NY 12983
MUNICIPALITY:	TOWN OF SAINT ARMAND
COUNTY:	ESSEX
TAX MAP NUMBER:	32.029-1-26.00
TOWER COORDINATES:	N 44° 20' 28" W 74° 07' 41"
GROUND ELEVATION:	2092± AMSL
PROPERTY OWNER:	HARRIS CORPORATION 1025 WEST NASA BLVD MELBOURNE, FL 32919-0001 (321) 727-9100
APPLICANT:	ESSEX COUNTY 7551 COURT STREET P.O. BOX 217 ELIZABETHTOWN, NY 12932
CONTACT PERSON:	DONALD JAQUISH DIRECTOR/FIRE COORDINATOR ESSEX COUNTY EMERGENCY SERVICES 702 STOWERSVILLE RD P.O. BOX 30 LEWIS, NY 12950
CONTACT PHONE:	(518) 873-3901

PROJECT DESCRIPTION:  
THE PROPOSED PROJECT CONSISTS OF INSTALLING TWO (2) 6' DISH ANTENNAS, ONE (1) 8' DISH ANTENNA, ONE (1) 19.8' LAND MOBILE RADIO (LMR) WHIP ANTENNA, ONE (1) 5' LMR CORNER REFLECTOR, AND ONE (1) 13.8' WHIP ANTENNA ON EXISTING TOWER AND CONSTRUCTION OF A NEW EQUIPMENT SHELTER. TWO (2) 4' DISH ANTENNAS AND ONE (1) 6' DISH ANTENNA WILL BE REMOVED.

# PROJECT SUMMARY

---

## Before You Dig, Drill Or Blast!

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**New York**

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PROTECTIVE ORGANIZATION

CALL US TOLL FREE 1-800-962-7962

NY industrial code rule 753 requires no less than two working days notice, but not more than ten days notice.

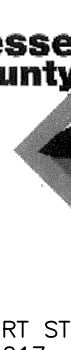

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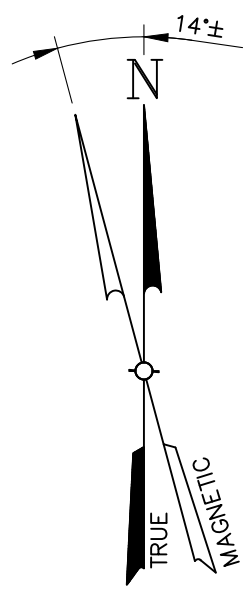
### DIG SAFELY — NEW YORK

[illegible]

**DO NOT SCALE DRAWINGS**

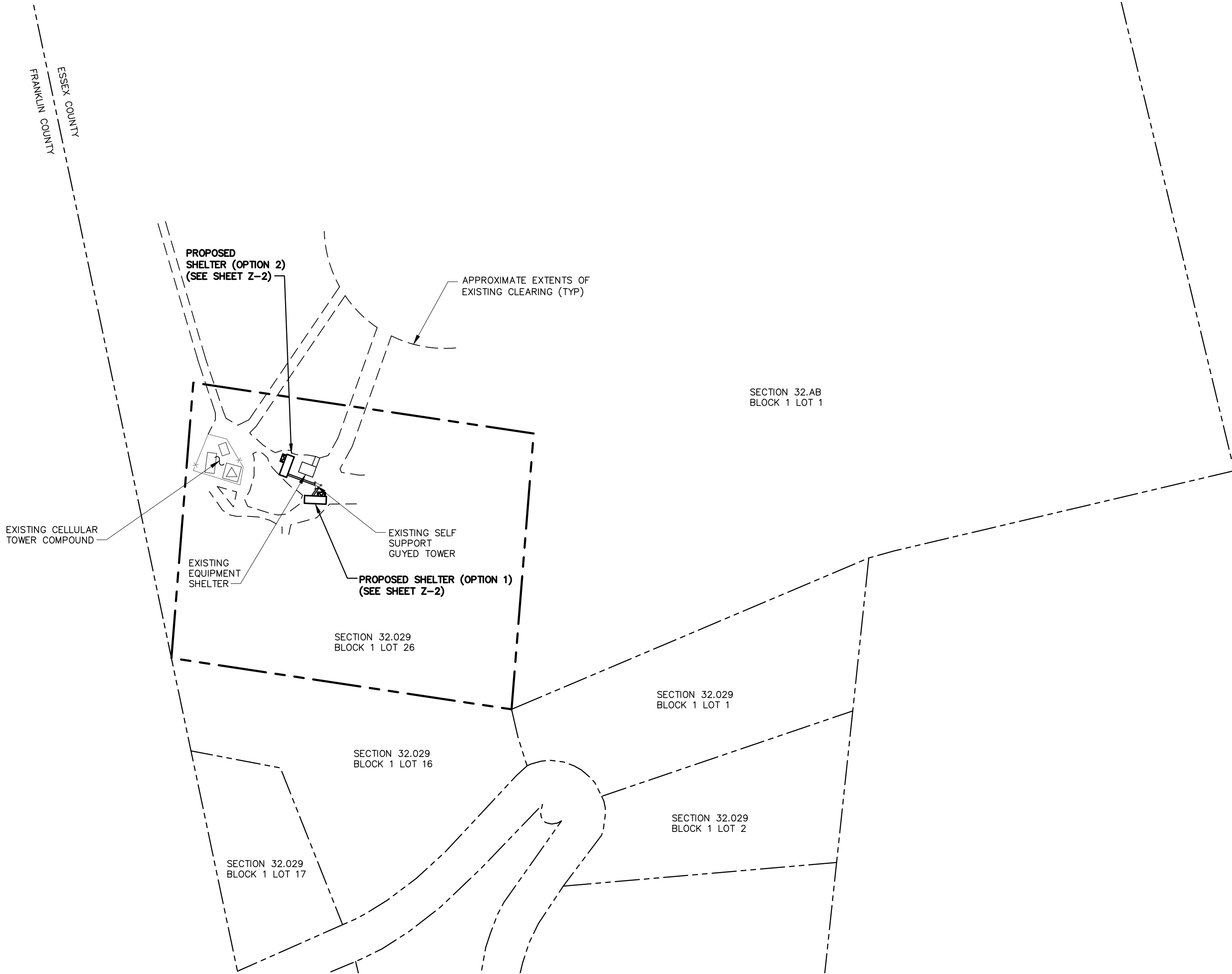
THESE DRAWINGS ARE FORMATTED FOR 24"X36". OTHER SIZED VERSIONS ARE NOT PRINTED TO THE SCALE SHOWN. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

<b>essex</b> <b>county</b>		<b>NY</b>
7551 COURT STREET P.O. BOX 217 ELIZABETHTOWN, NY 12932		
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> <b>TECTONIC</b> </div>		<ul style="list-style-type: none"> <li>• PLANNING</li> <li>• ENGINEERING</li> <li>• SURVEYING</li> <li>• CONSTRUCTION MANAGEMENT</li> </ul>
<b>TECTONIC</b> Engineering & Surveying Consultants P.C. 36 British American Blvd., Suite 101 Latham, NY 12110 Phone: (518) 783-1630 Fax: (518) 783-1544 <a href="http://www.tectoniceengineering.com">www.tectoniceengineering.com</a>		
<b>DESIGN APPROVAL</b>		
PRELIMINARY/CONSTRUCTION		
RF ENG. _____	DATE: _____	
EQPT. ENG. _____	DATE: _____	
OPERATIONS _____	DATE: _____	
CONST. MGR. _____	DATE: _____	
NETWORK ENG. _____	DATE: _____	
REAL ESTATE _____	DATE: _____	
<b>WORK ORDER NUMBER</b> <div style="border: 1px solid black; padding: 2px; text-align: center;">5932.06</div>	<b>DRAWN BY</b> <div style="border: 1px solid black; padding: 2px; text-align: center;">SLL</div>	
<b>NO. DATE ISSUE</b>		
0	7/26/11	FOR COMMENT
1	9/16/11	PER COMMENTS
2	9/23/11	PER COMMENTS
3	12/2/11	REVISED SHELTER
4	12/20/11	FOR ZONING
5	2/13/12	PER COMMENTS
6	4/5/12	PER COMMENTS
7	4/26/12	PER SURVEY
<b>RELEASED BY</b>		<b>DATE</b>
UNAUTHORIZED ALTERATION OR ADDITIONS TO A PLAN BEARING THE SEAL OF A LICENSED ENGINEER OR LAND SURVEYOR IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.		
COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.		
 ORIGINAL SIZE IN INCHES		
<b>SITE INFORMATION</b>		
MOUNT PISGAH SUMMIT OF MOUNT PISGAH SKI AREA TOWN OF SAINT ARMAND ESSEX COUNTY NY 12983		
<b>SHEET TITLE</b>		
TITLE SHEET		
<b>SHEET NUMBER</b>		
<div style="font-size: 48px; font-weight: bold;">T-1</div>		



## NORTH ORIENTATION

1. NORTH ORIENTATION ESTABLISHED BY COMPASS OBSERVATION.



### NOTE:

SITE BOUNDARY, ACCESS EASEMENT AND LEASE AREA ESTABLISHED BY A SITE WALK PERFORMED BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C., ON 7/21/11.

1  
Z-1  
SITE PLAN  
SCALE: 1" = 100'

## GENERAL NOTES

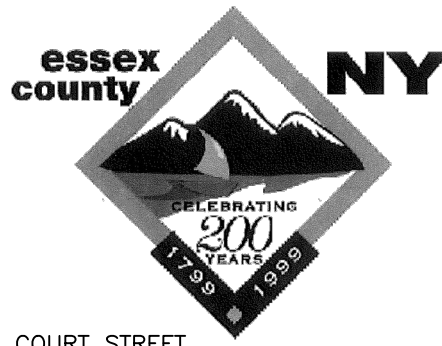
1. THIS PROJECT IS THE INSTALLATION OF AN UNMANNED PUBLIC SAFETY WIRELESS COMMUNICATION FACILITY.
2. THE PROPOSED DEVELOPMENT IS UNMANNED AND DOES NOT REQUIRE A MEANS OF WATER SUPPLY, SEWAGE DISPOSAL, OR HANDICAPPED ACCESS.
3. THE PROPOSED DEVELOPMENT IS MINIMAL, WILL CREATE NEGLIGIBLE ADDITIONAL STORMWATER RUNOFF, AND WILL, THEREFORE, NOT IMPACT THE EXISTING STORMWATER DRAINAGE SYSTEM.
4. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE, SOLID WASTE RECEPTACLES, OR PLUMBING.
5. ADEQUATE PARKING EXISTS FOR ONE VEHICLE FOR MAINTENANCE OR EMERGENCY SERVICE.
6. THERE ARE NO NEW STREETS, CURBS, SIDEWALKS, OR WALKWAYS PROPOSED.
7. THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS INSTALLATION.

## SITE NOTES

1. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS.
2. RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
3. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
4. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW, OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
5. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
6. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
7. THE AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITY SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH.
8. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE TOWN.

## LEGEND

	EXISTING PROPERTY LINE
	ADJOINING PROPERTY LINE
	EXISTING TREE LINE
	EXISTING EDGE OF GRAVEL DRIVE
	EXISTING FENCE
	EXISTING UNDERGROUND UTILITIES
	EXISTING OVERHEAD WIRES
	EXISTING UTILITY POLE
	EXISTING IRON ROD/PIPE
	PROPOSED UNDERGROUND UTILITIES
	EXISTING TREE TO BE REMOVED
	EXISTING TREE
	PROPOSED SILT FENCE



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www.tectoniceengineering.com

### DESIGN APPROVAL

PRELIMINARY/CONSTRUCTION

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CONST. MGR. \_\_\_\_\_ DATE: \_\_\_\_\_  
NETWORK ENG. \_\_\_\_\_ DATE: \_\_\_\_\_  
REAL ESTATE \_\_\_\_\_ DATE: \_\_\_\_\_

### WORK ORDER NUMBER

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### DRAWN BY

SLL

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### RELEASED BY

### DATE

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ORIGINAL SIZE IN INCHES

### SITE INFORMATION

MOUNT PISGAH  
SUMMIT OF MOUNT  
PISGAH SKI AREA  
TOWN OF SAINT ARMAND  
ESSEX COUNTY  
NY 12983

### SHEET TITLE

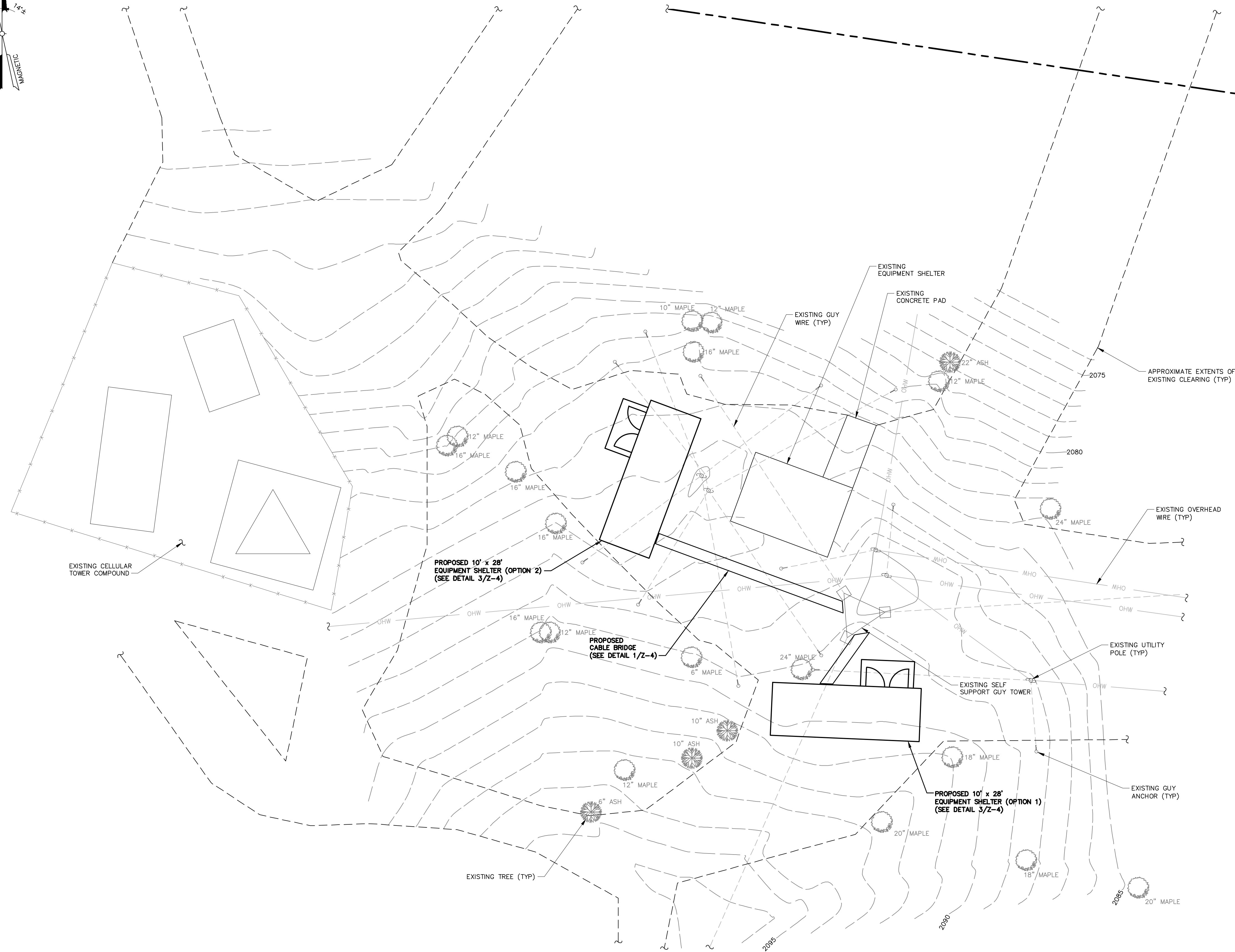
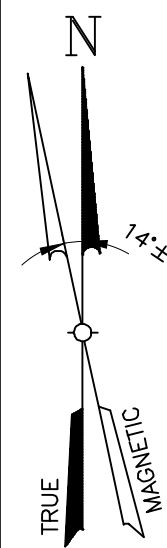
SITE PLAN  
& NOTES

### SHEET NUMBER


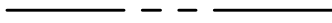







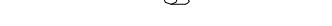



Z-1

- CONTRACTOR SHALL NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT TELEPHONE NUMBER 1-800-362-7962 PRIOR TO EXCAVATION AT SITE
- CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
- ALL EXCAVATION WORK WITHIN 36" OF EITHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND EXCAVATION METHODS



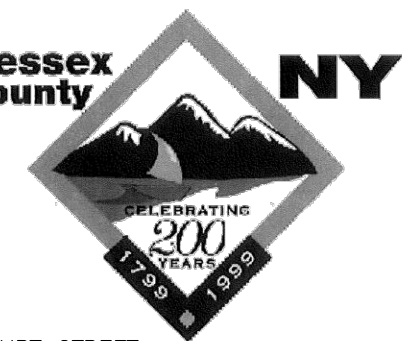


## LEGEND

	EXISTING PROPERTY LINE
	ADJOINING PROPERTY LINE
	EXISTING TREE LINE
	EXISTING EDGE OF GRAVEL DRIVE
	EXISTING FENCE
	EXISTING UNDERGROUND UTILITIES
	EXISTING OVERHEAD WRES
	EXISTING UTILITY POLE
	EXISTING IRON ROD/PIPE
	PROPOSED UNDERGROUND UTILITIES
	EXISTING TREE TO BE REMOVED
	EXISTING TREE
	PROPOSED SILT FENCE

NOTE

1. NO TREES ARE BEING REMOVED AS PART OF THIS PROJECT.
2. A NEW 35KVg GENERATOR WILL BE INSTALLED IN THE PROPOSED EQUIPMENT SHELTER.
3. A TOPOGRAPHICAL SURVEY WAS NOT PERFORMED AT THIS SITE. THE EXISTING GRADE AT THE PROPOSED SHELTER LOCATION SHOULD BE VERIFIED/SURVEYED PRIOR TO THE DESIGN OF THE SHELTER FOUNDATION.



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[www.tectoniceengineering.com](http://www.tectoniceengineering.com)

## DESIGN APPROVAL

PRELIMINARY/CONSTRUCTION

RF ENG.	DATE:
EQPT. ENG.	DATE:
OPERATIONS	DATE:
CONST. MGR.	DATE:
NETWORK ENG.	DATE:
REAL ESTATE	DATE:

WORK ORDER NUMBER	DRAWN BY
5932.06	SLL

NO.	DATE	ISSUE
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5	2/13/12	PER COMMENTS
6	4/5/12	PER COMMENTS
7	4/28/12	PER SURVEY

RELEASED BY	DATE
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SURVEYOR IS A VIOLATION OF SECTION 7209  
SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION  
LAW.

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## SITE INFORMATION

MOUNT PISGAH  
SUMMIT OF MOUNT  
PISGAH SKI AREA  
TOWN OF SAINT ARMAND  
ESSEX COUNTY  
NY 12983

SHEET TITLE

## SITE DETAIL PLAN

SHEET NUMBER

**Z-2**

NOTE:

SITE BOUNDARY, ACCESS EASEMENT AND LEASE AREA ESTABLISHED BY A SITE WALK PERFORMED BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C., ON 7/21/11 AND A PARTIAL SURVEY PERFORMED BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C. ON 4/19/12.

1  
Z-2 SITE DETAIL PLAN  
SCALE: 1" = 10'

- CONTRACTOR SHALL NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT TELEPHONE NUMBER 1-800-962-7962 PRIOR TO EXCAVATION AT SITE
- CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
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ANTENNA AND TRANSMISSION LINE SCHEDULE

LEG	ANTENNA	ANTENNA DATA	AZIMUTH	ANTENNA C HEIGHT (AGL)	TRANSMISSION LINE
NORTH	8' DISH	RFS MICROWAVE ANTENNA DA8-59A	54° 09' 00.18"	72'±	RFS E60
NORTH	VHF-TX	SINCLAIR VHF-TX (SD210R) ANTENNA	22° 00' 00.00"	10'±	LDF-4
SOUTH	6' DISH	RFS MICROWAVE ANTENNA PAD6-59B	137° 50' 13.07"	77'±	RFS E60
SOUTH	VHF-RX	SINCLAIR VHF-RX (SC229) ANTENNA	N/A	100'± TIP	LDF-4
SOUTH	6' DISH	RFS MICROWAVE ANTENNA PAD6-59B	234° 09' 01.57"	86'±	RFS E60
EAST	PAGING ANTENNA	KRECO CO-41H PAGING ANTENNA	N/A	38'± TIP	LDF-4

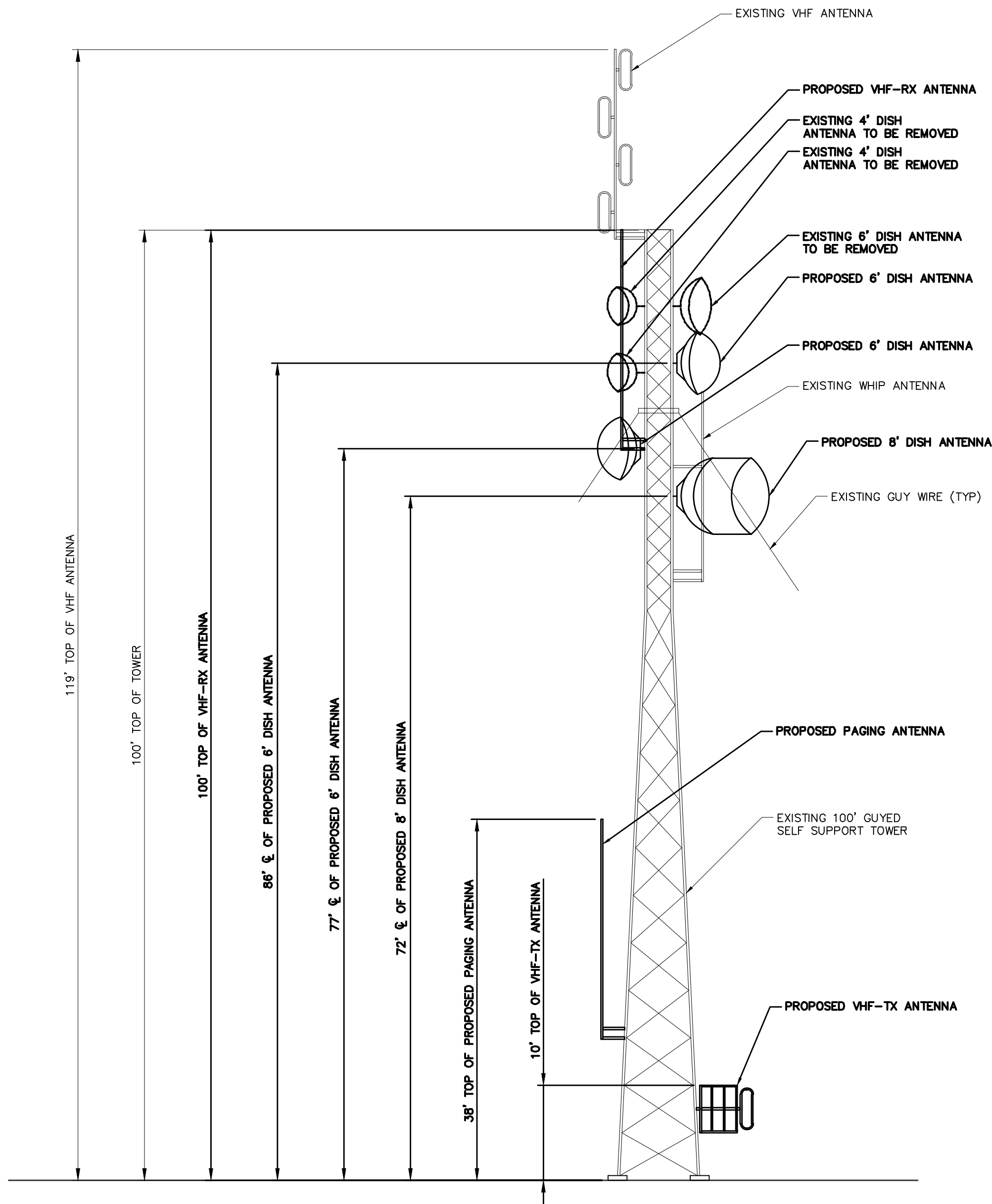
NOTE:  
ANTENNA AND COAXIAL SCHEDULE BASED ON AN RF ANTENNA DESIGN SHEET-DATA RECEIVED FROM ESSEX COUNTY.

ANTENNA MOUNTING NOTES

- THE DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO ANSI/TIA/EIA-222-F "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORT STRUCTURES," THE BUILDING CODE OF NEW YORK STATE, AND ALL OTHER APPLICABLE LOCAL, STATE, AND FEDERAL CODES.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
- ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DESIGN OF THE ANTENNA MOUNTING BRACKETS, SUPPORTS, AND ALL COMPONENTS THEREOF AND ATTACHMENT THERETO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MANUFACTURER SHALL PROVIDE THE OWNER DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA. MANUFACTURER SHALL ALSO PROVIDE THE OWNER WITH A STATEMENT OF COMPLIANCE, INDICATING THAT THE ANTENNA SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH TIA-222-F STANDARDS. ALL SUBMISSIONS SHALL BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.

STRUCTURAL NOTES

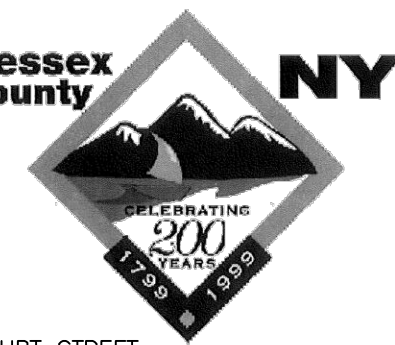
- TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C. DID NOT EVALUATE THIS TOWER OR ANY PORTION THEREOF FOR STRUCTURAL CAPACITY TO PERMIT THIS INSTALLATION. NO TOWER DRAWINGS WERE AVAILABLE, NO CLIMBING INSPECTION WAS PERFORMED AND NO ANALYSIS WAS COMPLETED.
- REFER TO "STRUCTURAL ANALYSIS REPORT, 100' SST/GUYED TOWER, MOUNT PISGAH, VILLAGE OF SARANAC LAKE, NEW YORK" PREPARED BY NORTH WOODS ENGINEERING PLLC DATED APRIL 18, 2011.
- ALL WORK SHOULD CONFORM TO THE CURRENT STANDARD (ANSI/TIA-222-F "STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS"), NEW YORK STATE BUILDING CODE, LATEST EDITION, NEW YORK STATE UNIFORM FIRE PREVENTION AND ITS REFERENCED STANDARDS.



NOTE:  
ALL ANTENNAS ARE OWNED BY NYSP AND  
ESSEX COUNTY EMERGENCY SERVICES.

1  
2-3  
ELEVATION  
SCALE: 1" = 10'

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DESIGN APPROVAL

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WORK ORDER NUMBER 5932.06  
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RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_

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ORIGINAL SIZE IN INCHES

SITE INFORMATION

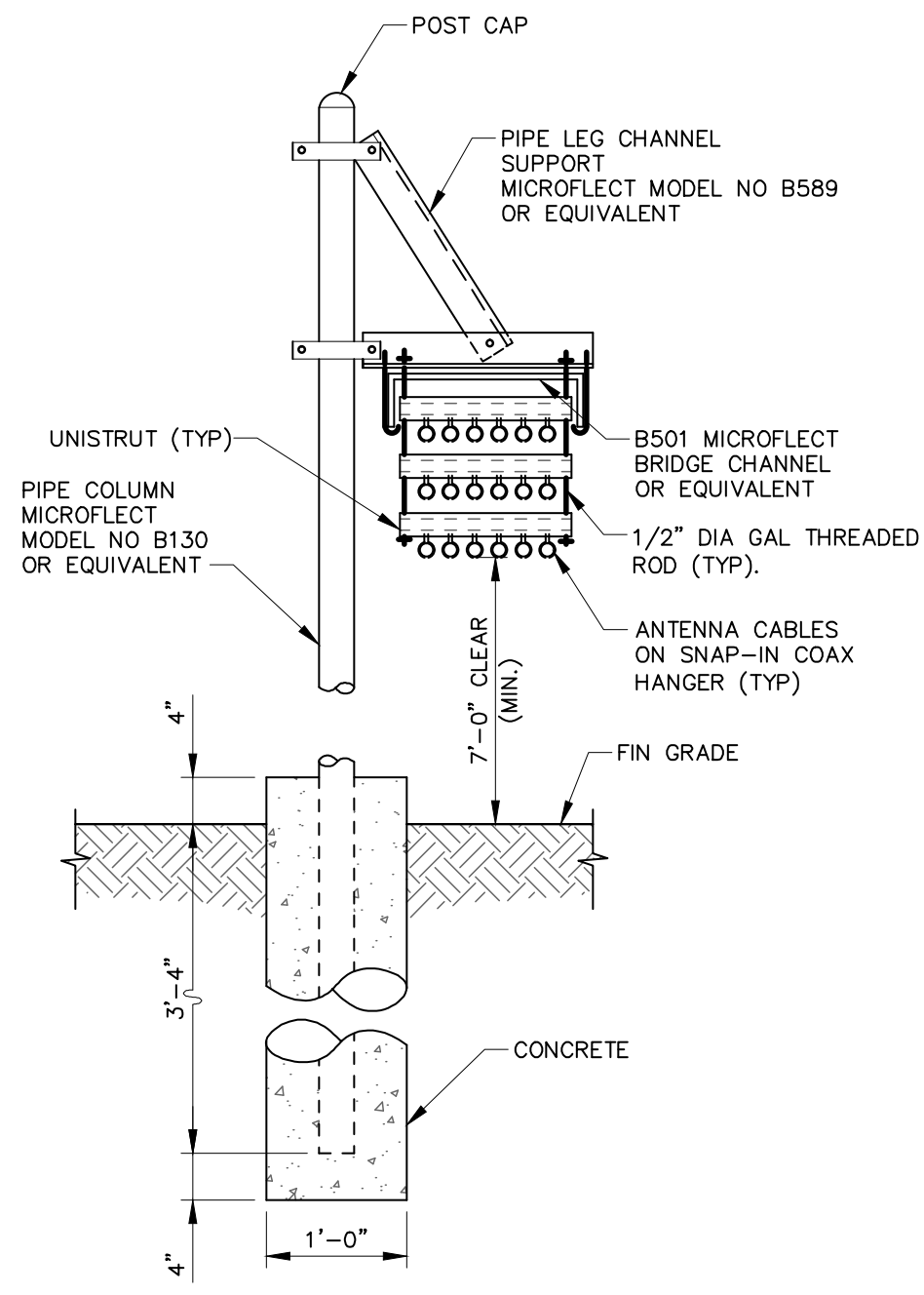
MOUNT PISGAH  
SUMMIT OF MOUNT  
PISGAH SKI AREA  
TOWN OF SAINT ARMAND  
ESSEX COUNTY  
NY 12983

SHEET TITLE

ELEVATION & NOTES

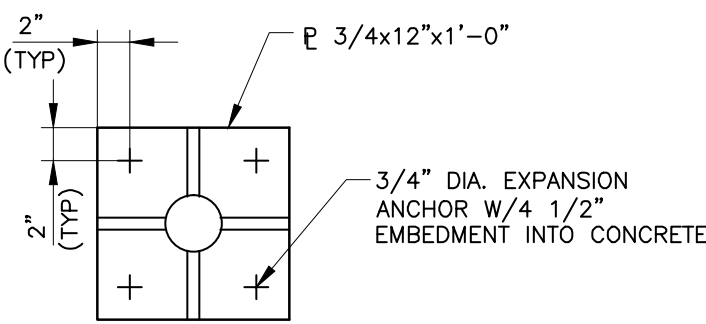
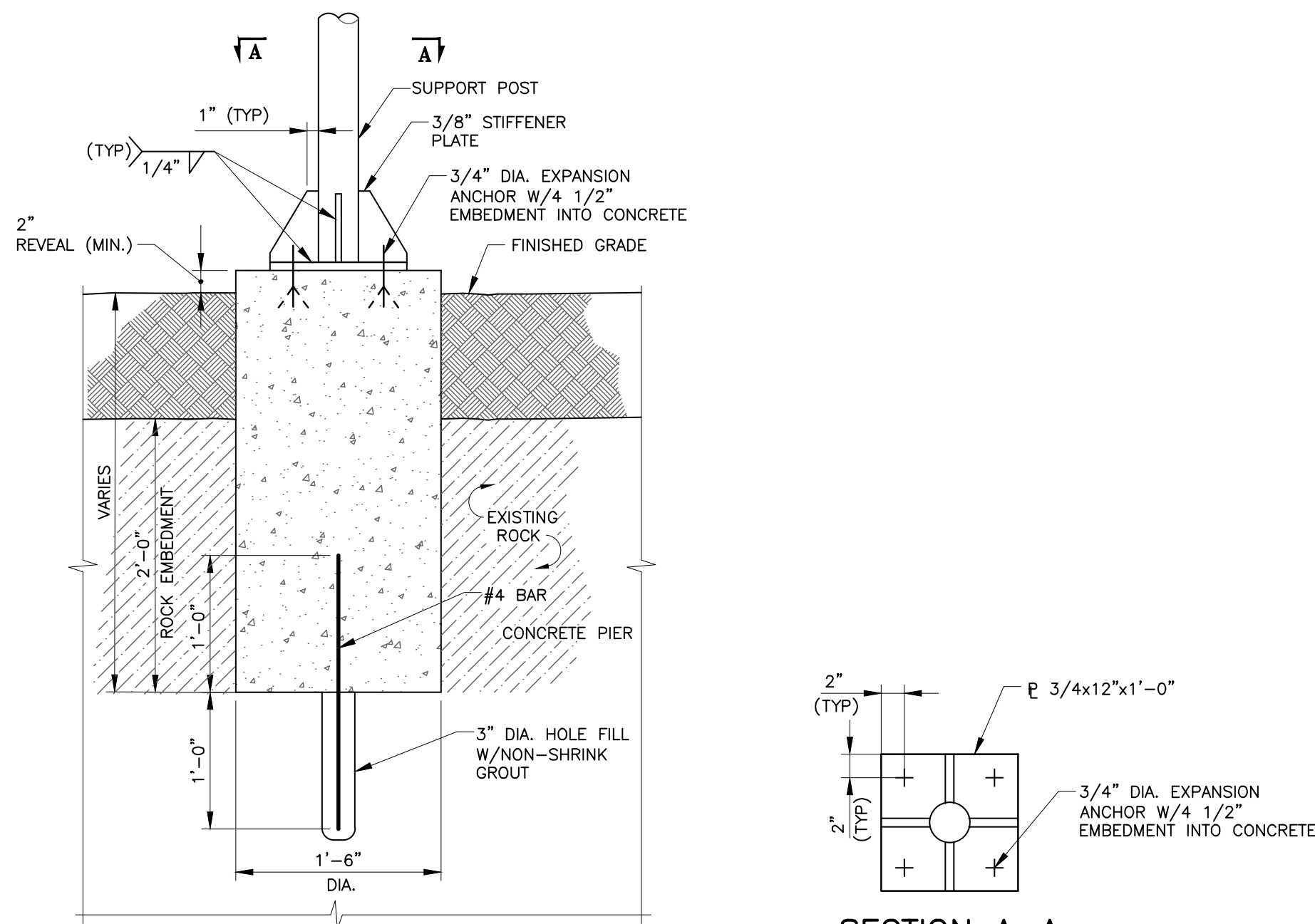
SHEET NUMBER

Z-3



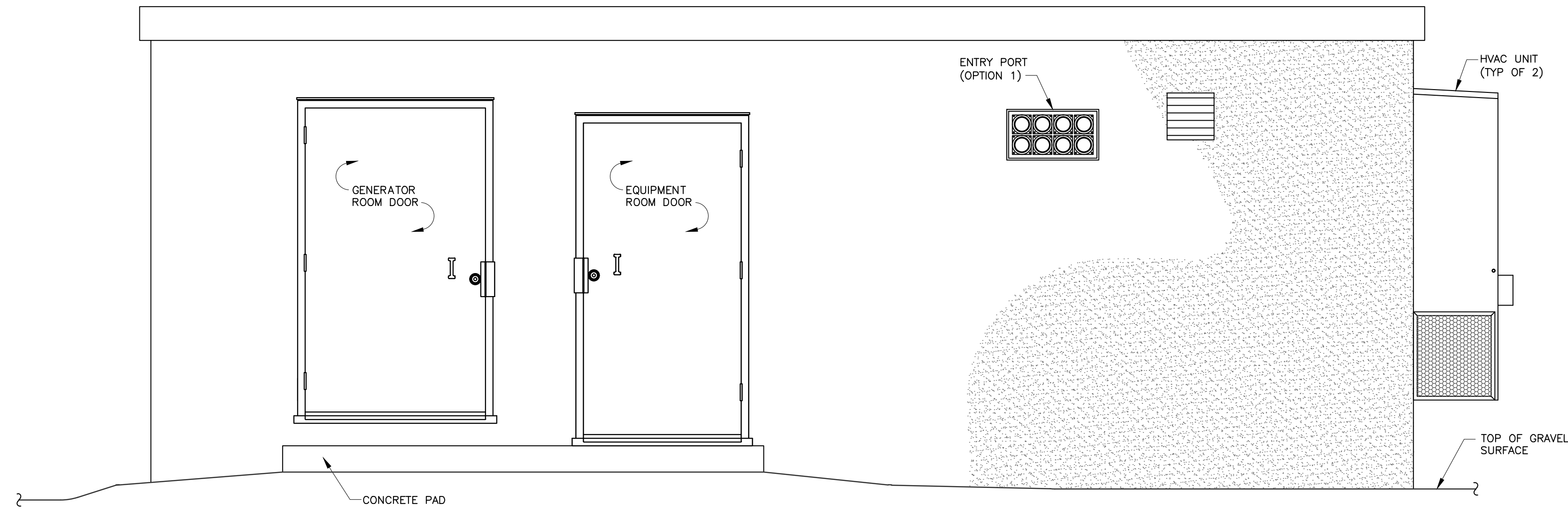
NOTE:  
IF ROCK IS ENCOUNTERED SEE DETAIL 2/Z-4

1  
Z-4  
**CABLE BRIDGE**  
SCALE: 3/4" = 1'-0"

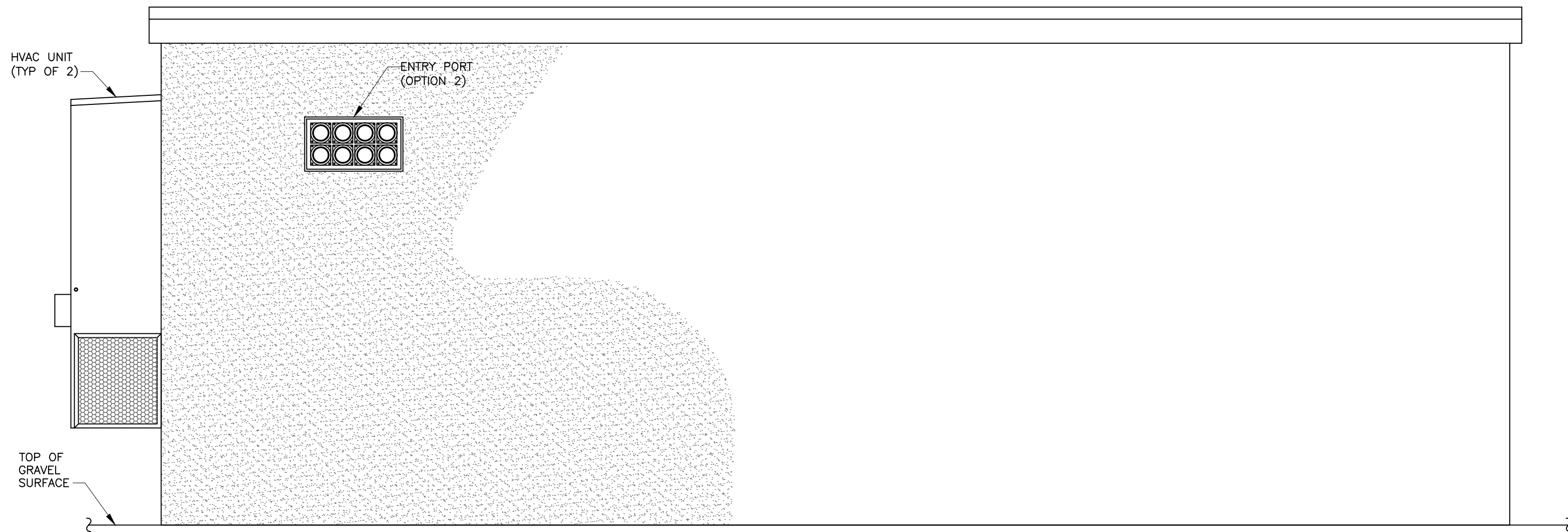


SECTION A-A

2  
Z-4  
**POST CONNECTION**  
SCALE: 1" = 1'-0"



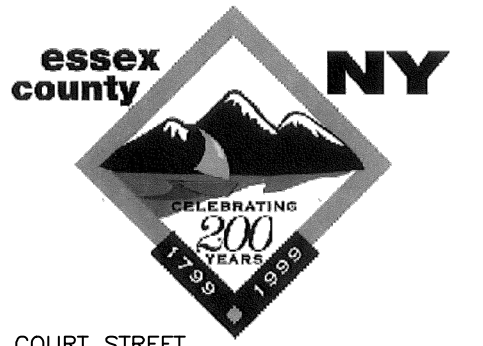
3  
Z-4  
**SHELTER FRONT ELEVATION**  
SCALE: 1/2" = 1'-0"



4  
Z-4  
**SHELTER REAR ELEVATION**  
SCALE: 1/2" = 1'-0"

## SHELTER NOTES

1. THE VENDOR SHALL PROVIDE A PREFABRICATED SHELTER AT EACH SITE IDENTIFIED TO HOUSE THE PROPOSED EQUIPMENT. EACH SHELTER SHALL BE ONE-STORY AND THE EXTERIOR FINISH OF EACH SHELTER SHALL BE A NEUTRAL, EARTH TONE COLOR THAT COMPLIES WITH ADIRONDACK PARK AGENCY (APA) REQUIREMENTS.
2. THE EQUIPMENT SHELTER SHALL BE PREFABRICATED OF CONCRETE/FIBERGLASS CONSTRUCTION.
3. A TOPOGRAPHICAL SURVEY WAS NOT PERFORMED AT THIS SITE. THE EXISTING GRADE AT THE PROPOSED SHELTER LOCATION SHOULD BE VERIFIED/SURVEYED PRIOR TO THE DESIGN OF THE SHELTER FOUNDATION.



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RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_

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ORIGINAL SIZE IN INCHES

SITE INFORMATION

MOUNT PISGAH  
SUMMIT OF MOUNT  
PISGAH SKI AREA  
TOWN OF SAINT ARMAND  
ESSEX COUNTY  
NY 12983

## SHEET TITLE

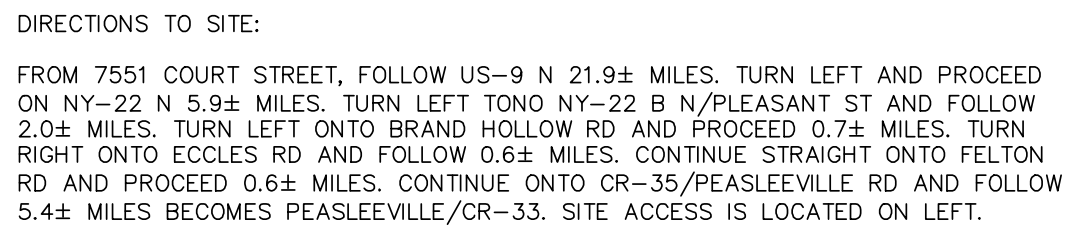
SHELTER ELEVATION  
& DETAILS

## SHEET NUMBER

Z-4



SITE NAME:  
**TERRY MOUNTAIN**



VICINITY MAP

## Before You Dig, Drill Or Blast!

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New York

UNDERGROUND FACILITIES  
PROTECTIVE ORGANIZATION

CALL US TOLL FREE 1-800-962-7962

NY industrial code rule 753 requires no less than two working days notice, but not more than ten days notice.

DIG SAFELY — NEW YORK

SITE NAME:	TERRY MOUNTAIN
SITE ADDRESS:	1159 PEASLEEVILLE RD PEASLEEVILLE, NY 12972
MUNICIPALITY:	TOWN OF PERU
COUNTY:	CLINTON COUNTY
TAX MAP NUMBER:	276-2-2
MONOPOLE COORDINATES:	N 44° 34' 27.00" W 73° 40' 29.00"
GROUND ELEVATION:	2,009±'
PROPERTY OWNER:	ESSEX COUNTY 7551 COURT STREET P.O. BOX 217 ELIZABETHTOWN, NY 12932
APPLICANT:	ESSEX COUNTY 7551 COURT STREET P.O. BOX 217 ELIZABETHTOWN, NY 12932
CONTACT PERSON:	DONALD JAQUISH DIRECTOR/FIRE COORDINATOR ESSEX COUNTY EMERGENCY 702 STOWERSVILLE RD P.O. BOX 30 LEWIS, NY 12950
CONTACT PHONE:	(518) 873-3901

PROJECT DESCRIPTION:

THE PROPOSED PROJECT CONSISTS OF INSTALLING TWO (2) 6' DISH ANTENNAS, TWO (2) 8' DISH ANTENNAS, ONE (1) 10' DISH ANTENNA, AND TWO (2) 4' CORNER REFLECTORS ON EXISTING TOWER AND CONSTRUCTION OF A NEW EQUIPMENT SHELTER. REMOVE TOWER SECTIONS AND GUY WIRES ABOVE APPROXIMATELY 690 FT. TWO (2) TV ANTENNAS, ONE (1) 6' DISH ANTENNA, AND ONE (1) 4' GRID ANTENNA WILL BE REMOVED.

## PROJECT SUMMARY

[illegible]

## SHEET INDEX

THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL ITEMS OF CONCERN HAVE BEEN ADDRESSED AND EACH OF THE DRAWINGS HAS BEEN REVISED AND ISSUED "FOR CONSTRUCTION"

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED FOR 24"x36". OTHER SIZED VERSIONS ARE NOT PRINTED TO THE SCALE SHOWN. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



**TECTONIC**

**TECTONIC** Engineering & Surveying Consultants P.C.  
36 British American Blvd., Suite 101  
Latham, NY 12110

Phone: (518) 783-1630  
Fax: (518) 783-1544

www.tectonicengineering.com

## DESIGN APPROVAL

PRELIMINARY/CONSTRUCTION

RF ENG. \_\_\_\_\_ DATE: \_\_\_\_\_

EQPT. ENG. \_\_\_\_\_ DATE: \_\_\_\_\_

OPERATIONS \_\_\_\_\_ DATE: \_\_\_\_\_

CONST. MGR. DATE:

NETWORK ENG. \_\_\_\_\_ DATE: \_\_\_\_\_

REAL ESTATE DATE:

WORK ORDER NUMBER

5932 07

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511

NO.	DATE	ISSUE
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1	9/19/11	PER COMMENTS
2	9/27/11	PER COMMENTS

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SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION  
LAW.

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## SITE INFORMATION

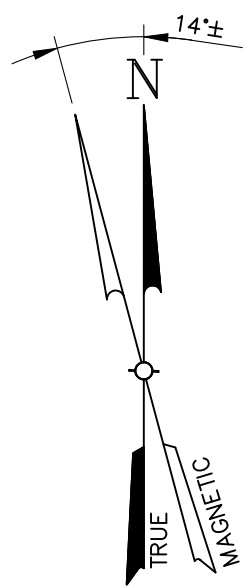
TERRY MOUNTAIN  
1159 PEASLEEVILLE RD  
TOWN OF PERU  
CLINTON COUNTY  
NY 12972

**SHEET TITLE**

# TITLE SHEET

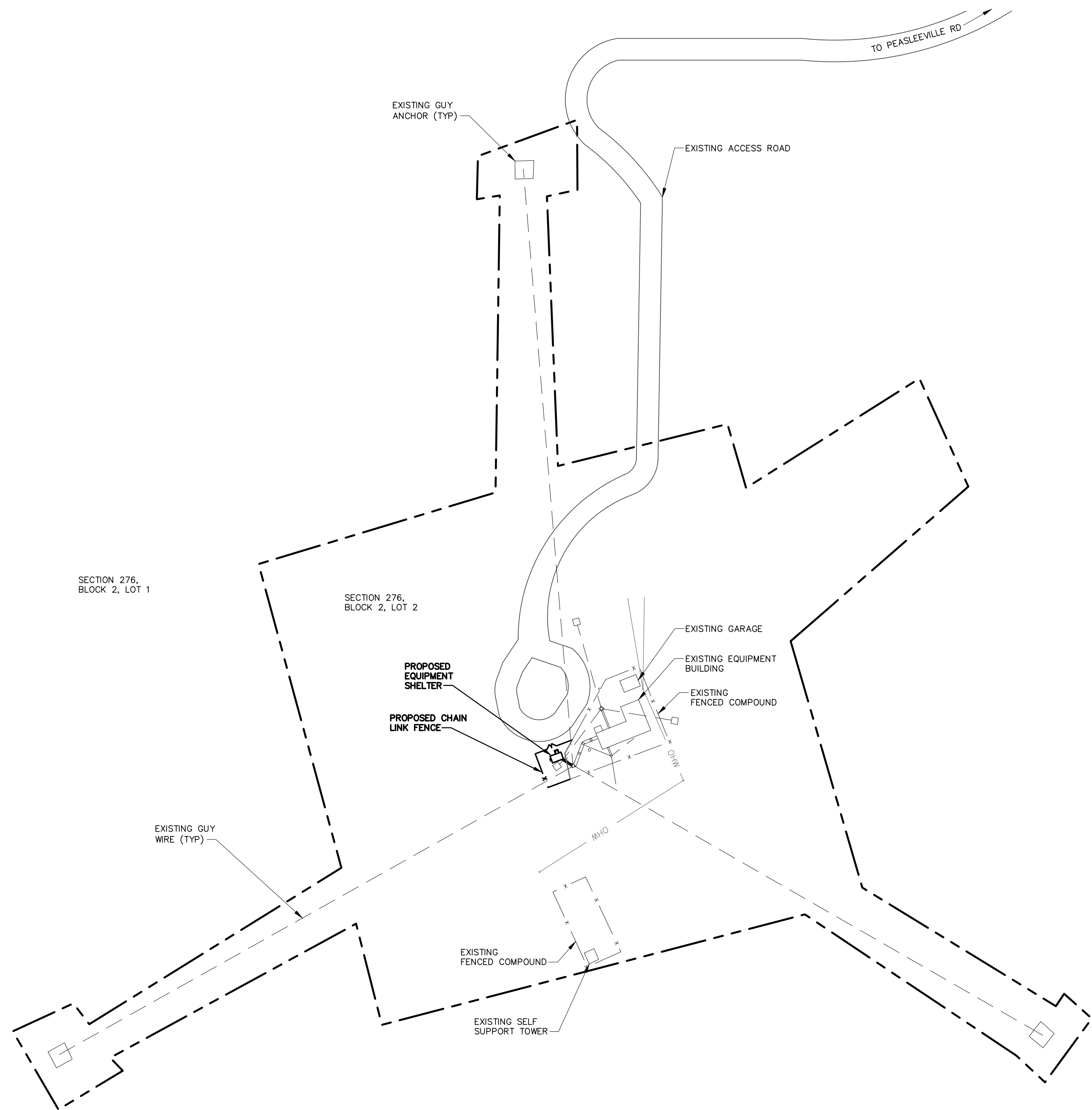
**SHEET NUMBER**

# T-1



**NORTH ORIENTATION**

1. NORTH ORIENTATION ESTABLISHED BY COMPASS OBSERVATION.



**NOTES:**

1. SITE INFORMATION BASED ON A SITE VISIT PERFORMED BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C., ON 7/22/11, ESSEX COUNTY TAX MAPS AND AN UPDATED SITE SKETCH PROVIDED BY FEDERAL ENGINEERING.
2. THE PROJECT SITE AREA CONTAINS NO SHORELINES OR NAVIGABLE WATERS.
3. THERE ARE NO KNOWN WETLANDS TO EXIST WITHIN THE PROJECT SITE AREA.
4. THE PROJECT SITE AREA IS NOT LOCATED WITHIN A FLOOD PLAIN AREA.

**1 SITE PLAN**  
Z-1  
SCALE: 1" = 100'

- GENERAL NOTES**
1. THIS PROJECT IS THE INSTALLATION OF AN UNMANNED PUBLIC SERVICE WIRELESS COMMUNICATION FACILITY.
  2. THE PROPOSED DEVELOPMENT IS UNMANNED AND DOES NOT REQUIRE A MEANS OF WATER SUPPLY, SEWAGE DISPOSAL, OR HANDICAPPED ACCESS.
  3. THE PROPOSED DEVELOPMENT IS MINIMAL, WILL CREATE NEGLIGIBLE ADDITIONAL STORMWATER RUNOFF, AND WILL, THEREFORE, NOT IMPACT THE EXISTING STORMWATER DRAINAGE SYSTEM.
  4. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE, SOLID WASTE RECEPTACLES, OR PLUMBING.
  5. ADEQUATE PARKING EXISTS FOR ONE VEHICLE FOR MAINTENANCE OR EMERGENCY SERVICE ONCE A MONTH.
  6. THERE ARE NO NEW STREETS, CURBS, SIDEWALKS, OR WALKWAYS PROPOSED.
  7. THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS INSTALLATION.

- SITE NOTES**
1. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS.
  2. RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
  3. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
  4. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW, OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
  5. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
  6. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
  7. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
  8. THE AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITY SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDDED, AND COVERED WITH MULCH.
  9. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE TOWN.

**LEGEND**

---	EXISTING PROPERTY LINE
---	EXISTING EDGE OF GRAVEL DRIVE
---	EXISTING GUY WIRE
---	EXISTING STRUCTURE
---	EXISTING FENCE
---	EXISTING OVERHEAD WIRES
---	EXISTING UTILITY POLE
---	PROPOSED FENCE

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**DESIGN APPROVAL**

PRELIMINARY/CONSTRUCTION

RF ENG. \_\_\_\_\_ DATE: \_\_\_\_\_

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OPERATIONS \_\_\_\_\_ DATE: \_\_\_\_\_

CONST. MGR. \_\_\_\_\_ DATE: \_\_\_\_\_

NETWORK ENG. \_\_\_\_\_ DATE: \_\_\_\_\_

REAL ESTATE \_\_\_\_\_ DATE: \_\_\_\_\_

WORK ORDER NUMBER		DRAWN BY
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ORIGINAL SIZE IN INCHES

**SITE INFORMATION**

TERRY MOUNTAIN  
1159 PEASLEEVILLE RD  
TOWN OF PERU  
CLINTON COUNTY  
NY 12972

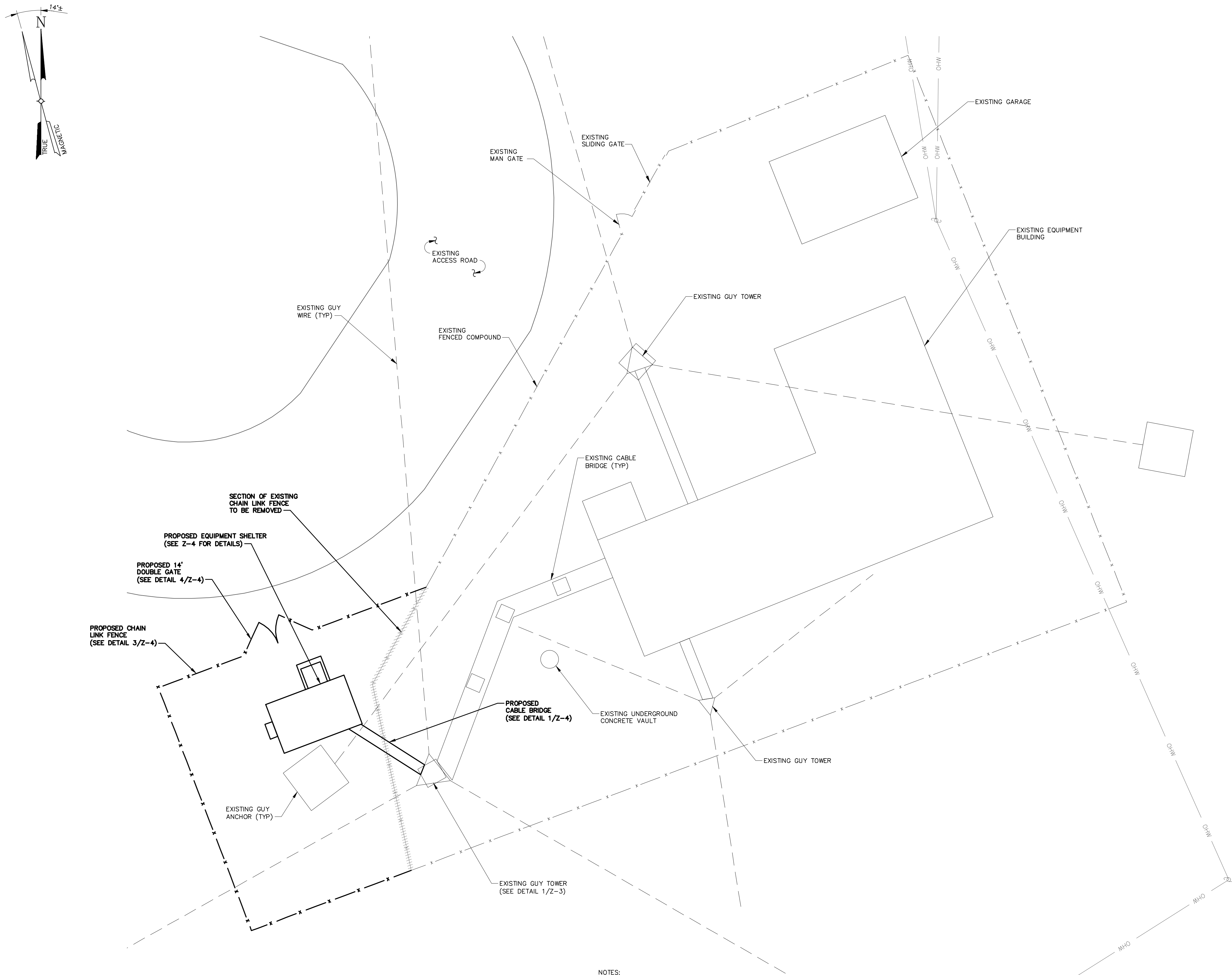
**SHEET TITLE**

SITE PLAN  
& NOTES

**SHEET NUMBER**

**Z-1**

- CONTRACTOR SHALL NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT TELEPHONE NUMBER 1-800-362-7962 PRIOR TO EXCAVATION AT SITE
- CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
- ALL EXCAVATION WORK WITHIN 36" OF EITHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND EXCAVATION METHODS



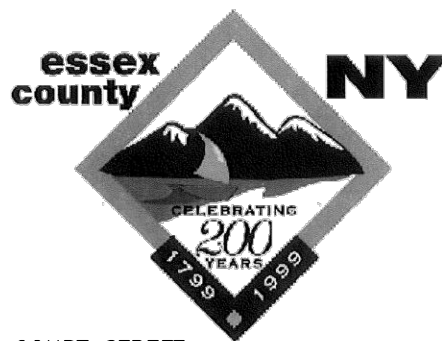
NOTES:

1. SITE INFORMATION FROM A SITE VISIT PERFORMED BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C., ON 7/22/11, AND TAX MAP, COUNTY SKETCHES, ETC.
2. THE PROJECT SITE AREA CONTAINS NO SHORELINES OR NAVIGABLE WATERS.
3. THERE ARE NO KNOWN WETLANDS TO EXIST WITHIN THE PROJECT SITE AREA.
4. THE PROJECT SITE AREA IS NOT LOCATED WITHIN A FLOOD PLAIN AREA.

1 SITE DETAIL PLAN  
Z-2 SCALE: 1" = 10'

LEGEND

- EXISTING EDGE OF GRAVEL DRIVE
- EXISTING GUY WIRE
- EXISTING STRUCTURE
- EXISTING FENCE
- EXISTING OVERHEAD WIRES
- EXISTING UTILITY POLE
- PROPOSED FENCE



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REAL ESTATE DATE:

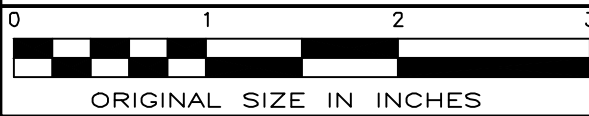
WORK ORDER NUMBER 5932.07  
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ORIGINAL SIZE IN INCHES

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NY 12972

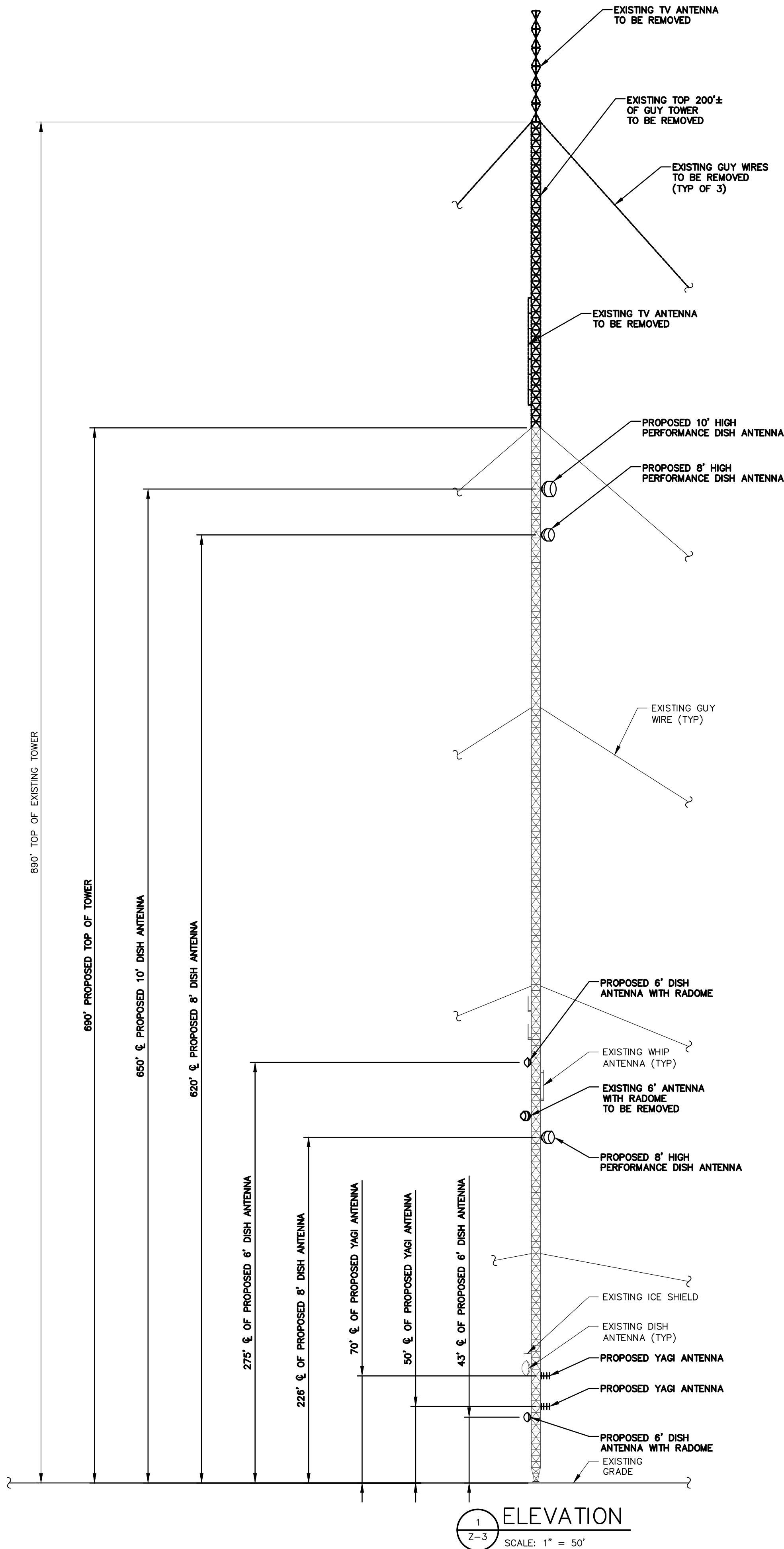
SHEET TITLE

SITE DETAIL PLAN

SHEET NUMBER

Z-2

- CONTRACTOR SHALL NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT TELEPHONE NUMBER 1-800-962-7962 PRIOR TO EXCAVATION AT SITE
- CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
- ALL EXCAVATION WORK WITHIN 36" OF EITHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND EXCAVATION METHODS



ANTENNA AND TRANSMISSION LINE SCHEDULE				
ANTENNA	ANTENNA DATA	AZIMUTH	ANTENNA & HEIGHT (A.G.L.)	TRANSMISSION LINE
10' HIGH PERFORMANCE DISH	RFS DA10-59A HIGH PERFORMANCE DISH ANTENNA	169° 6' 23.52"	650'±	EW60
8' HIGH PERFORMANCE DISH	RFS DA8-59A HIGH PERFORMANCE DISH ANTENNA	169° 6' 23.52"	620'±	EW60
6' DISH WITH RADOME	RFS PAD6-59B DISH ANTENNA WITH RADOME	60° 47' 27.75"	275'±	EW60
8' HIGH PERFORMANCE DISH	RFS DA8-59A HIGH PERFORMANCE DISH ANTENNA	234° 28' 3.14"	226'±	EW60
6' DISH WITH RADOME	RFS PAD6-65B DISH ANTENNA WITH RADOME	215° 38' 43.99"	43'±	EW65
4' CORNER REFLECTOR	SINCLAIR SV227 YAGI LMR ANTENNA	200°	70'±	7/8" HELIAX
4' CORNER REFLECTOR	SINCLAIR SV227 YAGI LMR ANTENNA	200°	50'±	7/8" HELIAX
NOTE: ANTENNA AND COAXIAL SCHEDULE BASED ON AN RF ANTENNA DESIGN SHEET-DATA RECEIVED FROM ESSEX COUNTY.				

### ANTENNA MOUNTING NOTES

- DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO ANSI/TIA-222-G-2005 "STRUCTURAL STANDARD FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES". DESIGN WIND SPEED = 90 MPH PER NYS BUILDING CODE (40 MPH IN CONJUNCTION WITH 0.75 INCHES OF DESIGN ICE THICKNESS).
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
- ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DESIGN OF THE ANTENNA MOUNTING BRACKETS, SUPPORTS, AND ALL COMPONENTS THEREOF AND ATTACHMENT THERETO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MANUFACTURER SHALL PROVIDE THE OWNER DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA. MANUFACTURER SHALL ALSO PROVIDE THE OWNER WITH A STATEMENT OF COMPLIANCE, INDICATING THAT THE ANTENNA SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-G STANDARDS. ALL SUBMISSIONS SHALL BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.

### STRUCTURAL NOTE:

- TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C. DID NOT EVALUATE THIS TOWER OR ANY PORTION THEREOF FOR STRUCTURAL CAPACITY TO PERMIT THIS INSTALLATION. NO TOWER DRAWINGS WERE AVAILABLE. NO CLIMBING INSPECTION WAS PERFORMED AND NO ANALYSIS WAS COMPLETED.
- THE VERIFICATION OF STRUCTURAL ADEQUACY AND DESIGN OF THE ATTACHMENTS MUST BE PERFORMED, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
- ALL WORK SHOULD CONFORM TO THE CURRENT STANDARD (ANSI/TIA-222-G "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS"), NEW YORK STATE BUILDING CODE, LATEST EDITION, NEW YORK STATE UNIFORM FIRE PREVENTION AND ITS REFERENCED STANDARDS.
- REFER TO "FEASIBILITY STRUCTURAL ANALYSIS FOR A G-7 GUYED TOWER PLATTSBURGH, NY" PREPARED BY STAINLESS LLC, STAINLESS REPORT #145304, DATED JUNE 27, 2011.

essex county

NY

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0 1 2 3  
ORIGINAL SIZE IN INCHES

SITE INFORMATION

TERRY MOUNTAIN  
1159 PEASLEEVE RD  
TOWN OF PERU  
CLINTON COUNTY  
NY 12972

SHEET TITLE

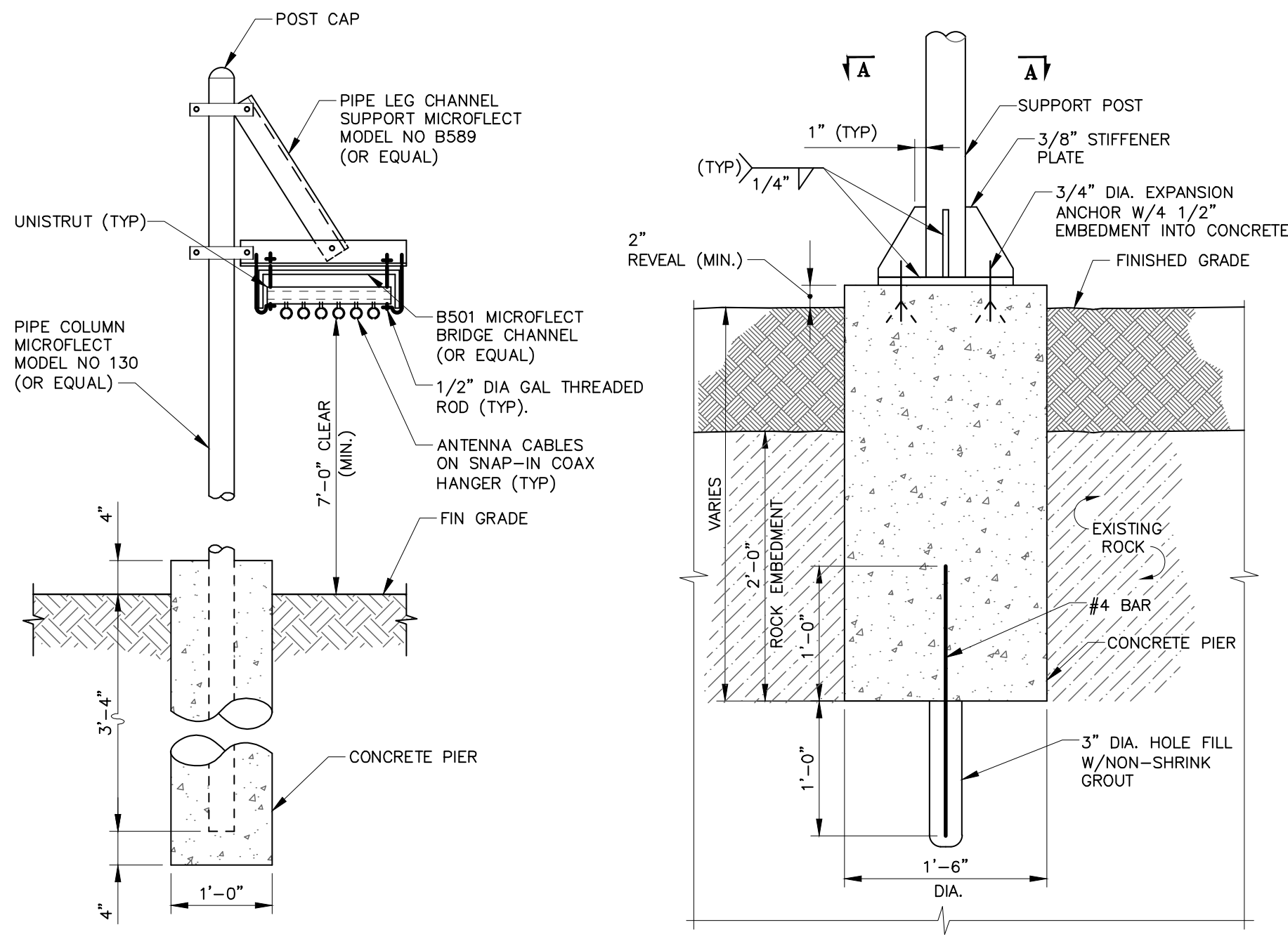
ELEVATION, DETAILS  
& NOTES

SHEET NUMBER

Z-3

- CONTRACTOR SHALL NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT TELEPHONE NUMBER 1-800-962-7962 PRIOR TO EXCAVATION AT SITE
- CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
- ALL EXCAVATION WORK WITHIN 36" OF EITHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND EXCAVATION METHODS

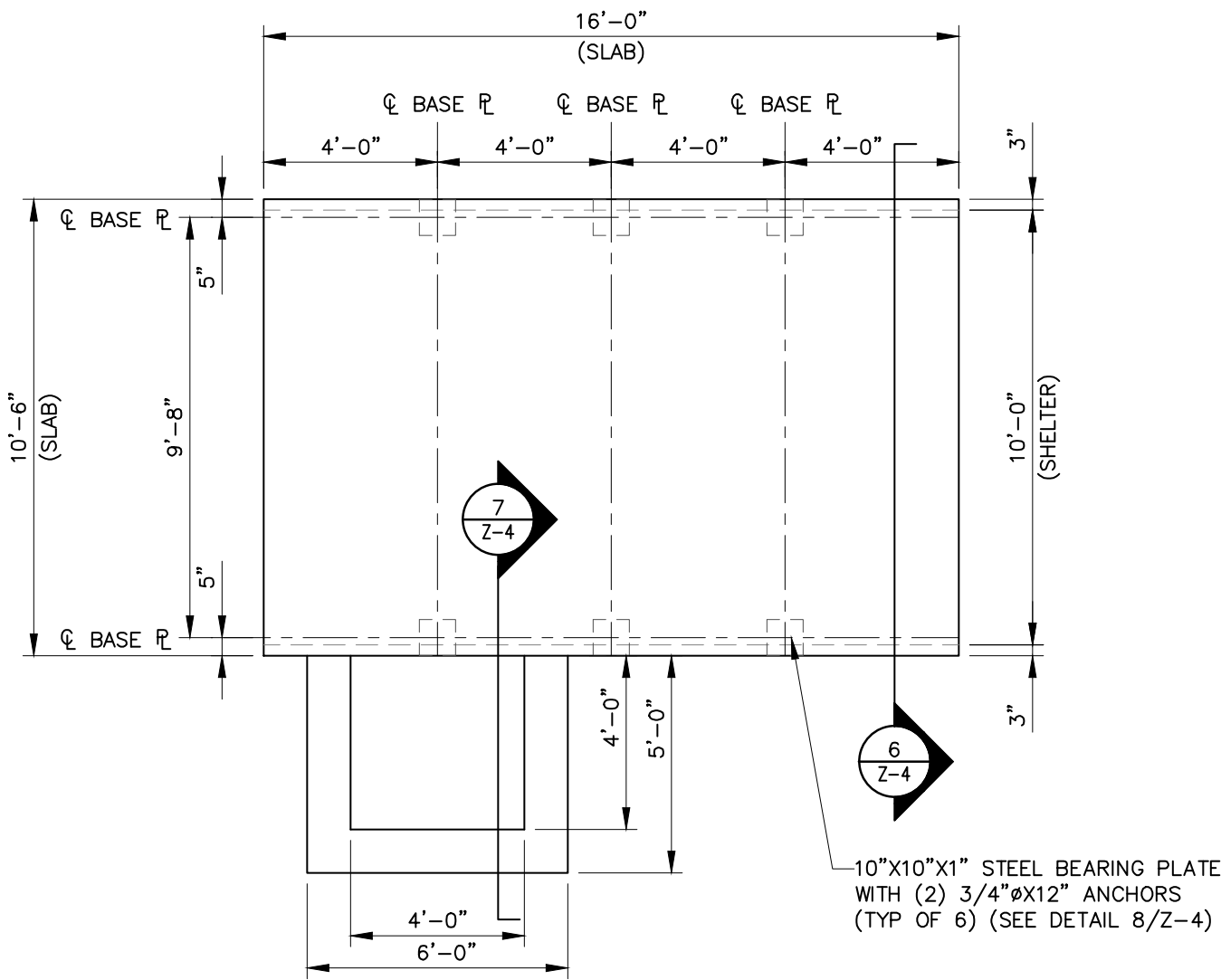




NOTE:  
IF ROCK IS ENCOUNTERED SEE DETAIL 2/Z-4

1 CABLE BRIDGE  
Z-4 SCALE: 3/4" = 1'-0"

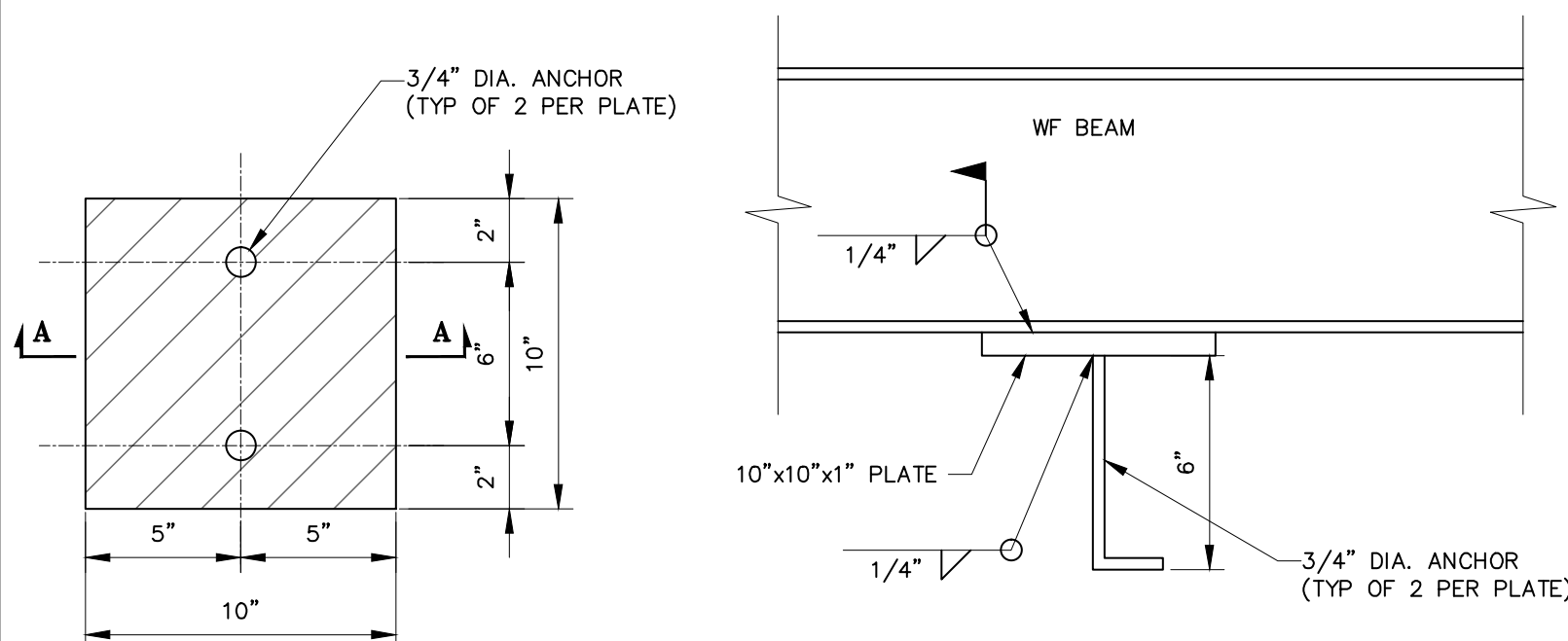
2 POST CONNECTION  
Z-4 SCALE: 1" = 1'-0"



NOTES:

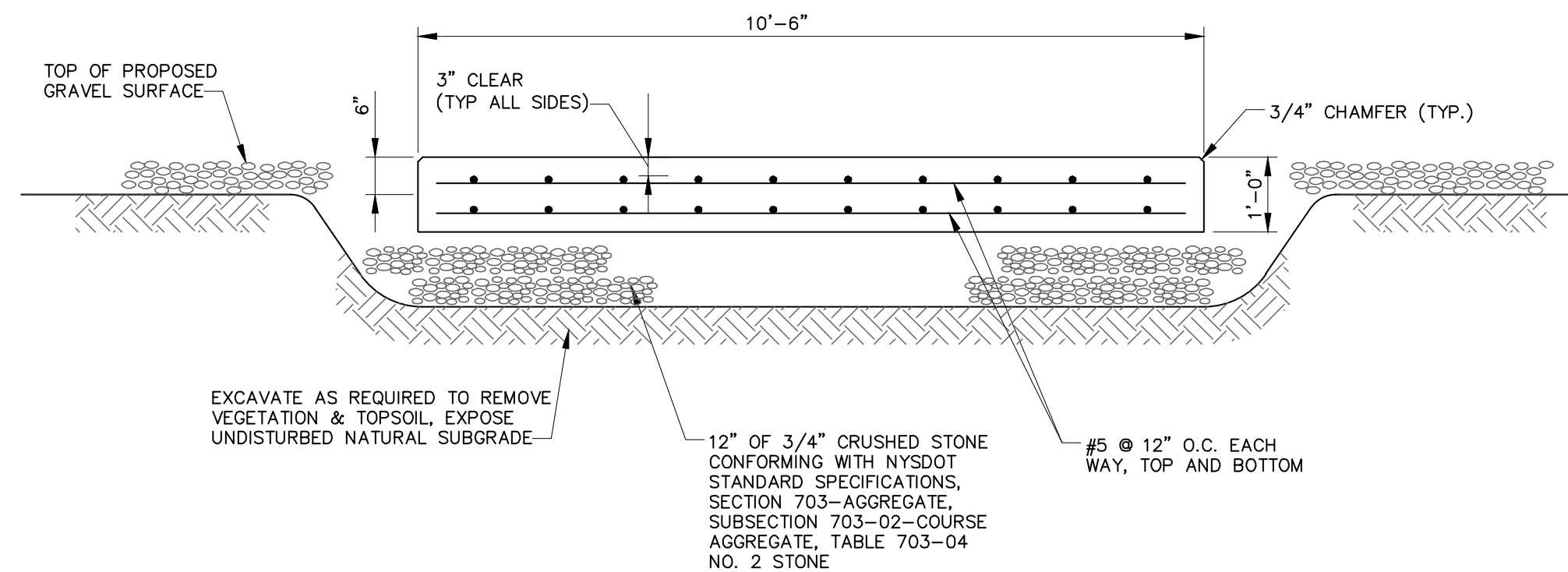
- REFER TO EQUIPMENT SHELTER DRAWINGS (BY OTHERS) FOR ADDITIONAL INFORMATION.
- VERIFY ALL DIMENSIONS WITH SHELTER MANUFACTURER'S DRAWINGS BEFORE CONSTRUCTION.
- BEARING PLATES SHALL BE CAST INTO PLACE FLUSH WITH THE ADJOINING CONCRETE SURFACE AND ALIGNED WITH THE EDGE OF THE SLAB.
- SHIM BEARING PLATES AS REQUIRED TO ENSURE CONTACT WITH BEAMS SUPPORTING THE EQUIPMENT SHELTER. SAID SHIMMING SHALL NOT PREVENT BEAMS FROM BEARING UNIFORMLY ON THE CONCRETE ALONG THEIR ENTIRE LENGTH.
- WELD BEAMS TO THE (6) BEARING PLATES TO PROVIDE FOR CONNECTION OF EQUIPMENT SHELTER TO FOUNDATION.

5 FOUNDATION PLAN  
Z-4 SCALE: 1/4" = 1'-0"



8 BEARING PLATE DETAIL  
Z-4 SCALE: NTS

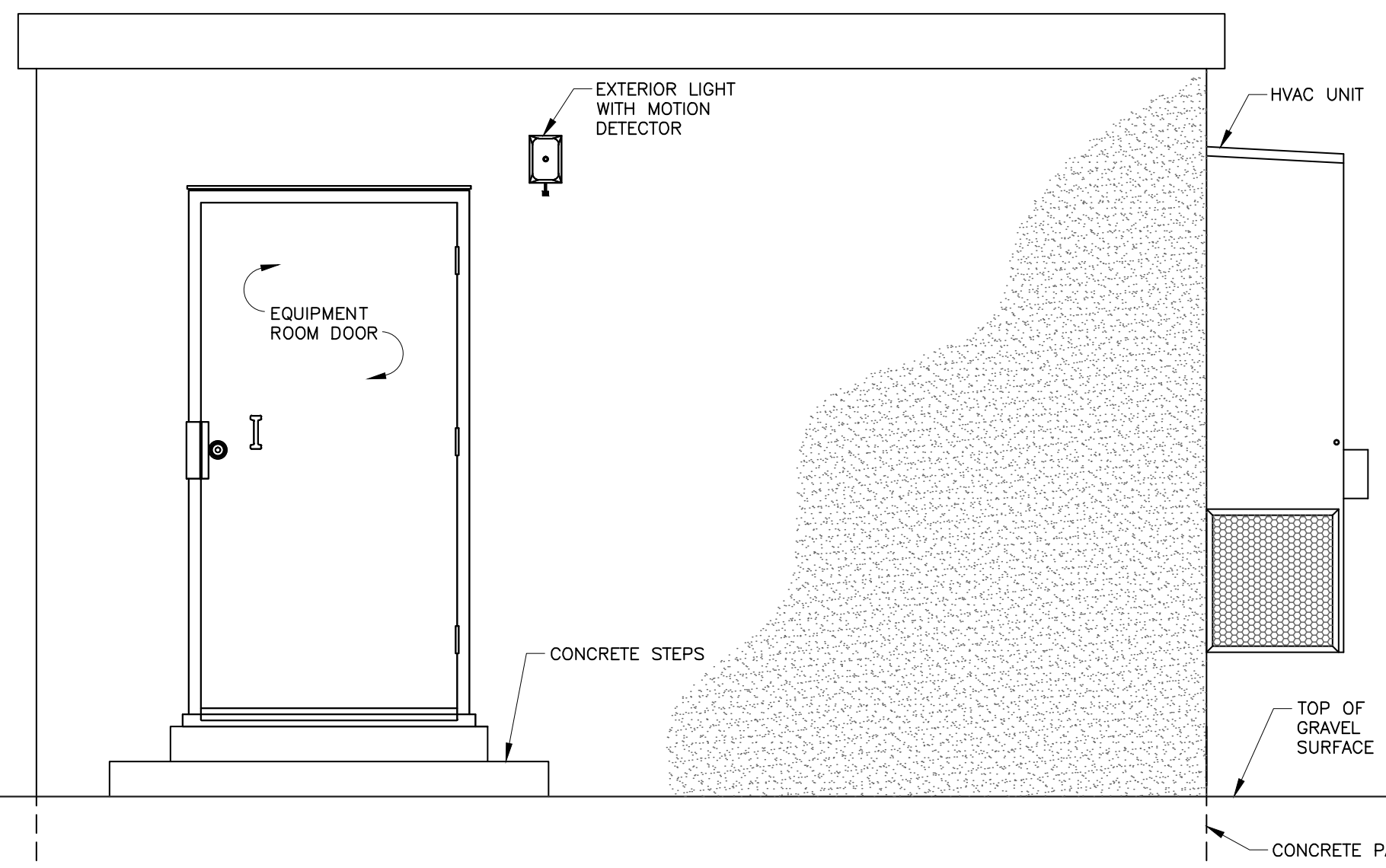
SECTION A-A



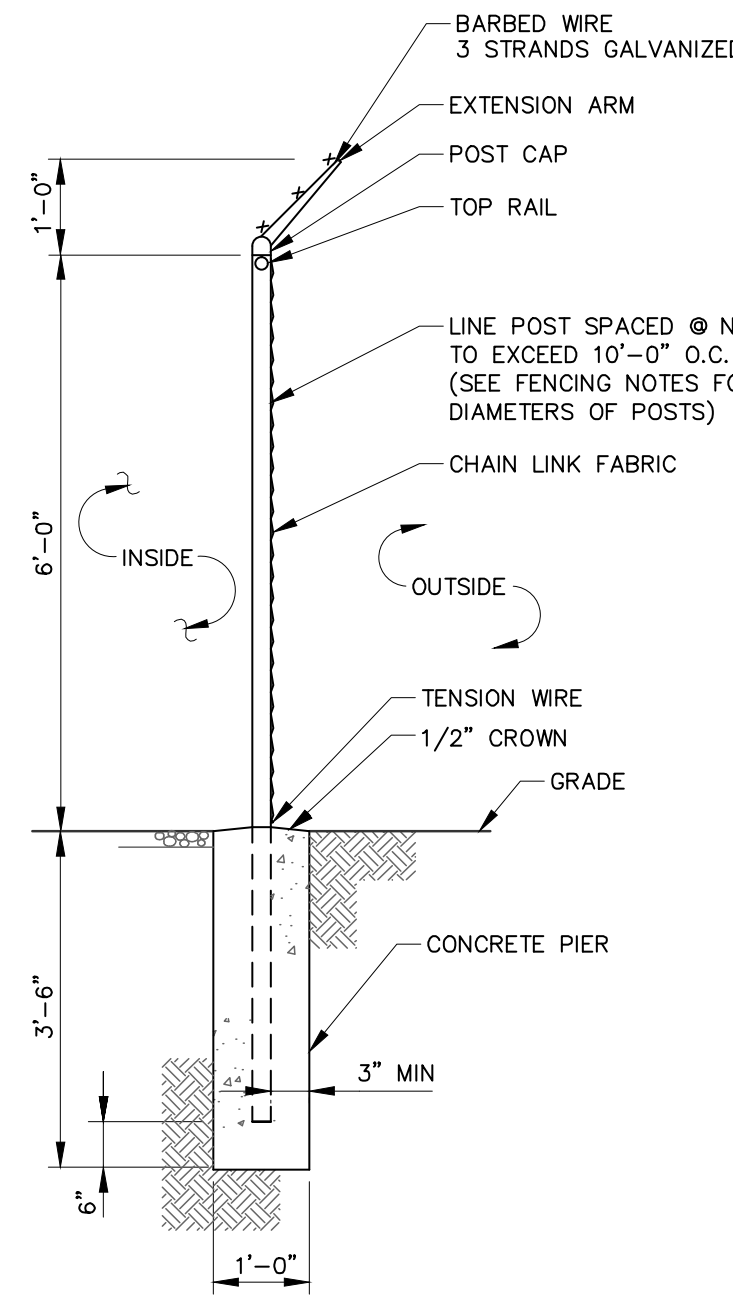
6 SECTION  
Z-4 SCALE: 1/2" = 1'-0"

### SHELTER NOTES

- THE VENDOR SHALL PROVIDE A PREFABRICATED SHELTER AT EACH SITE IDENTIFIED TO HOUSE THE PROPOSED EQUIPMENT. EACH SHELTER SHALL BE ONE-STORY AND THE EXTERIOR FINISH OF EACH SHELTER SHALL BE OF A NEUTRAL EARTH TONE COLOR THAT COMPLIES WITH ADIRONDACK PARK AGENCY (APA) REQUIREMENTS.
- THE EQUIPMENT SHELTER SHALL BE PREFABRICATED OF CONCRETE/FIBERGLASS CONSTRUCTION.

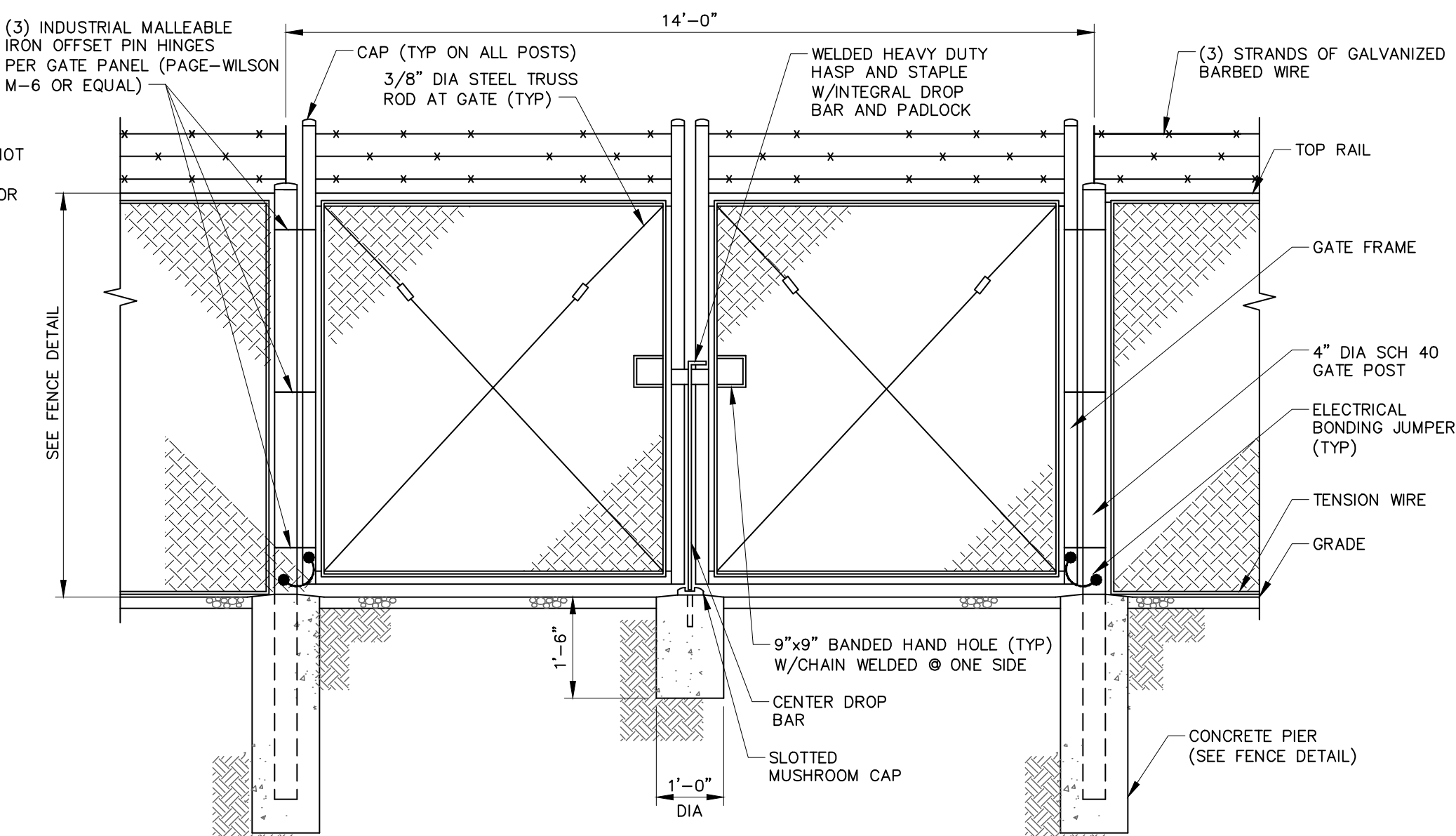


9 FRONT ELEVATION  
Z-4 SCALE: 1/2" = 1'-0"



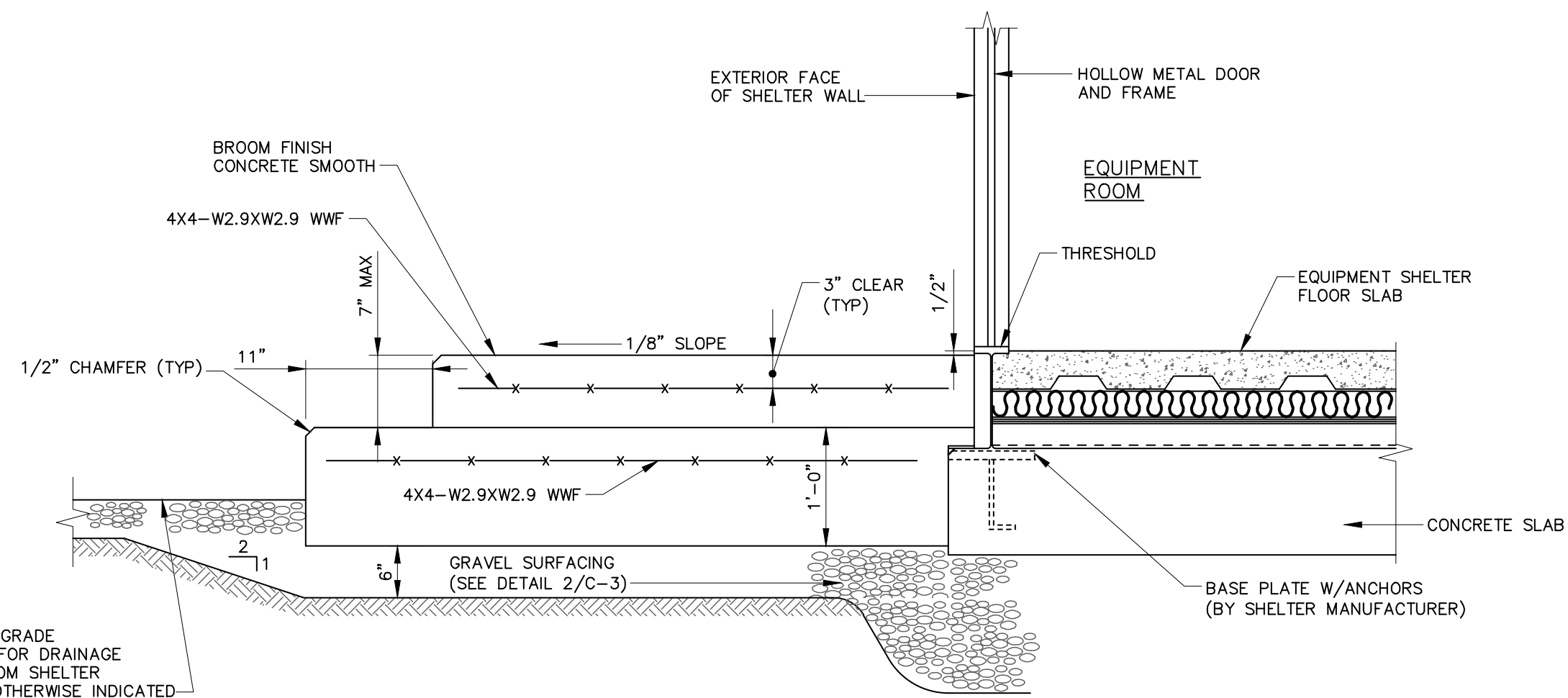
NOTE:  
IF ROCK IS ENCOUNTERED SEE DETAIL 2/Z-4

3 FENCE DETAIL  
Z-4 SCALE: 1/2" = 1'-0"

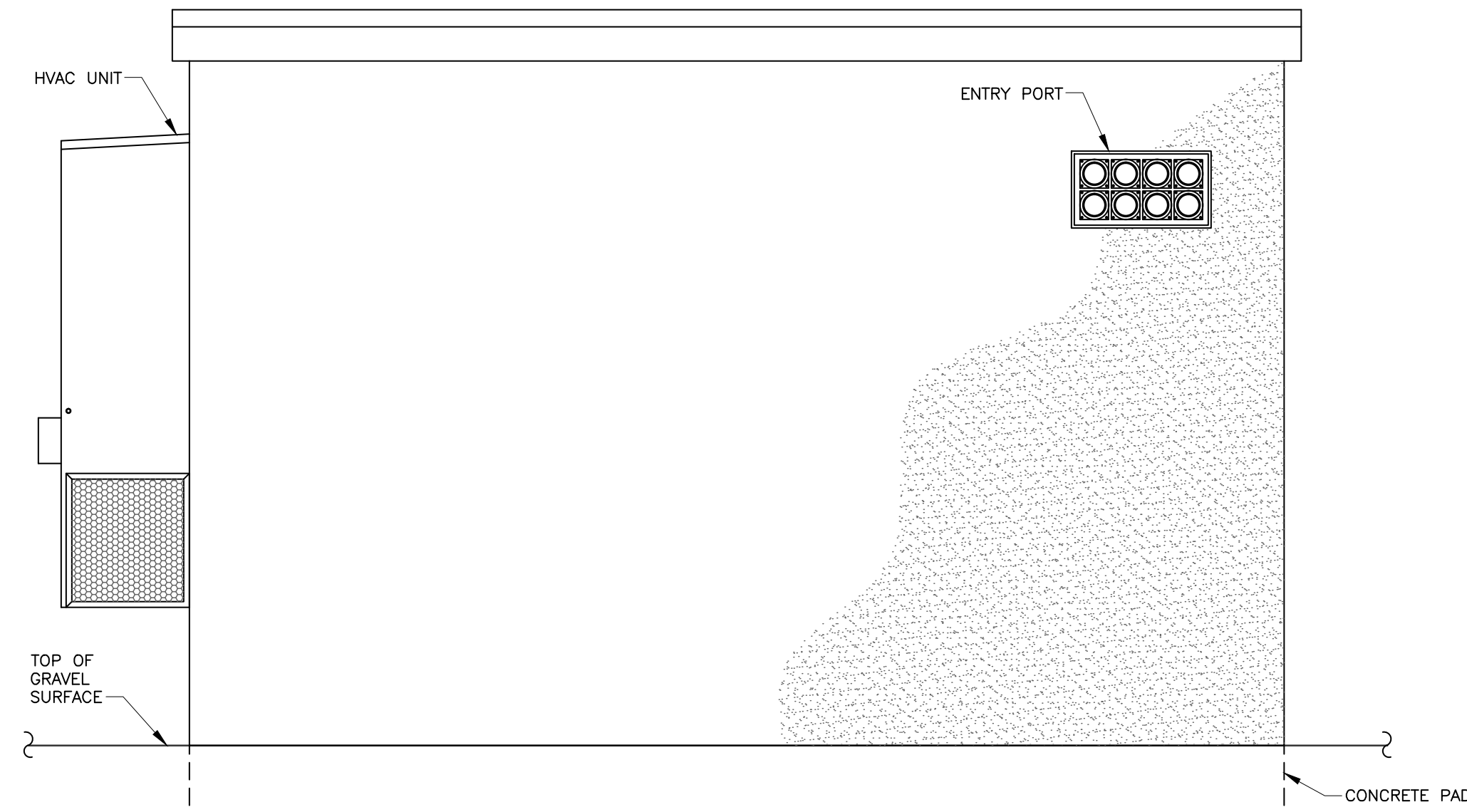


NOTE:  
IF ROCK IS ENCOUNTERED SEE DETAIL 2/Z-4

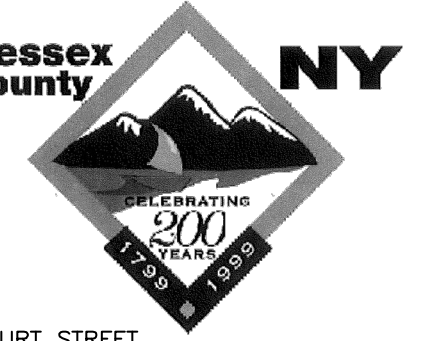
4 DOUBLE GATE DETAIL  
Z-4 SCALE: 1/2" = 1'-0"



7 CONCRETE PAD  
DETAIL (EQUIPMENT ROOM)  
Z-4 SCALE: 3/4" = 1'-0"



10 REAR ELEVATION  
Z-4 SCALE: 1/2" = 1'-0"



7551 COURT STREET  
P.O. BOX 217  
ELIZABETHTOWN, NY 12932

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Latham, NY 12110  
Phone: (518) 783-1630  
Fax: (518) 783-1544  
www.tectoniceengineering.com

### DESIGN APPROVAL

PRELIMINARY/CONSTRUCTION

RF. ENG. \_\_\_\_\_ DATE: \_\_\_\_\_  
EQPT. ENG. \_\_\_\_\_ DATE: \_\_\_\_\_  
OPERATIONS \_\_\_\_\_ DATE: \_\_\_\_\_  
CONST. MGR. \_\_\_\_\_ DATE: \_\_\_\_\_  
NETWORK ENG. \_\_\_\_\_ DATE: \_\_\_\_\_  
REAL ESTATE \_\_\_\_\_ DATE: \_\_\_\_\_

WORK ORDER NUMBER

5932.07

DRAWN BY

SLL

NO.	DATE	ISSUE
0	8/9/11	FOR COMMENT
1	9/19/11	PER COMMENTS
2	9/27/11	PER COMMENTS

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DATE

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ORIGINAL SIZE IN INCHES

SITE INFORMATION

TERRY MOUNTAIN  
1159 PEASLEEVE RD  
TOWN OF PERU  
CLINTON COUNTY  
NY 12972

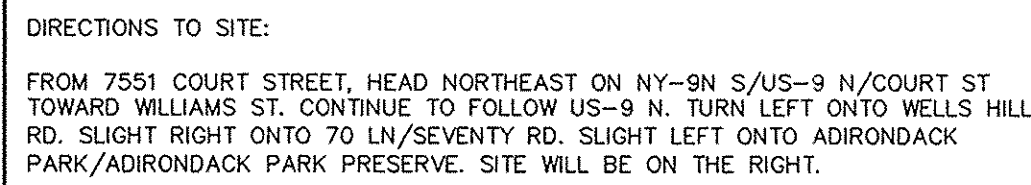
SHEET TITLE

DETAILS

SHEET NUMBER

**Z-4**

SITE NAME:  
**WELLS HILL**



PROJECT DESCRIPTION:  
THE PROPOSED PROJECT CONSISTS OF INSTALLING A NEW 50' SELF SUPPORT TOWER, TWO (2) NEW 6' DISH ANTENNAS, RELOCATING TWO (2) WHIP ANTENNAS, RELOCATING TWO (2) YAGI ANTENNAS AND THE ADDITION OF A NEW EQUIPMENT SHELTER. ONE (1) 4' DISH ANTENNA, ONE (1) 2' DISH ANTENNA WITH ELECTRONIC MODULE AND EXISTING 20' SELF SUPPORT TOWER WILL BE REMOVED.

Before You Dig, Drill Or Blast!

**Dig Safely.  
New York**

UNDERGROUND FACILITIES  
PROTECTIVE ORGANIZATION

CALL US TOLL FREE 1-800-962-7962

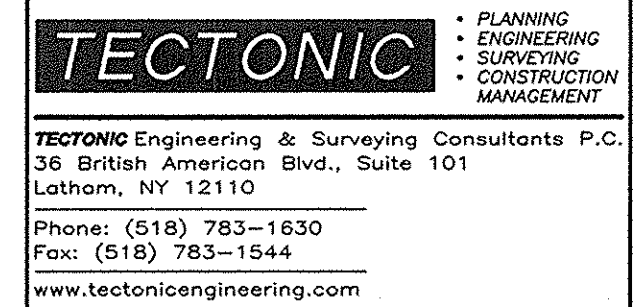
NY industrial code rule 753 requires no less than two  
working days notice, but 732 not more than ten days notice.

DIG SAFELY — NEW YORK

SHEET INDEX

**DO NOT SCALE DRAWINGS**

THESE DRAWINGS ARE FORMATTED FOR 24"x36". OTHER SIZED VERSIONS ARE NOT PRINTED TO THE SCALE SHOWN. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

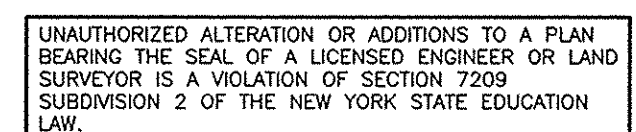


## PRELIMINARY/CONSTRUCTION

WORK ORDER NUMBER	DRAWN BY
5932.10	SLL

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0 1 2 3

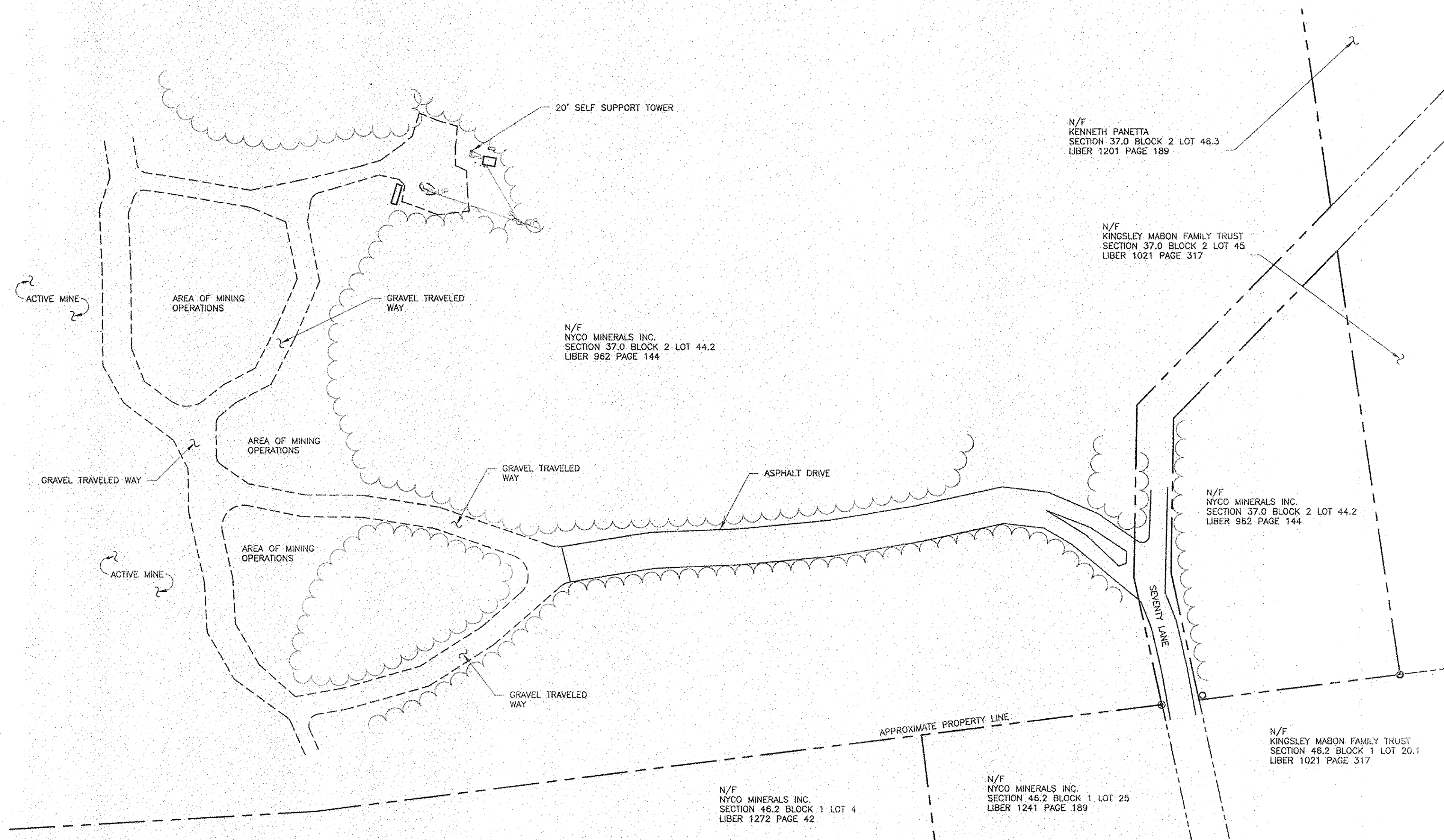
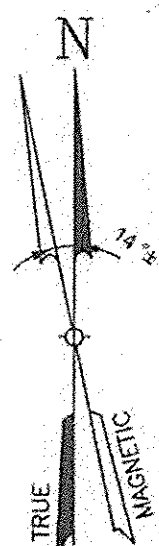
ORIGINAL SIZE IN INCHES

WELLS HILL  
189 SEVENTY LANE  
TOWN OF LEWIS  
ESSEX COUNTY  
NY 12950

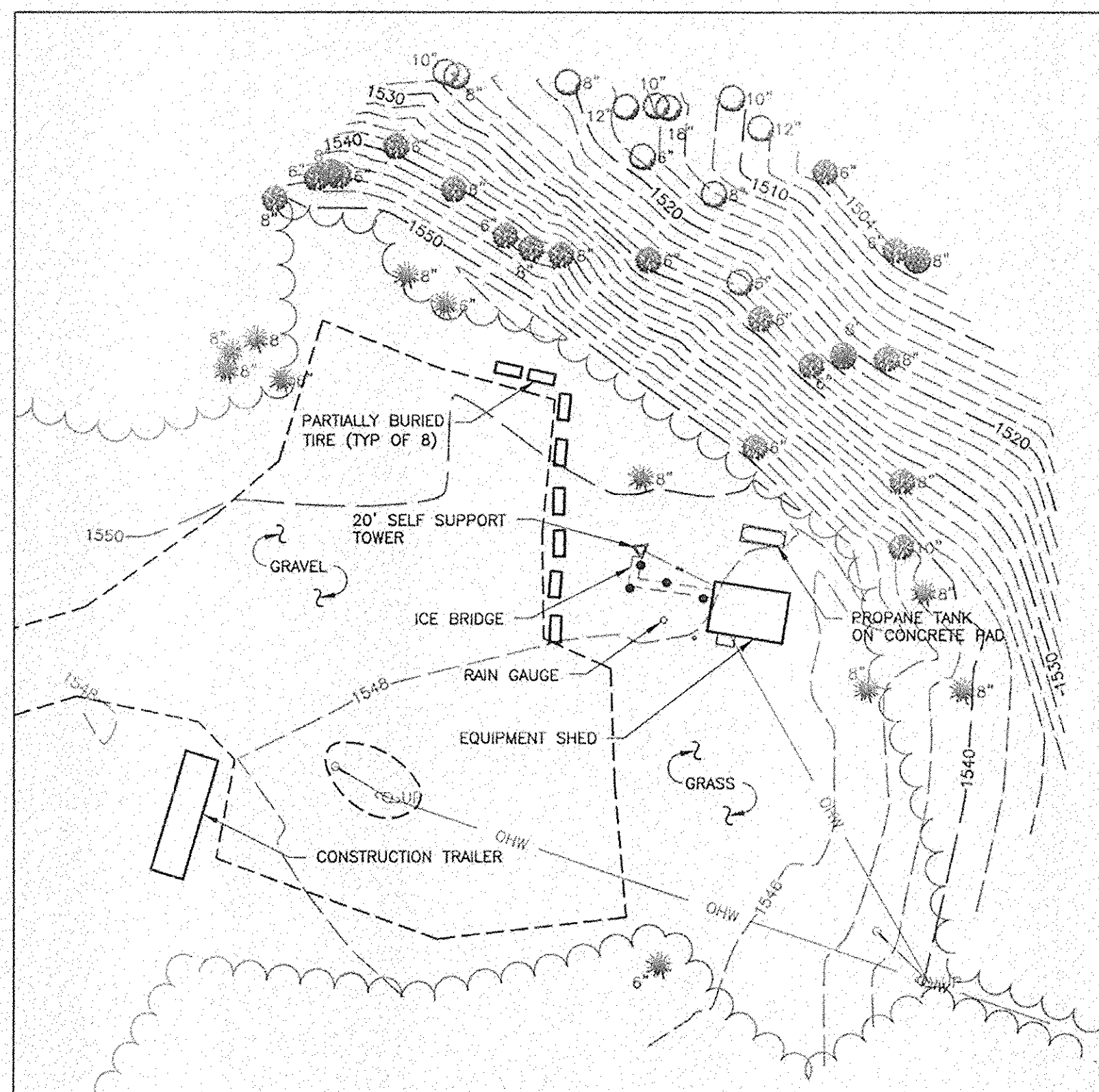
# TITLE SHEET

T-1

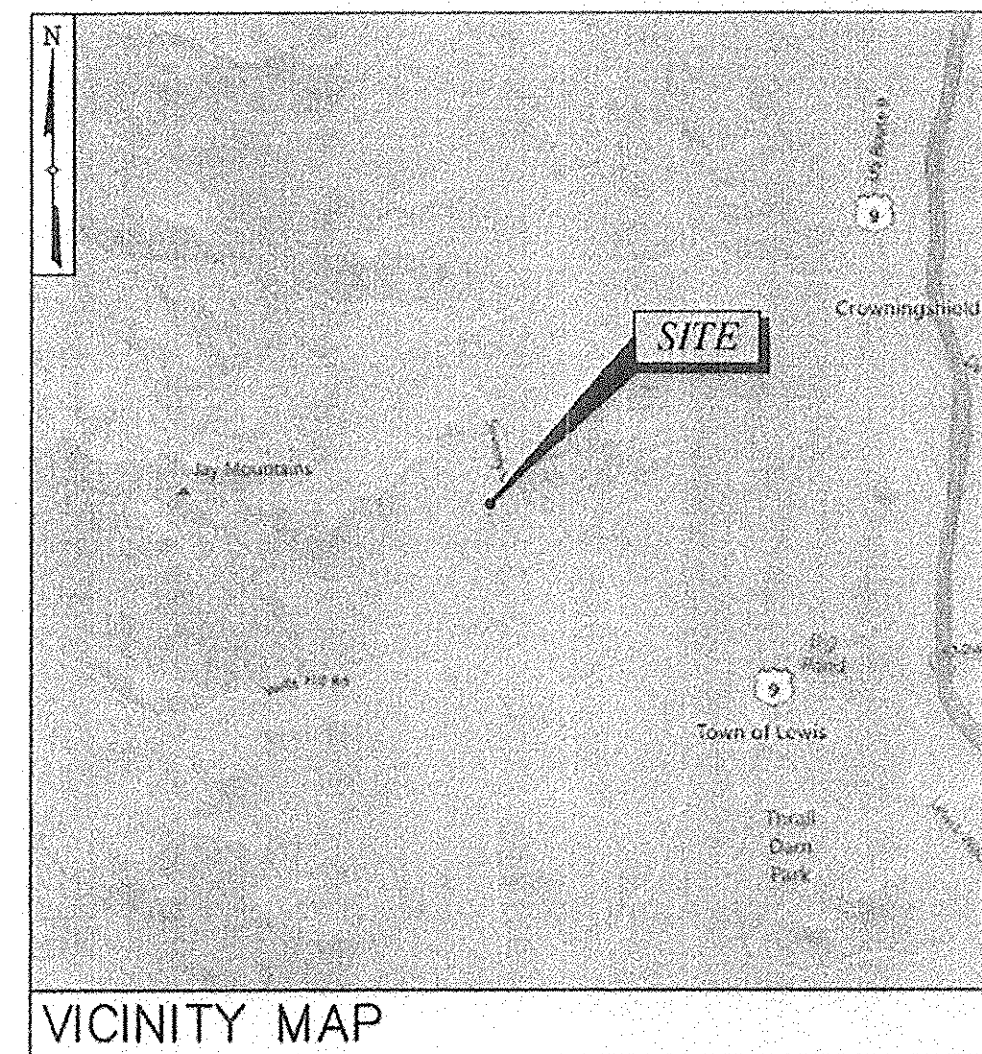




1 PARTIAL TOPOGRAPHIC SURVEY  
SCALE: 1" = 100'



2 TOWER AREA DETAIL  
SCALE: 1" = 30'

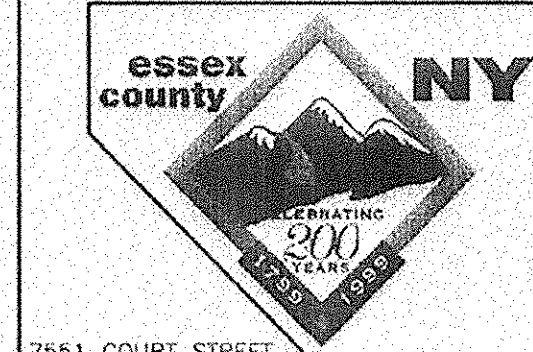


### GENERAL NOTES

- THIS PLAN IS BASED ON A FIELD SURVEY BY TECTONIC ENGINEERING AND SURVEYING CONSULTANTS, PC COMPLETED ON 8/2/11.
- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988.
- MERIDIAN AND COORDINATES REFER TO NEW YORK STATE PLANE, NAD 83, NEW YORK EAST ZONE AND ARE BASED ON GPS OBSERVATIONS.
- REFERENCES:
  - (A) DEED: BOOK 982 PAGE 144
  - (B) MAP ENTITLED: "MAP OF SURVEY SHOWING CERTAIN LANDS OF PROCESSED MINERALS INCORPORATED" FILED IN THE ESSEX COUNTY CLERK'S OFFICE AS MAP #3038.
- THIS SURVEY IS SUBJECT TO A COMPLETE AND UP TO DATE ABSTRACT OF TITLE. COVENANTS, EASEMENTS, GRANTS AND RIGHTS-OF-WAY NOT VISIBLE AND NOT REFERENCED ARE NOT SHOWN. TECTONIC ENGINEERING AND SURVEYING CONSULTANTS, PC SHALL NOT BE LIABLE FOR THE DISTURBANCE TO ANYONE'S RIGHT TO THE USE OF THE PROPERTY OR THE DISTURBANCE OF ANY UTILITIES NOT SHOWN OR REFERENCED ON THIS SURVEY PLAT.
- UNDERGROUND IMPROVEMENTS IF ANY AND NOT VISIBLE AT THE TIME OF THE SURVEY, HAVE NOT BEEN LOCATED IN THE FIELD OR SHOWN HEREON.
- LOCATIONS OF ALL UTILITIES AND SUBSTRUCTURES ARE APPROXIMATE ONLY BASED ON SURFACE EVIDENCE AND EXISTING PLANS. THE INFORMATION GIVEN ON THE SURVEY PERTAINING TO UTILITIES AND SUBSTRUCTURES IS NOT CERTIFIED TO ACCURACY OR COMPLETENESS. CONSULT WITH THE APPROPRIATE COMPANY OR AGENCY BEFORE DESIGNING OR CONSTRUCTING IMPROVEMENTS. TECTONIC ENGINEERING AND SURVEYING CONSULTANTS, P.C. WILL NOT BE RESPONSIBLE FOR ANY DAMAGE SUBSEQUENTLY CAUSED TO PERSONNEL, STRUCTURES, OR UTILITIES.
- THIS SURVEY PLAT IS FOR SITE PLAN/ENGINEERING PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR THE TRANSFER OF TITLE.
- THE SUBJECT PROPERTY FALLS WITHIN FLOOD ZONE "C" AS PER THE NATIONAL FLOOD INSURANCE RATE MAP FOR THE TOWN OF LEWIS, COUNTY OF ESSEX, STATE OF NEW YORK, COMMUNITY PANEL NO # 361152-D, EFFECTIVE DATE OF MAY 15, 1985. THIS DETERMINATION IS BASED ON SCALED MAP LOCATION AND GRAPHIC PLOTTING.
- THE PROPERTY LINES SHOWN HEREON ARE APPROXIMATE AND FOR ORIENTATION PURPOSE ONLY AND THEY DO NOT REPRESENT A PROPERTY/BOUNDARY OPINION BY THE LAND SURVEYOR.
- WETLANDS, IF PRESENT, HAVE NOT BEEN LOCATED OR SHOWN HEREON.
- NOT ALL IMPROVEMENTS ON THE PARCEL BEING SURVEYED HAVE BEEN SHOWN.

### LEGEND

---	APPROXIMATE PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EDGE OF GRAVEL
---	CONTOUR
---	INDEX CONTOUR
---	TREE LINE
---	OVERHEAD WIRES
○	MONUMENT
○	MONUMENT
○	BIRCH
○	MAPLE
○	PINE



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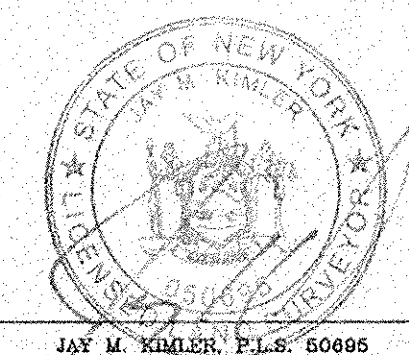
### DESIGN APPROVAL

PRELIMINARY/CONSTRUCTION	
RF' ENG.	DATE:
EQPT. ENG.	DATE:
OPERATIONS	DATE:
CONST. MGR.	DATE:
NETWORK ENG.	DATE:
REAL ESTATE	DATE:

WORK ORDER NUMBER	DRAWN BY
5932.10	DTS

NO.	DATE	ISSUE
0	8/6/11	FOR COMMENT

RELEASED BY	DATE



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ORIGINAL SIZE IN INCHES

### SITE INFORMATION

WELLS HILL  
SEVENTY LANE  
TOWN OF LEWIS  
ESSEX COUNTY  
NY 12950

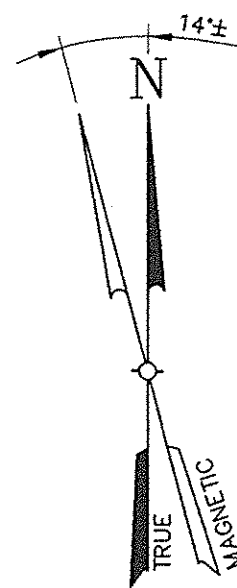
### SHEET TITLE

PARTIAL  
TOPOGRAPHIC  
SURVEY

### SHEET NUMBER

SU-1





**NORTH ORIENTATION**

1. TRUE NORTH ORIENTATION ESTABLISHED BY GPS OBSERVATION DURING A SITE SURVEY PERFORMED BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C., ENTITLED, "PARTIAL TOPOGRAPHIC SURVEY", DATED 8/6/11.

2. DECLINATION OBTAINED FROM THE NATIONAL GEOPHYSICAL DATA CENTER DURING THE MONTH OF AUGUST, 2011

N/F  
STATE OF NEW YORK  
SECTION 37.0 BLOCK 2 LOT 35  
LIBER 397 PAGE 428

N/F  
STATE OF NEW YORK  
SECTION 37.0 BLOCK 2 LOT 34  
LIBER 397 PAGE 428

N/F  
STATE OF NEW YORK  
SECTION 37.0 BLOCK 2 LOT 33  
LIBER 397 PAGE 428

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING STRUCTURES
	ADJOINING PROPERTY LINE
	EXISTING ACCESS ROAD

SETBACKS				
	FRONT	REAR	NORTH SIDE	SOUTH SIDE
PROPOSED SHELTER	1,165'±	1,485'±	2,533'±	842'±
PROPOSED TOWER	1,175'±	1,491'±	2,518'±	866'±

N/F  
PHILLIP N GOFF, SR  
SECTION 37.0 BLOCK 2 LOT 48  
LIBER 1525 PAGE 169

N/F  
RONALD R BROWN  
SECTION 37.0 BLOCK 2 LOT 47  
LIBER 889 PAGE 45

N/F  
GEORGE J PROCTOR  
SECTION 37.0 BLOCK 2 LOT 46.1  
LIBER 724 PAGE 10

N/F  
FREDERICK & LORETTA PROCTOR  
SECTION 37.0 BLOCK 2 LOT 46.2  
LIBER 709 PAGE 12

N/F  
KENNETH PANETTA  
SECTION 37.0 BLOCK 2 LOT 46.3  
LIBER 1201 PAGE 189

N/F  
KINSLEY MABON FAMILY TRUST  
SECTION 37 BLOCK 2 LOT 45  
LIBER 1021 PAGE 317

PROPOSED 50' SELF  
SUPPORT TOWER  
(SEE DETAIL 1/Z-3)

EXISTING 20' TOWER TO BE REMOVED

EXISTING EQUIPMENT SHELTER

PROPOSED 10'x22'  
EQUIPMENT SHELTER  
(SEE SHEET Z-4 FOR DETAILS)

N/F  
NYCO MINERALS INC.  
SECTION 37.0 BLOCK 2 LOT 44.2  
LIBER 962 PAGE 144

N/F  
NYCO MINERALS INC.  
SECTION 37.0  
BLOCK 2 LOT 44.2  
LIBER 962 PAGE 144

N/F  
KINSLEY MABON FAMILY TRUST  
SECTION 46.2 BLOCK 1 LOT 20.1  
LIBER 1021 PAGE 317

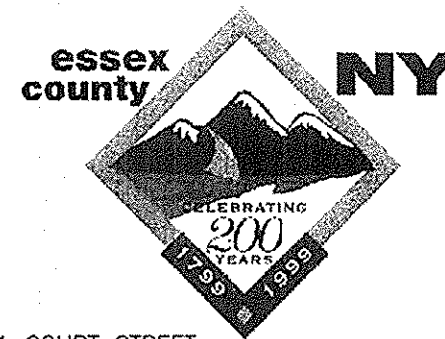
N/F  
NYCO MINERALS INC.  
SECTION 46.2 BLOCK 1 LOT 4  
LIBER 1272 PAGE 42

N/F  
NYCO MINERALS INC.  
SECTION 46.2 BLOCK 1 LOT 25  
LIBER 1241 PAGE 189

N/F  
STATE OF NEW YORK  
SECTION 37.0 BLOCK 2 LOT 43  
LIBER 397 PAGE 428

N/F  
NYCO MINERALS INC.  
SECTION 46.2 BLOCK 1 LOT 3  
LIBER 1272 PAGE 42

**1**  
SB-1  
**SETBACK PLAN**  
SCALE: 1" = 200'



7551 COURT STREET  
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**DESIGN APPROVAL**

PRELIMINARY/CONSTRUCTION

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EOPT. ENG. \_\_\_\_\_ DATE: \_\_\_\_\_  
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CONST. MGR. \_\_\_\_\_ DATE: \_\_\_\_\_  
NETWORK ENG. \_\_\_\_\_ DATE: \_\_\_\_\_  
REAL ESTATE \_\_\_\_\_ DATE: \_\_\_\_\_

WORK ORDER NUMBER 5932.10  
DRAWN BY SLL

NO.	DATE	ISSUE
0	8/12/11	FOR COMMENT
1	9/9/11	PER COMMENTS
2	1/12/12	PER COMMENTS
3	3/13/12	PER COMMENTS
4	3/13/12	FOR ZONING

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_



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0 1 2 3  
ORIGINAL SIZE IN INCHES

**SITE INFORMATION**

WELLS HILL  
189 SEVENTY LANE  
TOWN OF LEWIS  
ESSEX COUNTY  
NY 12950

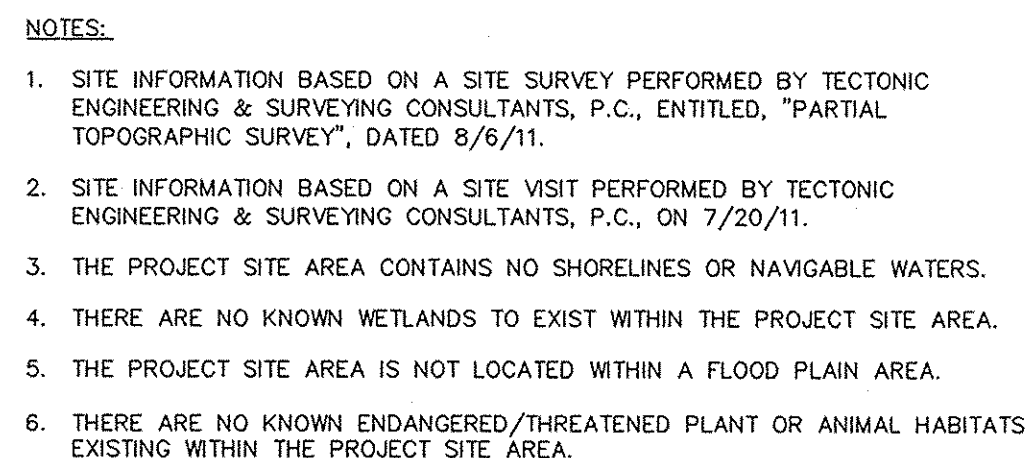
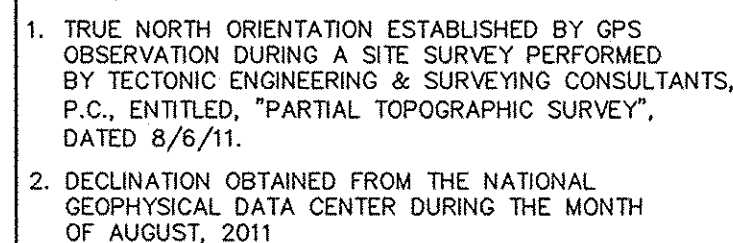
**SHEET TITLE**

SETBACK PLAN

**SHEET NUMBER**

**SB-1**





SCALE: 1" = 20'

1. THE PROJECT, THE INSTALLATION OF AN UNMANNED PUBLIC SAFETY WIRELESS COMMUNICATION FACILITY.
2. THE PROPOSED DEVELOPMENT IS UNMANNED AND DOES NOT REQUIRE A MEANS OF WATER SUPPLY, SEWAGE DISPOSAL, OR HANDICAPPED ACCESS.
3. THE PROPOSED DEVELOPMENT IS MINIMAL, WILL CREATE NEGLIGIBLE ADDITIONAL STORMWATER RUNOFF, AND WILL, THEREFORE, NOT IMPACT THE EXISTING STORMWATER DRAINAGE SYSTEM.
4. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE, SOLID WASTE RECEPTACLES, OR PLUMBING.
5. ADEQUATE PARKING EXISTS FOR ONE VEHICLE FOR MAINTENANCE OR EMERGENCY SERVICE.
6. THERE ARE NO NEW STREETS, CURBS, SIDEWALKS, OR WALKWAYS PROPOSED.
7. THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS INSTALLATION.

1. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS.
2. RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
3. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
4. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW, OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
5. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
6. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. ANY UTILITY REQUIRED FOR OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND PROPERLY TAPPED, PLUGGED, OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
8. THE AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITY SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEED,ED, AND COVERED WITH MULCH.
9. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION, EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE TOWN.

EXISTING CONTOUR  
 EXISTING TREE LINE  
 EXISTING EDGE OF PAVEMENT  
 EXISTING EDGE OF GRAVEL DRIVE  
 EXISTING FENCE  
 EXISTING OVERHEAD WIRES  
 EXISTING UTILITY POLE  
 EXISTING IRON ROD/PIPE  
 EXISTING CABLE TRAY POST  
 EXISTING BUILDING  
 PROPOSED LIMIT OF CLEARING/CONSTRUCTION

- CONTRACTOR SHALL NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT TELEPHONE NUMBER 1-800-962-7962 PRIOR TO EXCAVATION AT SITE
- CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
- ALL EXCAVATION WORK WITHIN 36" OF EITHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND EXCAVATION METHODS



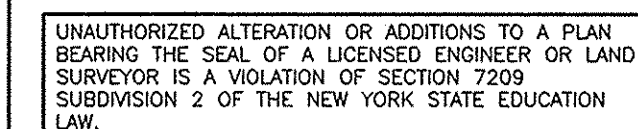
## PRELIMINARY/CONSTRUCTION

RF ENG.	DATE:
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OPERATIONS	DATE:
CONST. MGR.	DATE:
NETWORK ENG.	DATE:
REAL ESTATE	DATE:

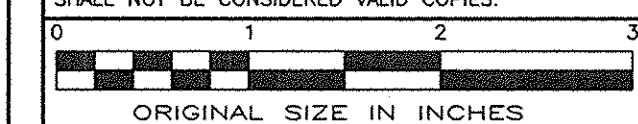
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### SITE INFORMATION

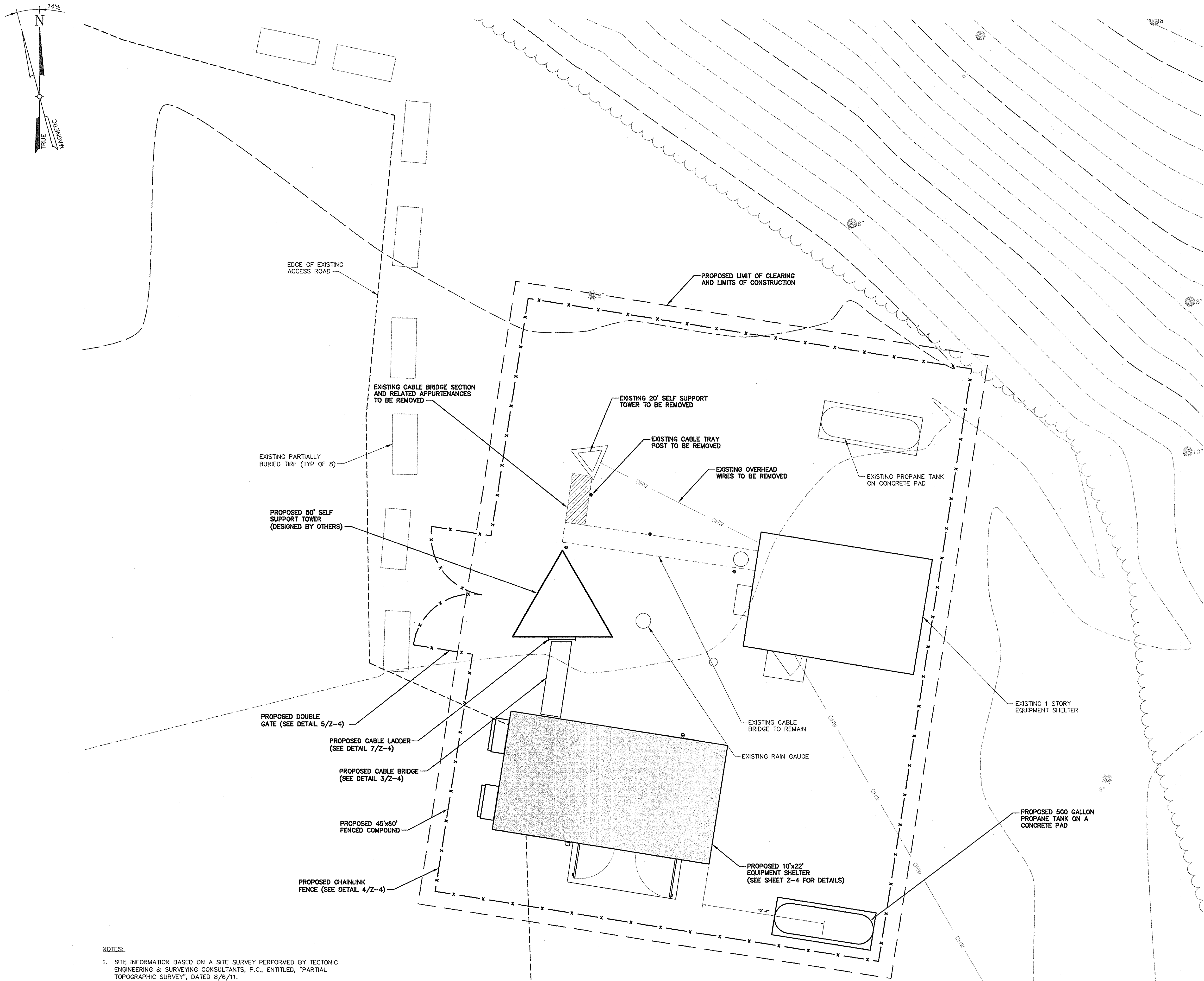
WELLS HILL  
189 SEVENTY LANE  
TOWN OF LEWIS  
ESSEX COUNTY  
NY 12950

**SHEET TITLE**

SITE PLAN  
& NOTES

## SHEET NUMBER

Z-1



1 SITE DETAIL PLAN  
Z-2  
SCALE: 1" = 5'

- CONTRACTOR SHALL NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT TELEPHONE NUMBER 1-800-962-7962 PRIOR TO EXCAVATION AT SITE
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- ALL EXCAVATION WORK WITHIN 36" OF EITHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND EXCAVATION METHODS

essex county NY  
7551 COURT STREET  
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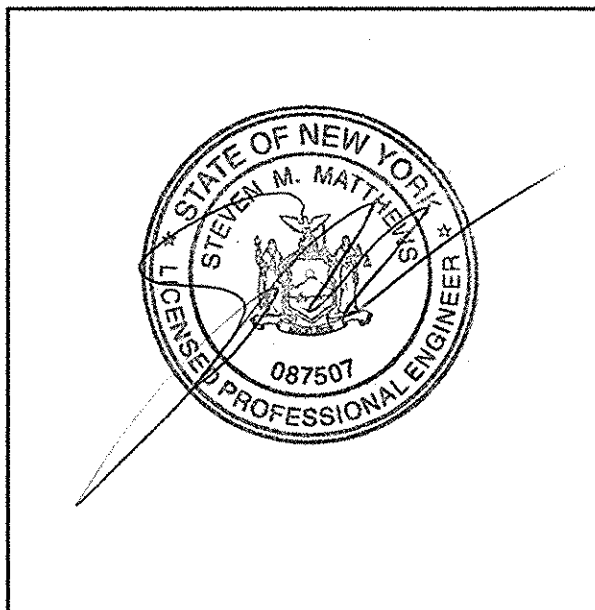
DESIGN APPROVAL

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0 1 2 3  
ORIGINAL SIZE IN INCHES  
SITE INFORMATION

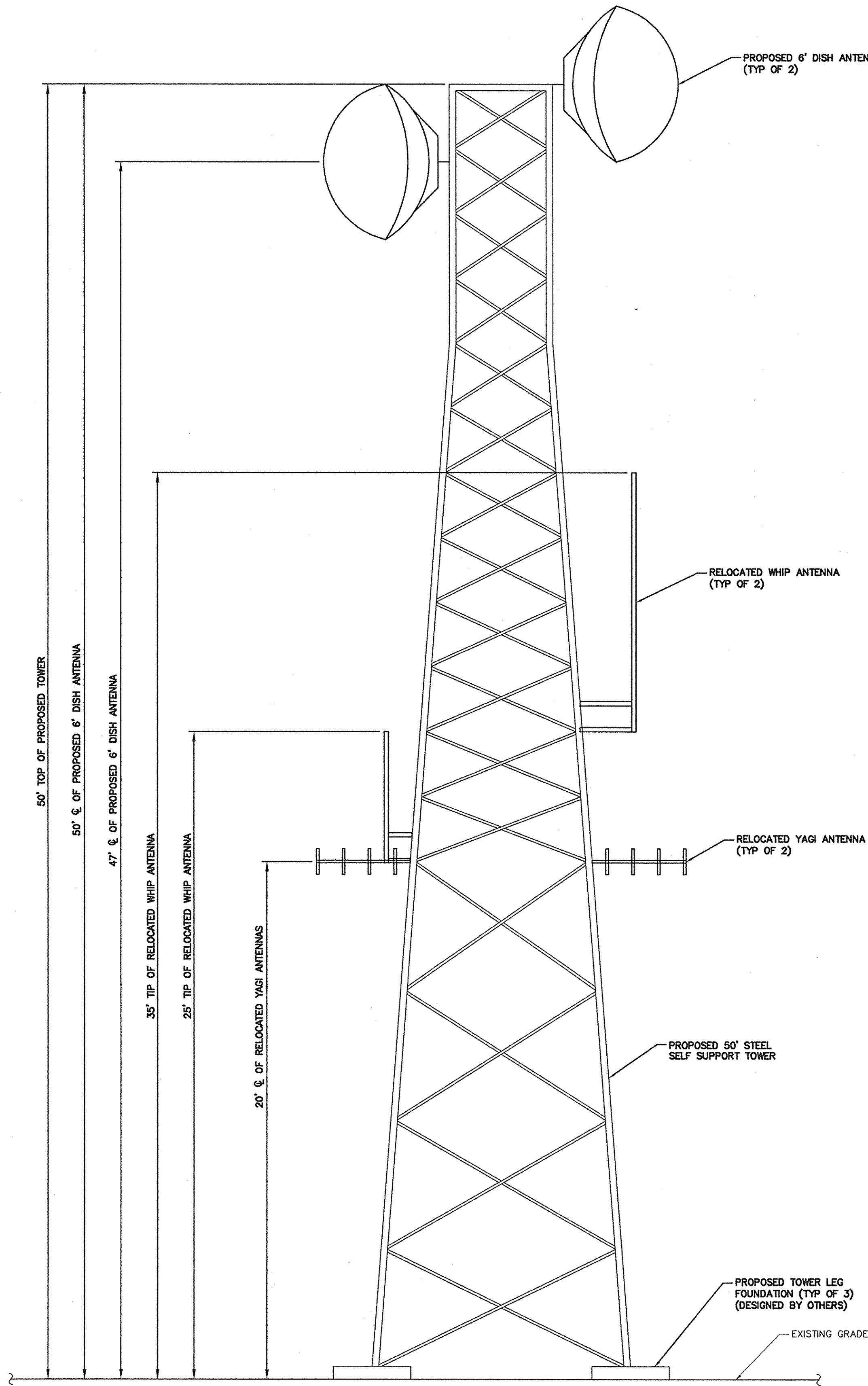
WELLS HILL  
189 SEVENTY LANE  
TOWN OF LEWIS  
ESSEX COUNTY  
NY 12950

SHEET TITLE  
SITE DETAIL PLAN

SHEET NUMBER

Z-2





NOTE:  
1. TOWER WIDTH AND DEPTH DIMENSIONS AT THE BASE AND TOP TO BE DETERMINED BY THE STRUCTURAL DESIGN ENGINEERS.  
2. EXACT TYPE OF ANTENNA MOUNTS TO TO BE DETERMINED BY THE STRUCTURAL DESIGN ENGINEERS.

**ELEVATION**  
1  
Z-3  
SCALE: 1" = 3'

ANTENNA AND COAXIAL SCHEDULE					
LEG	ANTENNA	ANTENNA DATA	AZIMUTH	ANTENNA & HEIGHT (AGL)	COAXIAL CABLE
SOUTHWEST	6' DISH	PROPOSED 6' DISH ANTENNA	167.03°	47'±	RFS E60
NORTH	5' WHIP	RELOCATED 5' WHIP ANTENNA	N/A	25'± TIP	LDF-4
NORTH	YAGI ANTENNA	RELOCATED YAGI ANTENNA	58°	20'±	LDF-4
SOUTHEAST	6' DISH	PROPOSED 6' DISH ANTENNA	110.1°	50'±	RFS E60
SOUTHEAST	10' WHIP	RELOCATED 10' WHIP ANTENNA	N/A	35'± TIP	LDF-4
SOUTHEAST	YAGI ANTENNA	RELOCATED YAGI ANTENNA	152°	20'±	LDF-4

NOTE:  
1. ANTENNA AND COAXIAL SCHEDULE BASED ON AN RF ANTENNA DESIGN SHEET-DATA RECEIVED FROM ESSEX COUNTY.

ANTENNA MOUNTING NOTES

- DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO TIA/EIA-222-F-1996 "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES". DESIGN WIND SPEED = 75 MPH PER NYS BUILDING CODE (65 MPH IN CONJUNCTION WITH 0.5 INCHES OF DESIGN ICE THICKNESS).
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
- ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DESIGN OF THE ANTENNA MOUNTING BRACKETS, SUPPORTS, AND ALL COMPONENTS THEREOF AND ATTACHMENT THERETO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MANUFACTURER SHALL PROVIDE THE OWNER DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA. MANUFACTURER SHALL ALSO PROVIDE THE OWNER WITH A STATEMENT OF COMPLIANCE, INDICATING THAT THE ANTENNA SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH TIA-222-F STANDARDS. ALL SUBMISSIONS SHALL BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.

STRUCTURAL NOTE:

- PROPOSED TOWER AND TOWER FOUNDATION TO BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
- THE VERIFICATION OF STRUCTURAL ADEQUACY AND DESIGN OF THE ATTACHMENTS MUST BE PERFORMED, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
- ALL WORK SHOULD CONFORM TO ANSI STANDARD "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES", NEW YORK STATE BUILDING CODE, LATEST EDITION, NEW YORK STATE UNIFORM FIRE PREVENTION AND ITS REFERENCED STANDARDS.

- CONTRACTOR SHALL NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT TELEPHONE NUMBER 1-800-962-7962 PRIOR TO EXCAVATION AT SITE
- CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
- ALL EXCAVATION WORK WITHIN 36" OF EITHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND EXCAVATION METHODS

essex county

NY

CELEBRATING 200 YEARS 1793-1993

7551 COURT STREET  
P.O. BOX 217  
ELIZABETHTOWN, NY 12932

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TECTONIC Engineering & Surveying Consultants P.C.  
36 British American Blvd., Suite 101  
Latham, NY 12110

Phone: (518) 783-1630  
Fax: (518) 783-1544  
www.tectonicengineering.com

DESIGN APPROVAL

PRELIMINARY/CONSTRUCTION

RF ENG. \_\_\_\_\_ DATE: \_\_\_\_\_  
EOPT. ENG. \_\_\_\_\_ DATE: \_\_\_\_\_  
OPERATIONS \_\_\_\_\_ DATE: \_\_\_\_\_  
CONST. MGR. \_\_\_\_\_ DATE: \_\_\_\_\_  
NETWORK ENG. \_\_\_\_\_ DATE: \_\_\_\_\_  
REAL ESTATE \_\_\_\_\_ DATE: \_\_\_\_\_

WORK ORDER NUMBER

DRAWN BY

5932.10

SLL

NO.	DATE	ISSUE
0	8/12/11	FOR COMMENT
1	9/9/11	PER COMMENTS
2	1/12/12	PER COMMENTS
3	3/13/12	PER COMMENTS
4	3/13/12	FOR ZONING

RELEASED BY

DATE

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0 1 2 3

ORIGINAL SIZE IN INCHES

SITE INFORMATION

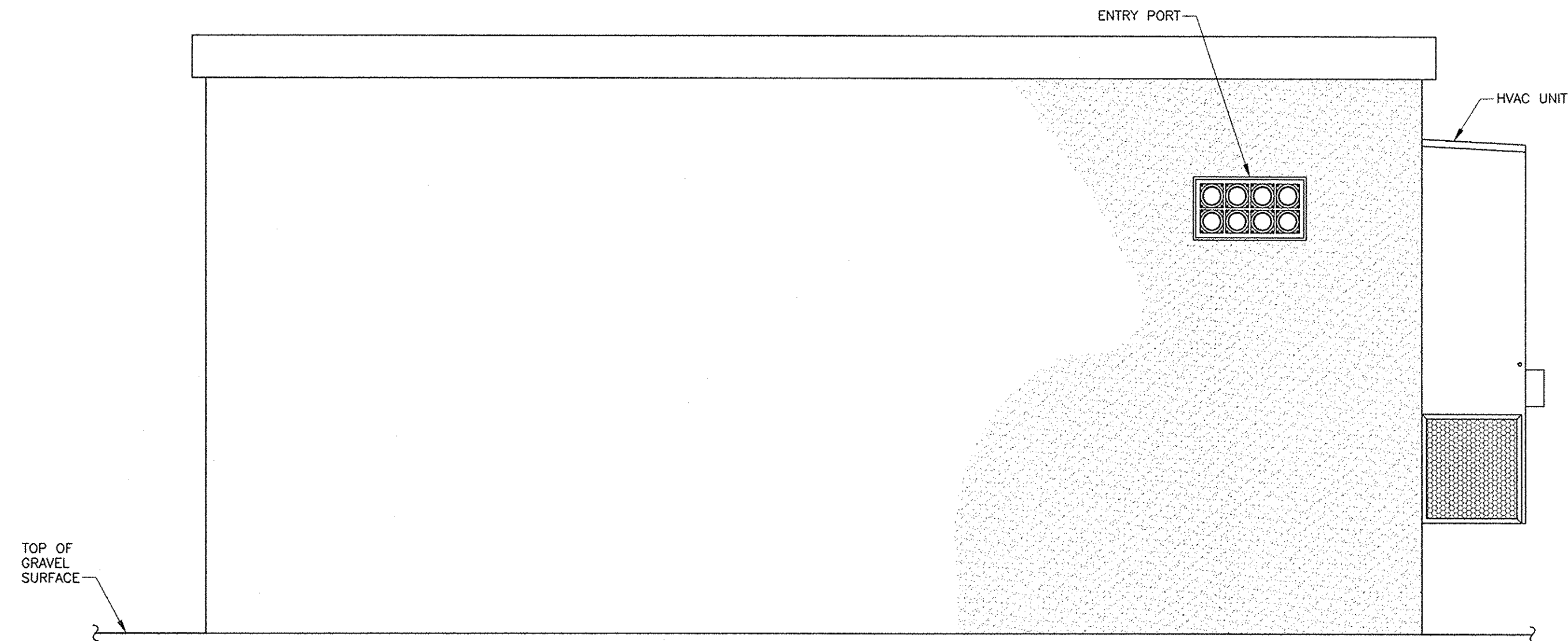
WELLS HILL  
189 SEVENTY LANE  
TOWN OF LEWIS  
ESSEX COUNTY  
NY 12950

SHEET TITLE

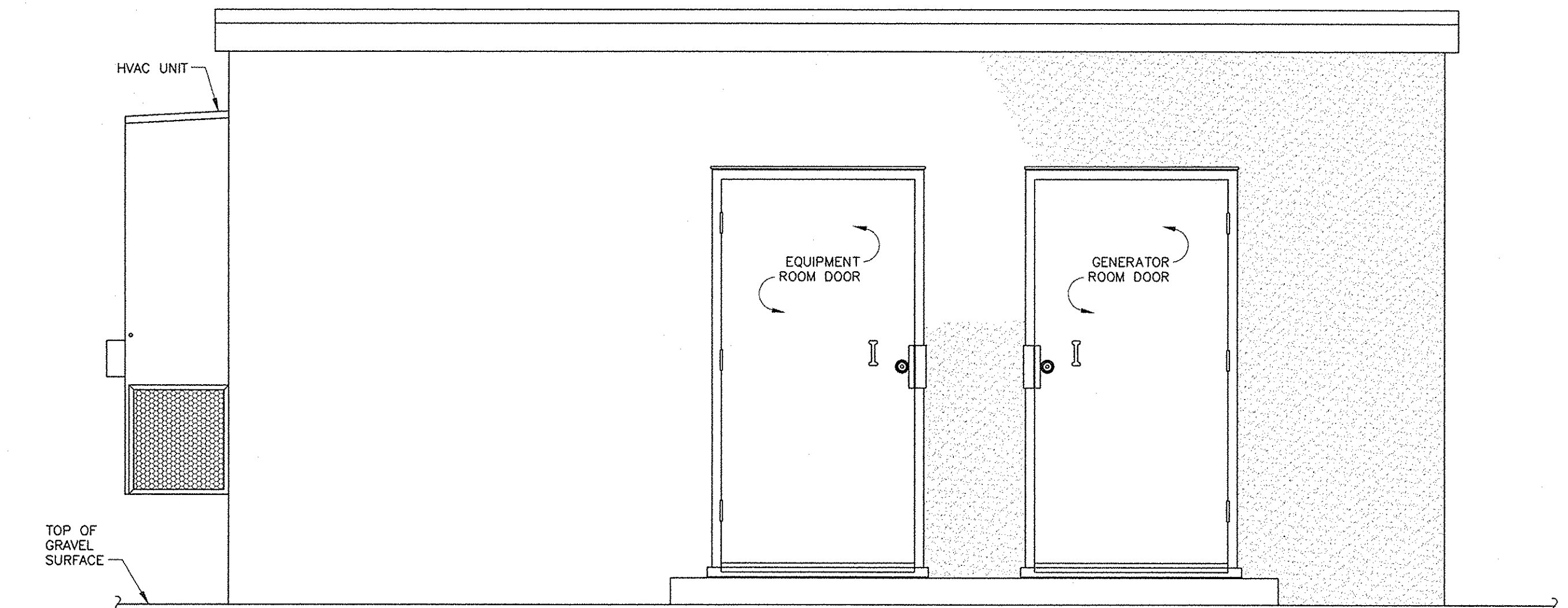
ELEVATION & NOTES

SHEET NUMBER

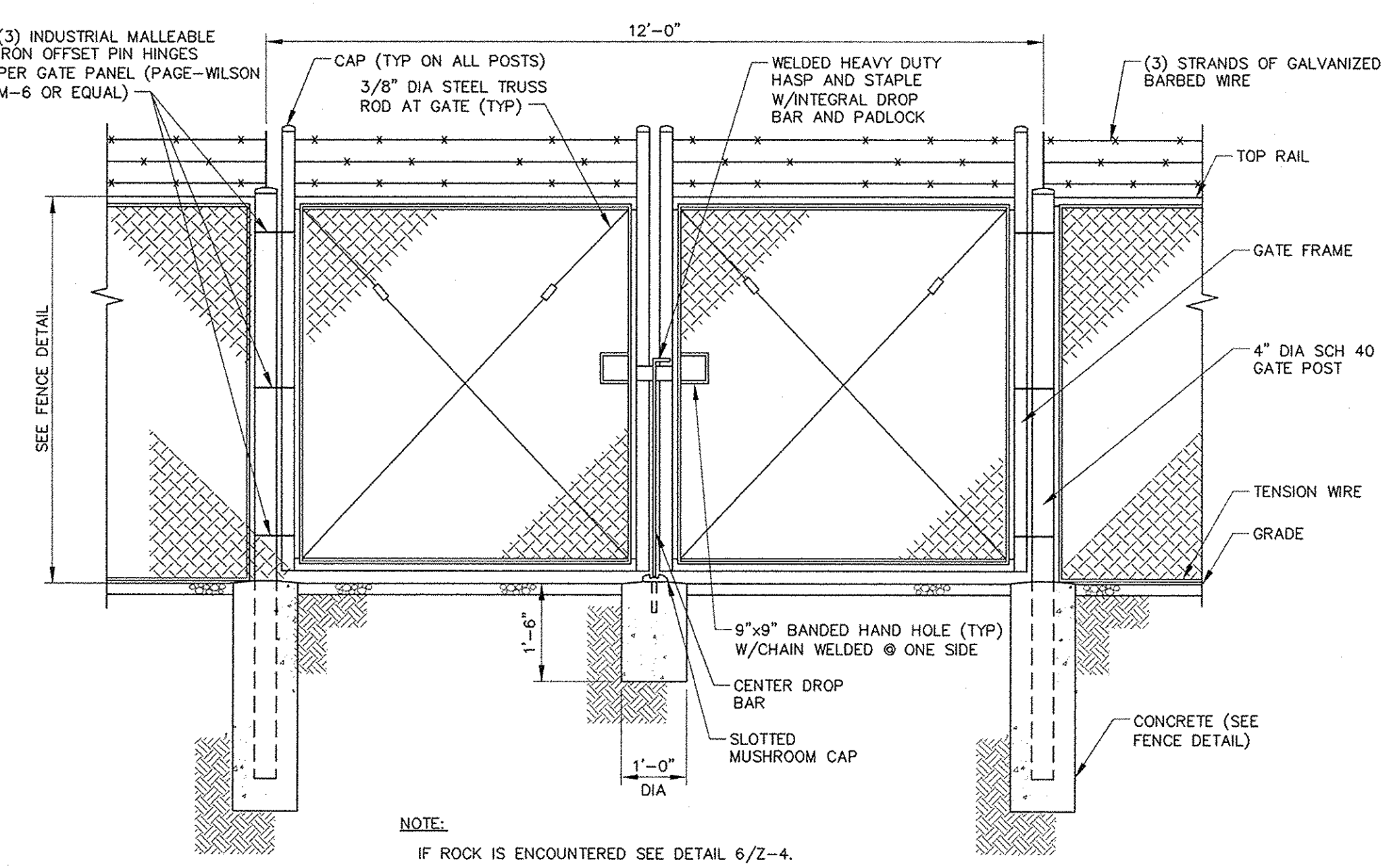
Z-3



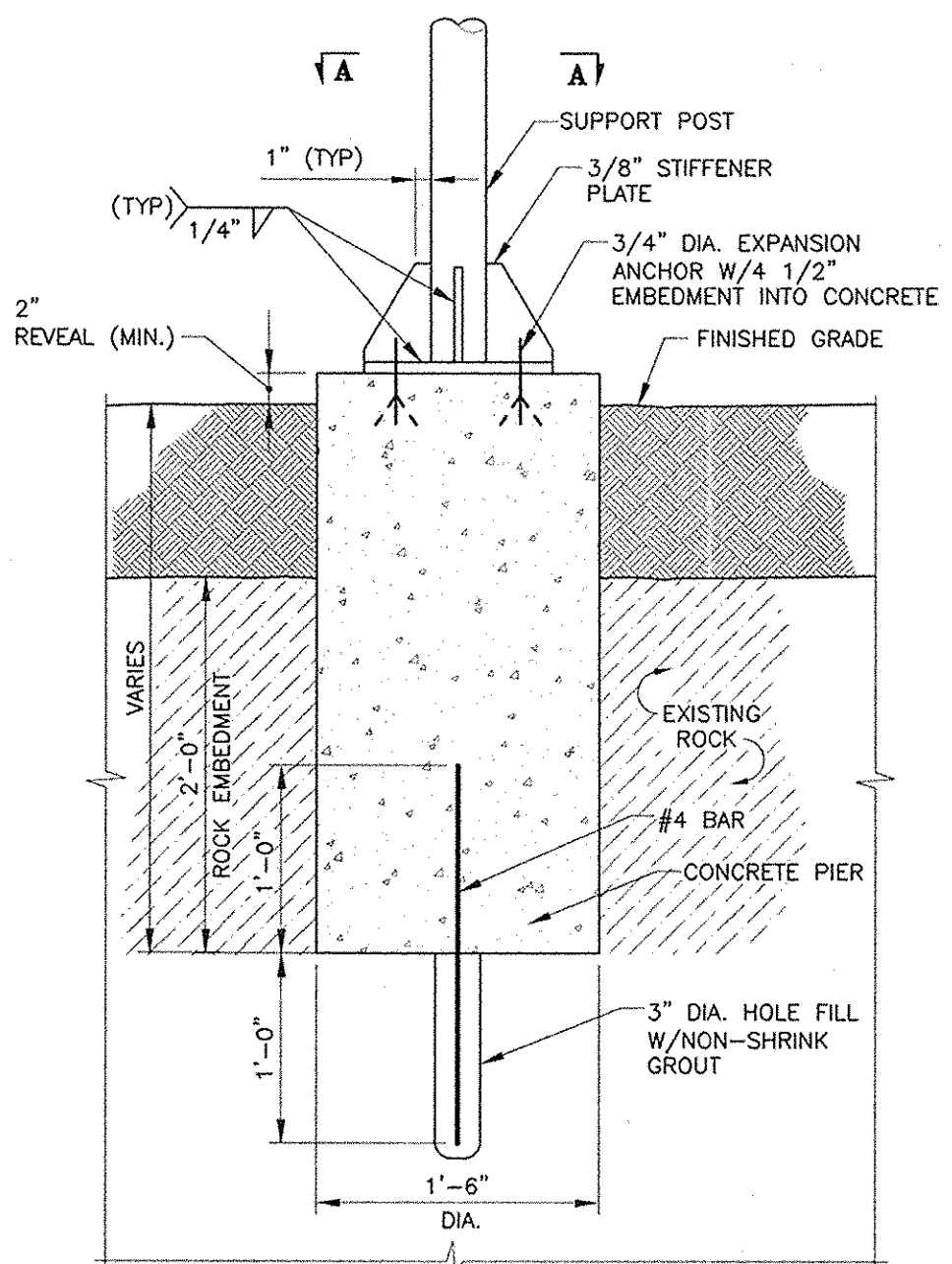
1 FRONT ELEVATION  
Z-4 SCALE: 1/2" = 1'-0"



2 REAR ELEVATION  
Z-4 SCALE: 1/2" = 1'-0"



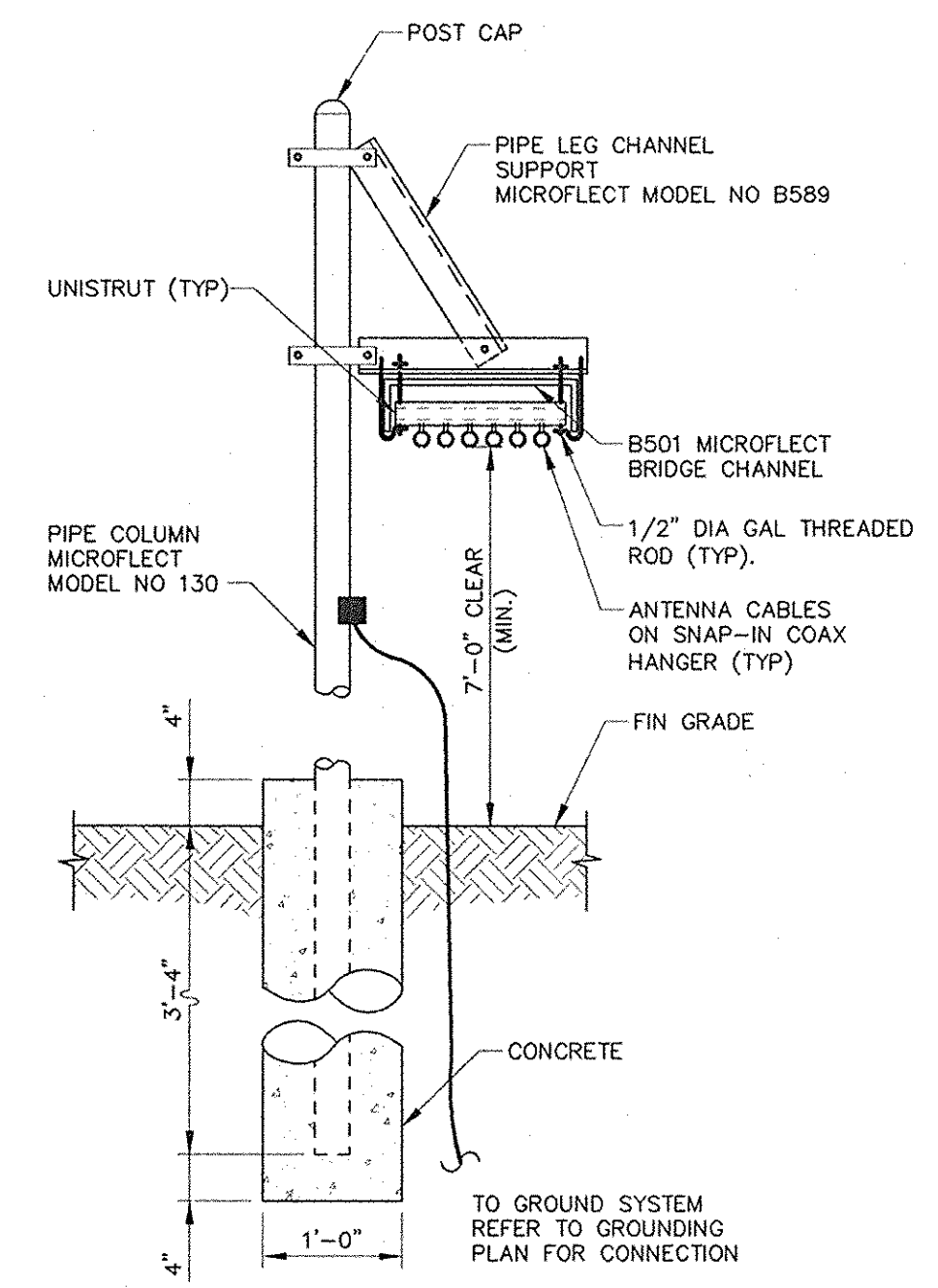
5 DOUBLE GATE DETAIL  
Z-4 SCALE: 1/2" = 1'-0"



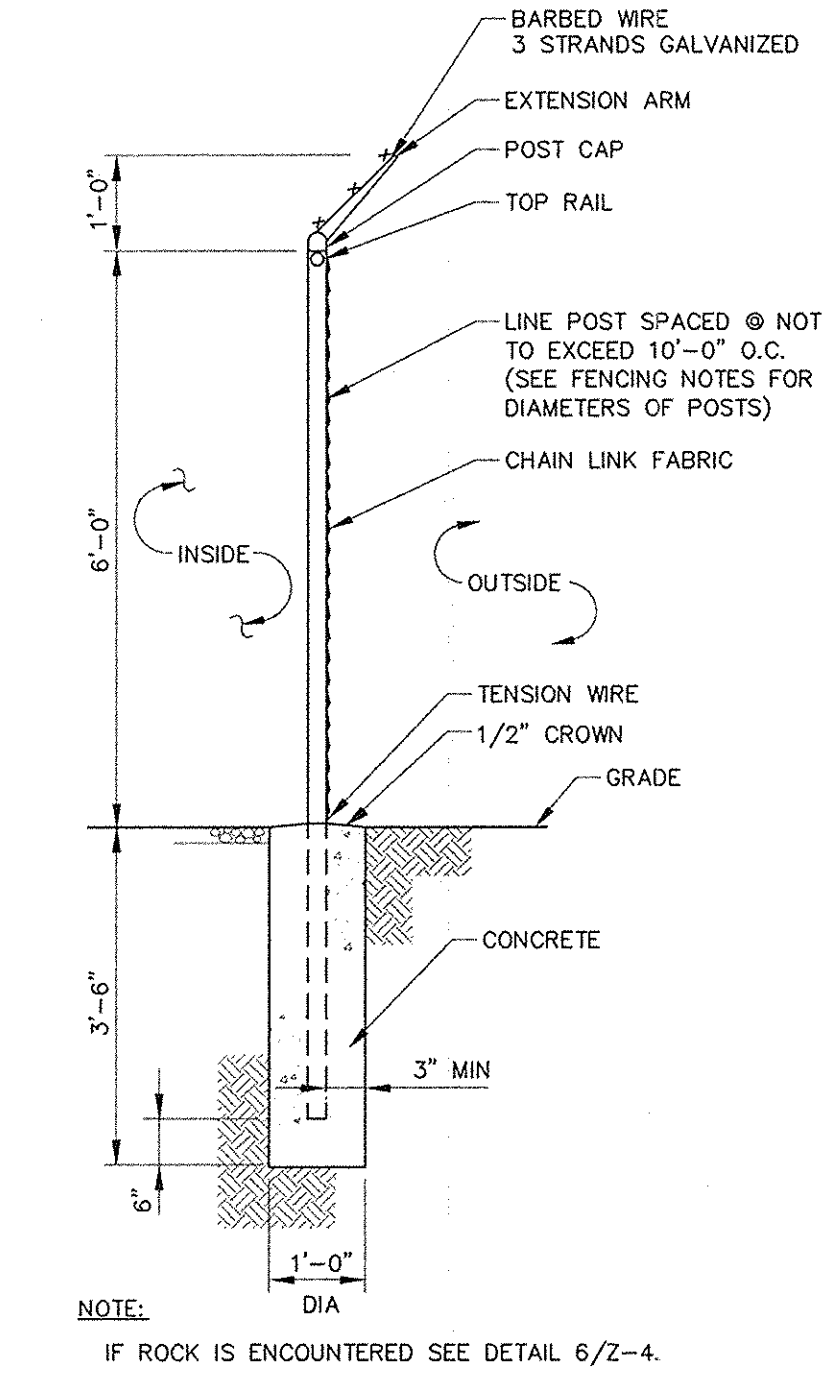
6 POST CONNECTION  
Z-4 SCALE: 1" = 1'-0"

### SHELTER NOTES

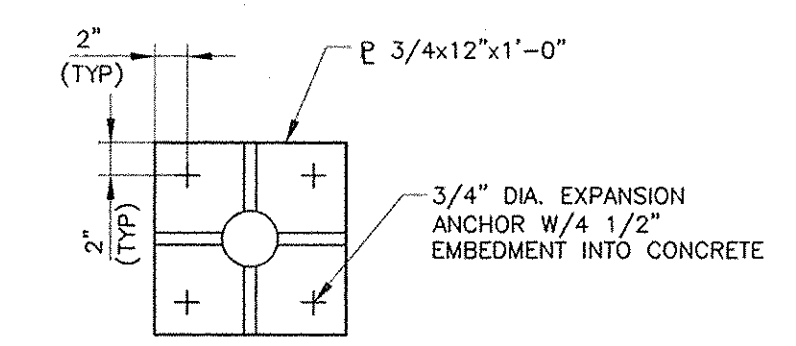
1. THE VENDOR SHALL PROVIDE A PREFABRICATED SHELTER AT EACH SITE IDENTIFIED TO HOUSE THE PROPOSED EQUIPMENT. EACH SHELTER SHALL BE ONE-STORY AND THE EXTERIOR FINISH OF EACH SHELTER SHALL BE A NEUTRAL, EARTH TONE COLOR THAT COMPLIES WITH ADIRONDACK PARK AGENCY (APA) REQUIREMENTS.
2. THE EQUIPMENT SHELTER SHALL BE PREFABRICATED OF CONCRETE/FIBERGLASS CONSTRUCTION.



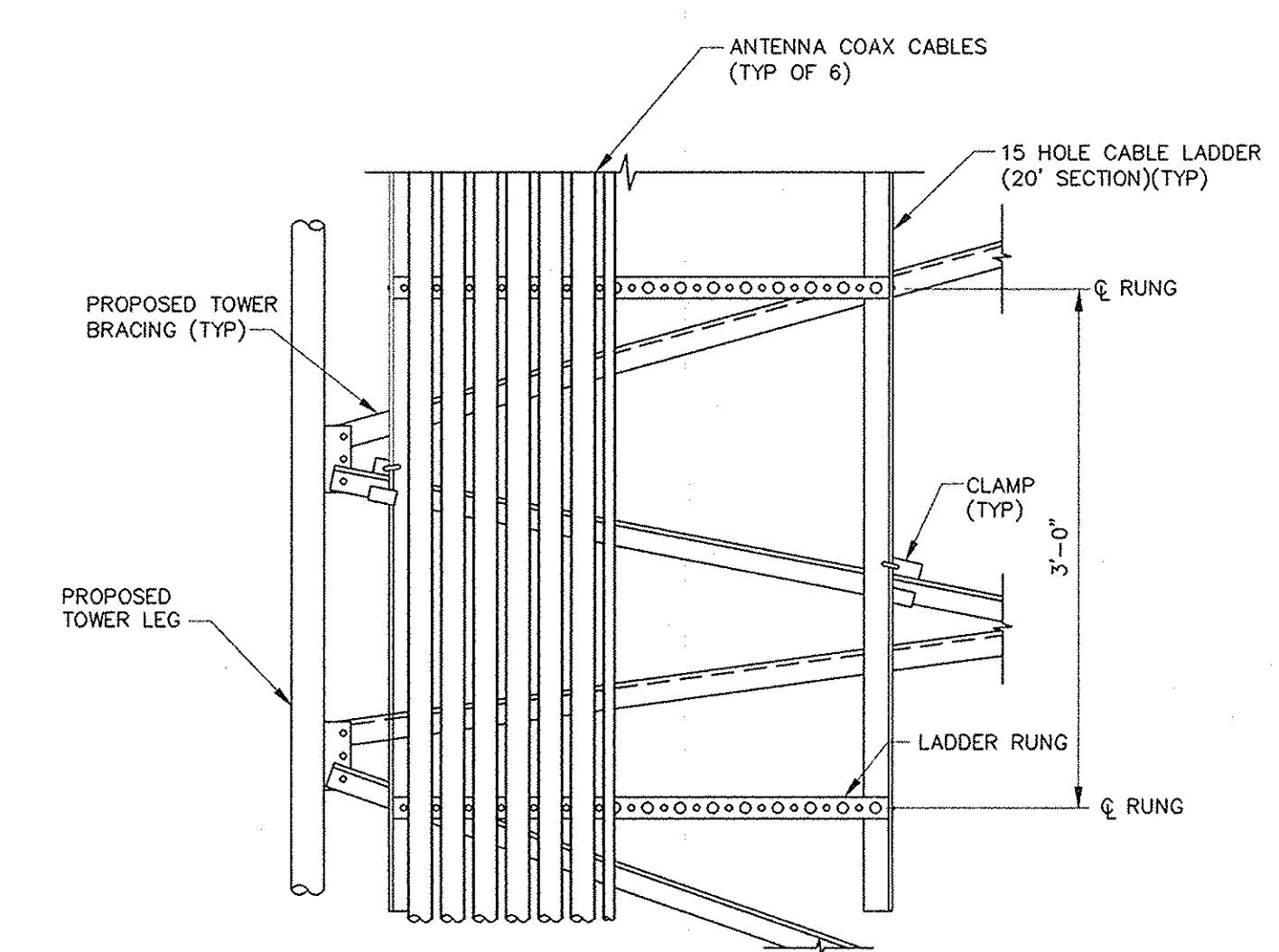
3 CABLE BRIDGE  
Z-4 SCALE: 3/4" = 1'-0"



4 FENCE DETAIL  
Z-4 SCALE: 1/2" = 1'-0"



SECTION A-A



7 CABLE LADDER  
Z-4 SCALE: NTS

**essex county NY**

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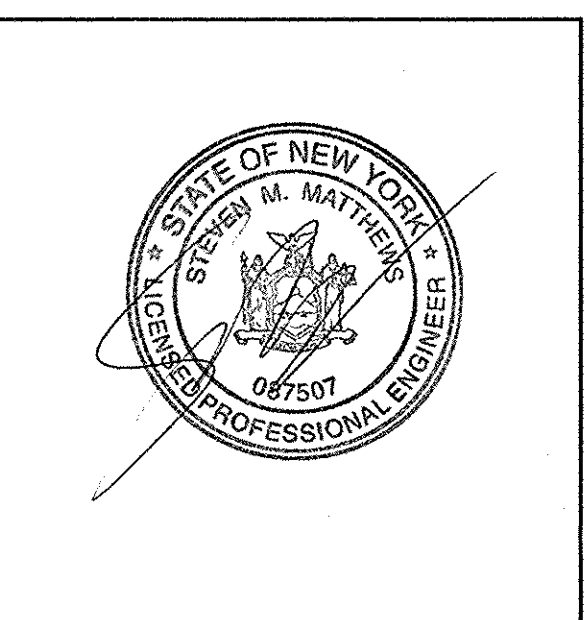
**DESIGN APPROVAL**

PRELIMINARY/CONSTRUCTION	
RF ENG.	DATE:
EQPT. ENG.	DATE:
OPERATIONS	DATE:
CONST. MGR.	DATE:
NETWORK ENG.	DATE:
REAL ESTATE	DATE:

**WORK ORDER NUMBER** 5932.10 **DRAWN BY** XXX

NO.	DATE	ISSUE
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**RELEASED BY** **DATE**



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0 1 2 3  
ORIGINAL SIZE IN INCHES

**SITE INFORMATION**

WELLS HILL  
189 SEVENTY LANE  
TOWN OF LEWIS  
ESSEX COUNTY  
NY 12950

**SHEET TITLE**

SHELTER ELEVATIONS  
& DETAILS

**SHEET NUMBER**

**Z-4**

## **Attachment G – Mount Pisgah Access and Site Plan**

The file containing Mount Pisgah access details and proposed site plan, *Attachment G – Mount Pisgah Access and Site Plan.pdf*, is provided electronically as Attachment G of this RFP.

## **Attachment G – Mount Pisgah Access and Site Plan**

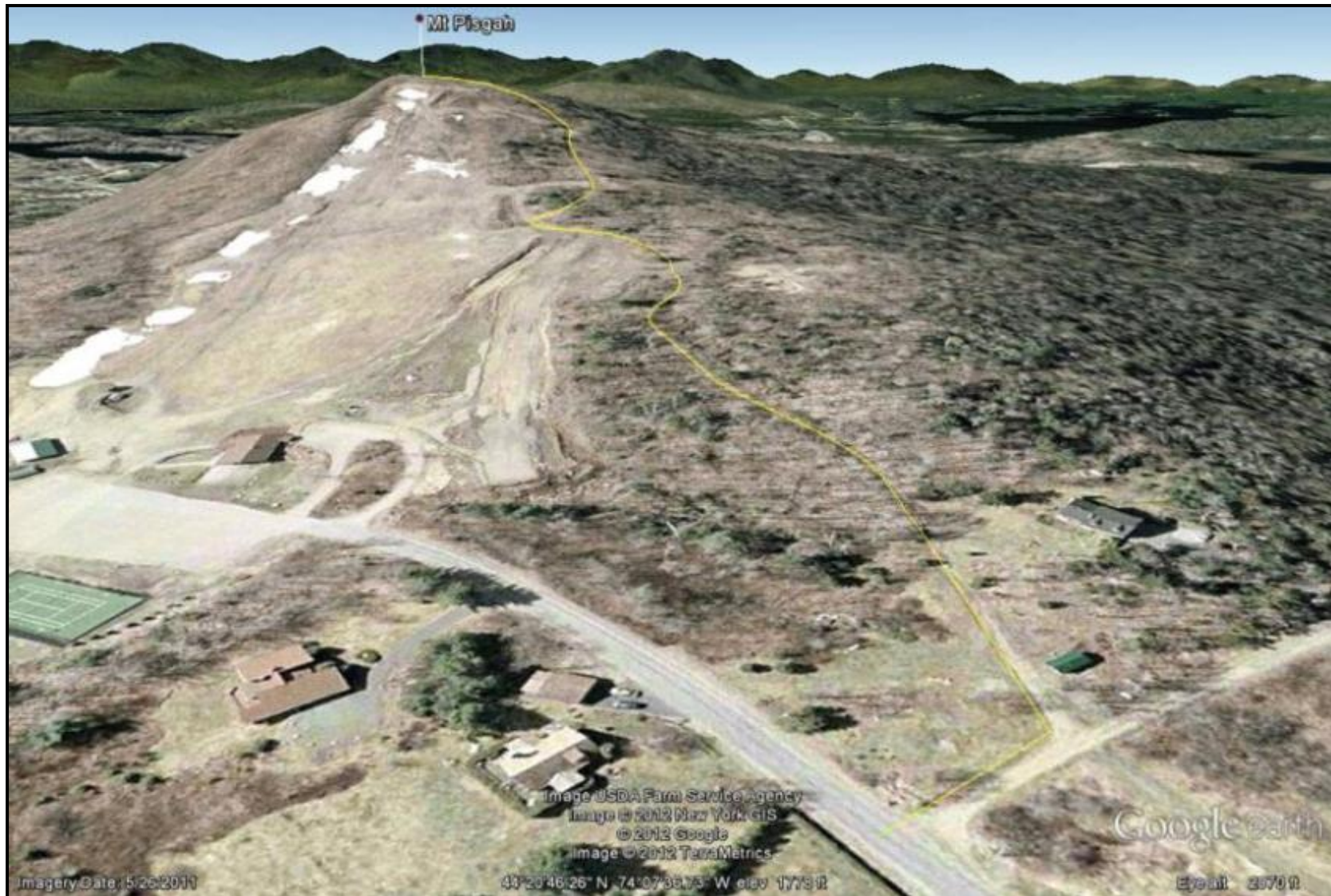
For clarity, review *Attachment F – Shelter RFP Preliminary ZDs.pdf* prior to reading this attachment.

### **G.1 – Site Access**

Access to the Mount Pisgah site is through a wooded trail approximately .54 mile long beginning at the intersection of Mount Pisgah Road and Vista Drive as depicted in Figure G.1.

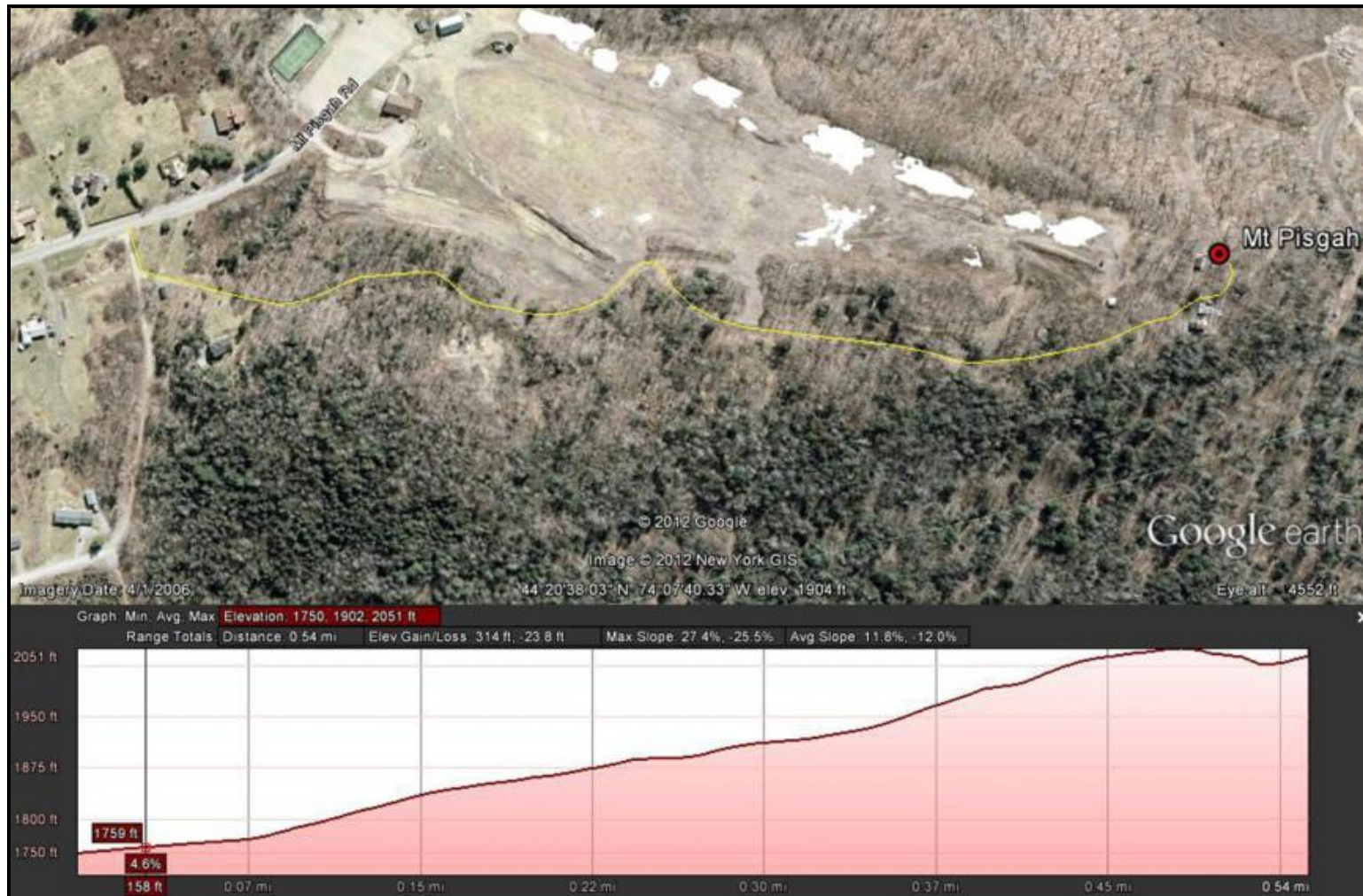
The trail is described as unimproved “jeep trail” and is commonly accessed by service technicians using a standard 4x4 vehicle. To transport heavy equipment (i.e., equipment shelters, cranes, etc.), a “trail crawler” and/or a heavy-duty 4x4 vehicle may be required.





**Figure G.1 – Wooded Trail**

Figure G.2 provides another view of the wooded trail and indicates the trail grade. Note that trees and a tree canopy flank the trail.



**Figure G.2 – Wooded Trail and Grade**



## **G.2 – Site Plan**

This section provides VENDORS with additional details on the proposed equipment shelter location for the purpose of determining whether a prefabricated or panel-built (i.e., erect onsite) shelter should be proposed along with providing a fixed-priced cost estimate for delivering, offloading, placing, and affixing the shelter and associated components on the concrete foundation (pad).

***The County desires to position the Mount Pisgah equipment shelter at the location depicted as “Option 1” on the preliminary zoning drawing. It is possible to temporarily disconnect the tower guy wire extending over this location as displayed in the preliminary zoning drawing.***

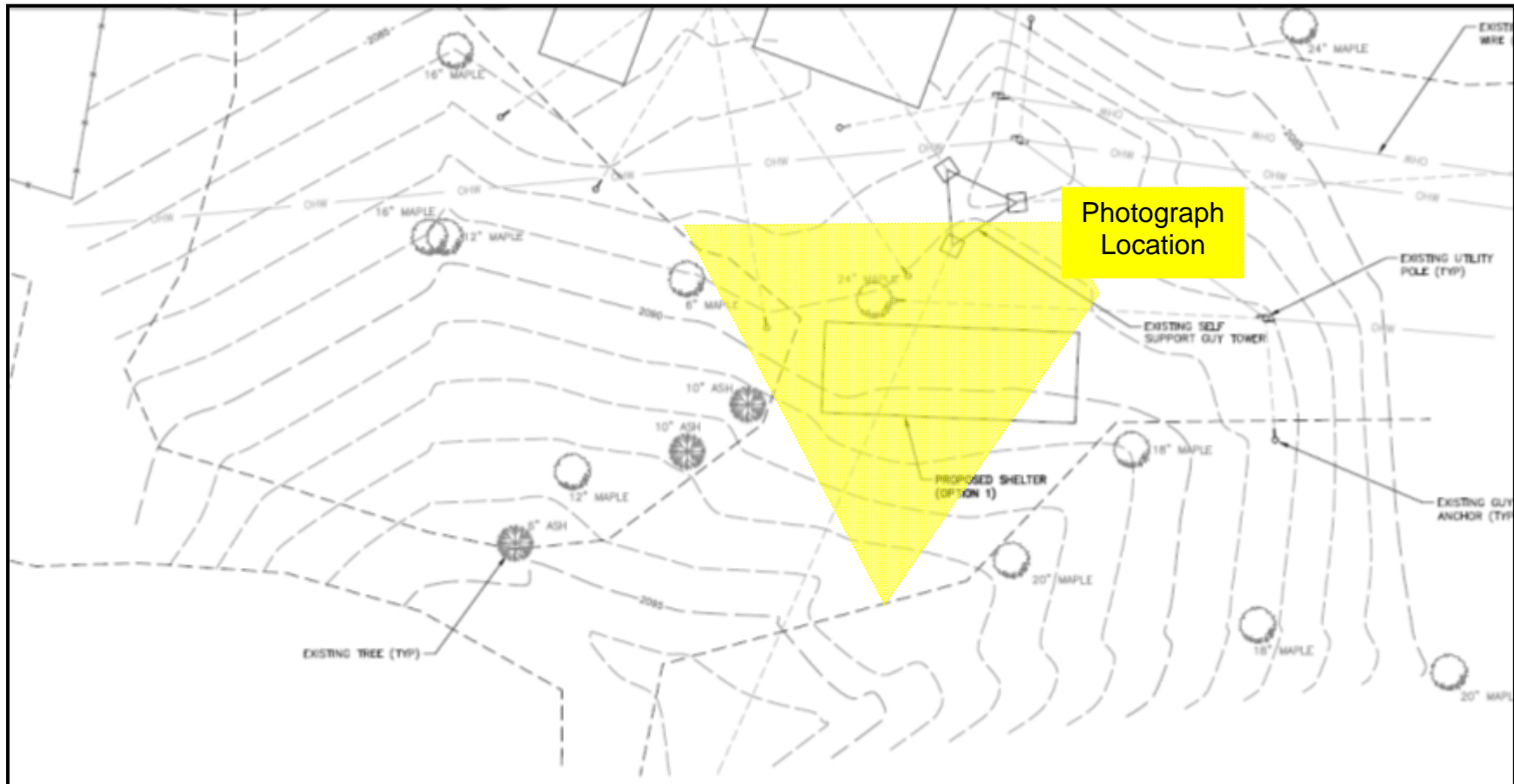
Figure G.3 provides a photograph and marking of the Option 1 equipment shelter location. The dotted yellow lines roughly indicate an outline of the proposed equipment shelter footprint (not to scale), located just beyond the maple tree at which the guy wires for the utility lines appears to converge.

Depending on the VENDOR's proposed equipment shelter (i.e., prefabricated or panel-built (erect onsite)), offloading, and installation requirements, the County may consider clearing, grubbing, and upgrading the access way that appears towards the evergreen tree in the background.



**Figure G.3 – Option 1 Location**

The site plan in Figure G.4 (from *Attachment F – Preliminary Zoning Drawings.pdf*) identifies the approximate photograph location of Figure G.3.



**Figure G.4 – Option 1 Zoning Drawing Photograph Location (A)**

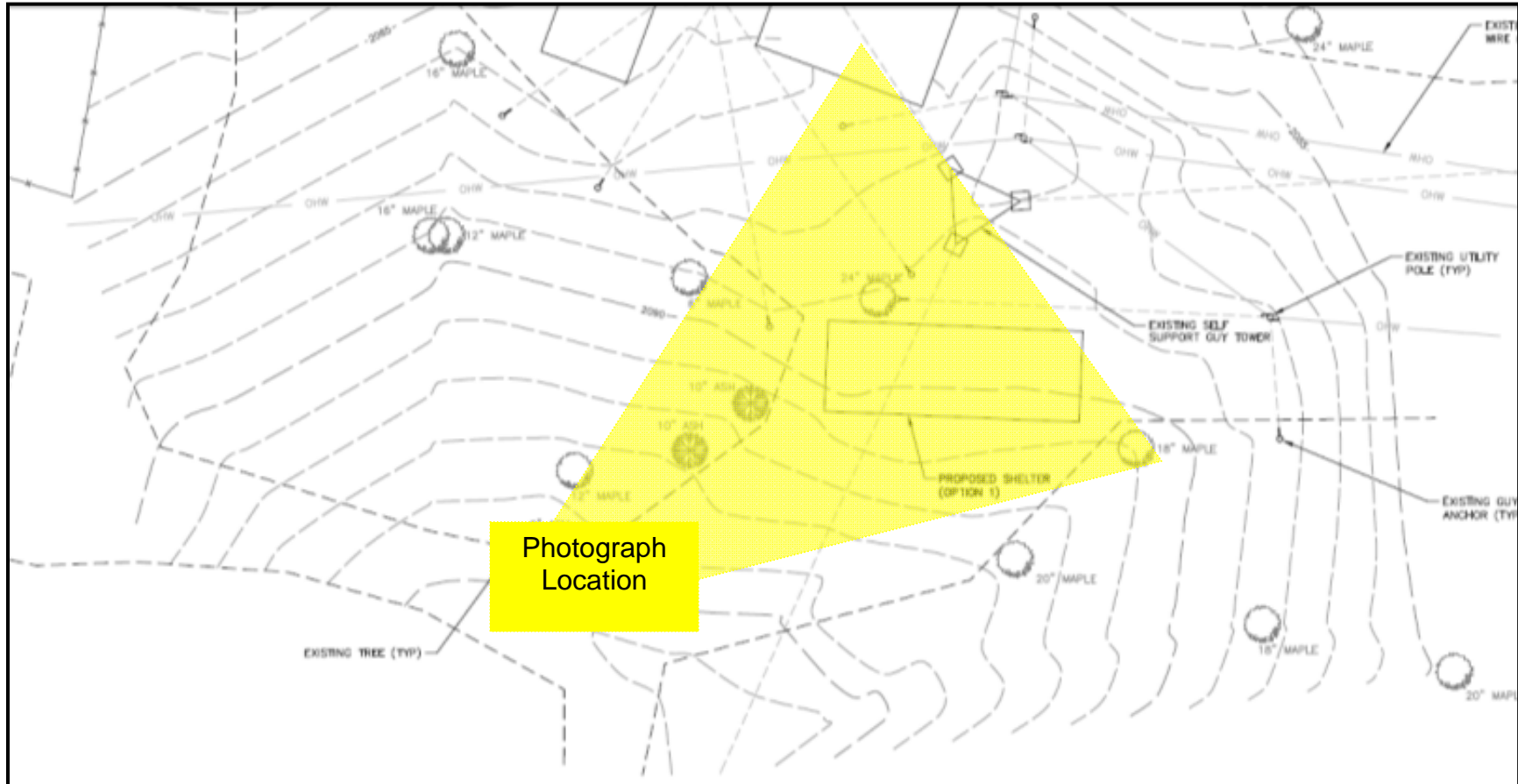


Figure G.5 provides a photograph and marking of the Option 1 equipment shelter location from the opposite side. This photograph is taken in front of the evergreen tree in the location where the County may consider clearing, grubbing, and upgrading the access way to allow for equipment shelter delivery, offloading, and installation.



**Figure G.5 – Option 1 Location From Behind**

The site plan in Figure G.6 (from *Attachment F – Preliminary Zoning Drawings.pdf*) identifies the approximate photograph location of Figure G.5.



**Figure G.6 – Option 1 Zoning Drawing Photograph Location (B)**



Figure G.7 provides a photograph of the access way leading to the Option 1 location from the “jeep trail” and main wooded access trail. The photograph was taken at approximately the same location as Figure G.5, however panned approximately 90 degrees.

Depending on the VENDOR’s proposed requirements, the County may consider clearing, grubbing, and upgrading this access way to allow for equipment shelter delivery, offloading, and installation.



**Figure G.7 – Access Way Leading to the Option 1 Location (A)**



Figure G.8 provides a photograph of the access way behind the existing cellular tower compound leading back to the “jeep trail” and main wooded access trail.



**Figure G.8 – Access Way Leading to the Option 1 Location (B)**

## **Attachment H – County Terms and Conditions**



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## *EVALUATION PROCEDURES*

---

### A. Review of Proposals

The Selection Committee will review qualifications of the proposals. Firms with unacceptably low technical qualifications will be eliminated from further consideration.

After the qualifications for each firm has been established, the dollar cost bid will be examined.

The County reserves the rights to retain all proposals submitted and use any idea in a proposal regardless of whether that proposal is selected.

### B. Evaluation Criteria

Proposals will be evaluated using three sets of criteria. Firms meeting the mandatory criteria will have their proposals evaluated and scored for both technical qualifications and price. The following represent the principal selection criteria that will be considered during the evaluation process.

#### 1. **Mandatory Elements**

- a. The firm has no conflict of interest with regard to any other work performed by the firm for the County.
- b. The firm adheres to the instructions in this request for proposal on preparing and submitting the proposal.
- c. Financial Viability.

#### 2. **Technical Quality (Maximum Points – 80)**

Expertise and Experience (maximum points – 80)

- (i) The proposer's past experience and performance on comparable local governmental engagements.
- (ii) The work plan including timing of deliverables.
- (iii) Vendor performance guarantees.
- (iv) Warranty.
- (v) Compliance with attached matrix.

#### 3. **Price (Maximum Points – 20)**

Cost will not be the primary factor in the selection of a firm. The proposed price will be graded based upon the following formula:

Average Bid/Your Bid = X (whereby X can not exceed 100%)

$X * 20 \text{ points} = \text{Points awarded based on cost}$

C. Oral Presentations

During the evaluation process, the Selection Committee at their discretion may request any one or all firms to make oral presentations. Such presentations will provide firms with an opportunity to answer any questions that the Committee may have on a firm's proposal. Not all firms may be asked to make such oral presentations.

A. Right to Reject Proposals

Submission of a Proposal indicates acceptance by the firm of the conditions contained in this request for proposal unless clearly and specifically noted in the proposal submitted and confirmed in the contract between the County and the firm selected. The County reserves the right without prejudice to reject any or all proposals.

## **EXHIBIT C**

### **INSURANCE REQUIREMENTS - SERVICE PROVIDERS**

I. The Contractor shall procure and maintain during the entire term of the contract the following required insurance:

- ➔ **Commercial General Liability Insurance**  
\$1,000,000 per occurrence/ \$2,000,000 aggregate.
- ➔ **Excess/Umbrella Liability Insurance**  
\$1,000,000 per occurrence / \$2,000,000 aggregate.
- ➔ **Workers' Compensation**  
Statutory Workers' Compensation and Employers' Liability Insurance for all employees, *except that in the event the Contractor has no employees and is exempt by law from having such insurance coverage the Contractor may provide an exemption statement.*

II. Notwithstanding any terms, conditions or provisions, in any other writing between the parties, the Contractor hereby agrees (except as to workers' compensation insurance coverage) to either effectuate:

- (a) the naming of the County as an "additional insured as funding source for contract services" on the contractor's insurance policies, or
- (b) the inclusion of a contractual liability endorsement covering the Contractor's contract with the County.

III. The policy/policies of insurance furnished by the Contractor shall:

- ➔ be from an A.M. Best rated "A" New York State licensed insurer; and
- ➔ contain a 30-day notice of cancellation

IV. The Contractor agrees to indemnify the County for any applicable deductibles.

V. Contractor acknowledges that failure to obtain such insurance on behalf of the County constitutes a material breach of contract and subjects it to liability for damages, indemnification and all other legal remedies available to the County. Prior to commencement of work or use of facilities, the Contractor shall provide to the County proof that such requirements have been met by furnishing certificate(s) of such insurance, and the declarations pages from the policies of such insurance. The failure of the County to object to the contents of the certificate(s) and/or declarations pages, or the absence of same, shall not be deemed a waiver of any and all rights held by the County.

VI. All certificates of insurance will provide 30 days notice to the county of cancellation or non-renewal.

VII. Contractor and subcontractor waives all rights of subrogation against the owner and will have the General Liability, Umbrella Liability Workers' Compensation policies endorsed setting forth this Waiver of Subrogation.

VIII. All policies will also contain no exclusions with respect to Section 240 and 241 of the NYS Labor Law.

IX. The County shall be listed as an additional insured on a primary and non-contributory basis.

## **APPENDIX D - STANDARD CLAUSES FOR ESSEX COUNTY CONTRACTS**

### **1. Independent Contractor Status**

The parties each acknowledge, covenant and agree that the relationship of the Contractor to the County shall be that of an independent contractor. The Contractor, in accordance with its status as an independent contractor, further covenants and agrees that it:

- (a) will conduct itself in accordance with its status as an independent contractor;
- (b) will neither hold itself out as nor claim to be an officer or employee of the County; and
- (c) will not make any claim, demand or application for any right or privilege applicable to an officer or employee of the County, including but not limited to workers' compensation benefits, unemployment insurance benefits, social security coverage or retirement membership or credits.

### **2. Contractor To Comply With Laws/Regulations**

The Contractor shall at all times comply with all applicable state and federal laws, rules and regulations governing the performance and rendition of the services to be furnished under this agreement.

### **3. Licenses, Permits, Etc.**

The Contractor shall, during the term of this agreement, obtain and keep in full force and effect any and all licenses, permits and certificates required by any governmental authority having jurisdiction over the rendition and performance of the services to be furnished by the Contractor under this agreement.

### **4. Termination**

This agreement may be terminated without cause by either party upon 30 days prior written notice, and upon such termination neither party shall have any claim or cause of action against the other except for services actually performed and mileage expenses actually incurred prior to such termination. Notwithstanding the foregoing, this agreement may be immediately terminated by the County:

- (a) for the Contractor's breach of this agreement, by serving written notice of such termination stating the nature of the breach upon the Contractor by personal delivery or by certified mail, return receipt requested, and upon such termination either party shall have such rights and remedies against the other as provided by law; or
- (b) upon the reduction or discontinuance of funding by the State or Federal governments to be used in furnishing some or all of the work, labor and/or services provided for under this agreement, and upon such termination neither party shall have any claim or cause of action against the other except for services actually performed and expenses (if the same are to be paid under this agreement) actually incurred prior to such termination.

### **5. Defense & Indemnification**

The Contractor shall defend, indemnify and hold harmless the County to the fullest extent allowed by law, and notwithstanding any insurance requirements, from and against any and all liability, losses, claims, actions, demands, damages, expenses, suits, judgments, orders, causes of action and claims, including but not limited to attorney's fees and all other costs of defense, by reason of any liability whatsoever imposed by law or otherwise upon the County for damages to person, property or of any other kind in nature, including but not limited to those for bodily injury, property damage, death arising out of or in connection with its officers, employees, agents, contractors, sub-contractors, guests or invitees negligence or

its/their performance or failure to perform this agreement.

6. **Discrimination Prohibited**

The services to be furnished and rendered under this agreement by the Contractor shall be available to any and all residents of Essex County without regard to race, color, creed, sex, religion, national or ethnic origin, handicap, or source of payment; and under no circumstances shall a resident's financial ability to pay for the services provided be considered unless such consideration is allowed by State and/or Federal law, rule or regulation.

7. **Non-Discrimination In Employment**

The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, sex, national origin, age, disability or marital status. In the event that this is a contract to be performed in whole or in part within the State of New York for (a) the construction, alteration or repair of any public building or public work, (b) for the manufacture, sale or distribution of materials, equipment or supplies, (c) for building service, the Contractor agrees that neither it nor its subcontractors shall, by reason of race, creed, color, disability, sex or national origin:

- (1) discriminate in hiring against any citizen who is qualified and available to perform the work; or
- (2) discriminate against or intimidate any employee hired for the performance of work under this contract.

The Contractor agrees to be subject to fines of \$50.00 per person per day for any violation of this paragraph, as well as to possible termination of this contract or forfeiture of all moneys due hereunder for a second or subsequent violation.

8. **Damage/Injury To Persons & Property**

The Contractor shall promptly advise the County of all damages to property of the County or of others, or of injuries incurred by persons other than employees of the Contractor, in any manner relating, either directly or indirectly, to the performance of this agreement.

9. **Records**

The Contractor shall establish and maintain complete and accurate books, records, documents, accounts and other evidence directly pertinent to performance under this contract (hereinafter collectively "the Records") in accordance with the following requirements:

- (a) the Records must be kept for the balance of the calendar year in which they were made and for six (6) additional years thereafter;
- (b) the County Auditor, State Comptroller, the Attorney General or any other person or entity authorized to conduct an examination, as well as the agency or agencies involved in this contract, shall have access to the Records during normal business hours at an office of the Contractor within the State of New York, or, if no such office is available, at a mutually agreeable and reasonable venue within the State, for the term specified above for the purposes of inspection, auditing and copying.

The County shall take reasonable steps to protect from public disclosure any of the records which are exempt from disclosure under Section 87 of the Public Officers Law (the "Statute") provided that: (i) the Contractor shall timely inform an appropriate County official, in writing, that said records should not be disclosed; and (ii) said records shall be sufficiently identified and designation of said records as exempt under the statute is reasonable. Nothing

contained herein shall diminish, or in any way adversely affect, the County's right to discovery in any pending or future litigation.

10. **Claims For Payment**

All invoices or claims for which payment is sought from the County must be submitted in accordance with the following:

- (a) each claim for payment must include
  - (1) an invoice detailing the claim,
  - (2) copies of all documentation supporting the claim,
  - (3) a properly completed County standard voucher, which includes
    - (i) the County contract number under which payment is being claimed, **AND**
    - (ii) the payee's Federal employer identification number or Federal social security number, or both such numbers when the payee has both such numbers. *[Failure to include this number or numbers will prevent and preclude payment by the County; except that where the payee does not have such number or numbers, the payee, on the invoice or County voucher, must give the reason or reasons why the payee does not have such number or numbers and such reasons constitute a valid excuse under law.]*
- (b) Unless otherwise provided in this agreement, each claim for payment must be submitted to the County no later than 30 days after the work, labor, materials, and/or services for which payment is claimed were rendered or furnished.
- (c) Notwithstanding any other provision of this agreement, no claim for payment shall be valid, and the County shall not be liable for payment thereof, unless it is submitted to the County within 30 days of the close of the calendar year in which the work, labor, materials, and/or services for which payment is claimed were rendered or furnished.
- (d) Unless otherwise provided in this agreement, the requirements of this paragraph 10, and/or of any other provisions of this agreement which supersede the same, shall constitute conditions precedent to the County's payment obligation, and failure to comply with any or all of said requirements shall entitle the County to deny payment.
- (e) As a further condition of payment, each claim of payment shall be accompanied by a Contractor and Sub-Contractor Progress Payment Waiver, Release and Discharge, and each Final Payment shall be accompanied by a Contractor and Sub-Contractor Final Payment, Waiver and Release form. As well as a Contractor Affidavit relative to Final Payment. Copies of these forms are attached and made a part hereof.

11. **Consent**

In the event that State or Federal law requires the recipient of services to be furnished and rendered under this agreement to give his/her prior consent thereto, the contractor shall obtain such person's consent and furnish proof thereof to the County.

12. **Executory Clause**

The County shall have no liability under this contract to the Contractor or to anyone else beyond the funds appropriated and available for this contract.

13. **Public Work & Building Service Contract Requirements**

If this is a public work contract covered by Article 8 of the Labor Law or a building service contract covered by Article 9 thereof:

- (a) neither the Contractor's employees nor the employees of its subcontractors may be required or permitted to work more than the number of hours or days stated in said

statutes, except as otherwise provided in the Labor Law and as set forth in prevailing wage and supplement schedules issued by the State Labor Department; and

- (b) the Contractor and its subcontractors must pay at least the prevailing wage rate and pay or provide the prevailing supplements, including the premium rates for overtime pay, as determined by the State Labor Department in accordance with the Labor Law.

14. **Public Work Contracts – Hazardous Substances**

If this is a contract for public work, the Contractor agrees as follows:

- (a) the Contractor acknowledges that the County uses and/or produces various substances which may be classified as hazardous under OSHA's Hazard Communication Standard;
- (b) the Contractor recognizes the use of said substances by the County and acknowledges that the County has provided, or upon request will provide, the Contractor with a description of such substances which may be present in the area of the County's facility/facilities to which the Contractor may have accessed during the performance of this contract;
- (c) the Contractor acknowledges that the County has provided, or upon request will provide, suggestions for appropriate protective measures which should be observed when the Contractor is in the area of any such hazardous substances;
- (d) the Contractor agrees to be solely responsible for providing training and information to its employees regarding any such hazardous substances, as well as of any protective measures suggested by the County;
- (e) the Contractor agrees to be solely responsible to ensure that the Contractor's employees observe protective measures during the performance of their duties in the performance of the contract, and that all such protective measures will be at least as stringent as those suggested or which would have been suggested by the County;
- (f) in the event that the Contractor's performance of the work under this contract requires the use of any hazardous substances, the Contractor shall notify the County in advance of bringing in and/or using such substances in or upon County property and suggest to the County appropriate measures to be observed by the County, its officers and employees, and/or the public; and
- (g) in the event the Contractor fails in whole or in part to comply with the terms of this paragraph, the County shall have the right to interrupt the Contractor's work and/or terminate this contract, and the Contractor shall be prohibited from renewing such work until all applicable safety and health procedures and practices are implemented by the Contractor.

15. **Disputes**

Disputes involving this contract, including the breach or alleged breach thereof, may not be submitted to binding arbitration, but must, instead, be heard in a court of competent jurisdiction within the State of New York.

16. **Non-Assignment**

This agreement may not be assigned, subcontracted, transferred, conveyed, sublet or otherwise disposed of in whole or in part, by the Contractor, without the prior written consent of the County, and any attempts to assign the contract without the County's written consent are null and void.

17. **No Collusion**

If this contract was awarded based upon the submission of bids, the Contractor

warrants, under penalty of perjury, that:

- (a) its bid was arrived at independently and without collusion aimed at restricting competition; and
- (b) at the time Contractor submitted its bid, an authorized and responsible person executed and delivered to the County a non-collusive bidding certification on Contractor's behalf.

18. **International Boycott**

In accordance with Section 220-f of the Labor Law, if this contract exceeds \$5,000.00, the Contractor agrees, as a material condition of the contract, that neither the Contractor nor any substantially owned or affiliated person, firm, partnership or corporation, has participated, is participating, or shall participate in an International boycott in violation of the federal Export Administration Act of 1979, or regulations thereunder. If such contractor, or any of the aforesaid affiliates of Contractor, is convicted, or is otherwise found to have violated said laws or regulations upon the final determination of the United States Commerce Department or any other appropriate agency of the United States subsequent to the contract's execution, such contract, amendment or modification thereto shall be rendered forfeit and void. The Contractor shall so notify the County Manager within five (5) business days of such conviction, determination or disposition of appeal.

19. **County's Rights of Set-Off**

The County shall have all of its common law, equitable and statutory rights of set-off. These rights shall include, but not be limited to, the County's option to withhold for the purposes of set-off any moneys due to the Contractor under this agreement up to any amounts due and owing to the County with regard to this contract, any other contract with any County department or agency, including any contract for a term commencing prior to the term of this contract, plus any amounts due and owing to the County for any other reason, including, without limitation, tax delinquencies, fee delinquencies or monetary penalties relative thereto. The County shall exercise its set-off rights in accordance with normal County practices, including, in cases of set-off pursuant to an audit, the acceptance of such audit by the County Board of Supervisors or its designated representative.

20. **Contractor Defined**

Whenever the term "Contractor" is used in this agreement, such term shall include and apply to all employees, all officers, directors and agents, if any, of the Contractor.

21. **Amendment**

This agreement may not be amended, modified or renewed except by written agreement signed by the Contractor and the County.

22. **Ownership Of Work Products**

All final and written or tangible work products completed by the Contractor shall belong to the County. In the event of premature discontinuance of performance, the Contractor agrees to deliver all existing products and data files to the County.

23. **Executive Order Debarment/Suspension**

In the event that this contract involves the Contractor furnishing goods and services in excess of \$100,000.00, or constitutes a subaward to subrecipients, under any Federal program, grant or other funding source, then by executing this agreement the Contractor certifies that neither it nor any of its principals are suspended or debarred within the scope or



meaning of Executive Orders 12549 and 12689, any Federal or State regulation implementing or codifying the same, or any other Federal or State law, rule or regulation.

24. **Health Insurance Portability and Accountability Act of 1996 (HIPAA)**

In the event that this contract involves the use or disclosure of protected health information within the meaning or application of the Health Insurance Portability and Accountability Act of 1996 (HIPAA), and the regulations thereunder, the following provisions of this paragraph shall apply.

- (a) **Definitions.** The terms used, but not otherwise defined, in this Agreement shall have the same meaning as given such terms in 45 CFR §160.103 and §164.501, as the same may be amended from time to time, including but not limited to the following.
- (1) "Business Associate" shall mean the Contractor, its officers, employees, agents and subcontractors.
  - (2) "Covered Entity" shall mean Essex County (the "County"), its departments, agencies, officers and employees.
  - (3) "Individual" shall have the same meaning as given such term in 45 CFR §164.501 and shall also include a person who qualifies as a personal representative in accordance with 45 CFR §164.502(g).
  - (4) "Privacy Rule" shall mean the Standards for Privacy of Individually Identifiable Health Information at 45 CFR Part 160 and Part 164, subparts A and E.
  - (5) "Protected Health Information" shall have the same meaning as given such term in 45 CFR §164.501, limited to the information created or received by Contractor from or on behalf of the County.
  - (6) "Required by law" shall have the same meaning as given such term in 45 CFR §164.501.
  - (7) "Secretary" shall mean the Secretary of the Department of Health and Human Services or his/her designee.
- (b) **Obligations and Activities of Contractor.** Contractor agrees to:
- (1) not use or disclose Protected Health Information other than as permitted or required by this Agreement or as required by law;
  - (2) use appropriate safeguards to prevent use or disclosure of the Protected Health Information other than as provided for by this Agreement;
  - (3) mitigate, to the extent practicable, any harmful effect that is known, should have been known, and/or discovered to/by Contractor of a use or disclosure of Protected Health Information by Contractor in violation of the requirements of this Agreement;
  - (4) report to the County any use or disclosure of the Protected Health Information not provided for by this Agreement of which it becomes aware;
  - (5) ensure that any agent, including a subcontractor, to whom it provides Protected Health Information received from, or created or received by Contractor on behalf of the County agrees to the same restrictions and conditions that apply through this Agreement to Contractor with respect to such information;
  - (6) provide access, at the request of the County, and in the time and manner designated by the County or the Secretary, to Protected Health Information in a Designated Record Set, to the County or, as directed by the County, to an Individual in order to meet the requirements under 45 CFR §164.524;
  - (7) make any amendment(s) to Protected Health Information in a Designated Record

Set that the County directs or agrees to pursuant to 45 CFR §164.526 at the request of the County or an Individual, and in the time and manner designated by the County or the Secretary;

(8) make internal practices, books, and records, including policies and procedures and Protected Health Information, relating to the use and disclosure of Protected Health Information received from, or created or received by Contractor on behalf of, the County available to the County, and/or to the Secretary, in a time and manner designated by the County or by the Secretary, for purposes of the Secretary determining the County's compliance with the Privacy Rule;

(9) document such disclosures of Protected Health Information and information related to such disclosures as would be required for the County to respond to a request by an Individual for an accounting of disclosures of Protected Health Information in accordance with 45 CFR §164.528;

(10) provide to the County or an Individual, in time and manner designated by the County or the Secretary, information collected in accordance with the above subparagraph (b)(9) of this Agreement, to permit the County to respond to a request by an Individual for an accounting of disclosures of Protected Health Information in accordance with 45 CFR §164.528.

(c) Permitted Uses and Disclosures by Contractor.

Except as otherwise limited in this Agreement, Contractor may use or disclose Protected Health Information on behalf of, or to provide services to, the persons entitled to services under this Agreement:

(1) solely for the purposes of performing Contractor's obligations under this Agreement, if such use or disclosure of Protected Health Information would not violate the Privacy Rule if done by the County or the minimum necessary policies and procedures of the County; or

(2) provided that such use or disclosures are required by law; or

(3) Contractor

(A) obtains written authorization(s) from the individual to which the information pertains permitting the specific uses or disclosures of such information to third persons,

(B) represents and agrees in writing with such individual that the information to be used and/or disclosed will remain confidential and used or further disclosed only as required by law or for the purposes specified in the written authorization(s), and

(C) such third persons agree in writing to notify the County as soon as practicable and in writing of any instances of which such third person(s) is/are aware in which the confidentiality of the information has been breached; or

(4) provide Data Aggregation services to the County as permitted by 42 CFR §164.504(e)(2)(i)(B); or

(5) report violations of law to appropriate Federal and State authorities, consistent with §164.502(j)(1).

(d) County To Inform Contractor of Privacy Practices and Restrictions.

The County agrees to notify the Contractor of any

(1) limitation(s) in its notice of privacy practices of the County in accordance with 45 CFR §164.520, to the extent that such limitation may affect the Contractor's use or disclosure of Protected Health Information;

- (2) changes in, or revocation of, permission by Individual to use or disclose Protected Health Information, to the extent that such changes may affect the Contractor's use or disclosure of Protected Health Information; and/or
- (3) restriction to the use or disclosure of Protected Health Information that the County has agreed to in accordance with 45 CFR §164.522, to the extent that such restriction may affect Contractor's use or disclosure of Protected Health Information.

(e) Permissible Requests by County.

The County shall not request Contractor to use or disclose Protected Health Information in any manner that would not be permissible under the Privacy Rule if done by the County; except that in the event that the services to be furnished by the Contractor under this Agreement requires data aggregation by the Contractor, the Contractor may use or disclose protected health information for such data aggregation or management and administrative activities of Contractor.

(f) Survival of Provisions.

The obligations of the Contractor under this paragraph 24 shall survive the expiration of the term of this Agreement and/or the termination of this Agreement, and said obligations shall remain effective and shall not terminate until all of the Protected Health Information provided by the County to Contractor, or created or received by Contractor on behalf of the County, is destroyed or returned to the County, or, if it is infeasible to return or destroy Protected Health Information, protections are extended to such information, in accordance with the termination provisions in subparagraph (g) below.

(g) Return or Destruction of Protected Health Information.

Except as otherwise provided below, upon termination of this Agreement for any reason, Contractor shall return or destroy all Protected Health Information received from the County, or created or received by Contractor on behalf of the County. This provision shall apply to Protected Health Information that is in the possession of subcontractors or agents of Contractor. Contractor shall retain no copies of the Protected Health Information.

In the event that Contractor determines that returning or destroying the Protected Health Information is infeasible, Contractor shall provide to the County notification of the conditions that make return or destruction infeasible. Upon determination by the County that return or destruction of Protected Health Information is infeasible, Contractor shall extend the protections of this Agreement to such Protected Health Information and limit further uses and disclosures of such Protected Health Information to those purposes that make the return or destruction infeasible, for so long as Contractor maintains such Protected Health Information.

(h) Termination for Cause.

Upon the County's knowledge of a material breach of this paragraph by Contractor, the County shall:

- (1) either:
  - (A) provide an opportunity for Contractor to cure the breach or end the violation and terminate this Agreement within the time specified by the County, or
  - (B) immediately terminate this Agreement if cure is not possible; and
- (2) report the violation to the Secretary.

(i) Miscellaneous.

- (1) Regulatory References. A reference in this Agreement to a section in the Privacy

Rule means the section as in effect or as amended.

(2) Amendment. The Parties agree to take such action as is necessary to amend this Agreement from time to time as is necessary for the County to comply with the requirements of the Privacy Rule and the Health Insurance Portability and Accountability Act of 1996, Pub. L. No. 104-191.

(3) Survival. The respective rights and obligations of Contractor under this paragraph 24 of this Agreement shall survive the termination of this Agreement.

(4) Interpretation. Any ambiguity in this Agreement shall be resolved to permit the County to comply with the Privacy Rule.

25. **Severability**

If any term or provision of this agreement or the application thereof to any person or circumstance shall to any extent be held invalid or unenforceable, the remainder of this agreement or the application of such term or provision to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected thereby and every other term and provision of this agreement shall be valid and be enforced to the fullest extent permitted by law.

26. **Entire Agreement**

This agreement is the entire agreement between the parties, and the same shall be construed in accordance with the laws of the State of New York.

27. **For Medicaid/Federal Health Care Related Work**

**Excluded/Debarred Party Clause**

The Vendor/Contractor represents and warrants that it, nor its employees or contractors, are not excluded from participation, and is not otherwise ineligible to participate, in a "federal health care program" as defined in 42 U.S.C. § 1320a-7b(f) or in any other government payment program.

In the event Vendor/Contractor, or one of its employees or contractors, is excluded from participation, or becomes otherwise ineligible to participate in any such program during the Term, Vendor/Contractor will notify Essex County in writing within three (3) days after such event. Upon the occurrence of such event, whether or not such notice is given to the Vendor/Contractor, Essex County reserves the right to immediately cease contracting with the Vendor/Contractor.

If Vendor/Contractor is an Employment Agency, the Vendor/Contractor represents and warrants that its employees and contractors are not excluded from participation in a "federal health care program" as defined in 42 U.S.C. § 1320a-7b(f) or debarred from participation in any federal or other program.

The Vendor/Contractor further represents and warrants it will, at a minimum, check monthly all of its employees and subcontractors against:

The General Services Administration's Federal Excluded Party List System (or any successor system,

The United States Department of Health and Human Services's Office of the Inspector General's Lists of Excluded Individuals and Entities or any successor list,

The New York State Department of Health's Office of the Medicaid Inspector General's

list of Restricted, Terminated or Excluded Individuals or Entities.

In the event an excluded party is discovered the Vendor/Contractor will notify Essex County in writing within three (3) days after such event. Upon the occurrence of such event, whether or not such notice is given to the Vendor/Contractor, Essex County reserves the right to immediately cease contracting with the Vendor/Contractor.

## CONTRACTOR PROGRESS PAYMENT WAIVER, RELEASE AND DISCHARGE

PROJECT: \_\_\_\_\_

OWNER: ESSEX COUNTY

CONTRACTOR: \_\_\_\_\_

### W I T N E S S E T H :

The above-named Contractor, hereinafter referred to as the "Releasor", does, for and on behalf of itself, its' successors, assigns and all parties claiming any interest or right through the Releasor, hereby warrant, covenant and agree as follows:

1. Releasor is/was a Contractor relative to the above-referenced Project pursuant to a contract or other relationship for the performing and/or furnishing of work, labor, services, materials and/or equipment at the Project site or to be incorporated in said Project.

2 Whenever the term "Releasor" is used in this instrument such term shall mean: (a) the above-named Contractor, its, successors and assigns; (b) any and all sureties and all other guarantors of the Releasor on any payment, performance, labor and/or material bond or other undertaking; (c) all parties claiming any interest or right through the Releasor, including but not limited to subcontractors and suppliers; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).

3. Whenever the term "Releasees" is used in this instrument such term shall mean: (a) the above-named Owner, its' successors and assigns; (b) the Project Architect/Engineer; and (c) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a) and (b).

4. For and in consideration of the sum of \$\_\_\_\_\_, and other good and valuable consideration, which sum is acknowledged as being the full and total amount due or allegedly due or owing from the Releasees to the Releasor as of the date hereof, and the receipt of such payment being hereby acknowledged, the Releasor does waive, release and discharge the Releasees from any and all causes of action, suits, debts, claims, liens, accounts, bonds, contracts, damages, encumbrances, judgments and demands whatsoever and of every kind and nature, in law or in equity, which against the Releasees, jointly and/or severally, the Releasor ever had, now has, or might hereafter have, relating directly or indirectly to the work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or incorporated or to be incorporated in said Project, as of the date hereof, including but not in any manner limited to the right of the Releasor to assert, file or claim any lien or other security interest in or upon the real and/or personal property of the Releasees.

5. The Releasor hereby agree to defend, indemnify, and hold harmless the Releasees from any and all damages, costs, expenses, demands, suits, liens and legal fees, directly or indirectly relating to any claim for compensation by any other party for work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or which should have been so furnished or performed, or incorporated or to be incorporated in said Project, as of the date hereof, by the Releasor or by any other party claiming any interest or right through the



Releasor.

6. The Releasor hereby certifies and warrants that it has fully paid for all work, labor, services, materials and/or equipment provided to it in connection with the Project and/or any contract relating thereto.

7. The Releasor hereby grants to the Releasees the right to review and audit any and books and records of the Releasor at any time for verification.

**IN WITNESS WHEREOF** this instrument has been executed this \_\_\_\_ day of \_\_\_\_  
\_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Releasor

By: \_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Title)

STATE OF NEW YORK    )  
  ) SS:  
COUNTY OF \_\_\_\_\_ )

I, \_\_\_\_\_, being duly sworn, depose and say that: I reside at \_\_\_\_\_  
\_\_\_\_\_, and I hereby sign this instrument under penalty of perjury; I am  
the of the Releasor identified herein; I am fully authorized to execute this instrument on behalf of  
the Releasor; and I hereby affirm that the statements contained in this instrument are true and  
correct.

\_\_\_\_\_  
Vendor/Releasor Agent Sign Here

Sworn to before me this \_\_\_\_  
day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public

## CONTRACTOR FINAL PAYMENT WAIVER, RELEASE AND DISCHARGE

PROJECT: \_\_\_\_\_

OWNER: \_\_\_\_\_ ESSEX COUNTY \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

### W I T N E S S E T H :

The above-named Contractor, hereinafter referred to as the "Releasor", does, for and on behalf of itself, its' successors, assigns and all parties claiming any interest or right through the Releasor, hereby warrants, covenants and agrees as follows:

1. Releasor is/was a Contractor relative to the above-referenced Project pursuant to a contract or other relationship for the performing and/or furnishing of work, labor, services, materials and/or equipment at the Project site or to be incorporated in said Project.

2 Whenever the term "Releasor" is used in this instrument such term shall mean: (a) the above-named Contractor, its, successors and assigns; (b) any and all sureties and all other guarantors of the Releasor on any payment, performance, labor and/or material bond or other undertaking; (c) all parties claiming any interest or right through the Releasor, including but not limited to subcontractors and suppliers; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).

3. Whenever the term "Releasees" is used in this instrument such term shall mean: (a) the above-named Owner, its' successors and assigns; (b) Essex County, its agencies and departments (including but not limited to its Office for the Aging); and (c) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a) and (b).

4. For and in consideration of the sum of \$\_\_\_\_\_, and other good and valuable consideration, which sum is acknowledged as being the full, final and total amount due or allegedly due or owing from the Releasees to the Releasor as of the date hereof, and the receipt of such payment being hereby acknowledged, the Releasor does waive, release and discharge the Releasees from any and all causes of action, suits, debts, claims, liens, accounts, bonds, contracts, damages, encumbrances, judgments and demands whatsoever and of every kind and nature, in law or in equity, which against the Releasees, jointly and/or severally, the Releasor ever had, now has, or might hereafter have, relating directly or indirectly to the work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or incorporated or to be incorporated in said Project, as of the date hereof, including but not in any manner limited to the right of the Releasor to assert, file or claim any lien or other security interest in or upon the real and/or personal property of the Releasees.

5. The Releasor hereby agree to defend, indemnify, and hold harmless the Releasees from any and all damages, costs, expenses, demands, suits, liens and legal fees, directly or indirectly relating to any claim for compensation by any other party for work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or which should have been so furnished or performed, or incorporated or to be incorporated in said Project, as of the date hereof, by the

Releasor or by any other party claiming any interest or right through the Releasor.

6. The Releasor hereby certifies and warrants that it has fully paid for all work, labor, services, materials and/or equipment provided to it in connection with the Project and/or any contract relating thereto.

7. The Releasor hereby grants to the Releasees the right to review and audit any and books and records of the Releasor at any time for verification.

**IN WITNESS WHEREOF** this instrument has been executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Contractor

By:\_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Title)

STATE OF NEW YORK    )  
                                  ) SS:  
COUNTY OF ESSEX     )

I, \_\_\_\_\_, being duly sworn, depose and say that: I reside at \_\_\_\_\_, \_\_\_\_\_, and I hereby sign this instrument under penalty of perjury; I am the of the Releasor identified herein; I am fully authorized to execute this instrument on behalf of the Releasor; and I hereby affirm that the statements contained in this instrument are true and correct.

\_\_\_\_\_  
Vendor/Releasor Agent Sign Here

Sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public

**CONTRACTORS AFFIDAVIT RELATIVE TO FINAL PAYMENT**

PROJECT: \_\_\_\_\_

OWNER: \_\_\_\_\_ ESSEX COUNTY \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

W I T N E S S E T H :

The herein below designated representative of the Contractor being duly sworn deposes and states:

1. He is duly authorized to sign this Affidavit on behalf of the Contractor.
2. That all payrolls, bills for materials and equipment, and other indebtedness connection with the work for which the County or the County's property might be responsible or encumbered have been paid or otherwise satisfied and there remain no further indebtedness or bills outstanding.
3. Attached hereto and made a part hereof is a valid certificate of insurance evidencing that insurance required by the contract documents will remain in full force after final payment is currently in effect and will not be cancelled or allowed to expire until at least 30 days prior written notice has been given to the owner.
4. Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the contract documents.
5. Attached hereto and made a part hereof at Schedule B is a detailed list of all sub-contractors and material suppliers.
6. Contractor warrants and represents that all sub-contractors, material suppliers and fringe benefit trust funds for employees of contractor and sub-contractors on the portion of the project encompassed by the work, as well as all workers and persons employed in connection therewith have been paid in full for all labor and work and materials furnished.
7. Contractor releases and waives any and all public improvement lien rights which contractor has against the County.

**IN WITNESS WHEREOF**, deponent has executed this document on \_\_\_\_ day of \_\_\_\_

\_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Contractor

By:\_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Title)

STATE OF NEW YORK     )  
                                      ) SS:  
COUNTY OF ESSEX     )

I, \_\_\_\_\_, being duly sworn, depose and say that: I reside at \_\_\_\_\_, and I hereby sign this instrument under penalty of perjury; I am the of the Releasor identified herein; I am fully authorized to execute this instrument on behalf of the Releasor; and I hereby affirm that the statements contained in this instrument are true and correct.

\_\_\_\_\_  
Vendor/Releasor Agent Sign Here

Sworn to before me this \_\_\_\_  
day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Notary Public

SUBCONTRACTOR/SUPPLIER PROGRESS PAYMENT  
WAIVER, RELEASE AND DISCHARGE

PROJECT: \_\_\_\_\_

OWNER: \_\_\_\_\_ ESSEX COUNTY

CONTRACTOR: \_\_\_\_\_

SUBCONTRACTOR/SUPPLIER: \_\_\_\_\_

W I T N E S S E T H :

The above-named Subcontractor/Supplier, hereinafter referred to as the "Releasor", does, for and on behalf of itself, its, successors, assigns and all parties claiming any interest or right through the Releasor, hereby warrants, covenants and agrees as follows:

1. Releasor is/was a subcontractor/supplier to the Contractor above-named relative to the above-referenced Project pursuant to a contract or other relationship for the performing and/or furnishing of work, labor, services, materials and/or equipment at the Project site or to be incorporated in said Project.
2. Whenever the term "Releasor" is used in this instrument such term shall mean: (a) the above-named Subcontractor/Supplier, its' successors and assigns; (b) any and all sureties and all other guarantors of the Releasor on any payment, performance, labor and/or material bond or other undertaking; (c) all parties claiming any interest or right through the Releasor; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).
3. Whenever the term "Releasees" is used in this instrument such term shall mean: (a) the above-named Contractor and all of its, sureties and other guarantors on any payment, performance, labor and/or material bond or other undertaking; (b) the abovenamed Owner, its, successors and assigns; (c) the Project Architect/Engineer; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).
4. For and in consideration of the sum of \$ \_\_\_\_\_, and other good and valuable consideration, which sum is acknowledged as being the full and total amount due or allegedly due or owing from the Releasees to the Releasor as of the date hereof, and the receipt of such payment being hereby acknowledged, the Releasor does waive, release and discharge the Releasees from any and all causes of action, suits, debts, claims, liens, accounts, bonds, contracts, damages, encumbrances, judgments and demands whatsoever and of every kind and nature, in law or in equity, which against the Releasees, jointly and/or severally, the Releasor ever had, now has, or might hereafter have, relating directly or indirectly to the work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or incorporated or to be incorporated in said Project, as of the date hereof, including but not in any manner limited to the right of the Releasor to assert, file or claim any lien or other security interest in or upon the real and/or personal property of the Releasees.
5. The Releasor hereby agree to defend, indemnify, and hold harmless the Releasees from any and all damages, costs, expenses, demands, suits, liens and legal fees, directly or indirectly relating to any claim for compensation by any other party for work, labor, services, materials and/or



\_\_\_\_\_  
Notary Public

SUBCONTRACTOR/SUPPLIER FINAL WAIVER, RELEASE AND DISCHARGE

PROJECT: \_\_\_\_\_

OWNER: \_\_\_\_\_ ESSEX COUNTY \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

SUBCONTRACTOR/SUPPLIER: \_\_\_\_\_

W I T N E S S E T H :

The above-named Subcontractor/Supplier, hereinafter referred to as the "Releasor", does, for and on behalf of itself, its, successors, assigns and all parties claiming any interest or right through the Releasor, hereby warrants, covenants and agrees as follows:

1. Releasor is/was a subcontractor/supplier to the Contractor above-named relative to the above-referenced Project pursuant to a contract or other relationship for the performing and/or furnishing of work, labor, services, materials and/or equipment at the Project site or to be incorporated in said Project.

2. Whenever the term "Releasor" is used in this instrument such term shall mean: (a) the above-named Subcontractor/Supplier, its' successors and assigns; (b) any and all sureties and all other guarantors of the Releasor on any payment, performance, labor and/or material bond or other undertaking; (c) all parties claiming any interest or right through the Releasor; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).

3. Whenever the term "Releasees" is used in this instrument such term shall mean: (a) the above-named Contractor and all of its, sureties and other guarantors on any payment, performance, labor and/or material bond or other undertaking; (b) the abovenamed Owner, its, successors and assigns; (c) the Project Architect/Engineer; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).

4. For and in consideration of the sum of \$\_\_\_\_\_, and other good and valuable consideration, which sum is acknowledged as being the full, final and total amount due or allegedly due or owing from the Releasees to the Releasor as of the date hereof, and the receipt of such payment being hereby acknowledged, the Releasor does waive, release and discharge the Releasees from any and all causes of action, suits, debts, claims, liens, accounts, bonds, contracts, damages, encumbrances, judgments and demands whatsoever and of every kind and nature, in law or in equity, which against the Releasees, jointly and/or severally, the Releasor ever had, now has, or might hereafter have, relating directly or indirectly to the work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or incorporated or to be incorporated in said Project, as of the date hereof, including but not in any manner limited to the right of the Releasor to assert, file or claim any lien or other security interest in or upon the real and/or personal property of the Releasees.

5. The Releasor hereby agree to defend, indemnify, and hold harmless the Releasees from any and all damages, costs, expenses, demands, suits, liens and legal fees, directly or indirectly relating to any claim for compensation by any other party for work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or which should have been so furnished or performed, or incorporated or to be incorporated in said Project, as of the date hereof, by the Releasor or by any other party claiming any interest or right through the Releasor.

6. The Releasor hereby certifies and warrants that it has fully paid for all work, labor, services, materials and/or equipment provided to it in connection with the Project and/or any contract relating thereto.

7. The Releasor hereby grants to the Releasees the right to review and audit any and books and records of the Releasor at any time for verification.

**IN WITNESS WHEREOF** this instrument has been executed this \_\_\_\_ day of \_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Releasor

By:\_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Title)

STATE OF NEW YORK    )  
                                      ) SS:  
COUNTY OF ESSEX     )

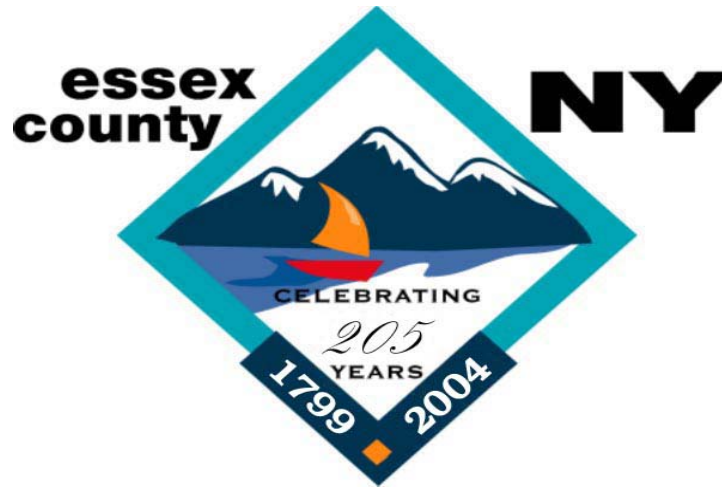
I, \_\_\_\_\_, being duly sworn, depose and say that: I reside at \_\_\_\_\_, and I hereby sign this instrument under penalty of perjury; I am the of the Releasor identified herein; I am fully authorized to execute this instrument on behalf of the Releasor; and I hereby affirm that the statements contained in this instrument are true and correct.

\_\_\_\_\_  
Vendor/Releasor Agent Sign Here

Sworn to before me this \_\_\_\_  
day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public

## APPENDIX E



### **ESSEX COUNTY**

#### ***Office of the Purchasing Agent***

7551 Court Street, P.O. Box 217

Elizabethtown, NY 12932

518-873-3330/Fax 518-873-3339

### **GENERAL SPECIFICATIONS FOR PROCUREMENT CONTRACTS**

Adopted May 20, 1999.

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**PART I**  
***General Provisions***

**1. APPLICABILITY** The terms and conditions set forth herein are expressly incorporated in and applicable to all procurements and resulting procurement contracts let by the Office of the Essex County Purchasing Agent where incorporated by reference in its Bid Documents. The provisions herein shall govern such procurement or contract unless expressly modified or amended by the terms of a Bid Specifications, or a negotiated Contract/Clarification document, if any. Captions are intended as descriptive and are not intended to limit or otherwise restrict the terms and conditions set forth herein.

**2. GOVERNING LAW** The laws of the State of New York shall govern and apply to the procurement, any resulting contract and for determinations in a court of competent jurisdiction in New York of any and all disputes, litigation or interpretations arising from or connected with the procurement or contract, except where expressly superseded in a specific contract letting or where the Federal supremacy clause requires otherwise. These specifications are modeled after and upon the specifications developed and used by the New York State Office of General Services for procurements by New York State.

**3. APPENDIX A / INSURANCE** The mandatory terms for all Essex County contracts are expressly incorporated herein and in all bid documents and/or resulting contracts, such terms being set forth in Appendix A (*Standard Clauses for Essex County Contracts*). Insurance requirements are also attached and incorporated herein.

**4. ETHICS COMPLIANCE** All Bidders/Contractors and their employees must comply with the requirements of the *General Municipal Law*, the *Public Officers Law*, and other State codes, rules and regulations establishing ethical standards for the conduct of business with New York State and/or municipalities. In signing the bid, Bidder certifies full compliance with those provisions for any present or future dealings, transactions, sales, contracts, services, offers, relationships, etc., involving Essex County and/or its employees. Failure to comply with those provisions may result in disqualification from the bidding process, termination of contract, and/or other civil or criminal proceedings as required by law.

**5. CONFLICT OF CLAUSES** Conflicts between procurement or contract documents shall be resolved in the following order of precedence:

**(a) Appendix A** (*Standard Clauses for Essex County Contracts*)

**(b) Contract/Clarification Documents** Writing(s) setting forth the final agreements, clarifications, terms, statement of work and/or modifications between the Bid Documents and Contractors Bid or Mini-bid.

**(c) Bid Documents** - Bid Specifications prepared by Essex County

**(d) Contractors Bid or Proposal**

**6. DEFINITIONS**

Terms used in this document shall have the following meanings:

**AGENCY OR AGENCIES** Essex County, New York, acting by or through one or more departments, boards, commissions, offices or institutions of Essex County.

**ANCILLARY PRODUCT:** Product which is purchased or licensed on a restricted use basis in conjunction with the principal manufacturers Product being acquired (e.g. may be used only in combination, or by educational institutions for research use).

**AUTHORIZED USER(S)** Agencies, or any other entity authorized by Essex County to participate in Essex County procurement contracts (including but not limited to political subdivisions, public authorities, school districts and public benefit corporations), provided that each such Agency or other entity shall be held solely responsible for liabilities or payments due as a result of its participation. The term "Authorized User" shall include "Licensees."

**BID OR BID PROPOSAL** An offer or proposal submitted by a Bidder to furnish a described product or a solution or means of achieving a practical end, at a stated price for the stated contract term.

**BIDDER** Any individual or other legal entity, (including but not limited to partnership, firm or corporation) which submits a bid in response to a Bid Solicitation. The term Bidder shall also include "offeror" and/or "contractor".

**BID DOCUMENTS** Writings setting forth the scope, terms, conditions and technical specifications for a procurement of Product. Such writings typically include, but are not limited to: Invitation for Bids (IFB), Request for Quotation (RFQ), Request for Proposals (RFP), addenda or amendments thereto, and terms and conditions which are incorporated by reference, e.g. Appendix A (*Standard Clauses for NYS Contracts*), Appendix B, (*General Specifications*). Where these General Specifications are incorporated in negotiated contracts which have not been competitively bid, the term "Bid Documents" shall be deemed to refer to the terms and conditions set forth in the negotiated contract.

**BID SOLICITATION** The notice or advertisement of an intent to purchase a specified Product by or on behalf of Authorized User(s).

**BID SPECIFICATION** A written description drafted by Essex County or an authorized user setting forth the specific terms of the intended procurement, which may include: physical or functional characteristics, the nature of a commodity or construction item, any description of the work to be performed, Products to be provided, the necessary qualifications of the Bidder, the capacity and capability of the Bidder to successfully carry out the proposed contract, or the process for achieving specific results and/or anticipated outcomes or any other requirement necessary to perform work. Where these *General Specifications* are incorporated in negotiated contracts which have not been competitively bid, the term "Bid Specifications" shall be deemed to refer to the terms and conditions set forth in the negotiated contract.

**CONTRACT** The writing(s) which contain the agreement of the Commissioner and the Bidder/Contractor setting forth the total legal obligation between the parties as determined by applicable rules of law.

**CONTRACT AWARD NOTIFICATION** An announcement to Authorized Users that a contract has been established.

**CONTRACTOR** Any successful Bidder(s) to whom a contract has been awarded by the Purchasing Agent. The term "Contractor" includes Licensors.

**COUNTY** Essex County, New York.

**EMERGENCY** An urgent and unexpected requirement where health and public safety or the conservation of public resources is at risk.

**ERROR CORRECTIONS** Machine executable software code furnished by Contractor which corrects the Product so as to conform to the applicable warranties, performance standards and/or obligations of the Contractor.

**GROUP** A classification of Product (commodities, services or technology).

**INVITATION FOR BIDS (IFB)** A type of Bid Document which is most typically used where requirements can be stated and award will be made to the lowest responsive bid submitted by the most responsible Bidder(s).

**LATE BID** For purposes of bid openings held and conducted by the Essex County Purchasing Agent, a bid not received in such place as may be designated on the Bid Specifications or in the Office of the Essex County Purchasing Agent, at or before the date and time established in the Bid Specifications for the bid opening.

**LETTER OF ACCEPTANCE** A letter to the successful Bidder(s) indicating acceptance of its bid in response to a solicitation. Unless otherwise specified, the issuance of a Letter of Acceptance forms a contract but is not an order for Product, and Contractor should not take any action with respect to actual contract deliveries except on the basis of Purchase Orders sent from Authorized User(s).

**LICENSED SOFTWARE** Software transferred upon the terms and conditions set forth in the Contract. "Licensed Software" includes ancillary products, error corrections, upgrades, enhancements or new releases, and any deliverables due under a maintenance or service contract (e.g. patches, fixes, PTFs, programs, code or data conversion, or custom programming).

**LICENSEE** The County, or one or more Agencies or Authorized Users who acquire Product from Contractor by execution of a license in accordance with the terms and conditions of the Contract; provided that, for purposes of compliance with an individual license, the term "Licensee" shall be deemed to refer separately to the individual Authorized User(s) on whose behalf the license was executed who took receipt of the Product, and who shall be solely responsible for performance and liabilities incurred.

**LICENSOR** A Contractor who transfers rights in proprietary Product to Authorized Users in accordance with the rights and obligations specified in the Contract.

**MULTIPLE AWARD** A determination and award of a contract in the discretion of the Purchasing Agent to more than one responsive and responsible Bidder who meets the requirements of a specification, where the multiple award is made on the grounds set forth in the Bid Document in order to satisfy multiple factors and needs of Authorized Users (e.g., complexity of items, various manufacturers, differences in performance required to accomplish or produce required end results, production and distribution facilities, price, compliance with delivery requirements, geographic location or other pertinent factors).

**NEW PRODUCT RELEASES (Product Revisions)** Any commercially released revisions to the version of a Product as may be generally offered and available to Authorized Users. New releases involve a substantial revision of functionality from a previously released version of the Product.

**PROCUREMENT RECORD** Documentation by the Essex County Purchasing Agent of the decisions made and approach taken during the procurement process.

**PRODUCT** A deliverable under any Bid or Contract which may include commodities (including printing), services and/or technology. The term "Product" includes Licensed Software.

**PURCHASE ORDER** The County's fiscal form or format which is used when making a purchase.

**REQUEST FOR PROPOSALS (RFP)** A type of Bid Document which is used for procurements where factors in addition to cost are considered and weighted in awarding the contract and where the method of award is "best value", as defined by the County's Procurement Policy and New York Law.

**REQUEST FOR QUOTATION (RFQ)** A type of Bid Document which can be used when a formal bid opening is not required (e.g. discretionary, sole source, single source or emergency purchases).

**RESPONSIBLE BIDDER** A Bidder that is determined to have skill, judgment and integrity, and that is found to be competent, reliable, experienced and qualified financially, as determined by the Purchasing Agent.

**RESPONSIVE BIDDER** A Bidder meeting the specifications or requirements prescribed in the Bid Document or solicitation, as determined by the Purchasing Agent.

**SINGLE SOURCE** A procurement where two or more offerors can supply the required Product, and the Purchasing Agent may award the contract to one Bidder over the other.

**SOLE SOURCE** A procurement where only one offeror is capable of supplying the required Product.

### ***Bid Submission***

**7. BID LANGUAGE & CURRENCY** All offers (tenders), and all information and Product documentation required by the solicitation or provided as explanation thereof, shall be submitted in English. All prices shall be expressed, and all payments shall be made, in United States Dollars (\$ US). Any offers (tenders) submitted which do not meet the above criteria will be rejected.

**8. BID OPENING** Bids may, as applicable, be opened publicly. The Purchasing Agent reserves the right at anytime to postpone or cancel a scheduled bid opening.

**9. BID SUBMISSION** The submission of a bid will be construed to mean that the bidder is fully informed as to the extent and character of the supplies, material, or equipment required and a representation that the bidder can furnish the supplies, materials, or equipment satisfactorily in complete compliance with the specifications.

All bids shall comply with the following:

**(a)** Bids are to be packaged, sealed and submitted to the location stated in the Bid Specifications. Bidders are solely responsible for timely delivery of their bids to the location set forth in the Bid Specifications prior to the stated bid opening date/time.

**(b)** A bid return envelope, if provided with the Bid Specifications, should be used with the bid sealed inside. If the bid response does not fit into the envelope, the bid envelope should be taped onto the outside of the sealed box or package with the bid inside. If using a commercial delivery company which requires use of their shipping package or envelope, Bidders sealed bid, labeled as detailed below, should be placed within the shippers sealed envelope to ensure that the bid is not prematurely opened. All bids must have a label on the outside of the package or shipping container outlining the following information:

**“BID ENCLOSED”** (bold print, all capitals)  
IFB or RFP Number  
Bid Submission date and time

In the event that a Bidder fails to provide such information on the return bid envelope or shipping material, the County reserves the right to open the shipping package or envelope to determine the proper bid number or Product group, and the date and time of bid opening. Bidder shall have no claim against the receiving entity arising from such opening and such opening shall not affect the validity of the bid or the procurement. Notwithstanding the County's right to open a bid to ascertain the foregoing information, Bidder assumes all risk of late delivery associated with the bid not being identified, packaged or labeled in accordance with the foregoing requirements.

**10. FACSIMILE SUBMISSIONS** Unless specifically authorized by the terms of the Bid Specifications,

facsimile bids ARE PROHIBITED AND SHALL NOT BE ACCEPTED. Where the bid specifications are silent as to the submission of bids by facsimile, no fax bids shall be permitted or accepted. Where specifically authorized, the following rules and conditions apply:

- (a) FAX number(s) indicated in the Bid Specifications must be used.
- (b) Access to the facsimile machine(s) is on a "first come, first serve" basis, and the Purchasing Agent bears no liability or responsibility and makes no guarantee whatsoever with respect to the Bidders access to such equipment at any specific time.
- (c) Bidders are solely responsible for submission and receipt of the entire facsimile bid by the Essex County Purchasing Agent prior to bid opening and must include on the first page of the transmission the total number of pages transmitted in the bid, including the cover page. Incomplete, ambiguous or unreadable transmissions in whole or in part may be rejected at the sole discretion of the Purchasing Agent.
- (d) Facsimile bids are fully governed by all conditions outlined in the Bid Documents and must be submitted on forms or in the format required in the Bid Specifications, including the executed signature page and acknowledgment.

**11. AUTHENTICATION OF FACSIMILE BIDS** The act of submitting a bid by facsimile transmission, when, as and if specifically authorized, including an executed signature page, shall be deemed a confirming act by Bidder which authenticates the signing of the bid.

**12. LATE BIDS** Any bid received at the specified location after the time specified will be considered a late bid. A late bid shall not be considered for award unless acceptance of the late bid is in the best interests of Essex County and either (a) no timely bids meeting the requirements of the Bid Documents are received, or (b) in the case of a multiple award, an insufficient number of timely bids were received to satisfy the multiple award. Delays in United States mail deliveries or any other means of transmittal, including couriers or agents of Essex County, shall not excuse late bid submissions. Otherwise, all late bids will not be considered and will be returned unopened to the bidder. The bidder assumes the risk of any delay in the mail or in the handling of the mail by employees of the County. Whether sent by mail or by means of personal delivery, the bidder assumes responsibility for having his bid deposited on time at the place specified.

**13. BID CONTENTS** Bids must be complete and legible. All bids must be signed. All information required by the Bid Specifications must be supplied by the Bidder on the forms or in the format specified in the Bid Specifications. No alteration, erasure or addition is to be made to the Bid Documents. Changes may be ignored by the Purchasing Agent or may be grounds for rejection of the bid. Changes, corrections and/or use of white-out in the bid or Bidders response portion of the Bid Document must be initialed by an authorized representative of the Bidder. Bidders are cautioned to verify their bids before submission, as amendments to bids or requests for withdrawal of bids received by the Purchasing Agent after the time specified for the bid opening, may not be considered. All lines must have an indication of bidders response whether it be "o", "N/A" or a dollar figure. All lines must be filled in to indicate bidder acknowledgment of the request. Bids that do not have all applicable lines filled in on bid sheet may be disqualified as a non-responsive bid. The Purchasing Agent shall not assume there is "no charge" when lines are left empty.

Bidders must submit with bid detailed specifications, circulars, warranties and all necessary data on items he proposes to furnish. This information must show clearly that the item offered meets all detailed specifications herein. The Purchasing Agent reserves the right to reject any bid if its compliance with the specifications is not clearly evident. If item offered differs from the provisions contained in these specifications such differences must be explained in detail, and bid will receive careful consideration if such deviations do not depart from the intent of these specifications and are to the best interests of Essex County as interpreted by the Purchasing Agent of Essex County.

It is the responsibility of the bidder to offer a product that meets the specifications of the manufacturer model as listed.

All stock electrical items must be listed and approved by Underwriters' Laboratories, Inc.

**14. EXTRANEIOUS TERMS** Bids must conform to the terms set forth in the Bid Documents, as extraneous terms or material deviations (including additional, inconsistent, conflicting or alternative terms) may render the bid non-responsive and may result in rejection of the bid.

**Extraneous term(s) submitted on standard, pre-printed forms (including but not limited to: product literature, order forms, license agreements, contracts or other documents) which are attached or referenced with the submission shall not be considered part of the bid, but shall be deemed included for informational or promotional purposes only.**

Only those extraneous terms which meet all the following requirements will be considered as having been submitted as part of the Bid:

- (a) Each proposed extraneous term (addition, counter-offer, deviation, or modification) must be specifically enumerated in a writing which is not part of a pre-printed form; and
- (b) The writing must identify the particular specification requirement (if any) which Bidder rejects or proposes to modify by inclusion of the extraneous term; and
- (c) The Bidder shall enumerate the proposed addition, counteroffer, modification or deviation from the Bid Document, and the reasons therefore.

No extraneous term(s), whether or not deemed "material," shall be incorporated into a contract unless the Purchasing Agent expressly accepts each such term(s) in writing. Acceptance and/or processing of the Bid shall not constitute such written acceptance of Extraneous Term(s).

**15. CONFIDENTIAL / TRADE SECRET MATERIALS** Confidential, trade secret or proprietary materials as defined by the laws of the State of New York must be clearly marked and identified as such upon submission. Bidders/Contractors intending to seek an exemption from disclosure of these materials under the *Freedom of Information Law* must request the exemption in writing, setting forth the reasons for the claimed exemption, at the time of submission. Acceptance of the claimed materials does not constitute a determination on the exemption request, which determination will be made in accordance with statutory procedures.

**16. PREVAILING WAGE RATES - Public Works and Building Services Contracts** If any portion of work being bid is subject to the prevailing wage rate provisions of Labor Law, the following shall apply:

**(a) "Public Works" and "Building Services" – Definitions**

**i. Public Works** *Labor Law* Article 8 applies to contracts for public improvement in which laborers, workers or mechanics are employed on a "public works" project (distinguished from public "procurement" or "service" contracts). The State, a public benefit corporation, a municipal corporation (including a school district), or a commission appointed by law must be a party to the contract. The wage and hours provision applies to any work performed by contractor or subcontractors.

**ii. Building Services** *Labor Law* Article 9 applies to contracts for building service work over \$1,500 with a public agency, which 1) involve the care or maintenance of an existing building, or 2) involve the transportation of office furniture or equipment to or from such building, or 3) involve the transportation and delivery of fossil fuel to such building, and 4) the principal purpose of which is to furnish services through use of building service employees.

**(b) Prevailing Wage Rate Applicable to Bid Submissions** A copy of the applicable prevailing wage rates to be paid or provided are attached to this solicitation. Bidders must submit bids which are based upon the prevailing hourly wages, and supplements in cash or equivalent benefits (i.e., fringe benefits and any cash or non-cash compensation which are not wages, as defined by law) that equal or exceed the applicable prevailing wage rate(s) for the location where the work is to be performed. Where the Bid Documents require the Bidder to enumerate hourly wage rates in the bid, Bidders may not submit bids based upon hourly wage rates and supplements below the applicable prevailing wage rates as established by the New York State Department of Labor. **Bids which fail to comply with this requirement will be disqualified.**

**(c) Wage Rate Payments / Changes During Contract Term** The wages to be paid under any resulting contract shall not be less than the prevailing rate of wages and supplements as set forth by law. It is required that the Contractor keep informed of all changes in the Prevailing Wage Rates during the contract term that apply to the classes of individuals supplied by the contractor on any projects which result from this contract which are subject to the provisions of the *Labor Law*. Contractor is solely liable for and must pay such required prevailing wage adjustments during the contract term as required by law.

**(d) Public Posting & Certified Payroll Records** In compliance with Article 8, Section 220 of the *Labor Law*, as amended by Chapter 565 of the Laws of 1997:

**i. Posting** The Contractor must publicly post on the work site, in a prominent and accessible place, a legible schedule of the prevailing wage rates and supplements.

**ii. Payroll Records** Contractors and sub-contractors must keep original payrolls or transcripts subscribed and affirmed as true under the penalties of perjury as required by law. For public works contracts over \$25,000 where the contractor maintains no regular place of business in New York State, such records must be kept at the work site. For building services contracts, such records must be kept at the work site while work is being performed.

**iii. Submission of Certified Payroll Transcripts for Public Works Contracts Only** Contractors and sub-contractors on public works projects must submit monthly payroll transcripts to Essex County which has prepared or directs the preparation of the plans and specifications for a public works project, as set forth in the Bid Specifications. For mini-bid solicitations, the payroll records must be submitted to the entity preparing the agency mini-bid project specification. For "agency specific" bids, the payroll records should be submitted to the entity issuing the purchase order. For all other Essex County procurement contracts, such records should be submitted to the individual agency issuing the purchase order(s) for the work. Upon mutual agreement of the Contractor and Essex County, the form of submission may be submitted in a specified disk format acceptable to the Department of Labor so long as: 1) the contractor/subcontractor retains the original records; and, (2) an original signed letter by a duly authorized individual of the contractor or subcontractor attesting to the truth and accuracy of the records accompanies the disk. **This provision does not apply to building services contracts.**

**iv. Records Retention** Contractors and subcontractors must preserve such certified transcripts for a period of three years from the date of completion of work on the awarded contract.

**(e) Days Labor - Defined for Article 8, Public Works (For Purposes of Article 8 of the Labor Law)** No laborer, worker or mechanic in the employ of the contractor, subcontractor or other person doing or contracting to do all or part of the work contemplated by the contract shall be permitted or required to work more than eight hours in any one calendar day or more than five days in any one week except in cases of extraordinary emergency including fire, flood or danger to life or property. "Extraordinary emergency" shall be deemed to include situations in which sufficient laborers, workers and mechanics cannot be employed to carry on public work expeditiously as a result of such



restrictions upon the number of hours and days of labor and the immediate commencement or prosecution or completion without undue delay of the public work is necessary in the judgment of the Essex County Purchasing Agent for the preservation of the contract site or for the protection of the life and limb of the persons using the contract site.

## **17. TAXES**

(a) Unless otherwise specified in the Bid Specifications or set forth in this clause, the quoted bid price includes all taxes applicable to the transaction.

(b) Purchases made by Essex County and certain non-County Authorized Users are exempt from New York State and local sales taxes and, with certain exceptions, federal excise taxes. To satisfy the requirements of the New York State Sales tax exemption, either the Purchase Order issued by a County Agency or the invoice forwarded to authorize payment for such items will be sufficient evidence that the sale by the Contractor was made to the County, an exempt organization under Section 1116 (a) (1) of the *Tax Law*. Non-County Authorized Users must offer their own proof of exemption where required. No person, firm or corporation is, however, exempt from paying the State Truck Mileage and Unemployment Insurance or Federal Social Security taxes, which remain the sole responsibility of the Bidder/Contractor. For tax free transactions under the Internal Revenue Code, the Essex County Registration Number is 14 6002889.

(c) Purchases by Authorized Users other than Essex County may be subject to such taxes, and in those instances the tax should be computed based on the bid price and added to the invoice submitted to such entity for payment.

**18. EXPENSES PRIOR TO AWARD** Essex County is not liable for any costs incurred by a Bidder in the preparation and production of a bid or for any work performed prior to contract award and/or issuance of an approved Purchase Order.

**19. ADVERTISING BID RESULTS** A Bidder in submitting a bid agrees not to use the results therefrom as a part of any commercial advertising without the prior written approval of the Purchasing Agent. In addition to any other sanctions or remedies available to it in law or equity, the Purchasing Agent may suspend from bidding on its requirements or terminate a contract of any Bidder/Contractor who violates the terms of this clause.

## **20. PRODUCT REFERENCES**

(a) **“Or Equal”** On all Bid Specifications the words “or equal” are understood to apply where a copyright brand name, trade name, catalog reference, or patented Product is referenced. References to such specific Product are intended as descriptive, not restrictive, unless otherwise stated. Comparable Product will be considered if proof of compatibility is provided, including appropriate catalog excerpts, descriptive literature, specifications and test data, etc. The Purchasing Agents decision as to acceptance of the Product as equal shall be final.

(b) **Discrepancies in References** In the event of a discrepancy between the model number referenced in the Bid Specifications and the written description of the Products therein which cannot be reconciled, with respect to such discrepancy, then the written description shall prevail.

**21. RECYCLED OR RECOVERED MATERIALS** Upon the conditions specified in the Bid Specifications and in accordance with the laws of the State of New York, Contractors are encouraged to use recycled or recovered materials in the manufacture of Products and packaging to the maximum extent practicable without jeopardizing the performance or intended end use of the Product or packaging unless such use is precluded due to health, welfare, safety requirements or in the Bid

Specifications. Where such use is not practical, suitable, or permitted by the Bid Specifications, Contractor shall deliver new materials in accordance with the "Warranties & Guaranties" set forth below.

Refurbished or remanufactured components or items may only be accepted at the discretion of the Purchasing Agent, or upon the conditions set forth in the Bid Specifications.

Items with recycled, recovered, refurbished or remanufactured content must be identified in the bid or will be deemed new Product.

**22. PRODUCTS MANUFACTURED IN PUBLIC INSTITUTIONS** Bids offering Products which are manufactured or produced in public institutions will be rejected.

## **23. PRICING**

**(a) Unit Pricing** If required by the Bid Specifications, the Bidder should insert the price per unit specified and the price extensions in decimals, not to exceed four places for each item, in the bid. In the event of a discrepancy between the unit price and the extension, the unit price shall govern unless, in the sole judgment of the Purchasing Agent, such unit pricing is obviously erroneous.

**(b) Net Pricing** Prices must be net, including transportation, customs, tariff, delivery and other charges fully prepaid by the Contractor to the destination(s) indicated in the Bid Specifications, subject only to the cash discount. If the award is to be made on another basis, transportation and other charges must be prepaid by the Contractor and added to the invoice as a separate item, unless otherwise required in the Bid Specifications.

**(c) "No Charge" Bid** When bids are requested on a number of Products as a group or Lot, a Bidder desiring to bid "no charge" on a Product in the grouping or Lot must clearly indicate such. Otherwise, such bid may be considered incomplete and be rejected, in whole or in part, at the discretion of the Purchasing Agent.

If a price is written in numbers and alpha, the alpha will govern.

Prices shall be net FOB any point in Essex County, New York. Price quoted shall include all delivery costs. Prices shall be net, including transportation and delivery charges fully prepaid by the successful bidder to destination indicated in the proposal. If award is made on any other basis, transportation charges must be prepaid by the successful bidder and added to the invoice as a separate item. In any case, title shall not pass until items have been delivered and accepted by the County.

## **24. DRAWINGS**

**(a) Drawings Submitted With Bid** When the Bid Specifications require the Bidder to furnish drawings and/or plans, such drawings and/or plans shall conform to the mandates of the Bid Documents and shall, when approved by the Purchasing Agent, be considered a part of the bid and of any resulting contract. All symbols and other representations appearing on the drawings shall be considered a part of the drawing.

**(b) Drawings Submitted During the Contract Term** Where required by the Bid Specifications to develop, maintain and deliver diagrams or other technical schematics regarding the scope of work, Contractor shall be required to develop, maintain, deliver and update such drawings on an ongoing basis at no additional charge. Contractor shall be responsible for updating drawings and plans during the contract term to reflect additions, alterations, and deletions. Such drawings and diagrams shall be delivered to the Authorized

Users representative as required by the Bid Specifications. Where required, Contractor shall furnish to Authorized User in a timely manner the required drawings representing the then current, "as modified" condition of all product included in the scope of work.

**(c) Accuracy of Drawings Submitted** All drawings shall be neat and professional in manner and shall be clearly labeled as to locations and type of product, connections and components. Drawings and diagrams are to be in compliance with accepted drafting standards. Acceptance or approval of such plans shall not relieve the Contractor from responsibility for design or other errors of any sort in the drawings or plans, or from its responsibility for performing as required, furnishing product, services or installation, or carrying out any other requirements of the intended scope of work.

**25. SITE INSPECTION** Where Bidder is required by the Bid Specifications to deliver or install Product, or to service installed product(s) or equipment, Bidder shall be given an opportunity and shall be required to inspect the site prior to submission of the Bid, including environmental or other conditions or pre-existing deficiencies in the installed product, equipment or environment, which may affect Bidders ability to deliver, install or otherwise provide the required product. All inquiries regarding such conditions may only be made in writing. Bidder shall be deemed to have knowledge of any deficiencies or conditions which such inspection or inquiry might have disclosed, and to have included the costs of repair in its bid. Bidder must provide a detailed explanation of work intended to be performed under this clause. Bidder shall be required to remedy any pre-existing deficiencies or conditions at the commencement of the contract term. Reimbursement for the cost of repairing the conditions or deficiencies shall be separately enumerated in the bid.

## **26. SAMPLES**

**(a) Standard Samples** Bid Specifications may indicate that the Product to be purchased must be equal to a standard sample on display in a place designated by the Purchasing Agent and such sample will be made available to the Bidder for examination prior to the opening date. Failure by the Bidder to examine such sample shall not entitle the Bidder to any relief from the conditions imposed by the Bid Documents.

**(b) Bidder Supplied Samples** The Purchasing Agent reserves the right to request from the Bidder/Contractor a representative sample(s) of the Product offered at any time prior to or after award of a contract. Unless otherwise instructed, samples shall be furnished within the time specified in the request. Untimely submission of a sample may constitute grounds for rejection of bid or cancellation of the Contract. Samples must be submitted free of charge and be accompanied by the Bidders name and address, any descriptive literature relating to the Product and a statement indicating how and where the sample is to be returned. Where applicable, samples must be properly labeled with the appropriate bid or Essex County contract reference.

A sample may be held by the Purchasing Agent during the entire term of the contract and for a reasonable period thereafter for comparison with deliveries. At the conclusion of the holding period the sample, where feasible, will be returned as instructed by the Bidder, at the Bidders expense and risk. Where the Bidder has failed to fully instruct the Purchasing Agent as to the return of the sample (i.e. mode and place of return, etc.) or refuses to bear the cost of its return, the sample shall become the sole property of the receiving entity at the conclusion of the holding period.

**(c) Enhanced Samples** When an approved sample exceeds the minimum specifications, all Product delivered must be of the same enhanced quality and identity as the sample. Thereafter, in the event of a Contractors default, the Purchasing Agent may procure a commodity substantially equal to the enhanced sample from other sources, charging the Contractor for any additional costs incurred.

**(d) Conformance with Sample(s)** Submission of a sample (whether or not such sample is tested by, or for, the Purchasing Agent) and approval thereof shall not relieve the Contractor from full compliance with all conditions and terms, performance related and otherwise, specified in the Bid Documents. If in the judgment of the Purchasing Agent the sample or product submitted is not in accordance with the specifications or testing requirements prescribed in the Bid Documents, the Purchasing Agent may reject the bid. If an award has been made, the Purchasing Agent may cancel the contract at the expense of the Contractor.

**(e) Testing** All samples are subject to tests in the manner and place designated by the Purchasing Agent, either prior to or after contract award. Unless otherwise stated in the Bid Specifications, Bidder Samples consumed or rendered useless by testing will not be returned to the Bidder.

**27. ADDENDA / INTERPRETATION** No verbal interpretation of the intent of any of the specifications or other Contract Documents will be made before receipt of bids. Requests for interpretations prior to receipt of bids must be presented, in writing, to the Purchasing Agent, 100 Court Street, P.O. Box 217, Elizabethtown, NY 12932, and to be given consideration must be received by the Purchasing Agent at least seven (7) days prior to the date set for the opening of bids.

Any interpretation, and any additional information or instruction will, if issued, be in the form of a written Addendum or Addenda sent to all holders of Contract Documents at the addresses furnished therefor, at least five (5) days prior to the date of the opening of bids.

Failure of any bidder to receive any Addenda shall not relieve such bidder from any obligation under this bid as submitted. All Addenda so issued shall become a part of the Contract Documents.

### ***Bid Evaluation***

**28. BID EVALUATION** The Purchasing Agent reserves the right to accept or reject any and all bids, or separable portions of offers, and waive technicalities, irregularities, and omissions if the Purchasing Agent determines the best interests of the County will be served. The Purchasing Agent, in his/her sole discretion, may accept or reject illegible, incomplete or vague bids and his/her decision shall be final. A conditional or revocable bid which clearly communicates the terms or limitations of acceptance may be considered and contract award may be made in compliance with the Bidders conditional or revocable terms in the offer.

Where a bidder is requested to submit a bid on individual items and/or on a total sum or sums, the right is reserved to award bids on individual items or on total sums. The County reserves the right to award in whole or in part based on the lowest responsible bid.

The following three items will automatically render a bid unacceptable to Essex County:

- a. Failure to sign bid proposal page.
- b. Failure to include necessary bid deposit (as required).
- c. Failure to sign and submit non-collusive bidding certificate.

It shall be fully understood that any deviations from the inclusion of the above items will be grounds to see the bid as non-compliant and will not be considered for award.

The Purchasing Agent reserves the right to reject such bids, as in his opinion, are incomplete, conditional, obscure, or which contain irregularities of any kind including unbalanced bids. One in which the amount bid for one or more separate items is substantially out of line with the current market prices for the materials and/or work covered thereby.

**29. CONDITIONAL BID** Unless the Bid Specifications provides otherwise, a bid is not rendered non-responsive if the Bidder specifies that the award will be accepted only on all or a specified group of items or Product included in the specification. It is understood that nothing herein shall be deemed to change or alter the method of award contained in the Bid Documents.

**30. CLARIFICATIONS / REVISIONS** Prior to award, the Purchasing Agent reserves the right to seek clarifications, request bid revisions, or to request any information deemed necessary for proper evaluation of bids from all Bidders deemed to be eligible for contract award. Failure to provide requested information may result in rejection of the bid.

**31. PROMPT PAYMENT DISCOUNTS** While prompt payment discounts will not be considered in determining the low bid, the Purchasing Agent may consider any prompt payment discount in resolving bids which are otherwise tied. However, any notation indicating that the price is net, (e.g. net 30 days), shall be understood to mean only that no prompt payment discount is offered by the Bidder. The imposition of service, interest, or other charges, except pursuant to the provisions of Article 11\_A of the *State Finance Law*, which are applicable in any case, may render the bid non-responsive and may be cause for its rejection.

**32. EQUIVALENT OR IDENTICAL BIDS** In the event two offers are found to be substantially equivalent, price shall be the basis for determining the award recipient. If two or more Bidders submit substantially equivalent bids as to pricing or other factors, the decision of the Purchasing Agent to award a contract to one or more of such Bidders shall be final.

**33. PERFORMANCE QUALIFICATIONS** The Purchasing Agent reserves the right to investigate or inspect at any time whether or not the Product, qualifications or facilities offered by the Bidder/Contractor meet the requirements set forth in the Bid Documents. Contractor shall at all times during the contract term remain responsible and responsive. A Bidder/Contractor must be prepared, if requested by the Purchasing Agent, to present evidence of experience, ability and financial standing, as well as a statement as to plant, machinery and capacity of the manufacturer for the production, distribution and servicing of the Product bid. If the Purchasing Agent determines that the conditions and terms of the Bid Documents or Contract are not complied with, or that items or Product proposed to be furnished do not meet the specified requirements, or that the qualifications, financial standing or facilities are not satisfactory, or that performance is untimely, the Purchasing Agent may reject such bid or terminate the contract. Nothing in the foregoing shall mean or imply that it is obligatory upon the Purchasing Agent to make an investigation either before or after award of a contract, but should such investigation be made, it in no way relieves the Bidder/Contractor from fulfilling all requirements and conditions of the contract.

**34. DISQUALIFICATION FOR PAST PERFORMANCE** Bidder may be disqualified from receiving awards if Bidder, or anyone in Bidders employment, has previously failed to perform satisfactorily in connection with public bidding or contracts.

**35. QUANTITY CHANGES PRIOR TO AWARD** The Purchasing Agent reserves the right, at any time prior to the award of a specific quantity contract, to alter in good faith the quantities listed in the Bid Specifications to conform with requirements. In the event such right is exercised, the lowest responsible Bidder meeting specifications will be advised of the revised requirements and afforded an opportunity to extend or reduce its bid price in relation to the changed quantities. Refusal by the low Bidder to so extend or reduce its bid price may result in the rejection of its bid and the award of such contract to the lowest responsible Bidder who accepts the revised requirements.

**36. RELEASE OF BID EVALUATION MATERIALS** Requests concerning the evaluation of bids may be submitted under the *Freedom of Information Law*. Information, other than the Bid Tabulation, shall be released as required by law after contract award. Written requests should be directed to the Purchasing Agent.

**37. TIME FRAME FOR OFFERS** The Purchasing Agent reserves the right to make awards within sixty (60) days after the date of the bid opening, during which period, bids must remain firm and cannot be withdrawn. If, however, an award is not made within the sixty (60) day period, bids shall remain firm until such later time as either a contract is awarded or the Bidder delivers to the Purchasing Agent written notice of the withdrawal of its bid. Any bid which expressly states therein that acceptance must be made within a shorter specified time, may at the sole discretion of the Purchasing Agent, be accepted or rejected.

## **TERMS & CONDITIONS**

**38. CONTRACT CREATION / EXECUTION** Except as may be otherwise provided by law or by the Purchasing Agent, upon receipt of all required approvals a Contract shall be deemed executed and created with the successful Bidder(s) upon the Purchasing Agent's mailing or electronic communication to the address on the bid of (a) a Letter of Acceptance and (b) a fully executed contract, or (c) a Purchase Order authorized by the Purchasing Agent.

**39. COMPLIANCE WITH LAWS, ETC.** The Bidder shall comply with all the provisions of the laws of the State of New York and of the United States of America which affect municipalities and municipal contracts, and any and all State and Federal rules and regulation, and of amendments and additions thereto, insofar as the same shall be applicable to any contract awarded hereunder with the same force and effect as if set forth at length herein. The Bidder's special attention is called to the following laws: *General Municipal Law* Section 1-03-d, *State Finance Law* Section 167-b prohibiting the purchase of tropical hardwood products, and the New York State Public Employee Safety & Health Act of 1980.

**40. MODIFICATION OF TERMS** The terms and conditions set forth in the Contract shall govern all transactions by Authorized User(s) under this Contract. The Contract may only be modified or amended upon mutual written agreement of the Purchasing Agent and Contractor.

The Contractor may, however, offer Authorized User(s) more advantageous pricing, payment, or other terms and conditions than those set forth in the Contract. In such event, a copy of such terms shall be furnished to the Authorized User(s) and Purchasing Agent by the Contractor.

Other than where such terms are more advantageous for the Authorized User(s) than those set forth in the Contract, no alteration or modification of the terms of the Contract, including substitution of Product, shall be valid or binding against Authorized User(s) unless authorized by the Purchasing Agent or specified in the Contract Award Notification. No such alteration or modification shall be made by unilaterally affixing such terms to Product upon delivery (including, but not limited to, attachment or inclusion of standard pre-printed order forms, product literature, "shrink wrap" terms accompanying software upon delivery, or other documents) or by incorporating such terms onto order forms, purchase orders or other documents forwarded by the Contractor for payment, notwithstanding Authorized Users subsequent acceptance of Product, or that Authorized User has subsequently processed such document for approval or payment.

**41. SCOPE CHANGES** The Purchasing Agent reserves the right, unilaterally, to require, by written order, changes by altering, adding to or deducting from the contract specifications, such changes to be within the general scope of the contract. The Purchasing Agent may make an equitable adjustment in the contract price or delivery date if the change affects the cost or time of performance.

With respect to any specific quantity stated in the contract, the Purchasing Agent reserves the right after award to order up to 20% more or less (rounded to the next highest whole number) than the specific quantities called for in the contract. Notwithstanding the foregoing, the Purchasing Agent may purchase greater or lesser percentages of contract quantities should the Purchasing Agent and Contractor so agree.

**42. ESTIMATED QUANTITY CONTRACTS** Estimated quantity contracts are expressly agreed and

understood to be made for only the quantities, if any, actually ordered during the contract term. No guarantee of any estimated quantity(s) is implied or given. Unless otherwise set forth in the Bid Specifications, contracts for services and technology are completely voluntary as to use, and therefore no quantities are guaranteed.

**43. BEST PRICING OFFER** During the contract term, if substantially the same or a smaller quantity of a Product is sold by the Contractor outside of this contract vehicle upon the same or similar terms and conditions as that of this contract at a lower price, the price under this contract shall be immediately reduced to the lower price.

**44. PURCHASE ORDERS** Unless otherwise authorized in writing by the Purchasing Agent, no Products are to be delivered or furnished by Contractor until transmittal of an official Purchase Order from the Authorized User requiring the Product. Unless terminated or canceled pursuant to the authority vested in the Purchasing Agent, Purchase Orders shall be effective and binding upon the Contractor when placed in the mail or electronically transmitted prior to the termination of the contract period, addressed to the Contractor at the address set forth in the Contract for receipt of orders, or in the Contract Award Notification.

All Purchase Orders issued pursuant to contracts let by the Purchasing Agent must bear the appropriate contract number and, if necessary, required State approvals. Unless otherwise specified, all Purchase Orders against centralized contracts will be placed by Authorized Users directly with the Contractor and any discrepancy between the terms stated on the vendors order form, confirmation or acknowledgment, and the contract terms shall be resolved in favor of the terms most favorable to the Authorized User.

If, with respect to an agency specific contract, a Purchase Order is not received within two weeks after the issuance of a Contract Award Notification, it is the responsibility of the Contractor to request in writing that the appropriate Authorized User forward a Purchase Order. If, thereafter, a Purchase Order is not received within a reasonable period of time, the Contractor shall promptly notify the appropriate purchasing officer in Essex County. Failure to timely notify such officer may, in the discretion of the Purchasing Agent and without cost to the State, result in the canceling of such requirement by the Purchasing Agent with, at the Purchasing Agents discretion, a corresponding reduction in the contract quantity and price.

**45. PRODUCT DELIVERY** It shall be understood that with respect to contract deliveries, time is of the essence. Delivery must be made as ordered and in accordance with the terms of the contract. Unless otherwise specified in the Bid Specifications, delivery shall be made within thirty calendar days after receipt of a purchase order by the Contractor. The decision of the Purchasing Agent as to compliance with delivery terms shall be final. The burden of proof for delay in receipt of Purchase Order shall rest with the Contractor. In all instances of a potential or actual delay in delivery, the Contractor shall immediately notify the Purchasing Agent and the Authorized User, and confirm in writing the explanation of the delay, and take appropriate action to avoid any subsequent late deliveries. Any extension of the time for delivery must be requested in writing by the Contractor and approved in writing by the Purchasing Agent. Failure to meet such time schedule may be grounds for cancellation of the order or, in the Purchasing Agents discretion, the Contract.

The County must be notified twenty-four (24) hours in advance of delivery. The County reserves the right to deny acceptance of delivery if this notice is not given, at no cost to the County.

The successful bidder shall be responsible for delivery of items in good condition at point of destination, and shall file with the carrier all claims for breakage, imperfections, and other losses, which will be deducted from invoices. The Purchasing Agent will note for the benefit of successful bidder when packages are not received in good condition. Carton shall be labeled with purchase order or contract number, successful bidders name and general statement of contents. Failure to comply with this condition shall be considered sufficient reason for refusal to accept the goods.



Unless otherwise stated in the specifications, all items must be delivered into and placed at a point within the building as directed by the shipping instructions or the Purchasing Agent. The successful bidder will be required to furnish proof of delivery in every instance.

Unloading and placing of equipment and furniture is the responsibility of the successful bidder, and the County accepts no responsibility for unloading and placing of equipment. Any costs incurred due to the failure of the successful bidder to comply with this requirement will be charged to him. No help for unloading will be provided by the County, and suppliers should notify their truckers accordingly.

All deliveries shall be accompanied by delivery tickets or packing slips. Ticket shall contain the following information for each item delivered:

Contract Number and/or Purchase Order Number  
Name of Article  
Item Number (if applicable)  
Quantity  
Name of the Successful Bidder

**46. SATURDAY & HOLIDAY DELIVERIES** Unless otherwise specified in the Bid Specifications or by an Authorized User, deliveries will not be scheduled for Saturdays, Sundays or legal holidays observed by the State of New York except of Product for daily consumption or where an emergency exists or the delivery is a replacement or is late, in which event the convenience of the Authorized User shall govern.

#### **47. SHIPPING / RECEIPT OF PRODUCT**

(a) **Packaging** Tangible Product shall be securely and properly packed for shipment, storage and stocking in appropriate, clearly labeled shipping containers and according to accepted commercial practice, without extra charge for packing materials, cases or other types of containers. The container shall become and remain the property of the receiving entity unless otherwise specified in the contract documents.

(b) **Shipping Charges** Contractor shall be responsible for insuring that the Bill of Lading states "charges prepaid" for all shipments. Unless otherwise stated in the Bid Specifications, all deliveries shall be deemed to be FOB Destination tailgate delivery at the dock of the Authorized User. Unless otherwise agreed, items purchased at a price F.O.B. Shipping point plus transportation charges are understood to not relieve the contractor from responsibility for safe and proper delivery notwithstanding the Authorized Users payment of transportation charges.

(c) **Receipt of Product** The Contractor shall be solely responsible for assuring that deliveries are made to personnel authorized to accept delivery on behalf of the Authorized User. Any losses resulting from the Contractors failure to deliver Product to authorized personnel shall be borne exclusively by the Contractor.

**48. TITLE AND RISK OF LOSS** Notwithstanding the form of shipment, title and risk of loss shall not pass from the Contractor to the Authorized User until the Products have been received, inspected and accepted by the receiving entity. Acceptance shall occur within a reasonable time or in accordance with such other defined acceptance period as may be specified in the Bid Specifications. Mere acknowledgment by Authorized User personnel of the delivery or receipt of goods (e.g. signed bill of lading) shall not be deemed or construed as acceptance of the Products received. Any delivery of Product which is substandard or does not comply with the Contract terms, may be rejected or accepted on an adjusted price basis, as determined by the Purchasing Agent.

**49. RE-WEIGHING PRODUCT** Deliveries are subject to re-weighing at the point of destination by the receiving entity. If shrinkage occurs which exceeds that normally allowable in the trade, the receiving

entity shall have the option to require delivery of the difference in quantity, or to reduce the payment accordingly.

**50. PRODUCT SUBSTITUTION** In the event a specified manufacturers Product listed in the Contractors Bid becomes unavailable or cannot be supplied by the Contractor for any reason (except as provided for in the Force Majeure Clause below) a Product deemed by the Purchasing Agent to be the equal or better of the specified commodity or service must be substituted by the Contractor at no additional cost or expense to the Authorized User. Unless otherwise specified, any substitution of Product prior to the Purchasing Agents approval may be cause for cancellation of contract.

**51. REJECTED PRODUCT** When Products are rejected, they must be removed by the Contractor from the premises of the receiving entity within ten days of notification of rejection by Authorized User. Upon rejection notification, risk of loss of rejected or non-conforming Product shall remain on Contractor. Rejected items not removed by the Contractor within ten days of notification shall be regarded as abandoned by the Contractor, and the Authorized User shall have the right to dispose of the items as its own property. The Contractor shall promptly reimburse the Authorized User for any and all costs and expenses incurred in storage or effecting removal or disposition.

**52. INSTALLATION** Where installation is required, Bidder shall be responsible for placing and installing the equipment in the required locations. All materials used in the installation shall be of good quality and shall be free from any and all defects which would mar the appearance of the equipment or render it structurally unsound. Installation includes the furnishing of any equipment, rigging and materials required to install or replace the Product in the proper location. The Contractor shall protect the site from damage for all its work and shall repair damages or injury of any kind caused by the Contractor, its employees, officers or agents. If any alteration, dismantling or excavation, etc. is required to effect installation, the Contractor shall thereafter promptly restore the structure or site to its original condition. Work shall be performed so as to cause the least inconvenience to the Authorized User(s) and with proper consideration for the rights of other contractors or workers. The Contractor shall promptly perform its work and shall coordinate its activities with those of other contractors. The Contractor shall clean up and remove all debris and rubbish from its work as required or directed. Upon completion of the work, the building and surrounding area of work shall be left clean and in a neat, unobstructed condition, and everything in satisfactory repair and order.

**53. REPAIRED OR REPLACED PRODUCT / COMPONENTS** Where the Contractor is required to repair, replace or substitute Product or components under the Contract, the repaired, replaced or substituted Product shall be subject to all terms and conditions for new Product set forth in the contract, including product warranties.

**54. ON-SITE STORAGE** Materials, equipment or supplies may be stored at the County/s or Authorized User's site at the Contractors sole risk and only with the approval of, as the case may be, the County or the Authorized User.

**55. EMPLOYEES / SUBCONTRACTORS / AGENTS** All employees, subcontractors or agents performing work under the contract must be trained technicians who meet or exceed the technical and training qualifications set forth in the Bid Specifications or the Bid, whichever is greater, and must comply with all rules and requirements of the Contract. The Purchasing Agent reserves the right to conduct a security background check or otherwise approve any employee or agent furnished by Contractor and to refuse access to or require replacement of any personnel for cause, including but not limited to, technical or training qualifications, quality of work or change in security status or non-compliance with Authorized Users security or other requirements. Such approval shall not relieve the Contractor of the obligation to perform all work in compliance with the contract terms. The Purchasing Agent reserves the right to reject and/or bar from the facility for cause any employee, subcontractor, or agents of the Contractor.

**56. ASSIGNMENT / SUBCONTRACTORS** The Contractor shall not assign, transfer, convey, sublet, or otherwise dispose of the contract or its right, title or interest therein, or its power to execute such contract to any other person, company, firm or corporation in performance of the contract, other than the assignment of the right to receive moneys due, without the prior written consent of Essex County. Prior to an assignment of the right to receive moneys becoming effective, Contractor shall file a written notice of such assignment simultaneously with Essex County and participating Authorized User(s).

The Purchasing Agent reserves the right to reject any proposed subcontractor, assignee or supplier for bona fide business reasons, which may include, but are not limited to: that the proposed transferee is on the Department of Labors list of companies with which New York State cannot do business; the Purchasing Agent determines that the company is not qualified; unsatisfactory contract performance or service has been previously provided; or attempts were not made to solicit minority and womens business enterprises (M/WBE) bidders for the subcontract.

**57. PERFORMANCE / BID BOND** Essex County reserves the right to require the Bidder/Contractor to furnish without additional cost, a performance, payment or bid bond or negotiable irrevocable letter of credit or other form of security for the faithful performance of the contract, whenever the Purchasing Agent in his/her sole discretion deems such bond or security to be in Essex County's best interest. Where required, such bond or other security shall be in the form prescribed by the Purchasing Agent.

#### **58. STOP / SUSPENSION OF WORK**

**(a) Stop Work Order** The Purchasing Agent reserves the right to stop the work covered by this contract at any time that the successful Contractor becomes unable or incapable of performing the work or meeting any requirements or qualifications set forth in the contract. In the event of such stopping, the Purchasing Agent shall have the right to arrange for the completion of the work in such manner as it may deem advisable and if the cost thereof exceeds the amount of the bid, the successful Contractor shall be liable for any such cost on account thereof.

**(b) Suspension of Work Order** The Purchasing Agent, in his/her sole discretion, reserves the right to suspend any or all activities under this contract, at anytime, in the best interests of the State or Issuing Entity. In the event of such suspension, the contractor will be given a formal written notice outlining the particulars of such suspension. Examples of the reason for such suspension include, but are not limited to, a budget freeze on County spending, declaration of emergency, or other such circumstances. Upon issuance of such suspension of work, the Contractor is not to accept any purchase orders, as specified in the Suspension Order. Activity may resume at such time as the Purchasing Agent issues a formal written notice authorizing a resumption of work.

**59. CANCELLATION** A contract may be canceled by the Purchasing Agent, and/or an Authorized User may cancel its participation, license or service order under the contract, at the Contractors expense upon non-performance, or upon a determination that Contractor is non-responsive, or non-responsible.

**60. FORCE MAJEURE** The Contractor shall not be responsible for delay resulting from its failure to perform if neither the fault nor negligence of the Contractor, its officers, employees or agents contributed to such delay and the delay is due directly to acts of God, wars, acts of public enemies, strikes, fires or floods, or other similar cause beyond the control of the Contractor, or for any of the foregoing which affect subcontractors or suppliers and no alternate source of supply is available to the Contractor. In such event, Contractor shall notify the Purchasing Agent, by certified or registered mail, of the delay or potential delay and the cause(s) thereof either (a) within ten (10) calendar days after the cause which creates or will create the delay first arose if the Contractor could reasonably foresee that a delay could occur by reason thereof, or (b), if delay is not reasonably foreseeable, within five (5) calendar days after the date the Contractor first had reason to believe a delay could result. The foregoing shall constitute the Contractors sole remedy or excuse with respect to such delay. In the

event performance is suspended or delayed, in whole or in part, by reason of any of the aforesaid causes or occurrences and proper notification is given the Purchasing Agent, any performance so suspended or delayed shall be performed by the Contractor at no increased cost, promptly after such disabilities have ceased to exist unless it is determined in the sole discretion of the Purchasing Agent that the delay will significantly impair the value of the contract to the County or to Authorized Users, whereupon the Purchasing Agent may:

- (a) Accept allocated performance or deliveries from the Contractor. The Contractor, however, hereby agrees to grant preferential treatment to County Agencies with respect to Product subjected to allocation; and/or
- (b) Purchase from other sources (without recourse to and by the Contractor for the costs and expenses thereof) to replace all or part of the Products which are the subject of the delay, which purchases may be deducted from the contract quantity; or
- (c) Terminate the contract or the portion thereof which is subject to delivery delays, and thereby discharge any unexecuted portion of the contract or the relative part thereof.

**61. CONTRACT BILLINGS** Contractor shall provide complete and accurate billing invoices to each Authorized User in order to receive payment. Billings for Agencies must contain all information required by the County Treasurer and/or Auditor. The County Treasurer shall render payment for Agency purchases, and such payment shall be made in accordance with ordinary County procedures and practices. Payment of contract purchases made by Authorized Users other than Agencies shall be billed directly by Contractor on invoices/vouchers, together with complete and accurate supporting documentation as required by the Authorized User.

Submission of an invoice and payment thereof shall not preclude the Purchasing Agent from reimbursement or demanding a price adjustment in any case where the Product delivered is found to deviate from the terms and conditions of the bid and award documents.

**62. DEFAULT - AUTHORIZED USER** An Authorized Users breach shall not be deemed a breach of the centralized contract. In the event a participating Authorized User fails to make payment to the Contractor for Products delivered, accepted and properly invoiced, within 60 days of such delivery and acceptance, the Contractor may, upon 10 days advance written notice to both the Purchasing Agent and the Authorized Users purchasing official, suspend additional shipments of Product or provision of services to such entity until such time as reasonable arrangements have been made and assurances given by such entity for current and future contract payments.

Notwithstanding the foregoing, the Contractor shall, at least 10 days prior to declaring a breach of contract by any Authorized User, by certified or registered mail, notify both the Purchasing Agent and the purchasing official of the breaching Authorized User of the specific facts, circumstances and grounds upon which a breach will be declared. It is understood, however, that if the Contractors basis for declaring a breach is insufficient, the Contractors declaration of breach and failure to service an Authorized User shall constitute a breach of its contract and the County or Authorized User may thereafter utilize any remedy available at law or equity.

### **63. INTEREST ON LATE PAYMENTS**

- (a) **County Agencies** The payment of interest on certain payments due and owed by a County agency may be made in accordance with Section 3-a of the *General Municipal Law* at the rate of three percent (3%) per annum.
- (b) **By Non-County Agencies** The terms of Article 11-A apply only to procurements by and the consequent payment obligations of the County. Neither expressly nor by any implication is the County responsible for payments on any purchases made by a Non-County Agency

Authorized User.

(c) **By Contractor** Should the Contractor be liable for any payments to the County hereunder, interest, late payment charges and collection fee charges will be determined and assessed pursuant to Section 18 of the *State Finance Law* to the same extent as though the contract was with the State of New York rather than the County.

**64. REMEDIES FOR BREACH** It is understood and agreed that all rights and remedies afforded below shall be in addition to all remedies or actions otherwise authorized or permitted by law:

(a) **Cover / Substitute Performance** Upon the failure of the Contractor to properly perform within the time specified, failure to provide acceptable service, to make immediate replacement of rejected Product when so requested, or upon the revocation of the Contract by the Purchasing Agent for cause, or upon repudiation of the contract by the Contractor, the Purchasing Agent may, with or without formally bidding same:

i. Purchase from other sources to replace the Product rejected, revoked, not timely delivered or repudiated; or

ii. If after making reasonable attempts, under the circumstances then existing, to timely provide acceptable service or acquire replacement product of equal or comparable quality, the Purchasing Agent is unsuccessful, the Purchasing Agent may acquire acceptable service or replacement product of lesser or greater quality.

Such purchases may, in the discretion of the Purchasing Agent, be deducted from the contract quantity.

(b) **Withhold Payment** In any case where a question of non-performance by Contractor arises, payment may be withheld in whole or in part at the discretion of the Purchasing Agent. Should the amount withheld be finally paid, a cash discount originally offered may be taken as if no delay in payment had occurred.

(c) **Reimbursement of Costs Incurred** The Contractor agrees to reimburse the County and/or Authorized User promptly for any and all additional costs and expenses incurred for acquiring acceptable services, and/or replacement Product. Should the cost of cover be less than the contract price, the Contractor shall have no claim to the difference. The Contractor covenants and agrees that in the event suit is successfully prosecuted for any default on the part of the Contractor, all costs and expenses expended or incurred by the County or Authorized User in connection therewith, including reasonable attorneys fees, shall be paid by the Contractor.

Where the Contractor fails to timely deliver pursuant to the guaranteed delivery terms of the contract, the Purchasing Agent may authorize an ordering Authorized User to rent substitute equipment temporarily. Any sums expended for such rental shall, upon demand, be reimbursed to the Authorized User promptly by the Contractor or deducted by the Authorized User from payments due or to become due the Contractor on the same or another transaction.

(d) **Deduction / Credit** Sums due as a result of these remedies may be deducted or offset by the County or Authorized User from payments due, or to become due, the Contractor on the same or another transaction. If no deduction or only a partial deduction is made in such fashion the Contractor shall pay to the County or Authorized User the amount of such claim or portion of the claim still outstanding, on demand. The Purchasing Agent reserves the right to determine the disposition of any rebates, settlements, restitution, liquidated damages, etc. which arise from the administration of the contract.

**65. ASSIGNMENT OF CLAIM** Contractor hereby assigns to the County any and all its claims for overcharges associated with this contract which may arise under the antitrust laws of the United States, 15 U.S.C. Section 1, *et seq.* and the antitrust laws of the State of New York, *General Business Law* Section 340, *et seq.*

**66. TOXIC SUBSTANCES** Each Contractor furnishing a toxic substance as defined by Section 875 of the *Labor Law*, shall provide such Authorized User with not less than two copies of a material safety data sheet, which sheet shall include for each such substance the information outlined in Section 876 of the *Labor Law*.

Before any chemical product is used or applied on or in any building, a copy of the product label and Material Safety Data Sheet must be provided to and approved by the user agency representative.

**67. INDEPENDENT CONTRACTOR** It is understood and agreed that the legal status of the Contractor, its agents, officers and employees under this Contract is that of an independent contractor, and in no manner shall they be deemed employees of the County or Authorized User, and therefore are not entitled to any of the benefits associated with such employment. The Contractor agrees, during the term of this contract, to maintain at Contractors expense those benefits to which its employees would otherwise be entitled by law, including health benefits, and all necessary insurance for its employees, including workers compensation, disability and unemployment insurance, and to provide the Authorized User with certification of such insurance upon request. The Contractor remains responsible for all applicable federal, state and local taxes, and all FICA contributions.

**68. SECURITY / CONFIDENTIALITY** Contractor warrants, covenants and represents that it will comply fully with all security procedures of the County and any Authorized User(s) in performance of the Contract.

Contractor further warrants, covenants and represents that any confidential information obtained by Contractor, its agents, subcontractors, officers, or employees in the course of performing its obligations, including without limitation, security procedures, business operations information, or commercial proprietary information in the possession of the County or any Authorized User hereunder or received from another third party, will not be divulged to any third parties. Contractor shall not be required to keep confidential any such confidential material which is publicly available through no fault of Contractor, independently developed by Contractor without reliance on confidential information of the County or Authorized User, or otherwise obtained under the Freedom of Information Act or other applicable New York State Laws and Regulations. This warranty shall survive termination of this Contract for a period of five (5) years. Contractor further agrees to take appropriate steps to instruct its personnel, agents, officers and any subcontractors regarding the obligations arising under this clause to insure such confidentiality.

**69. COOPERATION WITH THIRD PARTIES** The Contractor shall be responsible for fully cooperating with any third party agents, including but not limited to subcontractors of the Authorized User, relating to delivery of product or coordination of services.

**70. CONTRACT TERM - EXTENSION** In addition to any stated renewal periods in the Contract, any contract or unit portion thereof let by the Purchasing Agent may be extended by the Purchasing Agent for an additional period(s) of up to one year (cumulatively) with the written concurrence of the Contractor.

**71. WARRANTIES & GUARANTEES** Contractor hereby warrants and guarantees:

- (a) To fully defend, indemnify and save harmless the County, Authorized Users and their respective officers, agents and employees from suits, actions, damages and costs of every name and description arising out of the acts or omissions of Contractor, its officers, employees,

subcontractors, partners, or agents, in any performance under this contract including: i) personal injury, damage to real or personal tangible or intangible property, without limitation; ii) negligence, either active or passive, without limitation, or iii) infringement of any law or of a United States Letter Patent with respect to the Products furnished, or of any copyright, trademark, trade secret or other third party intellectual proprietary rights, without limitation, provided that the County or Authorized User shall give Contractor: (a) prompt written notice of any action, claim or threat of infringement suit, or other suit, promptness of which shall be established by Authorized User upon the furnishing of written notice and verified receipt, (b) the opportunity to take over, settle or defend such action, claim or suit at Bidders sole expense, and (c) assistance in the defense of any such action at the expense of Contractor. Where a dispute or claim arises relative to a real or anticipated infringement, the County or Authorized User may require Bidder/Contractor, at its sole expense, to submit such information and documentation, including formal patent attorney opinions, as the Purchasing Agent shall require.

**(b)** Contractor warrants full ownership, clear title free of all liens, or perpetual license rights to any Products transferred to Authorized User under this Contract, and Contractor shall be solely liable for any costs of acquisition associated therewith without limitation. Contractor warrants that Authorized User will have undisturbed, peaceful use of the Products, including, without limitation, software, object or source codes, custom programming or third party intellectual property rights incorporated or embedded therein, and training modules or Documentation. Contractor fully indemnifies the County and Authorized User for any loss, damages or actions arising from a breach of said warranty without limitation.

**(c)** To pay, at its sole expense, all applicable permits, licenses, tariffs, tolls and fees and give all notices and comply with all laws, ordinances, rules and regulations of any governmental entity in conjunction with the performance of obligations under the contract.

**(d)** Unless recycled or recovered materials are available in accordance with the "Recycled & Recovered Materials" clause, Product offered shall be standard new equipment, current model of regular stock product with all parts regularly used with the type of equipment offered; and no attachment or part has been substituted or applied contrary to the manufacturers recommendations and standard practice. Every Product, including any substituted or replacement unit delivered, must be guaranteed against faulty material and workmanship for a period of one year from and after the date the unit is accepted unless otherwise specified by the County or Authorized User. Notwithstanding the foregoing, when the manufacturers standard guarantee for Product or any component thereof exceeds one year, the longer guarantee period shall apply to such unit or component thereof delivered under this contract. Furthermore, the Contractor agrees to extend its warranty period with regard to any Product delivered by the cumulative periods of time, after notification, during which the Product requires servicing or replacement (down time) or is in the possession of the Contractor, its agents, officers or employees. If during the regular or extended warranty periods faults develop, the Contractor shall promptly repair or, upon demand, replace the defective unit or component part affected. All costs for labor and material and transportation incurred to repair or replace defective goods during the warranty periods shall be borne solely by the Contractor, and the County or Authorized User shall in no event be liable or responsible therefore. This warranty shall survive any termination of the contract in accordance with the warranty term.

**(e)** Where the provision of services requires the replacement or repair of Product, any replaced or repaired component, part or Product shall be new and shall, if available, be replaced by the original manufacturers component, part or Product. All proposed substitutes for the original manufacturers installed Product must be approved by the Authorized User before installation. The Product or part shall be equal to or of better quality than the original Product being replaced. Any Product replaced by the Contractor under the contract shall be guaranteed for one (1) year from the date of replacement and replaced at no cost to the Authorized User if found defective during that time.



(f) Prior to award and during the Contract term and any renewals thereof, Contractor must establish to the satisfaction of the Purchasing Agent that it meets or exceeds all requirements of the bid and any applicable laws, including but not limited to, permits, insurance coverage, licensing, proof of coverage for workman's compensation, and shall provide such proof as required by the Purchasing Agent. Failure to do so may constitute grounds for the County to cancel or suspend this contract, in whole or in part, or to take any other action deemed necessary by the Purchasing Agent.

The Contractor further warrants and guarantees:

- i. His/Her/Its products against defective material or workmanship and to repair or replace any damages or marring occasioned in transit.
- ii. To furnish adequate protection from damage for all work and repair damages of any kind for which he or his workmen are responsible, to the building or equipment, to his own work, or to the work of other successful bidders.
- iii. To carry adequate insurance to protect the County from loss in case of accident, fire, theft, etc.
- iv. That all deliveries will be equal to the accepted bid sample.
- v. That the equipment delivered is standard, new, latest model of regular stock product or as required by the specifications; also that no attachment or part has been substituted or applied contrary to manufacturer's recommendations and standard practice. Every unit delivered must be guaranteed against faulty material and workmanship for a period of at least one year from date of delivery. If during this period such faults develop, the successful bidder agrees to replace the unit or the part affected without cost to the County. Any merchandise provided under the contract which is or becomes defective during the guarantee period shall be replaced by the successful bidder free of charge with the specific understanding that all replacements shall carry the same guarantee as the original equipment. The successful bidder shall make any such replacement immediately upon receiving notice from the County.
- vi. That all manufacturers product warranties and guarantees shall be furnished to the County, and that the County's rights thereunder shall not be in any way impaired or limited.

## **72. YEAR 2000 WARRANTY The following Year 2000 warranty applies to procurements of:**

- A) Product**, including: i) equipment incorporating embedded software or other technology (e.g. copiers, elevators, security systems), ii) software, or iii) other technology; or
- B) Services** including: i) consulting, integration, code or data conversion ii) maintenance or support services, iii) data entry or processing, or iv) contract administration services (e.g. billing, invoicing, claim processing).

This Year 2000 Warranty shall survive beyond termination or expiration of the Contract through: a) one year, b) December 31, 2000, or c) the Contractor or Third Party Manufacturers stated Year 2000 warranty term, whichever is longer. Nothing in this warranty statement shall be construed to limit any rights or remedies otherwise available under this Contract for breach of warranty.

**(a) Definitions** For purposes of this warranty, the following definitions shall apply:

- i. **"Product"** shall include, without limitation: any piece or component of equipment, hardware, firmware, middleware, custom or commercial software, or internal

components or subroutines therein which perform any date/time data recognition function, calculation, comparing or sequencing. Where services are furnished (e.g., maintenance, consulting, systems integration, code or data conversion, data entry) the term "Product" shall include resulting deliverables.

ii. **"Contractors Product"** shall include all Product delivered under this Contract by Contractor other than Third Party Products.

iii. **"Third Party Product"** shall include product manufactured or developed by a corporate entity independent from Contractor and provided by Contractor on a non-exclusive licensing or other distribution agreement with the third party manufacturer. "Third Party Product" does not include product where Contractor is: (a) a corporate subsidiary or affiliate of the third party manufacturer/developer; and/or (b) the exclusive re-seller or distributor of product manufactured or developed by said corporate entity.

(b) **Warranty Disclosure** At the time of bid for individual or agency specific contracts, or at the time of ordering Product or Product quote for Essex County centralized contracts, Contractor must disclose in writing to Authorized User:

i. **For Contractor Product and Products (including, but not limited to, Contractor and/or Third Party Products and/or Authorized Users Installed Products) which have been specified to perform as a system:** Compliance or non-compliance of the Products individually and as a system with the Warranty set forth below; and

ii. **For Third Party Product not specified to perform as part of a system:** compliance on the grounds that the Contractor has passed-through the third party manufacturer Year 2000 Warranty or non-compliance based upon the fact that a) Contractor indicates that they can not pass through the third party manufacturers Year 2000 Warranty or b) there is no third party manufacturers Year 2000 Warranty to pass through.

**NOTE: AN ABSENCE OR FAILURE TO FURNISH THE REQUIRED WRITTEN WARRANTY DISCLOSURE SHALL BE DEEMED A STATEMENT OF COMPLIANCE BY THE CONTRACTOR OF THE PRODUCT(S) OR SYSTEM(S) IN QUESTION WITH THE YEAR 2000 WARRANTY STATEMENT SET FORTH BELOW.**

(c) **Year 2000 Warranty** Year 2000 Warranty "compliance" shall be defined in accordance with the following warranty statement:

**Warranty Statement:** Contractor warrants that Product(s) furnished pursuant to this Contract shall, when used in accordance with the Product documentation, be able to accurately process date/time data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000, including leap year calculations. Where a purchase requires that specific Products must perform as a package or system, this warranty shall apply to the Products as a system.

In the event of any breach of this warranty, Contractor shall restore the Product to the same level of performance as warranted herein, or repair or replace the Product with conforming Product so as to minimize interruption to Authorized Users ongoing business processes, time being of the essence, at Contractors sole cost and expense. This warranty does not extend to correction of Authorized Users errors in data entry or data conversion.

(d) **YEAR 2000 Warranty on Services** Where Contractor is providing ongoing services,

including but not limited to: i) consulting, integration, code or data conversion ii) maintenance or support services, iii) data entry or processing, or iv) contract administration services (e.g. billing, invoicing, claim processing), in addition to the foregoing Year 2000 warranty on service deliverables, Contractor warrants that services shall be provided in an accurate and timely manner without interruption, failure or error due to the inaccuracy of Contractor's business operations in processing date/time data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000, including leap year calculations. Contractor shall be responsible for damages resulting from any delays, errors or untimely performance resulting therefrom, including but not limited to the failure or untimely performance of such services.

## **GENERAL**

**73. APPLICABILITY** In addition to the terms contained in **Part I (General - All Procurements)**, the terms contained in **Part II (Software & Technology Procurements)** apply to software and technology procurements.

### **74. DEFINITIONS - Part II**

**DOCUMENTATION** The complete set of manuals (e.g. user, installation, instruction or diagnostic manuals) in either hard or electronic copy, necessary to enable an Authorized User to properly test, install, operate and enjoy full use of the Product in accordance with the license rights.

**ENTERPRISE** The business operations in the United States of a Licensee or Enterprise Participant, without regard to geographic location where such operations are performed or the entity actually performing such operations on behalf of Licensee or Enterprise Participant. For the County of New York, "business operations" shall be defined as the business operations of all Agencies, as defined in Part I.

**ENTERPRISE LICENSE** A contract which grants Enterprise Participants unlimited license rights to access, use and/or execute Product within the Enterprise.

**ENTERPRISE PARTICIPANTS** One or more Licensees, as defined in Part I, participating in an Enterprise License.

**LICENSE EFFECTIVE DATE** The date Product is delivered to an Authorized User. Where a License involves Licensees right to copy a previously licensed and delivered Master Copy of a Program, the license effective date for additional copies shall be deemed to be the date on which the Purchase Order is executed.

**LOGICAL PARTITION** A subset of the processing power within a CEC which has been divided through hardware and/or software means (i.e. *Processor Resources/System Manager [PR/SM]*) so as to limit the total processing power which is accessible by an operating system image by individual users or individual software products.

**OBJECT CODE** The machine executable code that can be directly executed by a computer's central processing unit(s).

**PHYSICAL PARTITION** A subset of the processing power within a CEC which has been derived through hardware means so as to limit the total processing power accessible by an operating system image by individual users or individual Products.

**SITE** The location (street address) where Product will be executed.

**SOURCE CODE** The programming statements or instructions written and expressed in any language

understandable by a human being skilled in the art which are translated by a language compiler to produce executable machine Object Code.

**TERMS OF LICENSE** The terms and conditions set forth in the Contract which are in effect and applicable to a Product order at the time of order placement, and only such additional terms as are consistent therewith or more advantageous to the Authorized User as are set forth on the individual Product order form executed and approved by both Authorized User and Contractor.

**VIRUS** Any computer code, whether or not written or conceived by Contractor, which disrupts, disables, harms, or otherwise impedes in any manner the operation of the Product, or any other associated software, firmware, hardware, or computer system (such as local area or wide-area networks), including aesthetic disruptions or distortions, but does not include security keys or other such devices installed by Product manufacturer.

## **TERMS AND CONDITIONS**

**75. SOFTWARE LICENSE GRANT** *Unless otherwise set forth in the Bid Specifications or Contract, where Product is acquired on a licensed basis the following shall constitute the license grant:*

(a) **License Scope** Licensee is granted a non-exclusive, perpetual license to use, execute, reproduce, display, perform, or merge the Product with other product within its business enterprise in the United States. Licensee shall have the right to use and distribute modifications or customizations of the Product to and for use by any Authorized Users otherwise licensed to use the product, provided that any modifications, however extensive, shall not diminish manufacturers proprietary title or interest. No license, right or interest in any trademark, trade name, or service mark is granted hereunder.

(b) **License Term** The license term shall commence upon the License Effective Date. Where the terms of license permit licensing on a non-perpetual basis, the license term stated in the Contract shall be extended by the time periods allowed for testing and acceptance.

(c) **Licensed Documentation** Contractor hereby grants to Licensee a perpetual license right to make, reproduce (including downloading electronic copies of the Product) and distribute, either electronically or otherwise, copies of Product Documentation as necessary to enjoy full use of the Product. If commercially available, Licensee shall have the option to require the Contractor to deliver, at Contractors expense: a) One (1) hard copy and One (1) Master Electronic Copy of the Documentation in diskette or CD-ROM format; or b) hard copies of the Product Documentation by type of license in the following amounts, unless otherwise mutually agreed:

- Individual/Named User License – 1 copy per License
- Concurrent Users – 8 copies per site
- Processing Capacity – 8 copies per site

(d) **Product Use** Product may be accessed, used, executed, reproduced, displayed, performed by Licensee to service all Authorized Users of the machine on which Product is installed, up to the capacity measured by the applicable licensing unit stated in the terms of license (i.e. payroll size, number of employees, CPU, MIPS, MSU, concurrent user, workstation).

(e) **Permitted License Transfers** As Licensee's business operations may be altered, expanded or diminished, licenses granted hereunder may be transferred or combined for use at an alternative or consolidated Authorized User site not originally specified in the license, including transfers between Agencies ("permitted license transfers"). Licensee(s) do not have to obtain the approval of Contractor for permitted license transfers, but must give thirty (30) days

prior written notice to Contractor of such move(s) and certify in writing that the Product is not in use at the prior site. There shall be no additional license or other transfer fees due Contractor, provided that: i) the maximum capacity of the consolidated machine is equal to the combined individual license capacity of all licenses running at the consolidated or transferred site. (e.g., named users, seats, or MIPS); and ii) that, if the maximum capacity of the consolidated machine is greater than the individual license capacity being transferred, a logical or physical partition or other means of restricting access will be maintained within the computer system so as to restrict use and access to the Product to that unit of licensed capacity solely dedicated to beneficial use for Licensee.

**(f) Restricted Use By Outsourcers / Facilities Management, Service Bureaus / or Other Third Parties** Outsourcers, facilities management or service bureaus retained by Licensee shall have the right to use the Product to maintain Licensee's business operations, including data processing, for the time period that they are engaged in such activities, provided that: 1) Licensee gives notice to Contractor of such party, site of intended use of the Product, and means of access; and 2) such party has executed, or agrees to execute, the Product manufacturers standard nondisclosure or restricted use agreement which executed agreement shall be accepted by the Contractor ("NonDisclosure Agreement"); and 3) if such party is engaged in the business of facility management, outsourcing, service bureau or other services, such third party will maintain a logical or physical partition within its computer system so as to restrict use and access to the program to that portion solely dedicated to beneficial use for Licensee. In no event shall Licensee assume any liability for third partys compliance with the terms of the Non-Disclosure Agreement, nor shall the Non-Disclosure Agreement create or impose any liabilities on the County or Licensee.

Any third party with whom a Licensee has a relationship for a state function or business operation, shall have the temporary right to use Product (using, for example, but not limited to, JAVA Applets), provided that such use shall be limited to the time period during which the third party is using the Product for the stated function or business activity.

**(g) Archival Back-Up and Disaster Recovery** Licensee may use and copy the Product and related Documentation in connection with: 1) reproducing a reasonable number of copies of the Product for archival backup and disaster recovery procedures in the event of destruction or corruption of the Product or disasters or emergencies which require Licensee to restore backup(s) or to initiate disaster recovery procedures for its platform or operating systems; 2) reproducing a reasonable number of copies of the Product and related documentation for cold site storage. "Cold Site" storage shall be defined as a restorable back-up copy of the Product not to be installed until and alter the declaration by the Licensee of a disaster; 3) reproducing a back-up copy of the Product to run for a reasonable period of time in conjunction with a documented consolidation or transfer otherwise allowed under paragraph (F) above. "Disaster Recovery" shall be defined as the installation and storage of Product in ready-to-execute, back-up computer systems prior to disaster or breakdown which is not used for active production or development.

**(h) Confidentiality Restrictions** The Product is a trade secret and proprietary product. Licensee and its employees will keep the Product strictly confidential, and Licensee will not disclose or otherwise distribute or reproduce any Product to anyone other than as authorized under the terms of license. Licensee will not remove or destroy any proprietary markings of Contractor.

**(i) Restricted Use by Licensee** Except as expressly authorized by the terms of license, Licensee shall not:

- a. Copy the Product;

- b. Cause or permit reverse compilation or reverse assembly of all or any portion of the Product;
- c. Distribute, disclose, market, rent, lease or transfer to any third party any portion of the Product or the Documentation, or use the Product or Documentation in any service bureau arrangement;
- d. Disclose the results of Product performance benchmarks to any third party who is not an Authorized User without prior notice to Contractor;
- e. Export the Licensed Software in violation of any U.S. Department of Commerce export administration regulations.

**76. ENTERPRISE LICENSE OPTION FOR SOFTWARE** Multiple Authorized Users may license any Product offered under the Contract on behalf of their collective business operations. An Enterprise License shall incorporate the terms set forth in this Part II and the pricing set forth in the Contract, and additionally the following terms:

**(a) Enterprise – Defined** Any Authorized User may be an Enterprise Participant. Enterprise Participants will be enumerated in the Enterprise License, including: i) contact name, ship to and main billing address of each Enterprise Participant, ii) street address of the included End User sites of each Enterprise Participant. The originally defined Enterprise may be modified at any time thereafter, including deletion or addition of Enterprise Participants, sites ownership to locations, provided that Contractor is given written notice and that any additional capacity required by such addition is licensed in accordance with the Enterprise License terms.

**(b) Product Use** Product licensed under this Enterprise Option shall be licensed with the rights set forth in this Part II, without reference to a specific designated system or Licensee, up to the maximum licensed capacity. Product may be used and freely transferable anywhere within the defined Enterprise, including higher or lower performance machines, and Enterprise Participants will not incur an increase in license, support or other charges provided that the aggregate utilization of the Product does not exceed the aggregate Enterprise Licensed capacity.

**(c) Submission of Orders, Billing and Usage Reporting** An Enterprise may be established for order placement and billing as either a “single” or “multiple” point of contact, at Licensees option. Where designated as a “single”, one Enterprise Participant shall be designated as the lead agency and central point for submission of Purchase Orders, usage reporting and billing. Where designated as “multiple” point of contact, each designated Enterprise Participant shall be responsible for submission of Purchase Orders, reporting and billing with regard to its use of Enterprise Licensed Product. For either single or multiple point of contact Enterprises, a) Contractor agrees to hold each Enterprise Participant solely responsible for payment and performance; and b) Contractor shall be responsible for furnishing an annual report to each designated point of contact summarizing overall Enterprise License activity for the preceding twelve months.

**(d) Shipping / Delivery** Contractor shall be responsible for delivery of Master Copies of Enterprise Licensed Product and documentation to Enterprise Participants. Within either “Single” or “Multiple” Enterprise Licenses, shipping and delivery of Master Copies of Product and Documentation shall be the responsibility of Contractor to each “ship to” location specified on the Purchase Order(s). Distribution and installation of Enterprise Licensed Product to End Users at a site shall be the responsibility of the Licensee.

**(e) Enterprise Operating Systems** Unless otherwise specified by the parties, up to ten (10) hardware/operating system combinations for Product shall be included at no additional charge.

The initial ten hardware/operating systems may be specified at any time within five (5) years of the Enterprise License effective date. Additional hardware/operating systems beyond the initial ten (10) may be specified at anytime by the Enterprise, however if additional copies of Product are required for hardware/operating systems beyond the initial ten, the cost for such systems will be as mutually agreed between the parties.

**(f) Product Acceptance** Each Enterprise Participant shall have a right of acceptance, as set forth above in this Part II, only for the first copy of Product for its site(s).

**(g) Enterprise Fees** Enterprise License Fees shall be set forth in the Contract. Notwithstanding the foregoing, the Product license fees for additional copies or units of capacity for Enterprise licensed Product shall not increase by more than six percent (6%) annually each year during the Enterprise License term. Contractor may offer additional discounts/incentives for Enterprise Participants as may be mutually agreed between the parties. Enterprise Participants shall be entitled to aggregate the volume of all Enterprise Participants for purposes of establishing any applicable discounts under the Contract, and Enterprise Licensed Volume shall be aggregated with volume of non-Enterprise Licensed Product otherwise purchased under the centralized Contract. Upon termination of the Enterprise, Enterprise Participants have the right to acquire additional capacity or users at the Enterprise License price for twelve months after the termination of the Enterprise License.

**(h) Technical Support** Unless otherwise mutually agreed, technical support is optional and may be elected individually by Product by each Enterprise Participant. Where an Enterprise Participant is under a current maintenance or technical support contract, such Enterprise Participant shall be entitled to credit any support paid covering any portion of the Enterprise License Term to the fees due under the Enterprise license.

Enterprise Participants shall have the right to partially or wholly de-support a subset of unused Enterprise licensed capacity upon written notice to Contractor at the end of any then - current technical support term without penalty or charge. The capacity for a Program license which has been de-supported must remain inactive and may not be used within the Enterprise unless technical support for such capacity has been reinstated. In the event of de-support, Contractor reserves the right to reasonably determine compatibility of future releases or new programs prior to shipment.

**(i) Merger of Two or More Enterprises** Two or more Enterprises may be merged to form a larger Enterprise for the purpose of sharing and exchanging data at no additional license fee provided that participants give Contractor notice of such merger and that the combined capacity does not exceed the maximum capacity of the individual licenses.

**(j) "Nested" Enterprises** Individual Enterprise License participant(s) may license additional capacity or products for the specific use of a subset of the larger enterprise. Said participant(s) must certify in writing to Contractor that such use is only by the enumerated subset of participants.

**(k) Default** A default by any Enterprise Participant shall entitle the Contractor to the remedies against such participant under the Contract, but shall not be deemed a default by the remaining non-defaulting Enterprise Participants.

**77. PRODUCT ACCEPTANCE** Unless otherwise provided in the Bid Specifications, the County and/or Authorized User(s) shall have sixty (60) days from delivery to accept Product. Failure to provide notice of acceptance or rejection by the end of the period provided for under this clause would constitute acceptance by the County or Authorized User(s) as of the expiration of that period.

Unless otherwise provided in the Bid Specifications, The County or Authorized User shall have



the option to run acceptance testing on the Product prior to acceptance, such tests and data sets to be specified by User. Where using its own data or tests, The County or Authorized User must have the tests or representative set of data available upon delivery. This demonstration will take the form of a documented installation test, capable of observation by the County or Authorized User, and shall be made part of the Contractors standard documentation. The test data shall remain accessible to the County or Authorized User after completion of the test.

In the event that the documented installation test cannot be completed successfully within sixty (60) days from delivery, and the Contractor or Product is responsible for the delay, The County or Authorized User shall have the option to cancel the order in whole or in part, or to extend the testing period for another sixty (60) day increment. The County or Authorized User shall notify Contractor of acceptance upon successful completion of the documented installation test. Such cancellation shall not give rise to any cause of action against the County or Authorized User for damages, loss of profits, expenses, or other remuneration of any kind.

Costs and liabilities associated with a failure of the Product to perform in accordance with the functionality tests or product specifications during the acceptance period shall be borne fully by Contractor to the extent that said costs or liabilities shall not have been caused by negligent or willful acts or omissions of the The County or Authorized Users agents or employees. Said costs shall be limited to fees paid to Contractor, if any, or any liability for costs incurred at the direction or recommendation of Contractor.

**78. AUDIT OF LICENSED PRODUCT USAGE** Contractor shall have the right to periodically audit, at its expense, use of licensed Product at any site where a copy of the Product resides provided that: i) Contractor gives Licensee or Enterprise Participants at least thirty (30) days advance notice, ii) such audit is conducted during such party's normal business hours iii) each Licensee or Enterprise Participant is entitled to designate a representative who shall be entitled to participant and simultaneously review all information obtained by the audit, and shall be entitled to copies of all reports, data or information obtained by the Contractor; and iv) if the audit shows that such party is not in compliance such party shall be liable for the unlicensed capacity and shall be required to purchase the additional units or rights necessary to bring it into compliance.

**79. OWNERSHIP / TITLE TO CUSTOM PRODUCTS OR PROGRAMMING** Where contract deliverables include custom products or programming, title, rights and interests to such Product(s) shall be determined as follows:

**(a) Definitions**

**Product** For purposes of this section, the term "Product" shall have the meaning set forth in Part I of these *General Specifications*, which includes, but is not limited to: software applications or programming, programming tools, documentation ~including user or training manuals), modules, interfaces, templates, and other elements such as utilities, subroutines, algorithms, formulas, source code, object code, reports, drawings, or data.

**"Existing Product"** is defined as any proprietary material(s) existing or developed independently and not at the expense of Licensee.

**"Custom Product"** is defined as any material(s), exclusive of Existing Product, created, prepared, written, compiled or developed by Contractor, or anyone acting on his behalf for The County or Authorized User pursuant to the Contract.

**(b) Contractor or Third Party Manufacturers Title to Existing Product** Title to Existing Product(s) does not transfer. With respect to such Existing Product(s), whether embedded in or operating in conjunction with Custom Product, Contractor warrants: a) all right, title and interest in Contractors Existing Product(s); or b) all license rights, title and interest in third party Existing

Product(s), which include the right to grant to The County or Authorized User an irrevocable, non-exclusive, worldwide, paid-up license to use, execute, reproduce, display, perform, and distribute Existing Product(s). Contractor hereby grants a irrevocable, non-exclusive, worldwide, paid-up license to use, execute, reproduce, display, perform, and distribute Existing Product(s) embedded in or transferred for use in conjunction with Custom Product(s). The Licensee agrees to reproduce the copyright notice and any other legend of ownership on any copies made under the license granted under this paragraph prior to distribution or use.

**(c) Title to Custom Product** Title to Custom Product(s), excluding Existing Product, shall be deemed the sole and exclusive property of the County or Authorized User, who shall have all right, title and interest (including ownership and copyrights). For the purposes of the federal copyright law, execution of this contract shall constitute an assignment of all right, title and interest in the Custom Product(s) by Contractor to the County or Authorized User. The County or Authorized User, in its sole discretion, reserves the right to sell Custom Product or to license them on an exclusive or non-exclusive basis to Contractor or other Third Parties. Contractor hereby agrees to take all necessary and appropriate steps to ensure that Custom Product is protected against unauthorized use, execution, reproduction, display, performance, or distribution by or through Contractor, its partners or agents. Notwithstanding this reservation of title, Contractor shall not be precluded from using the related or underlying general knowledge, skills and experience developed in the course of providing the Custom Product in the course of Contractor's business.

**(d) Acquisitions Funded By Tax Exempt Financing** In addition to the foregoing rights under a, b and c, the sale or licensing of Custom Product or rights therein shall not occur until such Product or rights are or become useable, and shall be at fair market value which shall be determined at the time of sale or licensing. Any such transfer shall be pursuant to a separate written agreement. If the Contract deliverables are to be funded through tax exempt financing, the County or Authorized User may assign to a Trustee or other entity for security purposes County or Authorized Users ownership and license rights in Custom and Existing Products. Contractor will cooperate with the County or Authorized User to execute such other documents as may be appropriate to achieve the objectives of this paragraph.

**(e) Other Acquisitions (Not Funded by Tax Exempt Financing)** In addition to the rights set forth above (paragraphs "a", "b" and "c"), the County or Authorized User reserves the right to transfer any or all rights to Custom Materials on an exclusive or non-exclusive basis. Where such transfer (sale or licensing) is provided in the Bid Specifications, Contractor shall include a purchase price for such rights in its bid. Such price shall be offered as a deduction from Contractor's overall Bid or Project Bid price, and shall be weighted as set forth in the bid evaluation criteria, if any. Such rights shall transfer to the successful Bidder/Contractor upon successful completion and acceptance by the County or Authorized User of all contract deliverables. Contractor will cooperate with the County or Authorized User to execute such other documents as may be appropriate to achieve the objectives of this paragraph.

**80. PROOF OF LICENSE** The Contractor must provide to each Licensee who places a Product order either: a) the Product manufacturer's certified License Confirmation Certificates in the name of each such Licensee; or b) a written confirmation from the Product manufacturer accepting Contractors Product invoice as proof of license. Bidder or Contractor shall submit a sample manufacturers certificate, or alternatively such written confirmation from the manufacturer, with the Bid or Contract. Such certificates must be in a form acceptable to the Licensee.

**81. PRODUCT VERSION** Product orders shall be deemed to reference Manufacturers most recently released model or version of the Product at time of delivery, unless an earlier model or version is specifically requested in writing by the County or Authorized User and Contractor is willing to provide such version.

**82. MIGRATION TO CENTRALIZED CONTRACT** The County or Authorized User may obtain

additional Product authorized under this contract, (e.g., licensed capacity upgrades, new releases, documentation, maintenance, consulting or training) whether or not Product was initially obtained independently of this contract. The County or Authorized Users election to obtain additional Product shall not operate to diminish, alter or extinguish rights previously granted.

**83. NOTICE OF PRODUCT DISCONTINUANCE** In the event that a Product manufacturer proposes to discontinue maintenance or support for Product, Contractor shall (1) notify the County and each Authorized User in writing of the intended discontinuance, and (2) continue to provide maintenance and support for the greater of: a) the best terms offered by Contractor to any other customer, or b) not less than eighteen (18) months from the date of notice, and (3) at The County or Authorized Users option, either a) provided that the County or Authorized User is under maintenance, provide the County or Authorized User with either a Product replacement with equivalent functionality at no additional charge, or b) provide County or Authorized User with the source code for Licensed Product at no additional charge to enable it to continue use and maintenance of the Product.

**84. REINSTATEMENT OF MAINTENANCE** The County or Authorized User shall not be required to purchase maintenance for use of Product, and may discontinue maintenance at the end of any current maintenance term upon written notice to Contractor. In the event that The County or Authorized User discontinues maintenance of licensed Product, it may, at any time thereafter, reinstate maintenance for Product without any additional penalties or other charges, by paying Contractor at rates which would have been due under the contract for the period of time that such maintenance had lapsed, or for twelve months, whichever is less.

**85. NO HARDSTOP / PASSIVE LICENSE MONITORING** Contractor hereby represents, warrants and covenants that the Product and all Upgrades do not and will not contain any computer code that would disable the Product or Upgrades or impair in any way its operation based on the elapsing of a period of time, exceeding an authorized number of copies, advancement to a particular date or other numeral, or other similar self-destruct mechanisms (sometimes referred to as "time bombs", "time locks", or "drop dead" devices) or that would permit Contractor to access the Product to cause such disablement or impairment (sometimes referred to as a "trap door" device). Contractor agrees that in the event of a breach or alleged breach of this provision that The County or Authorized User shall not have an adequate remedy at law, including monetary damages, and that The County or Authorized User shall consequently be entitled to seek a temporary restraining order, injunction, or other form of equitable relief against the continuance of such breach, in addition to any and all remedies to which The County or Authorized User shall be entitled.

**86. ADDITIONAL WARRANTIES / GUARANTEES** Where Contractor or Product manufacturer offers additional or more advantageous warranties than set forth herein, Contractor shall offer or pass through any additional or more advantageous warranties to The County or Authorized Users. In addition to the "Warranties/Guarantees" set forth in Part I, Contractor makes the following warranties.

**(a) Product Performance Warranty** Contractor represents and warrants that the Products delivered pursuant to this contract conform to the manufacturers specifications, performance standards, and documentation and that the documentation fully describes the proper procedure for using the Products in an efficient manner. Contractor does not warrant that software is error-free.

In the event that Contractor does not remedy a substantial breach of this warranty within the cure period, Licensee shall also have the right to terminate any payments due Contractor, with a refund of the any fees prospectively paid from the date of breach.

**(b) Year 2000 Warranty** For all procurements of Product, Contractor must furnish a warranty statement in accordance with the NYS Standard Year 2000 Warranty Compliance Statement set forth in Part I at the time of bid for agency specific contracts or product order for centralized contracts.

**(c) Virus Warranty** Contractor represents and warrants that Licensed Software contains no known viruses. Bidder is not responsible for viruses introduced at Licensees site. For purposes of this provision, "Virus" shall have the meaning set forth in Part II, "Definitions".

A breach of any of the foregoing shall be deemed a material breach of the Contract or any License granted thereunder. The defaulting party shall be given written notice of a warranty breach under this section and shall have a thirty (30) day period to cure such breach.

**87. INDEMINIFICATION THE WARRANTIES SET FORTH IN THESE *GENERAL SPECIFICATIONS* (PARTS I and II) ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

Contractor shall defend, indemnify and save harmless the County and Authorized Users from suits, actions, claims, damages and costs arising under or connected to Contractors actions, and except where express loss liabilities set forth elsewhere in the Contract provide for a higher loss limitation liability than as set forth in this paragraph, or where such express provisions impose Contractor liability on "without limitation", the total liability of Contractor for such claim(s), regardless of the nature and basis for the claim, shall not exceed two (2) times the fees paid for the applicable Product. For any suit, action, claim, damages or costs arising under or are connected to personal injury or property damage, or breach of the title, patent and copyright warranties, Contractor shall be fully liable without limitation.

The County or Authorized User may retain such moneys from the amount due Contractor as may be necessary to satisfy any claim for damages, costs and the like asserted by or against the County or Authorized User, provided however, that Contractor shall not indemnify each such entity to the extent that any claim, loss or damages arising hereunder is caused by the negligence act or failure to act of said entity.

**88. SOURCE CODE ESCROW FOR LICENSED PRODUCTS** If source code or source code escrow is offered by either Contractor or Product manufacturer/developer to any other commercial customers, Contractor either: i) will provide Licensee with the Source Code for the Product; or ii) place the Source Code in a third party escrow arrangement with a designated escrow agent who shall be named and identified to the County, and who shall be directed to release the deposited Source Code in accordance with a standard escrow agreement acceptable to the County, or iii) will certify to the County that the Product manufacturer/developer has named the County, and the Licensee, as a named beneficiary of an established escrow arrangement with its designated escrow agent who shall be named and identified to the County and Licensee, and who shall be directed to release the deposited Source Code in accordance with the terms of escrow. Source Code, as well as any corrections or enhancements to such source code, shall be updated for each new release of the Product in the same manner as provided above. Contractor shall identify the escrow agent upon commencement of the contract term and shall certify annually that the escrow remains in effect in compliance with the terms of this paragraph.

The County may release the Source Code to Licensees under this Contract who have licensed Product or obtained services, who may use such copy of the Source Code to maintain the Product.

CERTIFICATION OF EXPERIENCE

I, \_\_\_\_\_ HEREBY CERTIFY THAT (COMPANY \_\_\_\_\_  
\_\_\_\_\_ HAS PERFORMED THE FOLLOWING WORK  
WITHIN THE LAST THREE YEARS:

NAMES OF BUSINESS: \_\_\_\_\_ CONTACT NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

AMOUNT OF CONTRACT: \_\_\_\_\_ TELEPHONE NO.: \_\_\_\_\_

TYPE OF WORK: \_\_\_\_\_ FAX NO.: \_\_\_\_\_

-----  
NAMES OF BUSINESS: \_\_\_\_\_ CONTACT NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

AMOUNT OF CONTRACT: \_\_\_\_\_ TELEPHONE NO.: \_\_\_\_\_

TYPE OF WORK: \_\_\_\_\_ FAX NO.: \_\_\_\_\_

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NAMES OF BUSINESS: \_\_\_\_\_ CONTACT NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

AMOUNT OF CONTRACT: \_\_\_\_\_ TELEPHONE NO.: \_\_\_\_\_

TYPE OF WORK: \_\_\_\_\_ FAX NO.: \_\_\_\_\_

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NAMES OF BUSINESS: \_\_\_\_\_ CONTACT NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

AMOUNT OF CONTRACT: \_\_\_\_\_ TELEPHONE NO.: \_\_\_\_\_

TYPE OF WORK: \_\_\_\_\_ FAX NO.: \_\_\_\_\_

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NAMES OF BUSINESS: \_\_\_\_\_ CONTACT NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

AMOUNT OF CONTRACT: \_\_\_\_\_ TELEPHONE NO.: \_\_\_\_\_

TYPE OF WORK: \_\_\_\_\_ FAX NO.: \_\_\_\_\_

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NAMES OF BUSINESS: \_\_\_\_\_ CONTACT NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

AMOUNT OF CONTRACT: \_\_\_\_\_ TELEPHONE NO.: \_\_\_\_\_

TYPE OF WORK: \_\_\_\_\_ FAX NO.: \_\_\_\_\_

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**NON-COLLUSIVE BIDDING CERTIFICATION**

1. By submission of this bid, the undersigned bidder and each person signing on behalf of such bidder certifies and in the case of a joint bid each party thereto certifies as to its own organization — UNDER PENALTY OF PERJURY, that to the best of the undersigned's knowledge and belief:

(a) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;

(b) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and

(c) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

2. The undersigned acknowledges and agrees that a bid shall not be considered for award nor shall any award be made where any of the above have not been complied with; provided however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefor. Where one or more of the above has/have not been complied with, the bid shall not be considered for award nor shall any award be made unless the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

3. The undersigned also acknowledges and agrees that the fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customers of proposed or pending publication of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of paragraph 1 above.

4. The undersigned further acknowledges and agrees that any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a bidder which is a corporation or a limited liability company for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, regulation, or local law, and where such bid contains the certification referred to in paragraph 1 of this certificate, shall be deemed to have been authorized by the board of directors of the bidder, and such authorization shall be deemed to include the signing and submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation or limited liability company.

Name of Bidder: \_\_\_\_\_  
(print full legal name)

Date Signed: \_\_\_\_\_ Signature: \_\_\_\_\_

Name of Person Signing Certificate: \_\_\_\_\_  
(print full legal name of signer)

Bidder is (check one): ☐ an individual, ☐ a limited liability partnership, ☐ a limited liability company,  
☐ other entity (specify): \_\_\_\_\_

CONTRACTOR'S ACKNOWLEDGEMENT

(If Corporation)

STATE OF NEW YORK) SS:  
COUNTY OF ESSEX)

On this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_, before me personally came \_\_\_\_\_  
\_\_\_\_\_ to me known, and known to me to be the  
\_\_\_\_\_ of the Corporation described in and which executed the within instrument,  
who being duly sworn did depose and say that he, the said \_\_\_\_\_ reside at  
\_\_\_\_\_ and that he is \_\_\_\_\_ of said  
corporation and knows the corporate seal of the said corporation; that the seal affixed to the within  
instrument is such corporate seal and that it was so affixed by order of the Board of Directors of said  
corporation, and that he signed his name thereto by like order.

\_\_\_\_\_  
Notary Public

CONTRACTOR'S ACKNOWLEDGEMENT

(If Individual)

STATE OF NEW YORK) SS:  
COUNTY OF ESSEX)

On this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_, before me personally came  
\_\_\_\_\_ to me known, and known to me to be  
the same person described in and who executed the within instrument and he duly acknowledged to  
me that he executed the same for the purpose herein mentioned and, if operating under and trade  
name, that the certificate required by the New York State Penal Law, Sections 440 and 440-b has been  
filed with the County Clerk of Essex County.

\_\_\_\_\_  
Notary Public

CONTRACTOR'S ACKNOWLEDGEMENT

(If Co-Partnership)

STATE OF NEW YORK) SS:  
COUNTY OF ESSEX)

On this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_, before me personally came  
\_\_\_\_\_ to me known, and known to me to be a member of the  
firm of and the person described in, and who executed the within instrument in behalf of said firm for  
the purposes herein mentioned and that the certificate required by the New York State Penal Law,  
Sections 440 and 440-b has been filed with the County Clerk of Essex County.

\_\_\_\_\_  
Notary Public