

REQUEST FOR PROPOSALS FOR
EVERETT FARES WAREHOUSE/OFFICE INFRASTRUCTURE CABLING

ISSUING OFFICE
PENNSYLVANIA TURNPIKE COMMISSION

**INFORMATION TECHNOLOGY, TECHNOLOGY INFRASTRUCTURE,
COMMUNICATION SYSTEMS**

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REQUEST FOR PROPOSALS FOR
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PART I

GENERAL INFORMATION FOR PROPOSERS

I-1. Purpose. This request for proposals (RFP) provides interested Proposers with sufficient information to enable them to prepare and submit proposals for consideration by the Pennsylvania Turnpike Commission (Commission) to satisfy a need for **Everett Fares Warehouse/Office Infrastructure Cabling**.

I-2. Issuing Office. This RFP is issued for the Commission by the Information Technology Department, Communications Systems.

I-3. Scope. This RFP contains instructions governing the proposals to be submitted and the material to be included therein; a description of the service to be provided; requirements which must be met to be eligible for consideration; general evaluation criteria; and other requirements to be met by each proposal.

I-4. Problem Statement. The Commission is building a new Everett Fares Warehouse/Office Facility at mile marker 154.42 eastbound, on the Pennsylvania Turnpike, at the Everett Maintenance Campus. The Fares Facility will require infrastructure cabling for work station network access, radio communications and campus network connectivity. Refer to Part IV for a detailed statement of work.

I-5. Type of Contract. It is proposed that if a contract is entered into as a result of this RFP, it will be a fixed price contract. The Commission may in its sole discretion undertake negotiations with Proposers whose proposals as to price and other factors show them to be qualified, responsible, and capable of performing the work.

I-6. Rejection of Proposals. The Commission reserves the right to reject any and all proposals received as a result of this request, or to negotiate separately with competing Proposers.

I-7. Subcontracting. Any use of subcontractors by a Proposer must be identified in the proposal. During the contract period use of any subcontractors by the selected Proposer, which were not previously identified in the proposal, must be approved in advance in writing by the Commission.

A firm that responds to this solicitation as a prime may not be included as a designated subcontractor to another firm that responds to the same solicitation. **Multiple responses under any of the foregoing situations may cause the rejection of all responses of the firm or firms involved.** This does not preclude a firm from being set forth as a designated subcontractor to more than one prime contractor responding to the project advertisement.

I-8. Incurring Costs. The Commission is not liable for any costs the Proposer incurs in preparation and submission of its proposal, in participating in the RFP process or in anticipation of award of contract.

I-9. Mandatory Pre-proposal Conference. A mandatory pre-proposal conference will be held at **10:30 a.m., April 6, 2010, at the Commission's Central Office, 700 S. Eisenhower Blvd., Middletown, PA 17057 in Conference Room 133.** The purpose of this conference is to clarify any points in the RFP, which may not have been clearly understood. Questions should be forwarded prior to the meeting to ensure sufficient analysis can be made before an answer is supplied. Written questions

should be submitted by email to RFP-Q@paturndpike.com with **RFP 10-10350-2433** in the Subject Line to be received no later than **March 31, 2010, at 12:00 PM, (Noon)**. In view of the limited facilities available for the conference, it is requested representation be limited to **2** individuals per Proposer. The pre-proposal conference is for information only. Answers furnished during the conference will not be official until verified, in writing, by the Issuing Office. All questions and written answers will be issued as an addendum to and become part of this RFP.

FAILURE TO BE REPRESENTED AND SIGNED IN AT THIS MANDATORY PRE-PROPOSAL CONFERENCE WILL BE CAUSE FOR REJECTION OF PROPOSAL.

I-10. Addenda to the RFP. If it becomes necessary to revise any part of this RFP before the proposal response date, addenda will be posted to the Commission's website under the original RFP document. It is the responsibility of the Proposer to periodically check the website for any new information or addenda to the RFP.

The Commission may revise a published advertisement. If the Commission revises a published advertisement less than ten days before the RFP due date, the due date will be extended to maintain the minimum ten-day advertisement duration if the revision alters the project scope or selection criteria. Firms are responsible to monitor advertisements/addenda to ensure the submitted proposal complies with any changes in the published advertisement.

I-11. Response. To be considered, proposals must be delivered to the Pennsylvania Turnpike Commission's Contracts Administration Department, Attention: Wanda Metzger, on or before **April 22, 2010, by 12:00 noon**. The Pennsylvania Turnpike Commission is located at 700 South Eisenhower Boulevard, Middletown, PA 17057 (Street address). Our mailing Address is P. O. Box 67676, Harrisburg, PA 17106.

Please note that use of U.S. Mail delivery does not guarantee delivery to this address by the above-listed time for submission. Proposers mailing proposals should allow sufficient delivery time to ensure timely receipt of their proposals. If the Commission office location to which proposals are to be delivered is closed on the proposal response date, due to inclement weather, natural disaster, or any other cause, the deadline for submission shall be automatically extended until the next Commission business day on which the office is open. Unless the Proposers are otherwise notified by the Commission, the time for submission of proposals shall remain the same.

I-12. Proposals. To be considered, Proposers should submit a complete response to this RFP, using the format provided in PART II. Each proposal should be submitted in **seven (7) hard** copies and **one (1) CD-ROM** to the Contract Administration Department. No other distribution of proposals will be made by the Proposer. Each proposal page should be numbered for ease of reference. Proposals must be signed by an official authorized to bind the Proposer to its provisions and include the Proposer's Federal Identification Number. For this RFP, the proposal must remain valid for at least 120 days. Moreover, the contents of the proposal of the selected Proposer will become contractual obligations if a contract is entered into.

Each and every Proposer submitting a proposal specifically waives any right to withdraw or modify it, except as hereinafter provided. Proposals may be withdrawn by written or telefax notice received at the Commission's address for proposal delivery prior to the exact hour and date specified for proposal receipt. However, if the Proposer chooses to attempt to provide such written notice by telefax transmission, the Commission shall not be responsible or liable for errors in telefax transmission. A

proposal may also be withdrawn in person by a Proposer or its authorized representative, provided its identity is made known and it signs a receipt for the proposal, but only if the withdrawal is made prior to the exact hour and date set for proposal receipt. A proposal may only be modified by the submission of a new sealed proposal or submission of a sealed modification which complies with the requirements of this RFP.

I-13. Economy of Preparation. Proposals should be prepared simply and economically, providing a straightforward, concise description of the Proposer's ability to meet the requirements of the RFP.

I-14. Discussions for Clarification. Proposers who submit proposals may be required to make an oral or written clarification of their proposals to the Issuing Office to ensure thorough mutual understanding and Proposer responsiveness to the solicitation requirements. The Issuing Office will initiate requests for clarification.

I-15. Best and Final Offers. The Issuing Office reserves the right to conduct discussions with Proposers for the purpose of obtaining "best and final offers." To obtain best and final offers from Proposers, the Issuing Office may do one or more of the following: a) enter into pre-selection negotiations; b) schedule oral presentations; and c) request revised proposals. The Issuing Office will limit any discussions to responsible Proposers whose proposals the Issuing Office has determined to be reasonably susceptible of being selected for award.

I-16. Prime Proposer Responsibilities. The selected Proposer will be required to assume responsibility for all services offered in its proposal whether or not it produces them. Further, the Commission will consider the selected Proposer to be the sole point of contact with regard to contractual matters.

I-17. Proposal Contents. Proposals will be held in confidence and will not be revealed or discussed with competitors, unless disclosure is required to be made (i) under the provisions of any Commonwealth or United States statute or regulation; or (ii) by rule or order of any court of competent jurisdiction. All material submitted with the proposal becomes the property of the Pennsylvania Turnpike Commission and may be returned only at the Commission's option. Proposals submitted to the Commission may be reviewed and evaluated by any person other than competing Proposers at the discretion of the Commission. The Commission has the right to use any or all ideas presented in any proposal. Selection or rejection of the proposal does not affect this right.

In accordance with the Pennsylvania Right-to-Know Law (RTKL), 65 P.S. § 67.707 (Production of Certain Records), Proposers shall identify any and all portions of their Proposal that contains confidential proprietary information or is protected by a trade secret. Proposals shall include a written statement signed by a representative of the company/firm identifying the specific portion(s) of the Proposal that contains the trade secret or confidential proprietary information.

Proposers should note that "trade secrets" and "confidential proprietary information" are exempt from access under Section 708(b)(11) of the RTKL. Section 102 defines both "trade secrets" and "confidential proprietary information" as follows:

Confidential proprietary information: Commercial or financial information received by an agency: (1) which is privileged or confidential; **and** (2) the disclosure of which would cause substantial harm to the competitive position of the person that submitted the information.

Trade secret: Information, including a formula, drawing, pattern, compilation, including a customer list, program, device, method, technique or process that: (1) derives independent economic value, actual or potential, from not being generally known to and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use; **and** (2) is the subject of efforts that are reasonable under the circumstances to maintain its secrecy. The term includes data processing software by an agency under a licensing agreement prohibiting disclosure.

65 P.S. §67.102 (emphasis added).

The Office of Open Records has determined that a third party must establish a trade secret based upon factors established by the appellate courts, which include the following:

- the extent to which the information is known outside of his business;
- the extent to which the information is known by employees and others in the business;
- the extent of measures taken to guard the secrecy of the information;
- the value of the information to his business and to competitors;
- the amount of effort or money expended in developing the information; and
- the ease of difficulty with which the information could be properly acquired or duplicated by others.

See Crum v. Bridgestone/Firestone North Amer. Tire., 907 A.2d 578, 585 (Pa. Super. 2006).

The Office of Open Records also notes that with regard to “confidential proprietary information the standard is equally high and may only be established when the party asserting protection shows that the information at issue is either ‘commercial’ or ‘financial’ and is privileged or confidential, and the disclosure **would** cause substantial competitive harm.” (emphasis in original).

For more information regarding the RTKL, visit the Office of Open Records’ website at www.openrecords.state.pa.us.

I-18. Debriefing Conferences. Proposers whose proposals are not selected will be notified of the name of the selected Proposer and given the opportunity to be debriefed, at the Proposer’s request. The Issuing Office will schedule the time and location of the debriefing. The Proposer will not be compared with other Proposers, other than the position of its proposal in relation to all other proposals.

I-19. News Releases. News releases pertaining to this project will not be made without prior Commission approval, and then only in coordination with the Issuing Office.

I-20. Commission Participation. Unless specifically noted in this section, Proposers must provide all services to complete the identified work. The contractor will be responsible to provide all the labor, tools, parts, installation supplies, installation equipment, including trucks and vans, test equipment and instrumentation, office supplies and generally any materials that are required to perform the services requested through the term of this contract. The Commission will not provide any physical storage space, office space or any office services to the contractor. The Commission will not supply any parts, equipment, tools or materials for this contract except the GAI-Tronics radio hardware, fiber drivers for the GAI-Tronics system and the wall mount telephone hardware.

I-21. Cost Submittal. The cost submittal shall be placed in a separately sealed envelope within the sealed proposal and kept separate from the technical submittal. **Failure to meet this requirement may result in disqualification of the proposal.**

I-22. Term of Contract. The term of the contract will commence on the Effective Date (as defined below) and will end 90 days from the date the contractor is given access to the site to begin installation of the infrastructure cabling. The Commission shall fix the Effective Date after the contract has been fully executed by the Contractor and by the Commission and all approvals required by Commission contracting procedures have been obtained.

I-23. Proposer's Representations and Authorizations. Each Proposer by submitting its proposal understands, represents, and acknowledges that:

- a. All information provided by, and representations made by, the Proposer in the proposal are material and important and will be relied upon by the Issuing Office in awarding the contract(s). Any misstatement, omission or misrepresentation shall be treated as fraudulent concealment from the Issuing Office of the true facts relating to the submission of this proposal. A misrepresentation shall be punishable under 18 Pa. C.S. 4904.
- b. The price(s) and amount of this proposal have been arrived at independently and without consultation, communication or agreement with any other Proposeor potential Proposer.
- c. Neither the price(s) nor the amount of the proposal, and neither the approximate price(s) nor the approximate amount of this proposal, have been disclosed to any other firm or person who is a Proposer or potential Proposer, and they will not be disclosed on or before the proposal submission deadline specified in the cover letter to this RFP.
- d. No attempt has been made or will be made to induce any firm or person to refrain from submitting a proposal on this contract, or to submit a proposal higher than this proposal, or to submit any intentionally high or noncompetitive proposal or other form of complementary proposal.
- e. The proposal is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive proposal.
- f. To the best knowledge of the person signing the proposal for the Proposer, the Proposer, its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last four (4) years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding or proposing on any public contract, except as disclosed by the Proposer in its proposal.
- g. To the best of the knowledge of the person signing the proposal for the Proposer and except as otherwise disclosed by the Proposer in its proposal, the Proposer has no outstanding, delinquent obligations to the Commonwealth including, but not limited to, any state tax liability not being contested on appeal or other obligation of the Proposer that is owed to the Commonwealth.
- h. The Proposer is not currently under suspension or debarment by the Commonwealth, or any other state, or the federal government, and if the Proposer cannot certify, then it shall

submit along with the proposal a written explanation of why such certification cannot be made.

- i. The Proposer has not, under separate contract with the Issuing Office, made any recommendations to the Issuing Office concerning the need for the services described in the proposal or the specifications for the services described in the proposal.
- j. Each Proposer, by submitting its proposal, authorizes all Commonwealth agencies to release to the Commission information related to liabilities to the Commonwealth including, but not limited to, taxes, unemployment compensation, and workers' compensation liabilities.

I-24. Prevailing Wage Rates. The Provisions of the Pennsylvania Prevailing Wage Act of August 15, 1961, P.L. 987 as amended, together with the rates and regulations promulgated by the Secretary of Labor and Industry, will apply to this project. The work is located in Bedford County. Refer to the attached "Prevailing Wages Project Rates" document (Appendix A) for specific wage levels as determined by the Department of Labor and Industry.

I-25. Performance/Payment Bond. When awarded the contract, prior to the execution of said contract, the selected contractor must furnish a Performance Bond, with sufficient surety or sureties, in an amount equal to 100% of the contract price. Have the bond specify that the contracted work will be completed in a manner satisfactory to the Commission. Have the bond state that the Commission is not liable for any expenses incurred through the failure to complete the work as specified, nor liable for any damages growing out of the carelessness of the Contractor, the Contractor's employees, or subcontractors. Have a corporate surety, legally authorized to transact business in the State and satisfactory to the Commission, execute the bond. The bond should be made payable to the Pennsylvania Turnpike Commission. If the Commission decides the bond surety is unsatisfactory, promptly furnish any additional required security to protect the Commission's interests and the interests of all persons, firms, or corporations who/which have furnished material, provided equipment on rental, or supplied/performed labor or services on, or in connection with, the performance of the work for this contract. Have participants in a joint venture submit a single Performance Bond, each signed by both the joint participants and by their surety. These bonds are to cover their joint and individual liability. The cost of the bond(s) shall be the responsibility of the contractor.

I-26. Insurance.

(a) General. Do not commence work under the contract until all insurance, and insurers, under this section have been obtained and approved by the Commission. Before or at the execution of a Contract, provide the Commission with certificates of insurance evidencing the coverage required. Have all primary and excess liability policies contain the following clause: "Thirty (30) days written notice of any cancellation, non-renewal, limit or coverage reduction is to be sent to the Commission by Certified Mail." The preceding is subject to existing Commonwealth of Pennsylvania statutory cancellation provisions relating to non-payment of premium and misrepresentation by the insured. Maintain the insurance described herein until the work is completed and a Final Certificate of Completion has been issued. All insurance policies must be written by an Insurance Company licensed and authorized to do business in Pennsylvania and acceptable to the Commission. Have all insurance policies and certificates signed by a resident Pennsylvania Agent of the issuing Company. However, in the case of an eligible surplus lines insurer, have all policies and certificates also signed by a party duly authorized to bind, on behalf of the eligible surplus lines insurer, the certified coverage's.

(b) Worker's Compensation and Employer's Liability Insurance. Take out, pay for and maintain during the life of the contract, Worker's Compensation Insurance in statutory required limits for the protection of all employees. Provide, pay for and maintain during the life of the contract, Employer's Liability Insurance in limits of not less than \$500,000 bodily injury each accident, \$500,000 bodily injury by disease, and \$500,000 bodily injury by disease each employee.

(c) Commercial General Liability Insurance. Includes: Products/Completed Operations; Blanket Contractual Liability - All Written & Oral Contracts; premises and operations liability; explosion, collapse and underground; personal injury; independent contractors; broad form property damage; severability of interests provisions; personal injury and advertising liability; premises medical payments; host liquor liability; fire damage legal liability - real property; incidental malpractice (including employees); non-owned watercraft; and automatic coverage for newly acquired entities. The minimum required limits for the Commercial General Liability policy will be as follows:

- \$2,000,000 Each Occurrence
- \$2,000,000 Advertising and Personal Injury Limit
- \$2,000,000 General Aggregate per Location/Per Site
- \$2,000,000 Products and Completed Operations Aggregate
- \$50,000 Fire Damage Legal, Any One Fire
- \$5,000 Medical Payments

(d) Commercial Automobile Liability Insurance - covering all owned hired, leased and non-owned vehicles with a minimum limit of liability of \$1,000,000 per occurrence.

(e) Commercial Umbrella/Excess Insurance - with the following minimum limits:

- \$5,000,000 Per Occurrence
- \$5,000,000 General Aggregate
- \$5,000,000 Products/Completed Operations Aggregate

(f) The Commercial General Liability and Automobile Liability policies will name the Pennsylvania Turnpike Commission, the Commonwealth of Pennsylvania, Pennsylvania Department of Transportation, Michael Baker, Jr., Inc., the Design Engineer and the Construction Manager, if any, as an Additional Insured.

(g) Special Hazards. Requirements concerning Railroad Protective Insurance, Modification of Blasting Insurance Requirements and Insurance for other special hazards will, if required, be included in the Special Provisions.

(h) Proof of Insurance. Before commencing work, furnish to the Commission three original certificates of insurance outlining the coverage's detailed above. The certificate will also indicate the Additional Insured status of the Commission and the appropriate cancellation/non-renewal notice wording. The insurance company certificates will be in standard ACORD form and will contain the address and phone number of the insurance company or insurance agent. If appropriate, the Commission reserves the right to request certified copies of the contractor's insurance coverage's.

(i) Payment. Incidental to the project.

PART II

INFORMATION REQUIRED FROM PROPOSERS

Proposals must be submitted in the format, including heading descriptions, outlined below. To be considered, the proposal must respond to all requirements in this part of the RFP. Any other information thought to be relevant, but not applicable to the enumerated categories, should be provided as an appendix to the proposal. Each proposal shall consist of two (2) separately sealed submittals. The submittals are as follows: (i) Technical Submittal, in response to Part II-1 through II-7 hereof; (ii) Cost Submittal, in response to Part II-8 hereof.

The Commission reserves the right to request additional information which, in the Commission's opinion, is necessary to assure that the Proposer's competence, number of qualified employees, business organization, and financial resources are adequate to perform according to the RFP.

The Commission may make such investigations as deemed necessary to determine the ability of the Proposer to perform the work, and the Proposer shall furnish to the Issuing Office all such information and data for this purpose as requested by the Commission. The Commission reserves the right to reject any proposal if the evidence submitted by, or investigation of, such Proposer fails to satisfy the Commission that such Proposer is properly qualified to carry out the obligations of the agreement and to complete the work specified.

II-1. Statement of the Problem. State in succinct terms your understanding of the problem presented or the service required by this RFP.

II-2. Management Summary. Include a narrative description of the proposed effort and a list of the items to be delivered or services to be provided.

II-3. Work Plan. Describe in narrative form your technical plan for accomplishing the work. Use the task descriptions in Part IV of this RFP as your reference point. Modifications of the task descriptions are permitted; however, reasons for changes should be fully explained. Indicate the number/type of technicians/personnel and person hours allocated to each task. Include a detailed comprehensive project schedule or similar type display, time related, showing each event anticipated by the Proposer.

II-4. Prior Experience. Include experience in infrastructure cabling for both copper and fiber installation. The Proposer should indicate any experience they may have in the installation of radio communication systems, intercoms and speakers. Experience shown should be work done by individuals who will be assigned to this project as well as that of your company. Projects referred to should be identified and the name of the customer shown, including the name, address, and telephone number of the responsible official of the customer, company, or agency who may be contacted.

II-5. Personnel. Include the number and names where practicable of qualified personnel for all tasks required to complete the project with the following compliance. To be considered for this project the Proposer **must** identify the Project Manager that will be assigned to this project in your response and provide that individual's resume identifying their background, experience and education. All other personnel that the Proposer intends to utilize during the project should be identified in the proposal by providing a resume of the personnel's background, experience and education. The Proposer must indicate the intended types of work to which the individual would be assigned. The Proposer must be

able to assign technicians that have experience in troubleshooting, installing, terminating and testing all types of fiber, copper and coaxial cables. The Proposer must provide proof that assigned personnel are current in training. The Proposer must demonstrate that they have the necessary resources available in personnel, experience and equipment to perform more advanced types of fiber cable installations such as the components and skills required to successfully splice fiber, mechanical or fusion. For work distribution of employees, the Commission would expect a Project Manager **on site** during the initial start of the project, as requested/required during the installation and during the GAI-Tronics communication system initialization/certification process. The Project Manager must be available during the term of the installation and participate in the walk through at the end of the project. The Project Manager will be the point of contact between the Commission's Project Manager and all of the Proposer's personnel. The Project manager will manage all facets of the project ensuring that the installation meets all specifications set forth in this RFP. A senior technician with no less than 2 years field experience in all facets pertaining to this project should be on site with any junior level personnel at all times to participate and oversee all operations throughout the term of the project. The successful Proposer should have at least 1 staff member that has a RCDD certification rating and at least 1 staff member that is a certified CAD operator available to the Commission throughout the term of the project. Identify all subcontractors you intend to use and the services they will perform.

II-6. Training. Not applicable for this project.

II-7. DBE/MBE/WBE Participation. The Turnpike Commission is committed to the inclusion of disadvantaged, minority, and woman firms in contracting opportunities. Responding firms shall clearly identify DBE/MBE/WBE firms, expected to participate in this contract, in their Proposal. Proposed DBE/MBE/WBE firms must be certified by the Pennsylvania Department of General Services (www.dgs.state.pa.us) or the Pennsylvania Unified Certification Program (www.paucp.com) at the time of the submission of the proposal. While D/M/WBE participation is not a requirement for this RFP, inclusion of D/M/WBEs will be a factor in the evaluation determination. **If further information is desired concerning DBE/MBE/WBE participation,** direct inquiries to the Pennsylvania Turnpike Commission's Contract Administration Department by calling (717) 939-9551 Ext. 4241.

II-8. Cost Submittal. The information requested in this section shall constitute your cost submittal. **The Cost Submittal shall be placed in a separate sealed envelope within the sealed proposal, separate from the technical submittal.**

Proposers should **not** include any assumptions in their cost submittals. If the proposer includes assumptions in its cost submittal, the Issuing Office may reject the proposal.

The total cost you are proposing must be broken down but not limited to the following components:

a. Direct Labor Costs. Itemize to show the following for each category of personnel with a different rate per hour:

(1) Category: e.g., Senior Technician, Junior Technician, Electrician, Project Manager, RCDD, AutoCad Operator, etc.

(2) Estimated hours per task by personnel category.

(3) Rate per hour by task and personnel category.

(4) Total cost for each category by task and for all direct labor costs.

(5) Estimated number of employees that will be assigned per task by personnel category

b. Labor Overhead. Specify what is included and rate used. If there is no labor overhead rate in your proposal, so state.

c. Travel and Subsistence. Itemize transportation, lodging and meals per diem costs separately. Each category should be listed as a separate line item. Show estimated hours spent in travel by personnel category and the associated cost of those hours. Show the estimated number of days and number of personnel that you estimate will be included in costs for lodging. Show the estimated number of days and number of personnel that will be included in costs for meals. Travel and subsistence costs must conform to the requirements of the most current version of the Commission's Travel Guidelines, (attached).

d. Consultant Costs. Itemize as in (a) above. If there are no consultant costs in your proposal, so state.

e. Subcontract Costs. Itemize as in (a) above. If there are no subcontract costs in your proposal, so state.

f. Cost of Supplies and Materials. Itemize each as a separate line item, provide unit cost and extended price. In addition, provide a separate line item for total cost of materials by task, e.g., Total cost of data/voice cable and components; Total cost of GAI-Tronics copper cable and components, Total cost of fiber cable and components, etc.

g. Other Direct Costs. Itemize. If there are no other direct costs in your proposal, so state.

h. General Overhead Costs. Specify what is included and rate used. If there are no general overhead costs in your proposal, so state.

i. Fee or Profit.

j. Separate line item totals as completely installed for sub-categories under Part IV Work Statement Section IV-4. Tasks., e.g., Section, A. 1., A. 2., etc., Section B. 1., Section C. 1., Section D., Section E., Section F. 1., etc.

k. Total Cost. Provide a separate line item for total material cost, for total labor cost and for total project cost.

Any costs not provided in the cost proposal will be assumed as no charge to the Commission.

The selected Proposer shall only perform work on this contract after the Effective Date is affixed and the fully-executed contract sent to the selected Proposer. The Commission shall issue a written Notice to Proceed to the selected Proposer authorizing the work to begin on a date which is on or after the Effective Date. The selected Proposer shall not start the performance of any work prior to the date set forth in the Notice to Proceed and the Commission shall not be liable to pay the selected Proposer for any service or work performed or expenses incurred before the date set forth in the Notice to Proceed. No Commission employee has the authority to verbally direct the commencement of any work under this Contract.

PART III

CRITERIA FOR SELECTION

III-1. Mandatory Responsiveness Requirements. To be eligible for selection, a proposal should be (a) timely received from a Proposer; (b) properly signed by the Proposer; and (c) formatted such that all cost data is kept separate from and not included in the Technical Submittal.

III-2. Proposals will be reviewed and evaluated by a committee of qualified personnel selected by the Commission. This committee will recommend for selection the proposal that most closely meets the requirements of the RFP and satisfies Commission needs. Award will only be made to a Proposer determined to be responsive and responsible in accordance with Commonwealth Management Directive 215.9, Contractor Responsibility Program.

III-3. The following criteria will be used, in order of relative importance from the highest to the lowest, in evaluating each proposal:

a. Understanding the Problem. This refers to the Proposer's understanding of the Commission needs that generated the RFP, of the Commission's objectives in asking for the services or undertaking the study, and of the nature and scope of the work involved.

b. Proposer Qualifications. This refers to the ability of the Proposer to meet the terms of the RFP, especially the time constraint and the quality, relevancy, and recency of studies and projects completed by the Proposer. This also includes the Proposer's financial ability to undertake a project of this size.

c. Personnel Qualifications. This refers to the competence of professional personnel who would be assigned to the job by the Proposer. Qualifications of professional personnel will be measured by experience and education, with particular reference to experience on studies/services similar to that described in the RFP. Particular emphasis is placed on the qualifications of the project manager.

d. Soundness of Approach. Emphasis here is on the techniques for sequence and relationships of major steps and methods for managing the project. Of equal importance is whether the technical approach is completely responsive to all written specifications and requirements contained in the RFP and if it appears to meet Commission objectives.

e. Flexibility. This refers to the Proposer's capability to meet scheduling constraints and work effectively. Of equal importance is the ability of the Proposer to have a flexible schedule and willingness to redirect staff allocation due to unanticipated complications so as not to burden the Commission with additional costs to complete the project

f. Available Facilities. This refers to the Proposer's capability to securely warehouse and transport equipment, hardware and/or materials associated with this project like GAI-Tronics Telepanels on skids or wall mount telephone hardware if space would not be available in a Commission Facility.

g. Cost. While this area may be weighted heavily, it will not normally be the deciding factor in the selection process. The Commission reserves the right to select a proposal based upon all the factors listed above, and will not necessarily choose the firm offering the best price. The Commission will select the firm with the proposal that best meets its needs, at the sole discretion of the Commission.

h. DBE/MBE/WBE Participation. This refers to the inclusion of D/M/WBE firms, as described in Part II-7, and the extent to which they are expected to participate in this contract. Participation will be measured in terms of total dollars committed to certified D/M/WBE firms.

PART IV

WORK STATEMENT

IV-1. Objectives.

- a. General.** The Commission is building a new Everett Fares Warehouse/Office building on the existing Everett Maintenance campus site. This facility will require connection to the Commission's network.
- b. Specific.** The objective of this RFP is to secure a qualified cabling contractor to install the infrastructure necessary to support the network services required for the Everett Fares Warehouse/Office building. The new facility will require campus connectivity to the Commission's existing Fares/PSP building and to the Miller Building on campus. This bid will provide the cabling necessary to support data/voice workstation network connectivity, GAI-Tronics cabling infrastructure, radio hardware installation/certification and inter-campus building backbone cable. The Contractor will work within the schedule that the General Contractor dictates at all times during the project. Access to the site might occur as early as July 2010. The successful contractor will be notified of schedule provisions as construction proceeds at the site. The Proposer should state any site requirements they require in their RFP, e.g., if utilizing a trailer indicate the size and the anticipated site storage needs, etc. The Contractor will provide and be responsible for the security of their equipment and all materials required to complete the objectives of this RFP throughout the duration of this project. The Commission will not sustain any expense for lost, stolen or damaged equipment/materials.

IV-2. Nature and Scope of the Project. This project will be located at mile marker 154.42 WB along the Turnpike main line. The cabling infrastructure that will be installed includes copper cable for workstation, voice and GAI-Tronics radio connectivity as well as single mode fiber for campus building connections. The contractor will also be responsible for the installation of all GAI-Tronics hardware, GAI-Tronics system fiber drivers, wall mount telephones and their associated hardware. The contractor may be responsible for some minor electrical work.

IV-3. Requirements.

1. Codes, Ordinances and Regulations. All cabling and materials included in this specification shall be installed and maintained in accordance with prevailing codes, ordinances and regulations and meet or exceed guidelines sponsored or endorsed by the National Fire Protection Agency (NFPA) and the National Electrical Code (NEC). The cable shall meet all requirements stated in this specification. The fiber cabling shall consist of cable, system components and connecting hardware manufactured by Corning Cable Systems to obtain an EWP warranty. The copper data/voice cabling must consist of copper cable manufactured by BerkTek and system components and connecting hardware manufactured by Ortronics and/or BerkTek to obtain a NetClearG3 warranty. If this document and any of the documents listed below are in conflict, then the more stringent requirement shall apply. All documents listed are believed to be the most current releases of the documents. The Contractor has the responsibility to determine and adhere to the most recent release when developing the proposal for installation. Specifically, the structured cabling system shall be in strict accordance with and reflect the **latest codes, standards, regulations and ordinances** in effect at the time the PO is issued for all cabling types, but not limited to, the following. This document does not replace any code, either partially or wholly. The contractor must be aware of local codes that may impact this project.

National Electrical Code® (NEC)® Section 770 and 800.

Non-Plenum Applications - Applicable Flame Tests: UL 1666. Cables shall be listed OFNR (OFCR)

Plenum Applications - Applicable Flame Test: NFPA 262. Cables shall be listed OFNP (OFCP)

Finished cables shall conform to the applicable performance of the Insulated Cable Engineers

Association, Inc. (ICEA) Standard for Fiber Optic Premises Distribution Cable (ICEA S-83-596-2001)

The cable shall meet the requirements of ANSI/ICEA Standard for Fiber Optic Outside Plant

Communications Cable, ANSI/ICEA S-87-640-2006

The cable should be in accordance with EIA/TIA-598 Optical Fiber Cable Color Coding

The cable shall meet the requirements of ANSI/ICEA Standard for Fiber Optic

Indoor/Outdoor Communications Cable, ANSI/ICEA S-104-696-2001

The cable shall meet the requirements of ANSI/ICEA Standard for Fiber Optic Inside Communications Cable, ANSI/ICEA S-83-596-2001

The optical fiber shall be a matched-clad design manufactured by the outside vapor deposition process

Electronic Industries Association (EIA) Publications 455 series of Standard Test

Procedures for Fiber Optic Fibers, Cables, Transducers, Connecting and Terminating Devices

EIA/TIA-455-61-A (FOTP-61) Measurement of Fiber or Cable Attenuation

EIA/TIA -455-171-A Attenuation by Substitution Measurement – for Short Length Multi-mode Graded Index and Single Mode Optical Fibers Cable Assemblies

EIA/TIA-526-14 Optical Power Loss Measurement of Installed Multi-mode Fiber Cable Plant

EIA/TIA-455-60-A Measurements of Fiber Optic Cable Length Using an OTDR

Nationally Recognized Testing Laboratory (NRTL) 11

ANSI/TIA/EIA - 568-B.1, Commercial Building Telecommunications Cabling Standard Part 1: General Requirements, April, 2001

ANSI/TIA/EIA - 568-B.2, Commercial Building Telecommunications Cabling Standard Part 2:

Balanced Twisted-Pair Cabling Components, April, 2001

ANSI/TIA/EIA - 568-B.2-1, Commercial Building Telecommunications Cabling Standard Part 2:

Balanced Twisted Pair Cabling Components, Addendum 1 – Transmission Performance Specifications for 4-pair 100 Ω Category 6 Cabling

ANSI/TIA/EIA - 568-B.3, Commercial Building Telecommunications Cabling Standard Part 3: Optical Fiber Cabling Components, March, 2000

ANSI/TIA/EIA – 569-B, Commercial Building Standard for Telecommunications Pathways and Spaces, October, 2004

ANSI/TIA/EIA – 570-B, Residential Telecommunications Cabling Standard, April, 2004

ANSI/TIA/EIA – 606-A, Administration Standard for Telecommunications Infrastructure of Commercial Buildings, February, 2002

ANSI/TIA/EIA – 607-A, Commercial Building Grounding and Bonding Requirements for Telecommunications, October, 2002

ANSI/ TIA/EIA – 758-A, Customer-Owned Outside Plant Telecommunications Cabling Standard, August, 2004

BICSI - TDMM, Building Industries Consulting Services International, Telecommunications Distribution Methods Manual (TDMM)

National Fire Protection Agency (NFPA – 70), National Electrical Code (NEC) –2005

FCC 47 CFR 68

NEMA 250

2. General Provisions. The Proposer must provide all the labor, parts, installation equipment, test equipment/instrumentation and materials necessary to meet the objectives of this Proposal. The installation of all cabling systems must be done in a workman like fashion, resulting in a quality installation for the Commission. Any work judged not acceptable by the Commission must be redone at

no charge to the Commission. The Proposer must ensure that all fiber cable is installed with proper “strain relief” by installing/utilizing Corning Universal Clamps. All copper cable for data/voice must be appropriately installed to provide the necessary “strain relief, bend radius and cable routing” for proper installation of high performance cross connect products, meeting all specifications of ANSI/TIA/EIA-568-B. All GAI-Tronics copper cable and connecting hardware cabling must be installed as to provide the necessary “strain relief” as determined by the GAI-Tronics Corporation and the chosen cable Manufacturer’s installation specifications. Any fiber splicing must be “fusion splicing” and the Proposer must provide a list of any proposed fiber splices for the project along with the reason for the intended splice. All support structures must meet Commission standards. No cable is to be left exposed. All cable is to be in conduit, on ladder rack/cable tray, or correctly suspended in J hooks above a drop ceiling, following standards for each cable type. All drops should be tied with fabric cable ties, i.e. Velcro. No plastic tie wraps should be used. All fiber inserts must follow the standard color code for Corning Fiber installation. All cables must be permanently labeled on both ends of each cable. Cable To/From direction must be clearly indicated on the panels. All cabling labels must follow the Commission’s standards. Any penetrations made or entered by said contractor must be fire stopped according to EIA/TIA standards and local building codes. All grounding, electrical receptacles and rack power strip hardware and the installation of those electrical systems must comply with or exceed the standards set forth in the National Electrical Code (NEC), the National Fire Protection Agency (NFPA) and any local ordinances/building codes. Any electrical tasks must be installed by a qualified electrician.

3. Proposer’s Certifications, Credentials and Requirements. The Proposer, must have the following resources, certifications/credentials and experience **before** submitting a proposal. Proof verifying the certifications/credentials, experience and resources must be provided at the time the proposal is submitted. The Proposer must be a Corning Cable Systems LANscape® Solutions Extended WarrantySM Program (EWP) Member and must provide written warranty certification and evidence of current EWP program membership. The Proposer must offer a twenty-five (25) year extended warranty for the premises/campus fiber cabling solution comprised of covered Corning Cable Systems products. The Proposer must follow all warranty registration procedures set forth by Corning Cable Systems, including submitting all required materials to Corning Cable Systems for warranty certification. The Proposer must have an RCDD on staff that will be available to the Commission throughout the contract term. The Proposer must be a Certified Installer Plus, NetClear® Warranty installer and provide evidence of program standing. The Proposer must offer a NetClear® 25-year System Warranty on the copper, premise/campus structured cabling system, comprised of BerkTek/Ortronics’ products and must follow all warranty registration procedures set forth for installations for a NetClear® Cabling System. The Proposer must have an AutoCAD operator on staff that will be available during the course of the project. The Proposer must have a qualified Project Manager on staff, assigned and available to be on site as required for the term of the project to handle all aspects of the requirements set forth in this RFP. The Proposer must be able to provide any electrical requirement solutions utilizing appropriately certified personnel for each task, throughout the project duration, (i.e.: rack receptacles, grounding, etc.).

4. Cable and Components Systems. The contractor shall warrant that all materials and equipment furnished under the contract are in good working order, free from defects, and in conformance with system specifications. Any equipment or materials supplied by the contractor for the project that become damaged, found to be faulty, or that do not meet the specifications set forth in this RFP must be replaced to the PTC’s satisfaction at no additional cost to the Commission. All installed equipment must conform to the manufacturer’s official published specifications. The contractor shall agree to repair, adjust, and/or replace, (as determined by the Purchaser to be in its best interest), any damaged or defective equipment, materials, or other parts of the system at the contractor’s sole cost. The Purchaser will incur no costs for service or replacement of parts. All third party warranties shall be

passed through from contractor to Purchaser. The contractor shall warrant and supply evidence that the installation of materials and hardware will be made in strict compliance with all applicable provisions of the National Electric Code®, the rules and regulations of the Federal Communications Commission, and state and/or local codes or ordinances that may apply. The contractor shall warrant that the system will function as specified in the approved manufacturer's Technical Description Guide. The contractor shall warrant that the system shall accommodate traffic at the levels specified in all appropriate sections of this proposal. All materials used for the copper cable installation/termination of workstation/voice drops must meet all requirements, specifications and performance standards as to provide a 25 year NetClearG73 Manufacturer's warranty for the site. All workstation/voice drops will be 110 terminations to the building server room patch panels. All materials used for the fiber installations must meet all requirements, specifications and performance standards as to provide a 25 year EWP Manufacturer's warranty for the campus. All materials used for the copper cable installation of the radio system must meet the specifications set forth by the GAI-Tronics Corporation for the hardware that will be installed throughout the campus. All parts should be designed for high density to conserve space in the housing(s)/panel(s) and electronics racks. Data/Voice jacks will all be the same color matching the wall plate color. The contractor will follow all GAI-Tronics manufacturer installation procedures as detailed in the Installation and Maintenance Manual. The contractor will follow all installation procedures from the manufacturer for the chosen copper cable that is used for GAI-Tronics system installation. The contractor will schedule the initialization and certification of all GAI-Tronics installed equipment directly with the GAI-Tronics Corporation representative.

5. Testing and Certification of Cabling. All fiber cables, components and systems must be tested and certified to meet all warranty conditions. All copper cable, components and systems for data/voice must be tested and certified to meet all warranty conditions. All copper cable, components and systems for GAI-Tronics systems must be tested and certified to meet the GAI-Tronics Corporation and the chosen manufacturer of the cable performance and specification requirements. All testing and certification of cabling will be the responsibility of the contractor. All test results for each type of cable must be documented providing the results by cable label as installed. Tests must be conducted with FLUKE/MICROTEST devices. Test documentation must be provided in the form of electronic media, (CD) and paper, from the cable tester(s) selected by the contractor and approved by the Commission. The contractor will submit one paper copy and 3 separate CD copies, of all cable test results for each type of cable. The CD's and each paper copy should be clearly labeled as follows:

- LANMark 2000 Copper Cable Test Results
- Corning 24 Strand Single Mode Fiber Test Results
- GAI-Tronics Copper Cable Test Results

6. Final Fiber System Test - All backbone and horizontal cabling, which is terminated by the contractor, shall be tested to applicable EIA/TIA Standards.

a. The insertion loss for each mated fiber optic connector pair shall be 0.75 dB. Reflectance for single-mode single fiber UPC cable assemblies shall be -55 dB. Mated connector pair loss testing shall be based on one unidirectional OTDR inspection in accordance with the OTDR operating manual for systems greater than 300 meters.

b. In addition to connector insertion loss for each mated pair, the contractor shall perform end-to-end insertion loss testing for each single-mode fiber at 1310 nm and 1550 nm from one direction for each terminated fiber span in accordance with TIA/EIA-526-7 (OFSTP 7). For spans greater than 90 meters, each tested span must test to a value less than or equal to the value determined by calculating a link loss budget. For horizontal spans less than or equal to 90 meters, each tested span must be < 2.0 dB.

- c. Inspect each terminated single-mode fiber span for continuity and anomalies with an OTDR at 1550 nm from one direction in accordance with OTDR operating manual for systems greater than 100 meters.
- d. The attenuation loss of any fusion splice must be less than .1 dB

7. Final Copper System Test for Workstation Data/Voice cabling – Category 6 Performance - All twisted-pair copper cable links shall be tested for continuity, pair reversals, shorts, opens and performance as indicated below. Additional testing is required to verify Category performance.

a. Follow the standards requirements established in ANSI/TIA/EIA-568-B .1, B.2 and B.2-1

b. Use a Level III test unit to verify category 6 performance.

c. Minimal Tests:

1. Wire Map
2. Length
3. Attenuation
4. NEXT (Near end crosstalk)
5. Return Loss
6. ELFEXT Loss
7. Propagation Delay
8. Delay skew
9. PSNEXT (Power sum near-end crosstalk loss)
10. PSELFEXT (Power sum equal level far-end crosstalk loss)

8. Access. The contractor may be given access to the construction site in July, 2010. The specific dates will be determined after the contract is awarded and issued. The contractor must be able to proceed immediately with installation tasks based on that permission to proceed date. The intention of the Commission is to have all the infrastructure cabling identified in this RFP completed by July 31, 2010. The contractor will coordinate their activities with the construction project manager on site to ensure there are no conflicts between installation tasks and construction project objectives. The contractor must be willing/able to comply with any time constraints/schedules that the General Contractor for the site may impose. The contractor must be flexible in their ability to start initiation of work based on the construction schedule progression. The contractor must be able to redirect their staff to other projects should delays arise due to building construction schedules, unforeseen complications, imperfect conditions that must be corrected before work may proceed, inclement weather conditions, etc., at no additional cost to the Commission.

9. Accuracy. The contractor will be totally responsible for accurately determining the amount of inter-building fiber required including all service slack necessary to completely satisfy the requirements of this RFP prior to submitting a proposal. The contractor will be totally responsible for accurately determining the total amount of copper cable for both the data/voice and GAI-Tronics installations including any service slack required prior to submitting a proposal. The Contractor will be responsible for all parts utilized for the RFP including part numbers and counts necessary to completely satisfy this RFP. If the Proposer determines there should be modifications/additions to the part specifications in order to satisfy the RFP objectives they should so state and provide alternatives and/or additional solutions in their response. See attached drawings and supporting documentation to determine requirements.

10. Final Acceptance Tasks.

- a.** A walkthrough of the entire project with the Contractor's Project Manager and Commission staff will be scheduled at the end of the installation after all testing and certification of the infrastructure cabling system is completed, to identify any outstanding tasks or issues that might need to be addressed to finalize the project. A list will be developed from this walk through and provided to the Contractor.
- b.** The Commission will turn up electronic systems at all building locations in this phase and run data loads from the site to the Central Administration Building to determine if the system accommodates the traffic levels as set forth in the proposal and as required to provide warranties for the site. The successful performance of the cabling system for a two week period will constitute acceptance of the system.
- c.** All outstanding tasks identified during the review period must be addressed and resolved to the Commission's satisfaction before the contract may be closed out.

IV-4. Tasks. The contractor shall perform the following tasks to provide an infrastructure for the Everett Fares Warehouse/Office communications and campus network requirements. A spreadsheet, (**Appendix B**), "Everett Fares Warehouse Drops By Location and Type" listing the Everett Fares Warehouse/Office and Campus drops by room and/or building location and the designated drop definition is attached. The sheet is organized by the assigned room number and/or building as indicated on the site drawings, (**Appendix D**). The contractor should use the site, architectural, electrical and communication system drawings, (**Appendix D**), to determine footage, locations of campus buildings and to verify cabling requirements. The contractor should use the "Everett Fares Warehouse/Office Part Specifications", (**Appendix E**), spreadsheet to determine part requirements and installation locations for the campus. The contractor should refer to the "Everett Fares Warehouse Server Room Layout" Visio drawing, (**Appendix F**), for the general IDF configuration and electrical provisions. Exact rack placement and actual electrical tasks associated with the server room will be finalized during an initial site walk through at the beginning of the installation phase. The contractor should use the Radio/Intercom System Expansion Everett Riser Wiring Diagram, (**Appendix C**), to determine the GAI-Tronics installation requirements for the Everett Fares Warehouse/Office building.

A. Racks, Housings, Panels, Cable Management, Electrical

1. Server Room 106 - Everett Warehouse/Office Building

- a.** Install two 7 foot standing racks in the sever room for the fiber housing, patch panel, electronic network equipment. Exact location will be field verified. Electronics will be installed by others.
- b.** Install a cable chase on either side of each of the 7 foot standing rack(s) installed in task "a." in a manner that all of the racks installed in the above tasks are connected together by the cable chase. Secure the cable chase to the racks.
- c.** Secure all installed racks at the top and the bottom. The method of securing racks and chases must be identified and will be approved by the Commission's Project Manager prior to installation.
- d.** Ground each rack as appropriate to meet NEC standards or above.
- e.** Install an electrical strip, on the back of the 7 foot standing rack designated for electronics, in a manner that will not impede the loading/installation of panels, electronic equipment and miscellaneous hardware in to the center compartment area of the rack.
- f.** Install 1 quad electrical box with 4 receptacles, at the bottom of the 7 foot standing rack designated for electronics, in a manner that will not impede the loading/installation of panels, electronic equipment and miscellaneous hardware in to the center compartment area of the rack. The box must have a cable long enough to plug in to the twist lock receptacle located above the rack.
- g.** Install a 1 U cable management above and below each housing and patch panel that will be installed in the 7 foot standing rack allocated for fiber housing and patch panel installation.
- h.** Install a PCH-04U fiber housing at the top of the rack that will be used for fiber housing and

patch panels, immediately below the first 1 U cable management installed in task “g.”.

- i. Install the high density CAT 6 patch panels between cable management installed in task “g.”, in the 7 foot standing rack allocated for fiber housing and patch panel installation to accommodate CAT 6e data/voice cable terminations.
- j. Provide eight, 1 U cable management for the electronics rack. Cable management for the electronics rack will be installed by others.
- k. The additional cable management, electrical strips, etc. may be used for a miscellaneous equipment rack if required. This would be determined during the initial walk through of the site prior to the beginning of the cable installation. The additional rack would be supplied by others but installed by the contractor.

2. Everett Fares/PSP Building

- a. Install a PWH-02P wall mount housing on the board by the existing GAI-Tronics Control Panel. Location for mounting the housing on the board will be field verified.

3. Everett Campus Miller Building

- a. The contractor will utilize an existing PCH-04U housing for the campus fiber termination in this building. The housing is located at the top of the Ortronics 7 foot standing electronics rack.

B. Copper Cable Data/Voice – all data/voice cable will be installed to either a rough-in wall box on a wall or to a floor box, Wiremold RFB6-OG, (or equivalent). Each rough-in wall box/floor box has a one inch conduit with a pull string to above the drop ceiling for cable installation. All data/voice cable will be pulled through the 1 inch conduit to the corridor cable tray and in to Server Room 106 for termination on patch panels. Contractor will be responsible for bundling and securing all cabling in a manner that clarifies system groupings and properly supports suspended cabling according to the latest standards and the manufacturer’s recommended installation procedures. Use the Appendix B spreadsheet “Everett Fares Warehouse Drops By Location and Type” and the Appendix D drawings to verify the locations of boxes. The total number of data/voice cables for the Everett Fares Warehouse/Office building will be 253.

1. Workstation Cable for Data/Voice and Phone Hardware

- a. The contractor will install 4, LANMark 2000 CAT 6e cables from each data/voice box indicated on the drawings, to Server Room 106 in the Everett Fares Warehouse/Office Building.
- b. The contractor will install 1, LANMark 2000 CAT 6e cable from each of the vestibule and wall mount phone rough in boxes to Server Room 106 in the Everett Fares Warehouse/Office.
- c. The contractor will install a wall plate that holds a single jack and 1 jack each for the vestibule drops.
- d. The contractor will install a wall plate and 4 jacks for all other data/voice drops where the cable will be terminated in a “wall” rough in box as indicated on the drawings.
- e. If the cable is terminated in a Wiremold RFB6-OG, (or equivalent), floor box, the contractor will install 4 inserts and 4 jacks in each box.
- f. All labels should follow PTC standards.
- g. Patch panels should be clearly permanently labeled.
- h. Cables should be clearly permanently labeled on each end of each cable.
- i. Jacks should be clearly permanently labeled.
- j. Each cable will be terminated back to a CAT6 patch panel located in the rack allocated for panels, in Server Room 106 of the Everett Fares Warehouse/Office Building.
- k. Each cable and components will be end to end tested and certified to GT3 standards.
- l. The contractor must provide enough service loop for each cable, to accommodate moving any

patch panel or the patch panel rack to any other area within Server Room 106 without having to re-cable.

m. The contractor will install all wall mounted phone hardware at the locations designated on the drawings. The Turnpike will provide the phone and mounting hardware for installation.

C. Copper Cable, Fiber Cable and Radio Hardware for the GAI-Tronics Communication System

1. General Requirements - Everett Fares Warehouse/Office Building and Everett Fares/PSP Building - GAI-Tronics Cable and Radio Equipment The GAI-Tronics installation is comprised of a variety of units. The contractor should refer to the drawings for clarification of unit type and location within the facility. The control panel is located in the Everett Fares/PSP Building communication room on the west wall mounted on a plywood board. The contractor should refer to Appendix C, GAI-Tronics Radio/Intercom System Expansion Everett Riser Wiring Diagram for the system layout that was developed by the GAI-Tronics Corporation specifically for this site. Speaker units will be flush mount, a box speaker or a bullhorn speaker. Intercom units will be offset on a wall over a rough in box or will be a desk unit. The desk unit is similar to a standard phone which plugs into a GAI-Tronics box. The GAI-Tronics box is approximately 8 inches W x 8 inches L x 5 inches D and includes two (2), 11-point termination strips. The cable that attaches to the GAI-Tronics desk unit is a pre-manufactured cable with a 22 pin connector to plug in to the GAI-Tronics box. The desk unit is connected to the other end of the cable and the connection is pre-soldered. That cable is 8 feet long. The GAI-Tronics box for the desk top unit will mount over top of a wall rough in box.

2. Fiber Drivers and Fiber Cables – GAI-Tronics

- a.** The contractor will install a 24 strand fiber cable from the Everett Fares Warehouse/Office Server Room 106 through a 4 inch conduit in to the Everett Fares/PSP Building Communication Room for GAI-Tronics connectivity to the Control Panel. **(NOTE: This fiber will continue on to the Everett Campus Miller Building for network connectivity after dropping off 12 strands in the Communication Room housing).**
- b.** The contractor should install a 30 foot service loop in all manholes for this fiber run between the Everett Fares Warehouse/Office Building and the Everett Fares/PSP Building.
- c.** The contractor should install a 50 foot fiber service loop in Server Room 106 to accommodate moving the fiber housing to any location within that room without re-cabling or extending the fiber cable.
- d.** The contractor should allow enough fiber service loop in the Everett Fares/PSP Communication Room to accommodate moving the fiber housing to any location within that room without re-cabling or extending the fiber cable.
- e.** The contractor will install/terminate the 24 strand fiber cable in to the PCH-04U fiber housing that was mounted in the housing/patch panel rack in Server Room 106 in the Everett Fares Warehouse/Office Building. The contractor should install the CCH-CP24-A9 connector panel in to this housing to terminate the fiber on this side.
- f.** The contractor should terminate all 24 strands of fiber in the PCH-04U housing in the Server Room 106 location.
- g.** The contractor will continue the install of the 24 strand fiber cable in to the PWH-02P wall mount housing that was installed in the Everett Fares/PSP Communication Room. The contractor should install a CCH-CP12-A9 connector panel in to the wall unit to terminate the fiber on this side.
- h.** The contractor will drop off/terminate 12 strands of the 24 strand fiber cable in the Communication Room location.
- i.** The contractor will install a fiber driver, supplied by the PTC, in Server Room 106 at a location that will be field verified.
- j.** The contractor will install a fiber driver, supplied by the PTC, at a location that will be field verified,

in the Everett Fares/PSP Communication Room, on the board where the GAI-Tronics Control Panel is currently mounted.

k. The contractor will provide and install the fiber patch cables for the fiber drivers on each end of the connection. The fiber driver installation, initialization, connectivity and performance level must be verified/certified to follow all installation procedures and requirements as specified by the GAI-Tronic Corporation representative.

3. Copper Cable and GAI-Tronics Radio Hardware

a. The contractor will install a separate home run cable from each GAI-Tronics unit to Server Room 106 in the Everett Fares Warehouse/Office Building. Installation shall follow procedures in the GAI-Tronics Installation and Maintenance Manual. Refer to Appendix E, “Everett Fares Warehouse/Office Part Specifications” spreadsheet, for the type of cable to be used for GAI-Tronics equipment.

b. The contractor will terminate the GAI-Tronics copper cable to the fiber driver installed in the Everett Fares Warehouse/Office Server Room 106.

c. The contractor will terminate from the control panel to the fiber driver installed in the Everett Fares/PSP Communication Room.

d. All copper GAI-Tronics cables must be permanently labeled on each end to PTC standards.

e. All fiber driver terminations must comply with the GAI-Tronics Installation and Maintenance Manual.

f. All fiber driver terminations must be permanently labeled to PTC standards.

g. Each cable must be end to end tested to comply with the chosen cable manufacturer’s specifications and the GAI-Tronics Corporation installed requirements/standards.

h. All labeling in the Everett Fares/PSP Communication Room GAI-Tronics Control panel must comply with PTC standards.

i. All labels must follow through end to end between buildings for each GAI-Tronics installed device.

j. The contractor will install wall mount intercom units at the locations designated in the drawings to GAI-Tronics Corporation specifications.

k. The contractor will install flush mount ceiling speakers, bull horn speakers and volume control at the locations designated in the drawings, to GAI-Tronics Corporation specifications.

l. The contractor will install GAI-Tronics desk unit cabling to rough in boxes at the locations designated in the drawings following GAI-Tronics specifications.

m. The contractor will contact the GAI-Tronics Corporation directly to set a date to initialize/certify the GAI-Tronics installation. The contractor must notify the Turnpike’s GAI-Tronics Coordinator at least three weeks in advance of the scheduled review date.

n. The contractor will not initialize any GAI-Tronic units until the GAI-Tronics representative is present on site and at that time authorizes initialization during the formally scheduled initialization/certification testing date.

o. The contractor will work with GAI-Tronics to remedy any issues that arise through the initialization/certification process.

p. At the time of certification representatives from/for the PTC will also be present and must agree that the system is working to their satisfaction before the system is accepted. Each representative will have to sign the “Acceptance Sign Off For GAI-Tronics Certification” for the system to be considered acceptable by the Commission.

D. HIRSCH System Cable

a. The contractor will install one blank and jack inside the HIRSCH control panel in the Everett Fares Warehouse/Office Server Room 106. The location of the control panel in the Server Room will be field verified.

- b.** The contractor will install/terminate one LANMark 2000 cable from the HIRSCH control panel jack to port 47, on the first CAT 6 patch panel from the top of the rack, in the Server Room rack allocated for housing and panel installation.
- c.** The cable should be clearly permanently labeled on both ends of the cable.
- d.** The label on the jack should follow PTC standard labels.
- e.** The label on the cable should follow PTC standard labels.
- f.** The label on the patch panel should be marked as HIRSCH.
- g.** The cable must be tested and certified.
- h.** The contractor must notify the Turnpike's project manager when the Hirsch cabling is complete so testing can be scheduled for HIRSCH system connectivity and certification.

E. HVAC System Cable

- a.** The contractor will install one blank and jack inside the HVAC control panel.
- b.** The contractor will install one LANMark 2000 cable from the HVAC control panel jack to port 48 on the first CAT 6 patch panel from the top of the rack, in the Server Room rack allocated for housing and panel installation.
- c.** The cable should be clearly permanently labeled on both ends of the cable.
- d.** The label on the jack should follow PTC standard labels.
- e.** The label on the cable should follow PTC standard labels.
- f.** The label on the patch panel port should be HVAC.
- g.** The cable must be tested and certified.
- h.** The contractor must notify the Turnpike's project manager when the HVAC cabling is complete so testing can be scheduled for HVAC system connectivity and certification.

F. Campus Site Fiber Cable

1. From Everett Fares Warehouse/Office Building to Everett Maintenance Miller Building electronics rack.

- a.** The contractor should continue the 24 strand fiber cable installation that was run from the Everett Fares Warehouse/Office Server Room 106 to the Everett Fares/PSP Communication Room for the GAI-Tronics hardware connectivity.
- b.** The contractor will continue the 24 strand fiber cable installation from the Communication Room out through the east wall conduits that run to the Everett Maintenance Building. They will enter Maintenance through the external 4 inch conduit and box that stubs up on the west wall of the Maintenance cage area of the garage bay.
- c.** There is conduit in the Maintenance Building that runs the length of that facility west to east and penetrates down to the basement. The contractor will continue the installation of the 24 strand fiber cable through that conduit run in to the Maintenance Building basement to exit through the basement wall.
- d.** The contractor will exit the basement of the Maintenance Building through the box/conduit on the east wall of that room.
- e.** The contractor will continue the fiber pull in an external 4 inch conduit to the Miller Building located on the east end of the Everett Campus compound.
- f.** The contractor will install/terminate the final 12 strand of the 24 strand single mode fiber cable in the existing PCH-04U housing located in the Miller Building Ortronics 7 foot standing rack designated for fiber and electronics.
- g.** The contractor should install 30 feet of slack in each manhole throughout the cable run from the Everett Fares/PSP Building to the Everett Maintenance Miller Building.

- h.** The contractor will install 50 foot of slack on the Miller Building side of the cable run inside the building. The location where the slack will be mounted will be field verified.
- i.** The contractor will install one CCH-CP12-A9 Connector Panel in the PCH-04U housing and install/terminate the fiber in this housing.
- j.** The contractor will end to end test and certify the fiber cable and components.
- k.** The contractor will clearly permanently mark From/To Locations on both ends at the Fiber Housing Connector Panels.
- l.** The contractor will clearly mark fiber strand count and type of fiber on both ends of the Fiber Housing Connector Panels and on the fiber cable.

IV-5. Reports and Project Control.

- a. Task Plan.** A work plan for each task that identifies the work elements of each task, the resources assigned to the task, and the time allotted to each element and the deliverable items to be produced.
- b. Status Report.** A weekly progress report covering activities, problems, and recommendations; the report should be keyed to the work plan developed by the Proposer in its proposal, as amended or approved by the Commission.
- c. Problem Identification Report.** An “as required” report, identifying problem areas. The report should describe the problem and its impact on the overall project and on each affected task. It should list possible courses of action with advantages and disadvantages of each, and include Contractor recommendations with supporting rationale.
- d. Final Report(s).** The final submission will consist of the following documentation that must be delivered and reviewed by the Commission’s Project Manager prior to the closing of the contract.
 - 1. **As-Built Documentation** must be provided in both VISIO 2003 and CAD format. If existing as-built campus documentation exists, the as-built must incorporate the current campus drawings in to the new documentation, to provide a comprehensive overall site view as well as the individual new building drawings.
 - 2. **Data/Voice Copper Cable Test Results** – see **IV-3 Requirements. 5. Testing and Certification of Cabling.** for format and media requirements.
 - 3. **GAI-Tronics Copper Cable Test Results** - see **IV-3 Requirements. 5. Testing and Certification of Cabling.** for format and media requirements.
 - 4. **Fiber Cable Test Results** - see **IV-3 Requirements. 5. Testing and Certification of Cabling.** for format and media requirements.
 - 5. **NetClearG3 Warranty Certificate**
 - 6. **Corning EWP Warranty Certificate**
 - 7. **Acceptance Sign Off For GAI-Tronics Certification Form**

IV-6. Pre-bid Campus Review. The Everett Fares Warehouse/Office building is not constructed at this time. However, if any Proposer intends to go to the Everett campus to obtain measurements for their bid they must wear a hard hat, reflective vest and appropriate footwear at all times while they are on site. Each representative must be able to provide proof of their identity and employee affiliation with their company if requested. The Proposer **must** contact Stephanie Bentley, (717) 645-2235, at least 2 days prior to the date they plan to visit and provide a list of personnel that will be reviewing the site, so notification can be provided to Everett Maintenance personnel of their intended arrival.

Pennsylvania Turnpike Commission
Harrisburg

February 1, 2005

Subject: Travel Guidelines 2005

To: All Consultants

From: George Hatalowich
Pennsylvania Turnpike Commission
Manager, Contract Administration

The travel guidelines below should be followed when traveling on PTC business. These guidelines are effective February 1, 2005, for any Commission consultant contract (agreement or supplemental agreement).

1. General Guidelines

- a. Maximums established are not flat allowances. Only amounts actually expended may be claimed, if less than the maximum.
- b. All claims for reimbursement are subject to Commission audit. Valid itemized receipts are required for all claims and must include: name and address of vendor, date of service, itemized description of service(s), amount(s).
- c. A summary listing of expenditures from a credit card company is not a substitute for itemized receipts.

2. Transportation

- a. All modes of transportation are authorized consistent with and appropriate to the requirements of the assignment.
- b. Travel by company or personal vehicle will be reimbursed at the current IRS-approved mileage rate. The current rate is \$0.405 per mile.
- c. Rental cars are permissible and will be paid at the rental cost or at the IRS-approved mileage rate whichever is less. If the rental car rate is higher than the mileage rate, it will still be paid if the rental car was the reasonable means of transportation at the time and location.

3. Lodging and Meals

- a. Reimbursements will be in accordance with the current federal government General Services Administration's (GSA) Continental United States (CONUS) per diem rates (attached).
- b. If traveling to areas not included in the CONUS Pennsylvania listing, the "Standard Rate" will apply, which is currently \$60 Lodging and \$31 per day for meals. The Commission will advise of applicable CONUS rate changes.
- c. Meals are reimbursable only when on overnight travel status.
- d. Overnight travel that is not part of a full 24-hour period will be divided into 6-hour periods for reimbursement allowances:

0 to less than 6 hours	=	25% max. daily allowance
6 to less than 12 hours	=	50% max. daily allowance
12 to less than 18 hours	=	75% max. daily allowance
18 to 24 hours	=	100% max. daily allowance

	CONUS Subsistence Allowances County and/or Other Defined Location	Maximum Lodging Amount	Maximum Meal Allowance	25% Partial Meal Allowance	50% Partial Meal Allowance	75% Partial Meal Allowance
CONUS Cities						
CONUS, Standard Rate	See Note 1	\$60.00	\$31.00	\$7.75	\$15.50	\$23.25
Note 1: The CONUS standard rate applies to all locations within CONUS not specifically listed below or encompassed by the boundary definition (Note 2) of a listed location.						
Note 2: Unless otherwise specified, the per diem locality is defined as "all locations within, or entirely surrounded by, the corporate limits of the key city, including independent entities located within those boundaries." Per diem localities with county definitions shall include "all locations within, or entirely surrounded by, the corporate limits of the key city as well as the boundaries of the listed counties, including independent entities located within the boundaries of the key city and the listed counties."						
PENNSYLVANIA						
Allentown/Easton/Bethlehem	Lehigh and Northampton	73.00	35.00	8.75	17.50	26.25
Chester/Radnor/Essington	Delaware	75.00	39.00	9.75	19.50	29.25
Erie	Erie	75.00	35.00	8.75	17.50	26.25
Gettysburg (4/1-10/31)	Adams	94.00	39.00	9.75	19.50	29.25
Gettysburg (11/1-3/31)	Adams	68.00	39.00	9.75	19.50	29.25
Harrisburg	Dauphin (except Hershey)	81.00	47.00	11.75	23.50	35.25
Hershey (5/1-8/31)	City Limits of Hershey	150.00	43.00	10.75	21.50	32.25
Hershey (9/1-4/30)	City Limits of Hershey	99.00	43.00	10.75	21.50	32.25
King of Prussia/Ft. Washington/Warminster	Montgomery and Bucks	106.00	47.00	11.75	23.50	35.25
Lancaster	Lancaster	82.00	43.00	10.75	21.50	32.25
Malvern/Frazer/Exton	Chester	103.00	43.00	10.75	21.150	32.25
Mechanicsburg	Cumberland	78.00	35.00	8.75	17.50	26.25
Philadelphia	Philadelphia	116.00	51.00	12.75	25.50	38.25
Pittsburgh	Allegheny	85.00	47.00	11.75	23.50	35.25
Reading	Berks	85.00	43.00	10.75	21.50	32.25
Scranton	Lackawanna	70.00	35.00	8.75	17.50	26.25
State College	Centre	76.00	31.00	7.75	15.50	23.25

APPENDIX A

PREVAILING WAGE PROJECT RATES

Project Name:	Everett Fares Warehouse Infrastructure Cabling
Awarding Agency:	PA Turnpike Commission Information Technology
Contract Award Date:	4/30/2010
Serial Number:	10-00585
Project Classification:	Building/Heavy/Highway
Determination Date:	2/1/2010
Assigned Field Office:	Altoona
Field Office Phone Number:	(814)940-6224
Toll Free Phone Number:	

(Building) **BEDFORD COUNTY**

Contractor Craft	Hourly Rate	Fringe Benefits	Total	Effective Date	Expiration Date
Asbestos & Insulation Workers	\$30.82	\$19.19	\$50.01	08/01/2009	
Boilermakers	\$33.90	\$20.06	\$53.96	06/01/2008	
Bricklayer	\$25.31	\$13.54	\$38.85	06/01/2009	
Bricklayer	\$25.61	\$14.19	\$39.80	12/01/2009	
Carpenters	\$24.79	\$9.68	\$34.47	06/09/2009	
Carpenters	\$25.33	\$10.14	\$35.47	06/01/2010	
Carpenters	\$25.85	\$10.61	\$36.46	06/01/2011	
Cement Masons	\$23.65	\$11.54	\$35.19	06/01/2009	
Cement Masons	\$24.60	\$11.99	\$36.59	06/01/2010	
Dock Builder/Pile Drivers	\$28.85	\$12.00	\$40.85	01/01/2009	
Dock Builder/Pile Drivers	\$29.95	\$12.25	\$42.20	01/01/2010	
Drywall Finish	\$24.45	\$13.59	\$38.04	06/01/2009	
Drywall Finisher	\$26.03	\$13.26	\$39.29	06/01/2010	
Drywall Finisher	\$27.28	\$13.26	\$40.54	06/01/2011	
Electric Lineman	\$39.54	\$16.03	\$55.57	05/31/2009	
Electricians & Telecommunications Installation Technician	\$33.11	\$17.13	\$50.24	12/26/2008	
Electricians & Telecommunications Installation Technician	\$35.61	\$17.13	\$52.74	12/25/2009	
Electricians & Telecommunications Installation Technician	\$38.01	\$17.13	\$55.14	12/24/2010	
Elevator Constructor	\$39.88	\$20.23	\$60.11	01/01/2010	
Glazier	\$20.20	\$14.00	\$34.20	09/01/2009	
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	\$26.08	\$13.12	\$39.20	05/01/2009	
Laborers (Class 01 - See notes)	\$18.05	\$9.19	\$27.24	07/01/2009	
Laborers (Class 01 - See notes)	\$18.55	\$9.74	\$28.29	07/01/2010	
Laborers (Class 02 - See notes)	\$18.20	\$9.19	\$27.39	07/01/2009	
Laborers (Class 02 - See notes)	\$18.70	\$9.74	\$28.44	07/01/2010	

Laborers (Class 03 - See notes)	\$18.30	\$9.19	\$27.49	07/01/2009	
Laborers (Class 03 - See notes)	\$18.80	\$9.74	\$28.54	07/01/2010	
Laborers (Class 04 - See notes)	\$17.05	\$9.19	\$26.24	07/01/2009	
Laborers (Class 04 - See notes)	\$17.55	\$9.74	\$27.29	07/01/2010	
Landscape Laborer	\$18.25	\$9.05	\$27.30	07/01/2009	
Landscape Laborer (Skilled)	\$18.67	\$9.05	\$27.72	07/01/2009	
Landscape Laborer (Tractor Operator)	\$18.97	\$9.05	\$28.02	07/01/2009	
Marble Finisher	\$19.17	\$10.55	\$29.72	06/01/2009	
Marble Finisher	\$19.32	\$11.05	\$30.37	12/01/2009	
Marble Mason	\$19.42	\$8.48	\$27.90	06/01/2009	
Marble Mason	\$19.42	\$8.91	\$28.33	12/01/2009	
Millwright	\$32.71	\$14.29	\$47.00	06/01/2008	
Operators (Class 01 - see notes)	\$25.47	\$12.63	\$38.10	07/01/2009	
Operators (Class 01 - see notes)	\$26.37	\$13.13	\$39.50	07/01/2010	
Operators (Class 02 -see notes)	\$22.79	\$12.63	\$35.42	07/01/2009	
Operators (Class 02 -see notes)	\$23.69	\$13.13	\$36.82	07/01/2010	
Operators (Class 03 - see notes)	\$21.24	\$12.63	\$33.87	07/01/2009	
Operators (Class 03 - see notes)	\$22.14	\$13.13	\$35.27	07/01/2010	
Operators (Class 04 - Chief of Party (Surveying and Layout))	\$20.84	\$12.63	\$33.47	07/01/2009	
Operators (Class 04 - Chief of Party (Surveying and Layout))	\$21.74	\$13.13	\$34.87	07/01/2010	
Operators (Class 04 - Instrument Person (Surveying & Layout))	\$19.84	\$12.63	\$32.47	07/01/2009	
Operators (Class 04 - Instrument Person (Surveying & Layout))	\$20.74	\$13.13	\$33.87	07/01/2010	
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	\$19.39	\$12.63	\$32.02	07/01/2009	
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	\$20.29	\$13.13	\$33.42	07/01/2010	
Painters Class 6 (see notes)	\$24.77	\$12.81	\$37.58	06/01/2009	
Painters Class 6 (see notes)	\$25.28	\$13.53	\$38.81	06/01/2010	
Pile Driver Divers (Building, Heavy, Highway)	\$43.28	\$12.00	\$55.28	01/01/2009	
Pile Driver Divers (Building, Heavy, Highway)	\$44.39	\$12.25	\$56.64	01/01/2010	
Plasterers	\$20.97	\$9.64	\$30.61	06/01/2008	
Plumbers and Steamfitters	\$28.54	\$18.48	\$47.02	06/01/2009	
Plumbers and Steamfitters	\$30.14	\$18.83	\$48.97	06/01/2010	
Plumbers and Steamfitters	\$31.81	\$19.18	\$50.99	06/01/2011	
Pointers, Caulkers, Cleaners	\$25.88	\$13.33	\$39.21	07/01/2009	
Pointers, Caulkers, Cleaners	\$25.98	\$13.83	\$39.81	12/01/2009	
Roofers	\$26.00	\$11.69	\$37.69	06/01/2009	
Roofers	\$27.50	\$11.69	\$39.19	06/01/2010	
Sheet Metal Workers	\$29.56	\$29.12	\$58.68	06/01/2009	
Sign Makers and Hangars	\$24.17	\$15.99	\$40.16	07/01/2009	

Sprinklerfitters	\$33.35	\$17.05	\$50.40	07/01/2009	
Sprinklerfitters	\$33.85	\$17.60	\$51.45	01/01/2010	
Stone Masons	\$27.55	\$13.47	\$41.02	12/01/2007	
Stone Masons	\$28.92	\$15.20	\$44.12	12/01/2009	
Terrazzo Finisher	\$25.61	\$12.04	\$37.65	06/01/2009	
Terrazzo Finisher	\$25.76	\$12.54	\$38.30	12/01/2009	
Terrazzo Setter	\$26.15	\$13.05	\$39.20	06/01/2009	
Terrazzo Setter	\$26.30	\$13.55	\$39.85	12/01/2009	
Tile Finisher	\$20.62	\$10.05	\$30.67	12/01/2008	
Tile Finisher	\$20.92	\$11.05	\$31.97	12/01/2009	
Tile Setter	\$26.60	\$12.95	\$39.55	12/01/2008	
Tile Setter	\$27.10	\$13.95	\$41.05	12/01/2009	
Truckdriver class 1(see notes)	\$24.05	\$11.35	\$35.40	01/01/2009	
Truckdriver class 1(see notes)	\$24.80	\$11.95	\$36.75	01/01/2010	
Truckdriver class 2 (see notes)	\$24.23	\$11.44	\$35.67	01/01/2009	
Truckdriver class 2 (see notes)	\$24.98	\$12.04	\$37.02	01/01/2010	
Truckdriver class 3 (see notes)	\$24.74	\$11.69	\$36.43	01/01/2009	
Truckdriver class 3 (see notes)	\$25.49	\$12.29	\$37.78	01/01/2010	

(Heavy/Highway) BEDFORD COUNTY

<u>Contractor Craft</u>	<u>Hourly Rate</u>	<u>Fringe Benefits</u>	<u>Total</u>	<u>Effective Date</u>	<u>Expiration Date</u>
Carpenter Welder	\$27.99	\$12.16	\$40.15	01/01/2009	
Carpenter Welder	\$28.94	\$12.56	\$41.50	01/01/2010	
Carpenters	\$27.28	\$12.16	\$39.44	01/01/2009	
Carpenters	\$28.23	\$12.56	\$40.79	01/01/2010	
Cement Finishers	\$26.72	\$12.97	\$39.69	01/01/2009	
Cement Finishers	\$27.62	\$13.42	\$41.04	01/01/2010	
Laborers (Class 01 - See notes)	\$23.20	\$12.65	\$35.85	01/01/2009	
Laborers (Class 01 - See notes)	\$23.65	\$13.55	\$37.20	01/01/2010	
Laborers (Class 02 - See notes)	\$23.36	\$12.65	\$36.01	01/01/2009	
Laborers (Class 02 - See notes)	\$23.81	\$13.55	\$37.36	01/01/2010	
Laborers (Class 03 - See notes)	\$23.85	\$12.65	\$36.50	01/01/2009	
Laborers (Class 03 - See notes)	\$24.30	\$13.55	\$37.85	01/01/2010	
Laborers (Class 04 - See notes)	\$24.30	\$12.65	\$36.95	01/01/2009	
Laborers (Class 04 - See notes)	\$24.75	\$13.55	\$38.30	01/01/2010	
Laborers (Class 05 - See notes)	\$24.71	\$12.65	\$37.36	01/01/2009	
Laborers (Class 05 - See notes)	\$25.16	\$13.55	\$38.71	01/01/2010	
Laborers (Class 06 - See notes)	\$21.55	\$12.65	\$34.20	01/01/2009	
Laborers (Class 06 - See notes)	\$22.00	\$13.55	\$35.55	01/01/2010	

Laborers (Class 07 - See notes)	\$24.20	\$12.65	\$36.85	01/01/2009	
Laborers (Class 07 - See notes)	\$24.65	\$13.55	\$38.20	01/01/2010	
Laborers (Class 08 - See notes)	\$25.70	\$12.65	\$38.35	01/01/2009	
Laborers (Class 08 - See notes)	\$26.15	\$13.55	\$39.70	01/01/2010	
Operators (Class 01 - see notes)	\$26.09	\$14.44	\$40.53	01/01/2009	
Operators (Class 01 - see notes)	\$26.89	\$14.99	\$41.88	01/01/2010	
Operators (Class 02 -see notes)	\$25.81	\$14.44	\$40.25	01/01/2009	
Operators (Class 02 -see notes)	\$26.61	\$14.99	\$41.60	01/01/2010	
Operators (Class 03 - See notes)	\$22.17	\$14.44	\$36.61	01/01/2009	
Operators (Class 03 - See notes)	\$22.97	\$14.99	\$37.96	01/01/2010	
Operators (Class 04 - See notes)	\$21.68	\$14.44	\$36.12	01/01/2009	
Operators (Class 04 - See notes)	\$22.48	\$14.99	\$37.47	01/01/2010	
Operators (Class 05 - See notes)	\$21.47	\$14.44	\$35.91	01/01/2009	
Operators (Class 05 - See notes)	\$22.27	\$14.99	\$37.26	01/01/2010	
Painters Class 1 (see notes)	\$27.24	\$12.81	\$40.05	06/01/2009	
Painters Class 1 (see notes)	\$27.84	\$13.53	\$41.37	06/01/2010	
Painters Class 2 (see notes)	\$27.77	\$12.81	\$40.58	06/01/2009	
Painters Class 2 (see notes)	\$28.38	\$13.53	\$41.91	06/01/2010	
Painters Class 3 (see notes)	\$29.81	\$12.81	\$42.62	06/01/2009	
Painters Class 3 (see notes)	\$30.48	\$13.53	\$44.01	06/01/2010	
Painters Class 4 (see notes)	\$23.79	\$12.81	\$36.60	06/01/2009	
Painters Class 4 (see notes)	\$24.27	\$13.53	\$37.80	06/01/2010	
Painters Class 5 (see notes)	\$19.28	\$12.81	\$32.09	06/01/2009	
Painters Class 5 (see notes)	\$19.61	\$13.53	\$33.14	06/01/2010	
Piledrivers	\$28.85	\$12.00	\$40.85	01/01/2009	
Piledrivers	\$29.95	\$12.25	\$42.20	01/01/2010	

L&I Home
Bureau of Labor Law Compliance
Labor & Industry Building
Room 1301
651 Boas Street
Harrisburg PA 17121
(717)783-0746
Email: [LI, SLMR-LLC](mailto:LI@SLMR-LLC.com)

Everett Fares Warehouse Drops By Location and Type

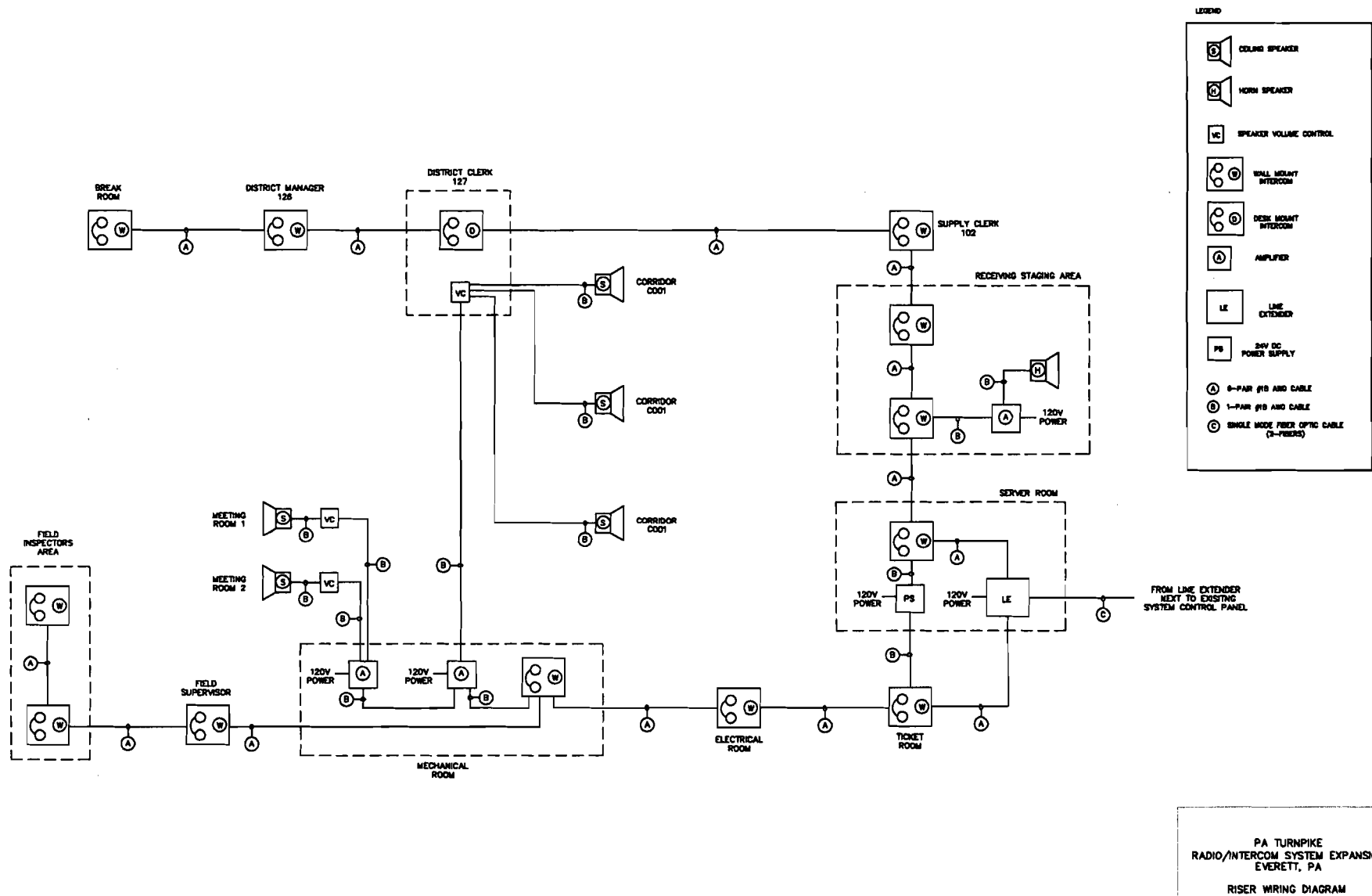
Office Number/Description	Data and Voice Drops	GAI-Tronics Desk Set Drop	GAI-Tronics Flush Mount Speaker	Volume Control	GAI-Tronics Wall Mount Intercom	Gai-Tronics Bull Horn Speaker	24 Strand Single Mode Fiber
101 (Vestibule)	1						
102 (Supply Clerk)	20				1		
103 (Main Warehouse)	8				4	1	
103A (Warehouse)	8						
104 (Secure Loading)							
105 (File Room)	9						
106 (Server Room)	4				1		
107 (Ticket Room)	25				1		
108 (Electrical Room)	5				1		
109 (Mechanical Room)	5				1		
110 (Field Supervisors)	16				1		
111 (Meeting Room 1)	8		1	1			
112 (Meeting Room 2)	8		1	1			
113 (Construction Inspection)	48				2		
114 (Recently Archived Projects)	8						

APPENDIX B

Everett Fares Warehouse Drops By Location and Type

Office Number/Description	Data and Voice Drops	GAI-Tronics Desk Set Drop	Flush Mount Speaker	Volume Control	GAI-Tronics Wall Mount Intercom	Gai-Tronics Bull Horn Speaker	24 Strand Single Mode Fiber
115 (Field Managers)	8						
116 (Project Managers)	8						
117 (Construction Manager)	8						
118 (Construction Manager)	8						
119 (CDS Technicians and Sub)	8						
120 (Vestibule)	1						
121 (Kitchen/Break Room)	1				1		
122 (Janitor)							
123 (Men's Room)							
124 (Women's Room)							
125 (Fare Collection Storage)	4						
126 (District Manager)	16				1		
127 (District Clerks)	16	1		1			
C001 (Corridor)			2				
C002 (Corridor)			1				
HIRSCH Controller	1						
HVAC Controller	1						
PSP and Miller Buildings							1
Totals	253	1	5	3	14	1	1

APPENDIX C



APPENDIX D

COMMONWEALTH OF PENNSYLVANIA



PENNSYLVANIA TURNPIKE COMMISSION

DRAWINGS FOR

CONTRACT NUMBER T-154.42F003-3-02

FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING

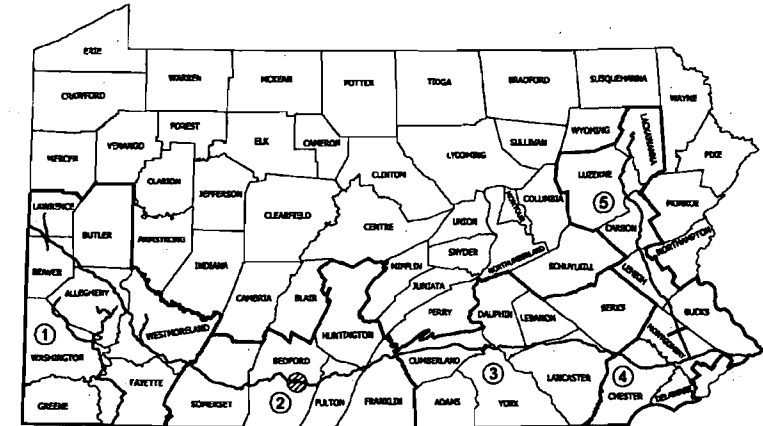
AT THE

EVERETT MAINTENANCE FACILITY

AT MILEPOST 154.42 EASTBOUND

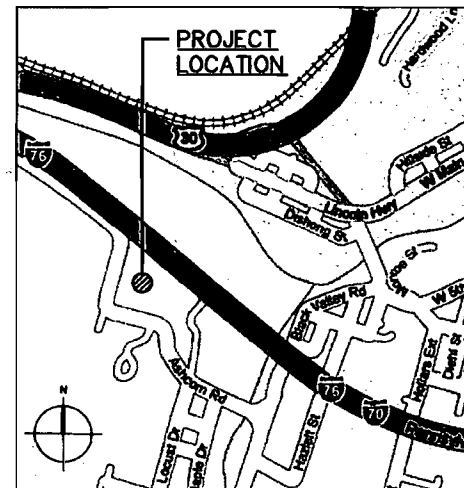
IN

BEDFORD COUNTY, PENNSYLVANIA



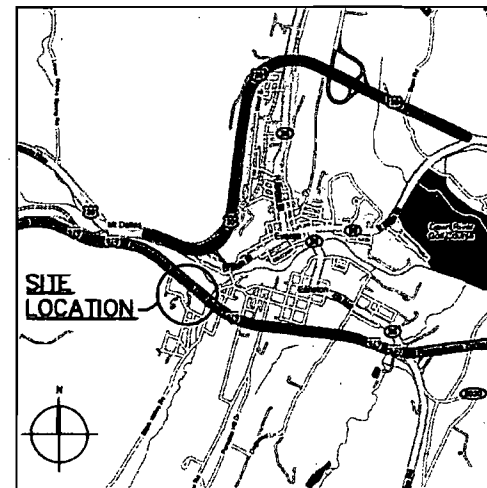
PROJECT LOCATION

DISTRICT	COUNTY	TOWNSHIP / BOROUGH	SECTION	SHEETS
2	BEDFORD	WEST PROVIDENCE TOWNSHIP		115



PROJECT LOCATION MAP

SCALE: 1" = 500'



SITE LOCATION MAP

SCALE: 1" = 2000'



CONTACT PERSON:
PENNSYLVANIA TURNPIKE COMMISSION
WESTERN REGION OFFICE
2200 NORTH CENTER AVENUE
NEW STANTON, PA 15672
ATTN: MR. CHRISTOPHER DAVID
PHONE: 724-755-5168

Architect / Engineer
Astorino
227 Fort Pitt Boulevard
Pittsburgh, PA 15222
(412) 765-1700

Consultant
D.W. LaSota Engineering, Inc.
901 Sixth Avenue, Suite 100
Patton, PA 16668
(814) 674-2650

WBS NO.	T-154.42F003-3-02
NETWORK NUMBER:	7000806
FILE NAME:	CV01.dwg
DRAWING TYPE:	COVER SHEET
STRUCTURE NUMBER:	
DRAWING:	CV01 OF 4
SHEET:	1 OF 115



PREPARED BY:	ASTORINO
Architecture Engineering Interior Design Design/Build	
227 FORT PITT BOULEVARD	PITTSBURGH, PA 15222
TEL. 412-765-1700	
FAX. 412-765-1711	
DATE	
DATE	



CHIEF ENGINEER
PENNSYLVANIA TURNPIKE
COMMISSION

APPROVED:	DATE
CHIEF ENGINEER, PENNSYLVANIA TURNPIKE COMMISSION	
RECOMMENDED:	DATE
SECRETARY TREASURER, PENNSYLVANIA TURNPIKE COMMISSION	
MAY 19, 2009	
COMMISSION APPROVAL	

AFF	ABOVE FINISHED FLOOR	FS	FAR SIDE	NC	NON COMBUSTIBLE	SECT	SECTION
ACT	ACOUSTICAL TILE	FIN	FINISH (ED)	NS	NEAR SIDE	SIM	SIMILAR
AD	AREA DRAIN	FA	FIRE ALARM	NOM	NOMINAL	SL	SLOPE
ADA	AMERICANS WITH DISABILITIES ACT	F.E.	FIRE EXTINGUISHER	NIC	NOT IN CONTRACT	SOL	SOLID
ADJ	ADJACENT	F.E.C.	FIRE EXTINGUISHER CAB.	NTS	NOT TO SCALE	SC	SOLID CORE
ADMIN. ASSIST.	ADMINISTRATIVE ASSISTANT	FHC	FIRE HOSE CABINET	NO	NUMBER	SPEC	SPECIFICATIONS
AEE	ALARMED EMERGENCY EXIT	FH	FIRE HYDRANT	OC	ON CENTER	SQ	SQUARE
APPROX	APPROXIMATE	FL	FLOOR	OH	OPPOSITE HAND	SST	STAINLESS STEEL
ALT	ALTERNATE	FD	FLOOR DRAIN	OPNG	OPENING	STD	STANDARD
ALUM	ALUMINUM	FT	FOOT	OPP	OPPOSITE	STL	STEEL
ARCH	ARCHITECTURAL	FTG	FOOTING	OSCI	OWNER SUPPLIED, CONTRACTOR INSTALLED	SD	STORM DRAIN
AUTH	AUTHORITY					S.O.	SLAB OPENING
		GA	GAGE	PTD	PAINTED	STRUCT	STRUCTURAL
BRG	BEARING	GALV	GALVANIZED	PR	PAIR	SFC	SURFACE
BLKG	BLOCKING	GL	GLASS	PNL	PANEL	SUSP	SUSPENDED
BD	BOARD	GRD	GRADE	PTN	PARTITION		
BOT	BOTTOM	GD	GUARD	PLAS	PLASTER	TEMP	TEMPERED/ TEMPERATURE
BLDG	BUILDING	GWB	GYPSON WALL BOARD	PLAM	PLASTIC LAMINATE	TZO	TERRAZZO
BUR	BUILT-UP ROOF (ING)			PL	PLATE	TH	THRESHOLD
				PWD	PLYWOOD	TOD	TOP OF DECK
CA	CARD ACCESS	H.C.	HOUSEKEEPING CLOSET	PVC	POLYVINYL CHLORIDE	TOS	TOP OF STEEL
CAB	CABINET	HR	HANDRAIL	PSI	POUNDS PER SQ.INCH	TOW	TOP OF WALL
CPT	CARPET	HD	HEAD	PC	PRE-CAST	TOT	TOTAL
CI	CAST IRON	HTG	HEATING	PRE-FAB	PREFABRICATED	T	TREAD
CB	CATCH BASIN	HVAC	HEATING, VENTILATING & AIR CONDITIONING	PROJ	PROJECTION	TRT	TREATED
		HT	HEIGHT	PL	PROPERTY LINE	TYP	TYPICAL
CLG	CEILING	HM	HOLLOW METAL	PM	PROJECT MANAGER		
CEM	CEMENT	HORIZ	HORIZONTAL	PA	PROJECT ARCHITECT	UL	UNDERWRITERS LABORATORIES INC.
CL	CENTERLINE/ COLUMN LINE	HW	HOT WATER			UNO	UNLESS NOTED OTHERWISE
CT	CERAMIC TILE			QTY	QUANTITY	VEN	VENEER
CO	CLEAN OUT	ID	INSIDE DIAMETER	QT	QUARRY TILE	VTR	VENT THRU ROOF
COL	COLUMN	INSUL	INSULATE (D) (ION)			VIF	VERIFY IN FIELD
CONC	CONCRETE	INT	INTERIOR	RAD	RADIUS	VERT	VERTICAL
CMU	CONCRETE MASONRY UNIT	INV	INVERT	RLG	RAILING	VCT	VINYL COMPOSITION TILE
CONT	CONTINUOUS			RWL	RAIN WATER LEADER	VWC	VINYL WALL COVERING
CONTR	CONTRACTOR			REC	RECESSED		
CJ	CONTROL JOINT	JAN	JANITOR	RE:	REFER TO		
CG	CORNER GUARD	JT	JOINT	REINF	REINFORCE (D) (ING)	WSCT	WAINSCOT
CR	CARD READER			REQ'D	REQUIRED	WPFG	WATERPROOFING
CTR	COUNTER	LAM	LAMINATED	RA	RETURN AIR	WT	WEIGHT
		LH	LEFT HAND	REV	REVISION	WWF	WELDED WIRE FABRIC
DEG	DEGREE (S)	LT	LIGHT	RH	RIGHT HAND	W/	WITH
DEMO	DEMOLISH	LOC	LOCATION/ LOCAL	R	RISER	W/O	WITHOUT
DET	DETAIL			RD	ROOF DRAIN	WD	WOOD
DIAG	DIAGONAL			RO	ROUGH OPENING	WP	WORK POINT
DIA	DIAMETER	MFG	MANUFACTURER				

1. DO NOT SCALE DRAWINGS.
2. ALL PARTITION DIMENSIONS ARE FROM STUD TO STUD UNLESS NOTED OTHERWISE, ALL FIXTURE DIMENSIONS ARE TO FACE OF FINISHED PARTITION.
3. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS. CONTRACTOR SHALL NOTIFY THE REPRESENTATIVE OF ALL DISCREPANCIES PRIOR TO COMMENCING WITH THE WORK.
4. LARGE SCALE DETAILS SHALL GOVERN OVER SMALLER SCALE PLANS.
5. CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED IN PARTITIONS, EXTERIOR WALLS, FLOORS AND ROOF FOR MECHANICAL, ELECTRICAL AND PLUMBING WORK. FURNISH & INSTALL ALL REQUIRED LINTELS AND SLEEVES FOR ALL PIPING CONDUITS, DUCTWORK, ETC. COORDINATE THIS WORK WITH ALL SUB CONTRACTORS. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING, DRAWINGS.

	TOILET ACCESSORY TAG		ROOM TAG
	DOOR TAG		
	WINDOW TYPE		
	DEMOLITION TAG		BUILDING ELEVATION TAG
	PARTITION TYPE		
	EQUIPMENT TAG		
	COLUMN BUBBLE NEW WORK		BUILDING SECTION TAG
	FLOOR EL. _____ ELEVATION MARK		
	NUMBERED KEY NOTE		
	LETTERED KEY NOTE		
	FRAMED PARTITION		DETAIL REFERENCES
	MASONRY PARTITION		
	SPOT ELEVATION		INTERIOR SECTION
	LAY IN ACOUSTICAL TILE CEILING PANELS		CASEWORK SECTION
	GYPSUM BOARD CEILING / SOFFIT		
	CEILING HEIGHT INDICATOR ABOVE FINISHED FLOOR		ENLARGED PLAN REFERENCE
	FIRE EXTINGUISHER CABINET W/ TYPE A-B-C FIRE EXTINGUISHER		
	TYPE A-B-C FIRE EXTINGUISHER		
	CARD ACCESS		
	ALARMED EMERGENCY EXIT		
	MATCHLINE		NORTH INDICATOR
	1 HOUR RATED PARTITION		

TITLE _____

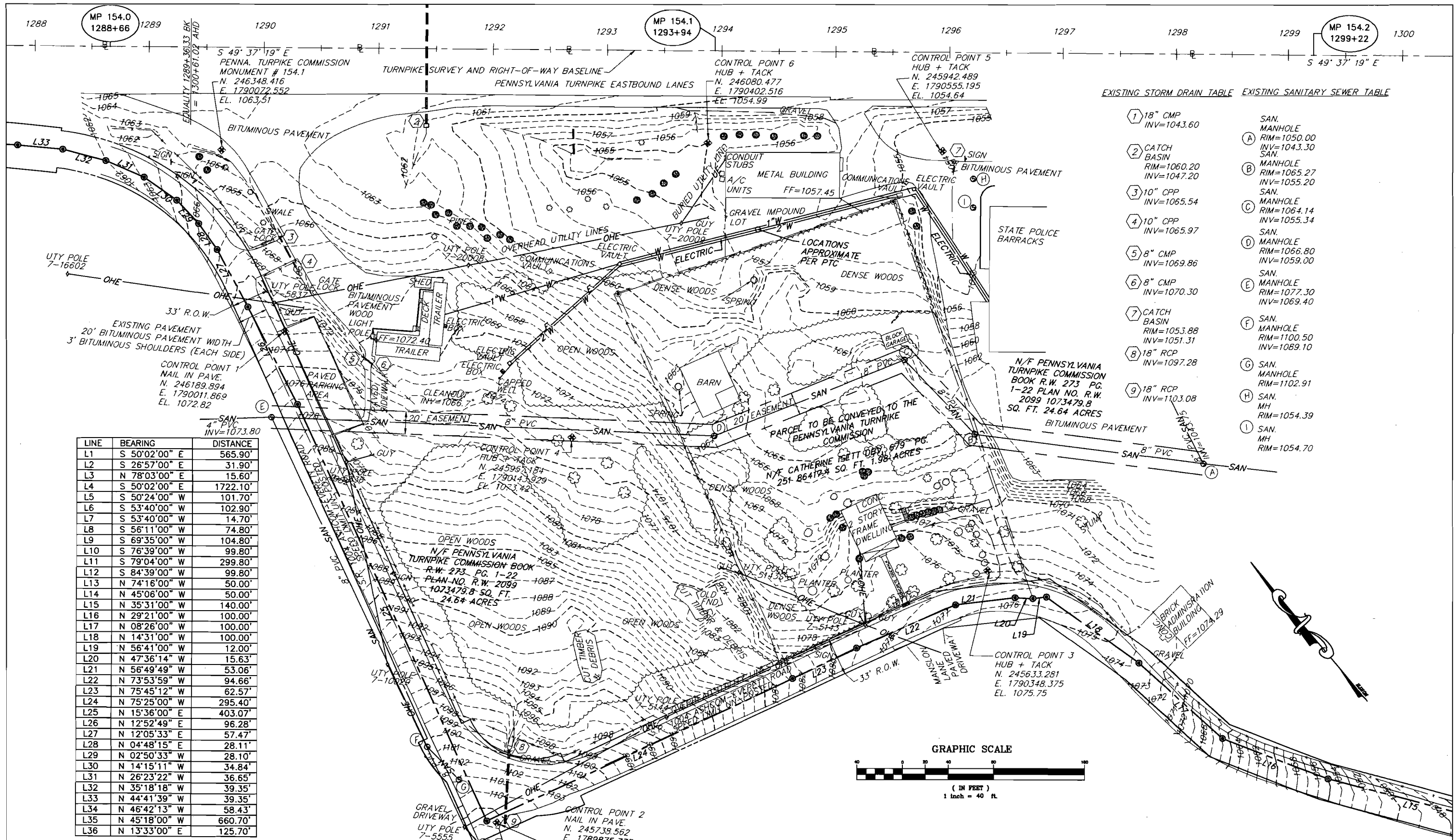
SCALE: 1/8"=1'-0"

DESCRIPTION
DESCRIPTION _____
DESCRIPTION

SCALE X'/X'' = X'-X''

GRAPHIC SCALE
(SCALE AS NOTED ON DRAWING)

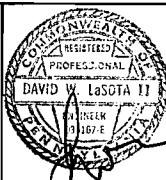
[illegible]



LINE	BEARING	DISTANCE
L1	S 50°02'00" E	565.90'
L2	S 26°57'00" E	31.90'
L3	N 78°03'00" E	15.60'
L4	S 50°02'00" E	1722.10'
L5	S 50°24'00" W	101.70'
L6	S 53°40'00" W	102.90'
L7	S 53°40'00" W	14.70'
L8	S 56°11'00" W	74.80'
L9	S 69°35'00" W	104.80'
L10	S 76°39'00" W	99.80'
L11	S 79°04'00" W	299.80'
L12	S 84°39'00" W	99.80'
L13	N 74°16'00" W	50.00'
L14	N 45°06'00" W	50.00'
L15	N 35°31'00" W	140.00'
L16	N 29°21'00" W	100.00'
L17	N 08°26'00" W	100.00'
L18	N 14°31'00" W	100.00'
L19	N 56°41'00" W	12.00'
L20	N 47°36'14" W	15.63'
L21	N 56°49'49" W	53.06'
L22	N 73°53'59" W	94.66'
L23	N 75°45'12" W	62.57'
L24	N 75°25'00" W	295.40'
L25	N 15°36'00" E	403.07'
L26	N 12°52'49" E	96.28'
L27	N 12°05'33" E	57.47'
L28	N 04°48'15" E	28.11'
L29	N 02°50'33" W	28.10'
L30	N 14°15'11" W	34.84'
L31	N 26°23'22" W	36.65'
L32	N 35°18'18" W	39.35'
L33	N 44°41'39" W	39.35'
L34	N 46°42'13" W	58.43'
L35	N 45°18'00" W	660.70'
L36	N 13°33'00" E	125.70'

EXISTING STORM DRAIN TABLE EXISTING SANITARY SEWER TABLE

1	18" CMP INV=1043.60	SAN. MANHOLE RIM=1050.00 INV=1043.30 SAN.
2	CATCH BASIN RIM=1060.20 INV=1047.20	(A) MANHOLE RIM=1065.27 INV=1055.20 SAN.
3	10" CPP INV=1065.54	(C) MANHOLE RIM=1064.14 INV=1055.34 SAN.
4	10" CPP INV=1065.97	(D) MANHOLE RIM=1066.80 INV=1059.00 SAN.
5	8" CMP INV=1069.86	(E) MANHOLE RIM=1077.30 INV=1069.40 SAN.
6	8" CMP INV=1070.30	(F) SAN. MANHOLE RIM=1100.50 INV=1089.10 SAN.
7	CATCH BASIN RIM=1053.88 INV=1051.31	(G) SAN. MANHOLE RIM=1102.91 MH RIM=1054.39
8	18" RCP INV=1097.28	(H) SAN. MH RIM=1054.70
9	18" RCP INV=1103.08	(I) SAN. MH RIM=1054.70



PREPARED BY:
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ASTORINO PROJECT No. 2006593.06
PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



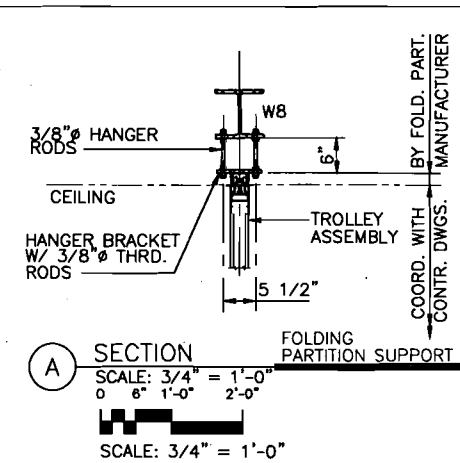
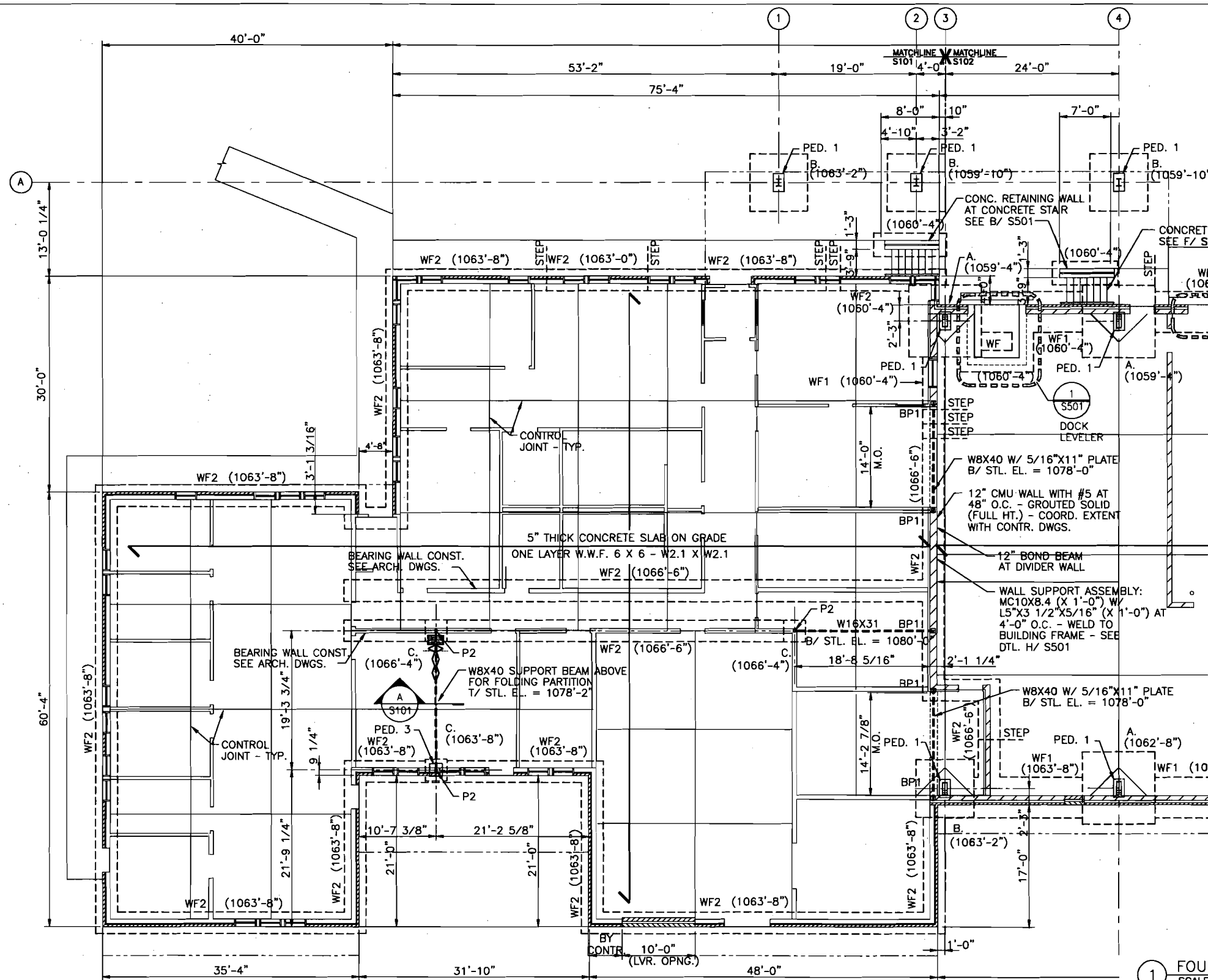
NO.	REVISIONS	DATE	APPR.

WBS NO.
T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: C-100.dwg
DRAWING TYPE: CIVIL
STRUCTURE NUMBER:
SCALE: AS NOTED

**FARE COLLECTIONS
WAREHOUSE / OFFICE BUILDING
AT THE
EVERETT MAINTENANCE FACILITY
AT MILEPOST 154.42 EASTBOUND**
DISTRICT: 2 COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP

EXISTING CONDITIONS PLAN
DRAWING: C1.00 OF 3
SHEET: 7 OF 115
DATE: 08-26-2009

File name: P:\Project\2006593_06\CAD\Structural\101-PTC.dwg Aug 19, 2009 2:32pm JLeonard



FOOTING SCHEDULE		
MARK	SIZE	REINF. EA. WAY
WF1	SEE E/S501	
WF2	SEE H/S502 - COORD. W/ ARCH. DWGS.	
A.	10'-0"X10'-0"X2'-0"	10-#7 (BOTTOM)
B.	8'-0"X8'-0"X1'-6"	9-#6 (BOTTOM)
C.	3'-0"X3'-0"X1'-0"	4-#4 E.W.

NOTE:
FOR VARIOUS WALL CONFIGURATIONS AT FOOTING
"WF1" OR "WF2" - SEE DETAILS ON DWG. S501
AND S502. COORDINATE LOCATIONS WITH THE
CONTRACTOR'S DRAWINGS.

12" BOND BEAM
(AT DIVIDER WALL)
CONT. 12" CMU BOND BEAM
WITH 2-#5 (CONT.)
GROUTED SOLID
T/ BB = 1079'-4" UN.O.

8" BOND BEAM
(AT PERIMETER WALL OF P.E.B.)
CONT. 8" CMU BOND BEAM
WITH 2-#5 (CONT.)
GROUTED SOLID
T/ BB = 1079'-4" UN.O.

P.E.B. = PRE-ENGINEERED BUILDING

POST "P1"
SEE 1/ S501

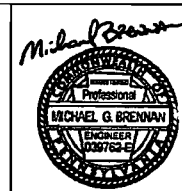
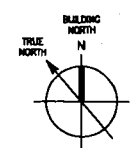
POST "P2"
TS 4"X4"X1/4" WITH
1/2"X12"X12" PLATE W/
4- 5/8" ANCHOR BOLTS

BP1
3/8"X9"X9" WITH
(1) 5/8" X 7" LONG STUD
WELD BEAM TO BEARING PLATE

FOR CONCRETE EQUIPMENT PADS
SEE G/ S502 (TYP.) - COORD.
LOCATIONS WITH CONTR. DWGS.

NOTE:
PRE-ENGINEERED BUILDING FOUNDATIONS
ARE BASED ON PRELIMINARY INFORMATION.
CONTRACTOR MUST SUBMIT FINAL DESIGN
FOR APPROVAL AND VERIFICATION PRIOR TO
BEGINNING FOUNDATION WORK.

1 FOUNDATION/ 1ST FLOOR PLAN - WEST SIDE
SCALE: 1/8" = 1'-0"
FINISHED FLOOR EL. 1068'-0"
(XXXX'-XX") = BOTTOM OF FOOTING
SCALE: 1/8" = 1'-0"



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ASTORINO PROJECT No. 2006593.06
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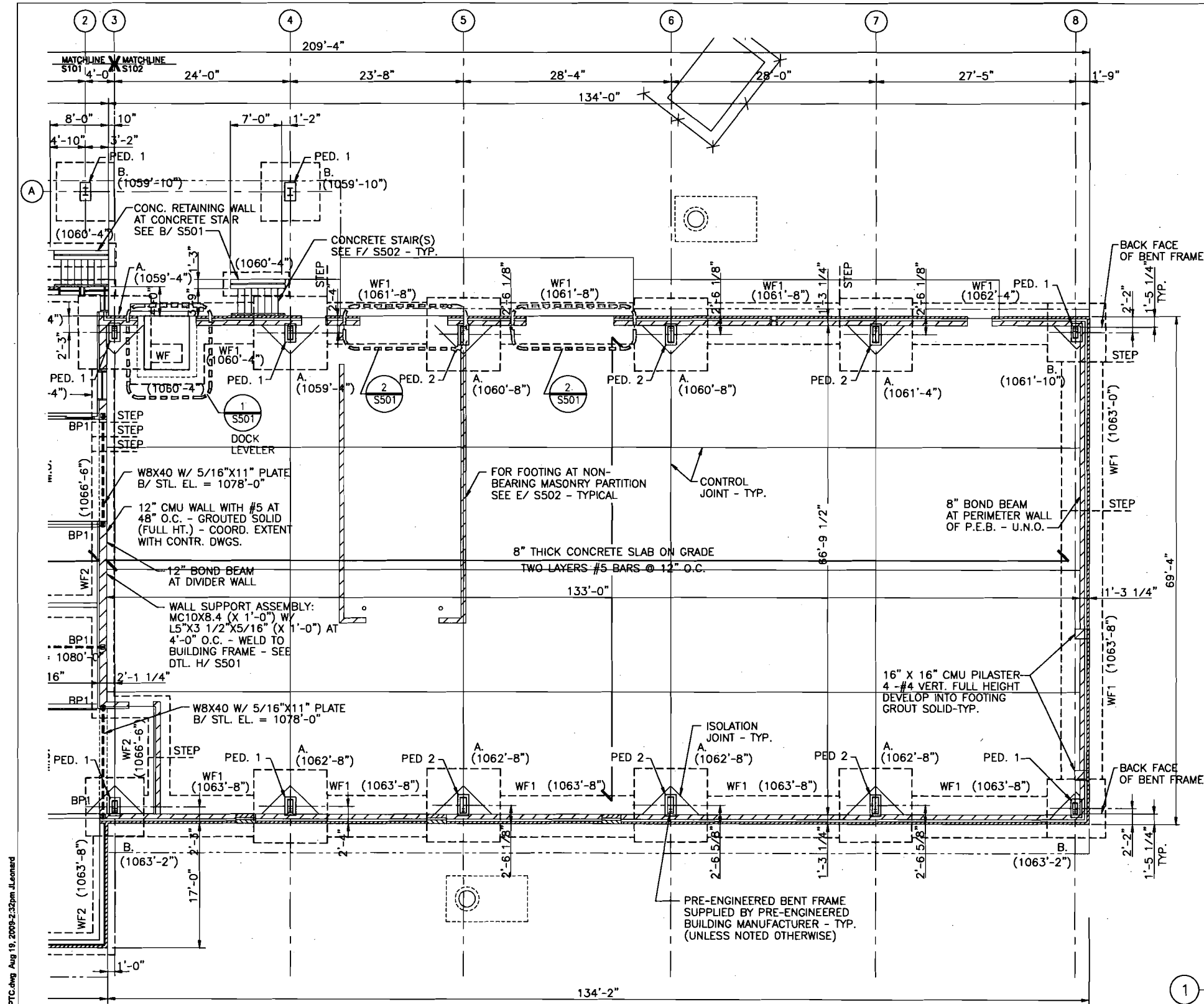


NO.	REVISIONS	DATE	APPR.

WBS NO.
T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME:
DRAWING TYPE: STRUCTURAL
STRUCTURE NUMBER:
SCALE: AS NOTED

**FARE COLLECTIONS
WAREHOUSE / OFFICE BUILDING
AT THE
EVERETT MAINTENANCE FACILITY
AT MILEPOST 154.42 EASTBOUND**
DISTRICT: 2 COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP

**FOUNDATION/ 1st
FLOOR PLAN**
DRAWING: S101 OF 1
SHEET: 34 OF 115
DATE: 08-26-2009



FOOTING SCHEDULE		
MARK	SIZE	REINF. EA. WAY
WF1	SEE E/S501	
WF2	SEE H/S502 - COORD. W/ ARCH. DWGS.	
A.	10'-0"X10'-0"X2'-0"	10-#7 (BOTTOM)
B.	8'-0"X8'-0"X1'-6"	9-#6 (BOTTOM)
C.	3'-0"X3'-0"X1'-0"	4-#4 E.W.

NOTE:
FOR VARIOUS WALL CONFIGURATIONS AT FOOTING
"WF1" OR "WF2" - SEE DETAILS ON DWG. S501
AND S502. COORDINATE LOCATIONS WITH THE
CONTRACTOR'S DRAWINGS.

12" BOND BEAM
(AT DIVIDER WALL)
CONT. 12" CMU BOND BEAM
WITH 2-#5 (CONT.)
GROUTED SOLID
T/ BB = 1079'-4" UN.O.

8" BOND BEAM
(AT PERIMETER WALL OF P.E.B.)
CONT. 8" CMU BOND BEAM
WITH 2-#5 (CONT.)
GROUTED SOLID
T/ BB = 1079'-4" UN.O.

P.E.B. = PRE-ENGINEERED BUILDING

POST "P1"
SEE 1/ S501

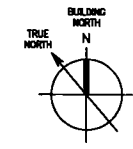
POST "P2"
TS 4"x4"x1/4" WITH
1/2"x12"x12" PLATE W/
4- 5/8"Ø ANCHOR BOLTS

BP1
3/8"x9"x9" WITH
(1) 5/8"Ø X 7" LONG STUD
WELD BEAM TO BEARING PLATE

FOR CONCRETE EQUIPMENT PADS
SEE G/ S502 (TYP.) - COORD.
LOCATIONS WITH CONTR. DWGS.

NOTE:
PRE-ENGINEERED BUILDING FOUNDATIONS
ARE BASED ON PRELIMINARY INFORMATION.
CONTRACTOR MUST SUBMIT FINAL DESIGN
FOR APPROVAL AND VERIFICATION PRIOR TO
BEGINNING FOUNDATION WORK.

1 FOUNDATION/ 1ST FLOOR PLAN - EAST SIDE
SCALE: 1/8" = 1'-0"
FINISHED FLOOR EL. 1068'-0"
(XXXX'-XX") = BOTTOM OF FOOTING
0 4' 8' 16'
SCALE: 1/8" = 1'-0"



File name: P:\Project\2006593.06\CAD\Structural\S102.FTC.dwg Aug 18, 2009 2:32pm J.Leonard

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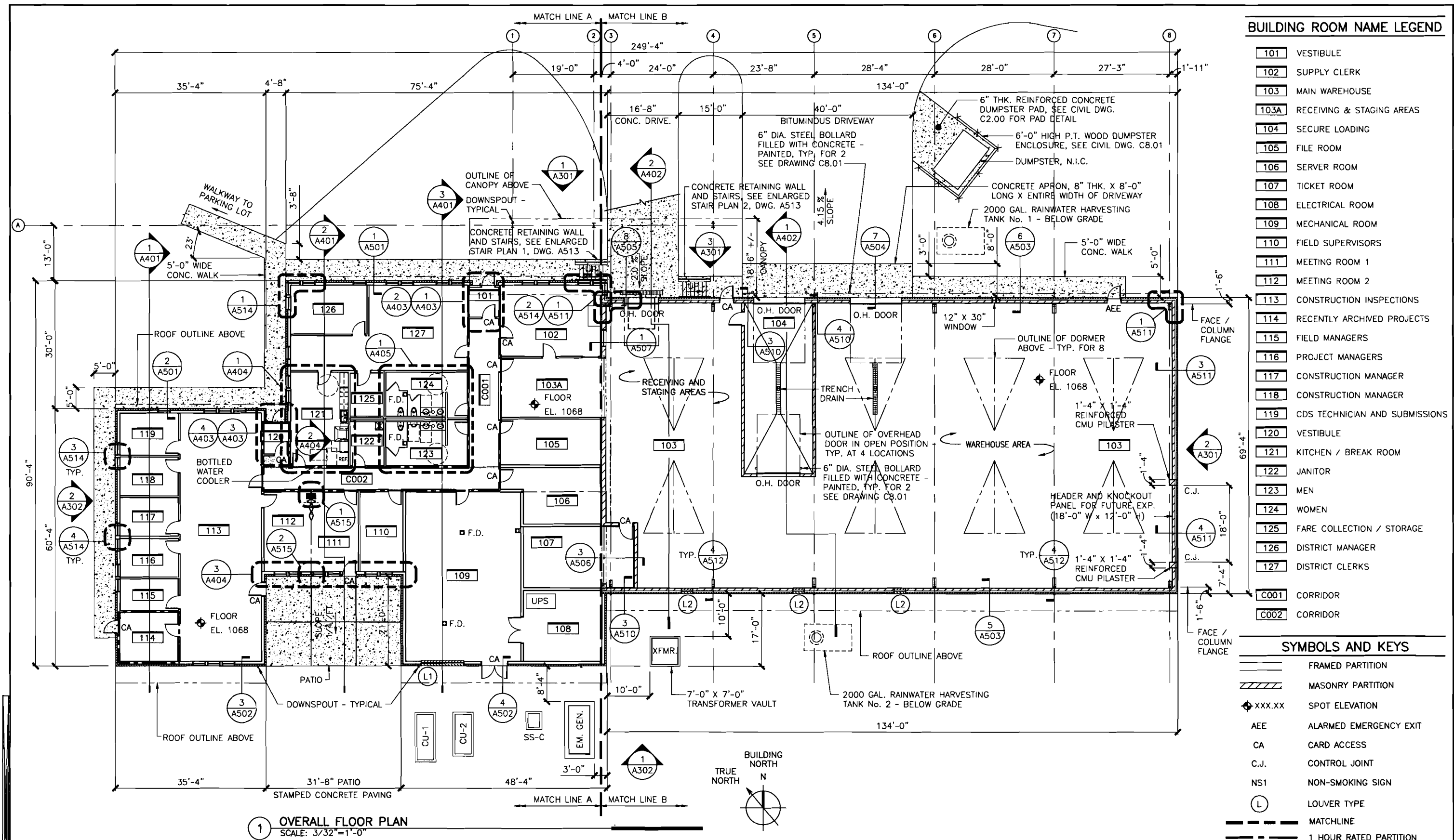


NO.	REVISIONS	DATE	APPR.

WBS NO. T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME:
DRAWING TYPE: STRUCTURAL
STRUCTURE NUMBER:
SCALE: AS NOTED

FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING AT THE EVERETT MAINTENANCE FACILITY AT MILEPOST 154.42 EASTBOUND	
DISTRICT: 2	COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP	DATE: 08-26-2009

FOUNDATION/ 1st FLOOR PLAN	
DRAWING: S102 OF 2	SHEET: 35 OF 115



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ASTORINO PROJECT No. 2006593.06
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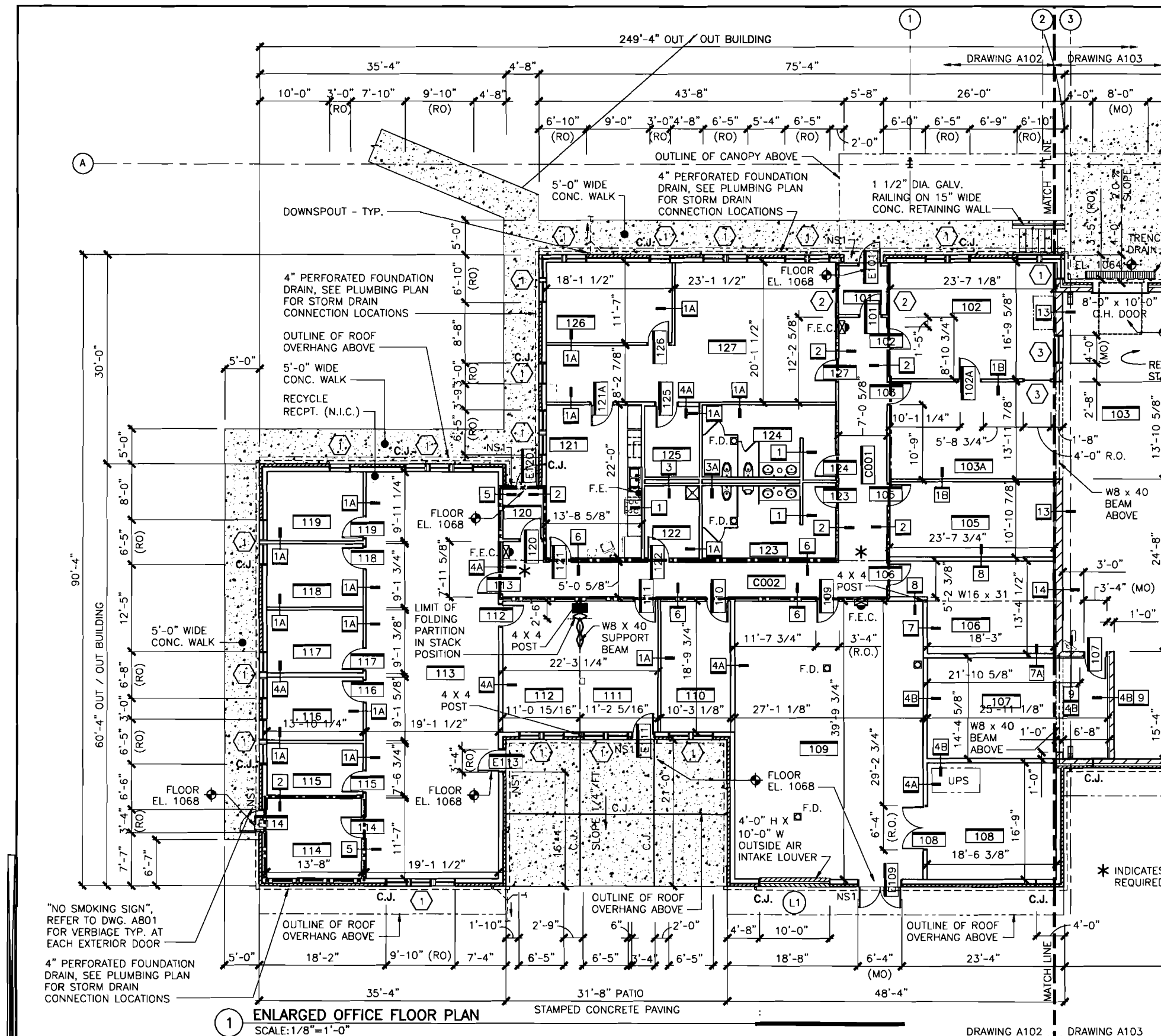


NO.	REVISIONS	DATE	APPR.

WBS NO.
T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: A101.dwg
DRAWING TYPE: ARCHITECTURAL
STRUCTURE NUMBER:
SCALE: 3/32" = 1'-0" 0 5' 10' 20'

**FARE COLLECTIONS
WAREHOUSE / OFFICE BUILDING
AT THE
EVERETT MAINTENANCE FACILITY
AT MILEPOST 154.42 EASTBOUND**
DISTRICT: 2 COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP

OVERALL FLOOR PLAN
DRAWING: A101 OF 1
SHEET: 41 OF 115
DATE: 08-26-2009



BUILDING ROOM NAME LEGEND

101	VESTIBULE
102	SUPPLY CLERK
103	MAIN WAREHOUSE
103A	RECEIVING & STAGING AREAS
104	SECURE LOADING
105	FILE ROOM
106	SERVER ROOM
107	TICKET ROOM
108	ELECTRICAL ROOM
109	MECHANICAL ROOM
110	FIELD SUPERVISORS
111	MEETING ROOM 1
112	MEETING ROOM 2
113	CONSTRUCTION INSPECTIONS
114	RECENTLY ARCHIVED PROJECTS
115	FIELD MANAGERS
116	PROJECT MANAGERS
117	CONSTRUCTION MANAGER
118	CONSTRUCTION MANAGER
119	CDS TECHNICIAN AND SUBMISSIONS
120	VESTIBULE
121	KITCHEN / BREAK ROOM
122	JANITOR
123	MEN
124	WOMEN
125	FARE COLLECTION / STORAGE
126	DISTRICT MANAGER
127	DISTRICT CLERKS
C001	CORRIDOR
C002	CORRIDOR

SYMBOLS AND KEYS

XXXX	DOOR TAG
X	WINDOW TYPE
X	PARTITION TYPE
XX	COLUMN BUBBLE NEW WORK
---	FRAMED PARTITION
///	MASONRY PARTITION
XXX.XX	SPOT ELEVATION
AEE	ALARMED EMERGENCY EXIT
CA	CARD ACCESS
C.J.	CONTROL JOINT
NS1	NON-SMOKING SIGN
L	LOUVER TYPE
F.E.C.	FIRE EXTINGUISHER CABINET W/ TYPE A-B-C FIRE EXTINGUISHER
F.E.	FIRE EXTINGUISHER, TYPE A-B-C
XXXX	ROOM TAG
---	MATCHLINE
---	1 HOUR RATED PARTITION

GENERAL DRAWING NOTES

- SURE-BOARD SHEAR WALL MATERIAL (SERIES 200W AND SERIES 200) TO BE LOCATED ON EXTERIOR AND INTERIOR BEARING WALLS OF COLD-FORM FRAMING SYSTEM, DIRECTLY TO THE STUDS. (SERIES 200W FOR EXTERIOR BEARING WALLS AND SERIES 200 FOR INTERIOR BEARING WALLS). SURE-BOARD SERIES 200W CAN BE INSTALLED WITH INSUL. SHEATHING OR GYPSUM WALL BOARD OVER THE SURE-BOARD MEDIUM DENSITY FIBERBOARD (MDF). SURE-BOARD ALSO TO TURN THE CORNER OF EXTERIOR BEARING WALLS ONTO NON-BEARING PERPENDICULAR WALLS FOR A MIN. DISTANCE OF 8 FT. UNLESS INTERRUPTED BY A WINDOW, OR AS REQUIRED BY COLD-FORM FRAMING SPECIFICATION.
- ALL ROOM DIMENSIONS ARE REFERENCED TO WALL STUDS.

1 ENLARGED OFFICE FLOOR PLAN
SCALE: 1/8" = 1'-0"



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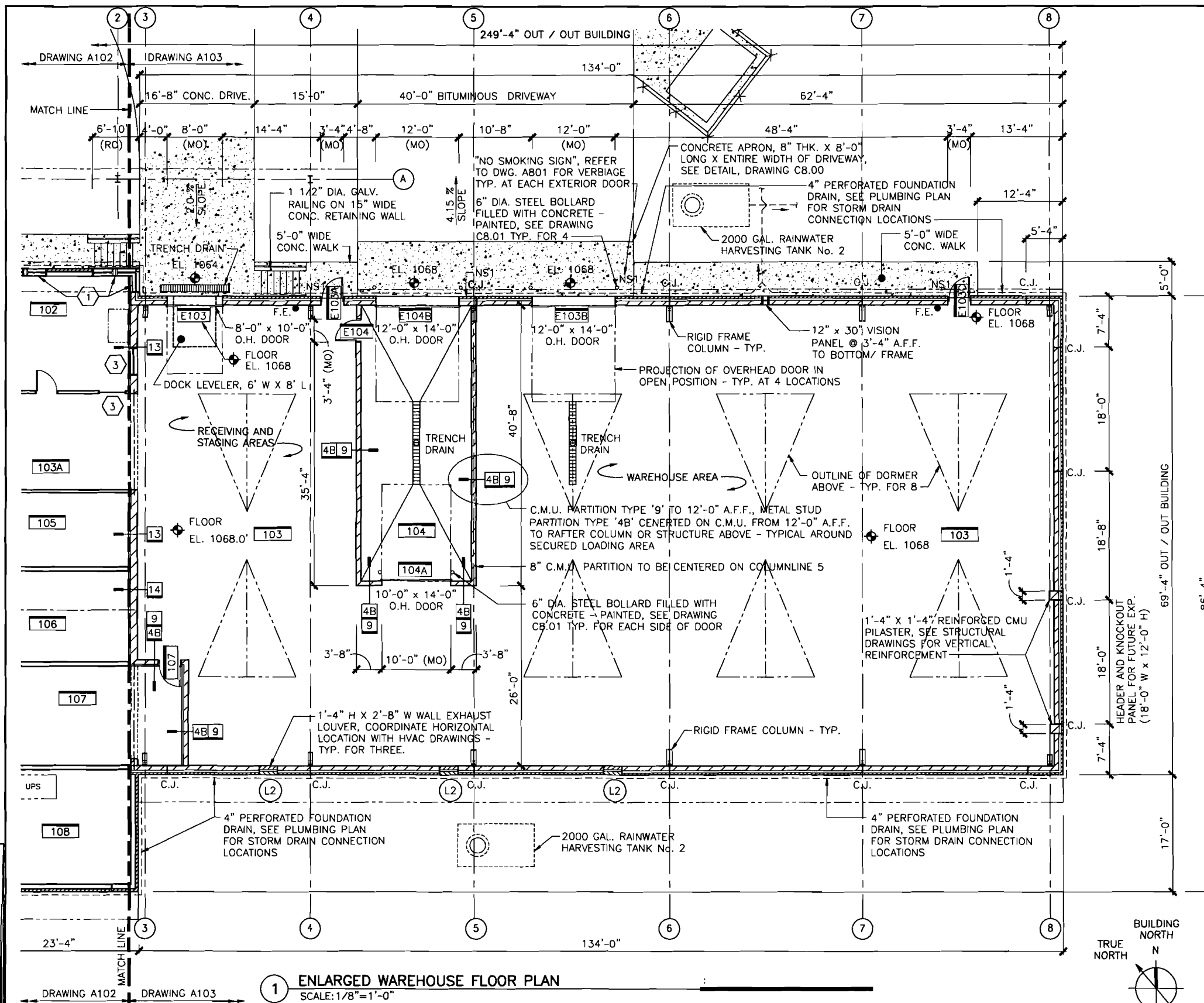


NO.	REVISIONS	DATE	APPR.

WBS NO. T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: A102.dwg
DRAWING TYPE: ARCHITECTURAL
STRUCTURE NUMBER:
SCALE: 1/8" = 1'-0" 0 4' 8' 16'

FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING AT THE EVERETT MAINTENANCE FACILITY AT MILEPOST 154.42 EASTBOUND	
DISTRICT: 2	COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP	DATE: 08-28-2009

ENLARGED OFFICE FLOOR PLAN	
DRAWING: A102 OF 2	SHEET: 42 OF 115



BUILDING ROOM NAME LEGEND

101	VESTIBULE
102	SUPPLY CLERK
103	MAIN WAREHOUSE
103A	RECEIVING & STAGING AREAS
104	SECURE LOADING
105	FILE ROOM
106	SERVER ROOM
107	TICKET ROOM
108	ELECTRICAL ROOM
109	MECHANICAL ROOM
110	FIELD SUPERVISORS
111	MEETING ROOM 1
112	MEETING ROOM 2
113	CONSTRUCTION INSPECTIONS
114	RECENTLY ARCHIVED PROJECTS
115	FIELD MANAGERS
116	PROJECT MANAGERS
117	CONSTRUCTION MANAGER
118	CONSTRUCTION MANAGER
119	CDS TECHNICIAN AND SUBMISSIONS
120	VESTIBULE
121	KITCHEN / BREAK ROOM
122	JANITOR
123	MEN
124	WOMEN
125	FARE COLLECTION / STORAGE
126	DISTRICT MANAGER
127	DISTRICT CLERKS
C001	CORRIDOR
C002	CORRIDOR

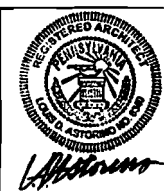
SYMBOLS AND KEYS

XXXX	DOOR TAG
X	WINDOW TYPE
X	PARTITION TYPE
XX	COLUMN BUBBLE NEW WORK
=====	FRAMED PARTITION
=====	MASONRY PARTITION
XXX.XX	SPOT ELEVATION
AEE	ALARMED EMERGENCY EXIT
CA	CARD ACCESS
C.J.	CONTROL JOINT
NS1	NON-SMOKING SIGN
L	LOUVER TYPE
	FIRE EXTINGUISHER CABINET W/ TYPE A-B-C FIRE EXTINGUISHER
F.E.	FIRE EXTINGUISHER, TYPE A-B-C
XXXX	ROOM TAG
=====	MATCHLINE
=====	1 HOUR RATED PARTITION

GENERAL DRAWING NOTES

- SURE-BOARD SHEAR WALL MATERIAL (SERIES 200W AND SERIES 200) TO BE LOCATED ON EXTERIOR AND INTERIOR BEARING WALLS OF COLD-FORM FRAMING SYSTEM, DIRECTLY TO THE STUDS. (SERIES 200W FOR EXTERIOR BEARING WALLS AND SERIES 200 FOR INTERIOR BEARING WALLS). SURE-BOARD SERIES 200W CAN BE INSTALLED WITH INSUL. SHEATHING OR GYPSUM WALL BOARD OVER THE SURE-BOARD MEDIUM DENSITY FIBERBOARD (MDF). SURE-BOARD ALSO TO TURN THE CORNER OF EXTERIOR BEARING WALLS ONTO NON-BEARING PERPENDICULAR WALLS FOR A MIN. DISTANCE OF 8 FT. UNLESS INTERRUPTED BY A WINDOW, OR AS REQUIRED BY COLD-FORM FRAMING SPECIFICATION.

1 ENLARGED WAREHOUSE FLOOR PLAN
SCALE: 1/8"=1'-0"



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Architecture Engineering Interior Design Design/Build
ASTORINO PROJECT No. 2006593.06
PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION

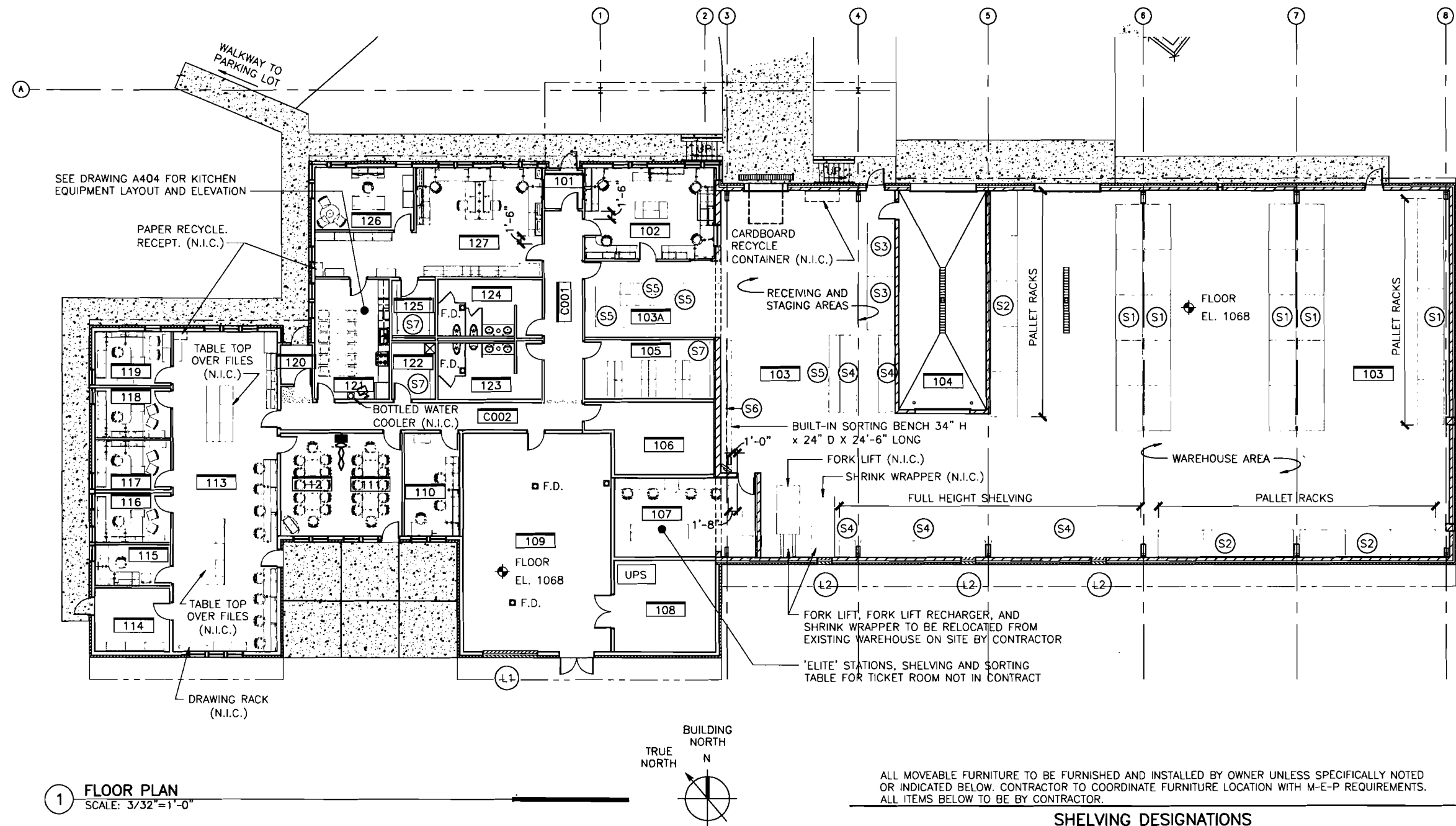


NO.	REVISIONS	DATE	APPR.

WBS NO. T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: A103.dwg
DRAWING TYPE: ARCHITECTURAL
STRUCTURE NUMBER:
SCALE: 1/8" = 1'-0"

**FARE COLLECTIONS
WAREHOUSE / OFFICE BUILDING
AT THE
EVERETT MAINTENANCE FACILITY
AT MILEPOST 154.42 EASTBOUND**

DISTRICT: 2	COUNTY: BEDFORD	DRAWING: A103 OF 3
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP	DATE: 08-28-2009	SHEET: 43 OF 115



BUILDING ROOM NAME LEGEND

101	VESTIBULE
102	SUPPLY CLERK
103	MAIN WAREHOUSE
103A	RECEIVING & STAGING AREAS
104	SECURE LOADING
105	FILE ROOM
106	SERVER ROOM
107	TICKET ROOM
108	ELECTRICAL ROOM
109	MECHANICAL ROOM
110	FIELD SUPERVISORS
111	MEETING ROOM 1
112	MEETING ROOM 2
113	CONSTRUCTION INSPECTIONS
114	RECENTLY ARCHIVED PROJECTS
115	FIELD MANAGERS
116	PROJECT MANAGERS
117	CONSTRUCTION MANAGER
118	CONSTRUCTION MANAGER
119	CDS TECHNICIAN AND SUBMISSIONS
120	VESTIBULE
121	KITCHEN / BREAK ROOM
122	JANITOR
123	MEN
124	WOMEN
125	FARE COLLECTION / STORAGE
126	DISTRICT MANAGER
127	DISTRICT CLERKS
C001	CORRIDOR
C002	CORRIDOR

ALL MOVEABLE FURNITURE TO BE FURNISHED AND INSTALLED BY OWNER UNLESS SPECIFICALLY NOTED OR INDICATED BELOW. CONTRACTOR TO COORDINATE FURNITURE LOCATION WITH M-E-P REQUIREMENTS. ALL ITEMS BELOW TO BE BY CONTRACTOR.

SHELVING DESIGNATIONS

- (S1) NEW 4'-10" WIDE x 8'-3" WIDE METAL PALLET SHELVING TO MATCH PALLET SHELVING IN EXISTING ON SITE WAREHOUSE.
- (S2) METAL PALLET SHELVING TO BE RELOCATED FROM EXISTING WAREHOUSE ON SITE AFTER CONTENTS ARE MOVED TO NEW S-1 SHELVING. COORDINATE WITH DEMO OF METAL BUILDING
- (S3) SIMILAR TO NEW S-1 SHELVING EXCEPT SIZE IS 4'-10" WIDE x 9'-9" LONG.
- (S4) NEW 3'-0" DEEP, 3 HIGH, (AT +6", +3'-4", +6'-6") METAL SHELVING.
- (S5) NEW 2'-0" DEEP, 4 HIGH, (AT +6", +2'-6", +4'-6", +6'-6") METAL SHELVING.
- (S6) NEW 12" DEEP PLASTIC LAMINATE (P. LAM.) ADJUSTABLE SHELVING, 3 HIGH WITH 48" HIGH VERTICAL SUPPORTS.
- (S7) NEW 12" DEEP PLASTIC LAMINATE (P. LAM.) ADJUSTABLE SHELVING, 6 HIGH WITH 84" HIGH VERTICAL SUPPORTS.



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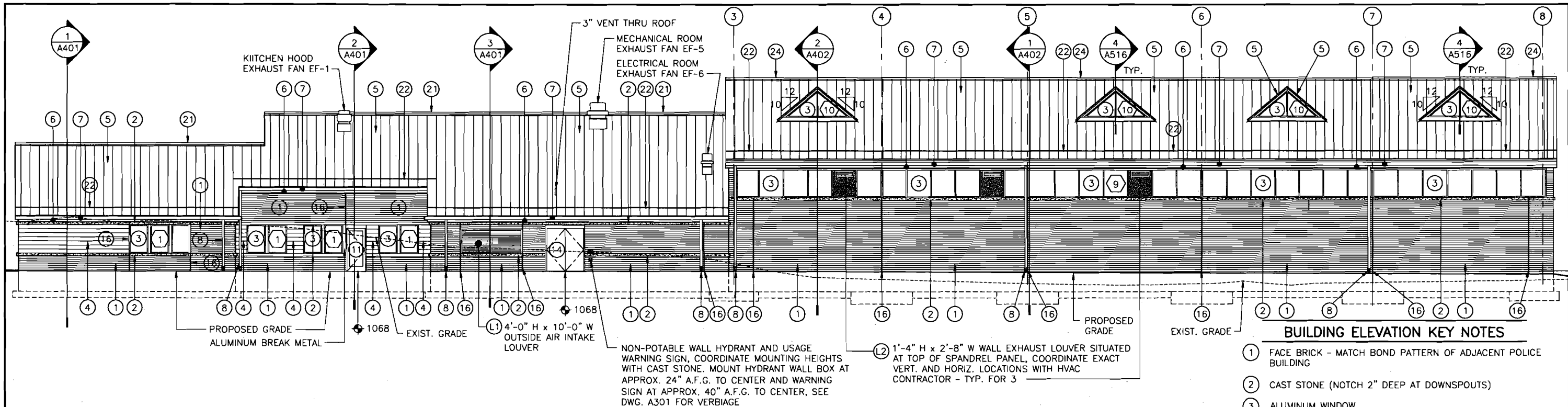
NO.	REVISIONS	DATE	APPR.

WBS NO. T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: A105.dwg
DRAWING TYPE: ARCHITECTURAL
STRUCTURE NUMBER:
SCALE: 3/32" = 1'-0"

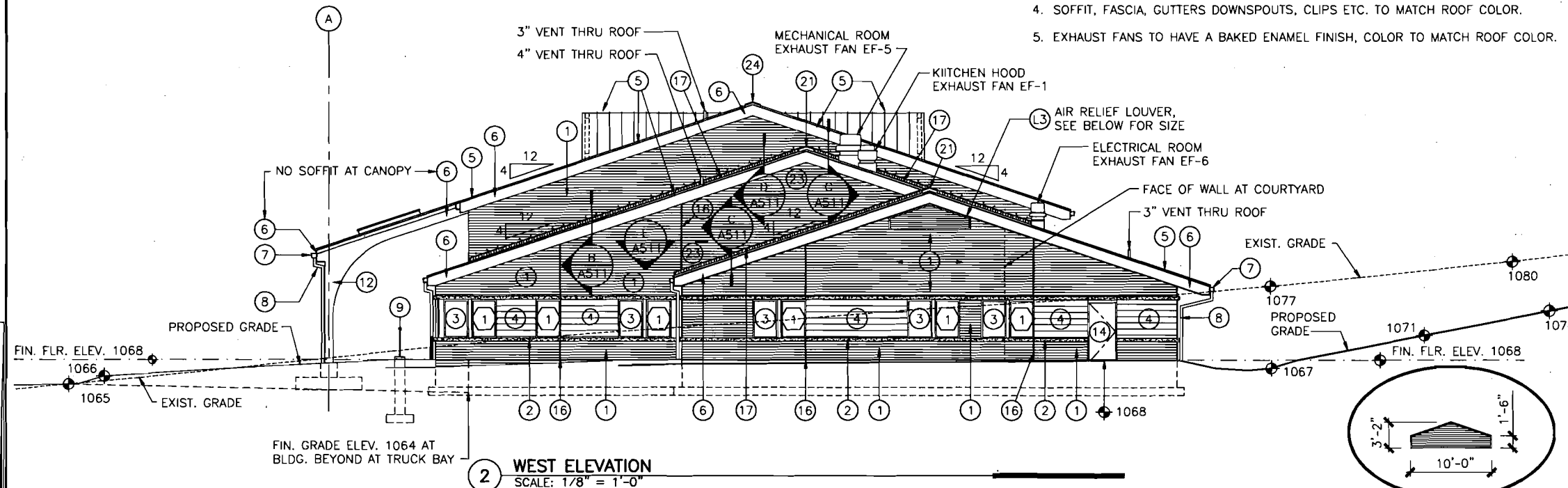
FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING AT THE EVERETT MAINTENANCE FACILITY AT MILEPOST 154.42 EASTBOUND	
DISTRICT: 2	COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP	DATE: 08-26-2009

FURNITURE FLOOR PLAN

DRAWING: A105 OF 5
SHEET: 45 OF 115



1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



2 WEST ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL BUILDING NOTES

1. STEP FOOTING AS REQUIRED TO MAINTAIN MINIMUM 3'-6" BELOW GRADE AND MINIMUM 8" BELOW EXISTING GRADE.
2. LIGHTNING PROTECTION SYSTEM PER SPECIFICATIONS, SEE ROOF DETAILS.
3. ALL EXPOSED VENT PIPING TO BE PAINTED TO MATCH ROOF COLOR.
4. SOFFIT, FASCIA, GUTTERS DOWNSPOUTS, CLIPS ETC. TO MATCH ROOF COLOR.
5. EXHAUST FANS TO HAVE A BAKED ENAMEL FINISH, COLOR TO MATCH ROOF COLOR.

BUILDING ELEVATION KEY NOTES

- 1 FACE BRICK - MATCH BOND PATTERN OF ADJACENT POLICE BUILDING
- 2 CAST STONE (NOTCH 2" DEEP AT DOWNSPOUTS)
- 3 ALUMINUM WINDOW
- 4 ALUMINUM SIDING
- 5 .040 STANDING SEAM ALUM ROOF
- 6 .040 ALUM. FASCIA / .032 ALUM. SOFFIT (SOFFIT VENTED AT OFFICE AND NON-VENTED AT WAREHOUSE)
- 7 .040 ALUMINUM GUTTER
- 8 .040 ALUMINUM DOWNSPOUT W/ BOOT & CLEAN OUT
- 9 GALVANIZED RAILING
- 10 PAINTED 6" DIA. X 60" H STEEL BOLLARDS - GROUT FULL
- 11 ALUMINUM STOREFRONT SYSTEM
- 12 PAINTED STEEL COLUMNS / BEAM - PROVIDED AND ENGINEERED BY PRE-ENGINEERED BLDG.
- 13 MFG'R. PRE-FINISHED INSULATED OVERHEAD DOORS / FRAMES
- 14 PAINTED INSULATED HOLLOW METAL DOOR / FRAME
- 15 DOCK SHELTER AT OVERHEAD DOOR
- 16 CONTROL JOINT WITH BACKER ROD AND SEALANT - SEE TYP. EXPANSION JOINT / CONTROL JOINT DETAIL ON DWG. A810
- 17 METAL FLASHING AND SEALANT
- 18 INSULATED PAINTED METAL PANEL
- 19 BUMPER BLOCKS
- 20 SKYLIGHT
- 21 RIDGE CAP - VENTED
- 22 SNOW RAILS PER ROOF MFG'R. ENGINEERED REQUIREMENTS FOR THIS LOCATION
- 23 THIN BRICK SYSTEM - MIN. DEFLECTION OF L/600. FRAMING DESIGNED BY COLD-FORM FRAMING CONTRACTOR, PROVIDE WEEPS PER MFG'R. RECOMMENDATIONS
- 24 RIDGE CAP - NON-VENTED

4 AIR RELIEF VENT DETAIL DIMENSIONAL VIEW
SCALE: 1/8" = 1'-0"



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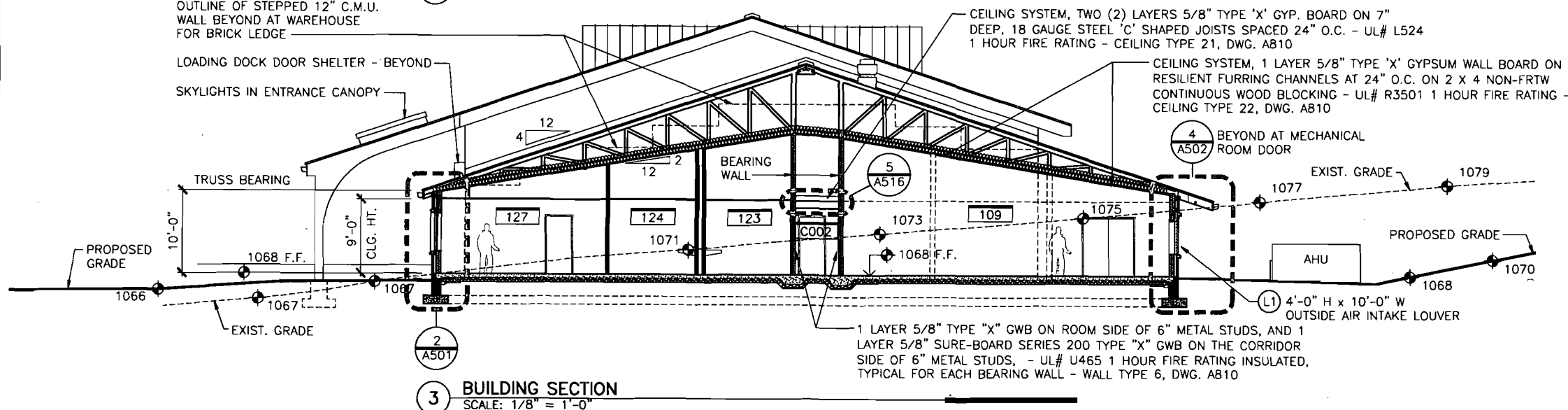
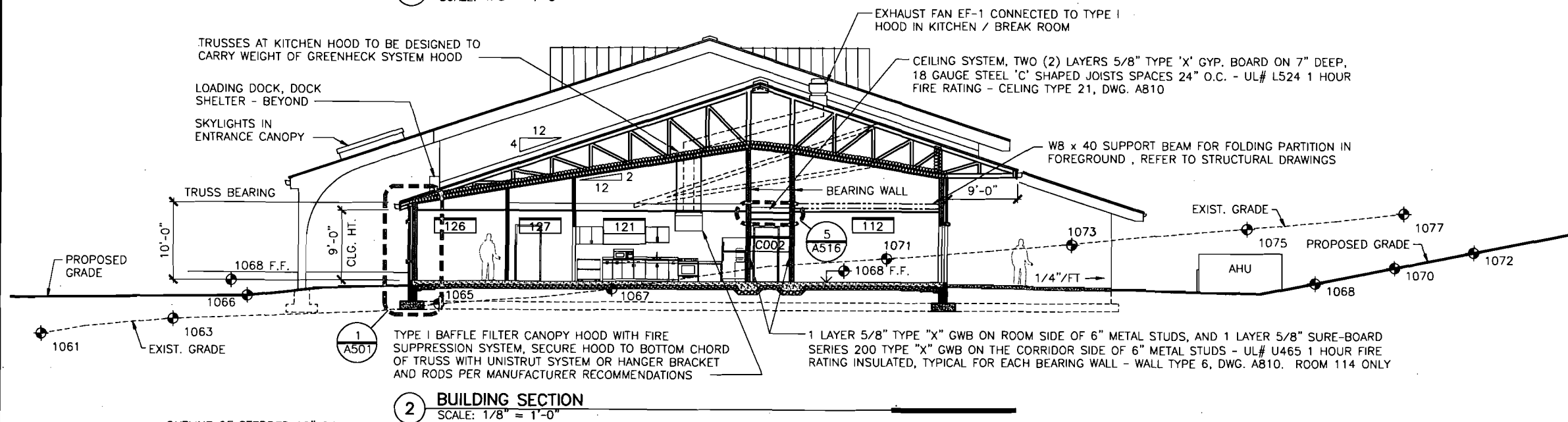
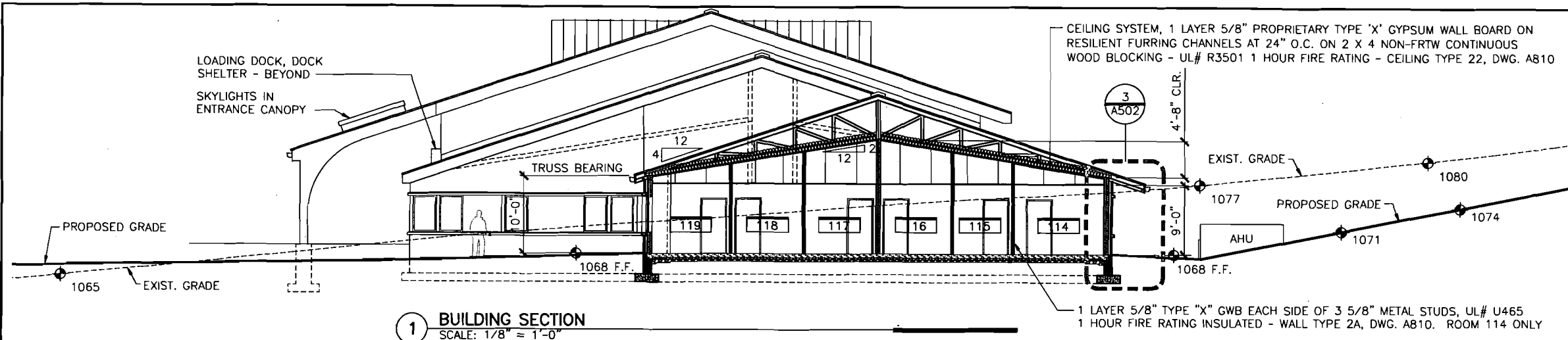


NO.	REVISIONS	DATE	APPR.

WBS NO. T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: A302.dwg
DRAWING TYPE: ARCHITECTURAL
STRUCTURE NUMBER:
SCALE: 1/8" = 1'-0" 0 4' 8' 16'

FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING AT THE EVERETT MAINTENANCE FACILITY AT MILEPOST 154.42 EASTBOUND	
DISTRICT: 2	COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP	

BUILDING ELEVATIONS	
DATE: 08-26-2009	DRAWING: A302 OF 7
	SHEET: 47 OF 115



BUILDING ROOM NAME LEGEND

101	VESTIBULE
102	SUPPLY CLERK
103	MAIN WAREHOUSE
103A	RECEIVING & STAGING AREAS
104	SECURE LOADING
105	FILE ROOM
106	SERVER ROOM
107	TICKET ROOM
108	ELECTRICAL ROOM
109	MECHANICAL ROOM
110	FIELD SUPERVISORS
111	MEETING ROOM 1
112	MEETING ROOM 2
113	CONSTRUCTION INSPECTIONS
114	RECENTLY ARCHIVED PROJECTS
115	FIELD MANAGERS
116	PROJECT MANAGERS
117	CONSTRUCTION MANAGER
118	CONSTRUCTION MANAGER
119	CDS TECHNICIAN AND SUBMISSIONS
120	VESTIBULE
121	KITCHEN / BREAK ROOM
122	JANITOR
123	MEN
124	WOMEN
125	FARE COLLECTION / STORAGE
126	DISTRICT MANAGER
127	DISTRICT CLERKS
C001	CORRIDOR
C002	CORRIDOR



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WBS NO. T-154.42F003-3-02	
NETWORK NUMBER: 7000806	
FILE NAME: A401.dwg	
DRAWING TYPE: ARCHITECTURAL	
STRUCTURE NUMBER:	
SCALE: 1/8" = 1'-0"	

**FARE COLLECTIONS
WAREHOUSE / OFFICE BUILDING
AT THE
EVERETT MAINTENANCE FACILITY
AT MILEPOST 154.42 EASTBOUND**

DISTRICT: 2	COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP	

OFFICE BUILDING SECTIONS

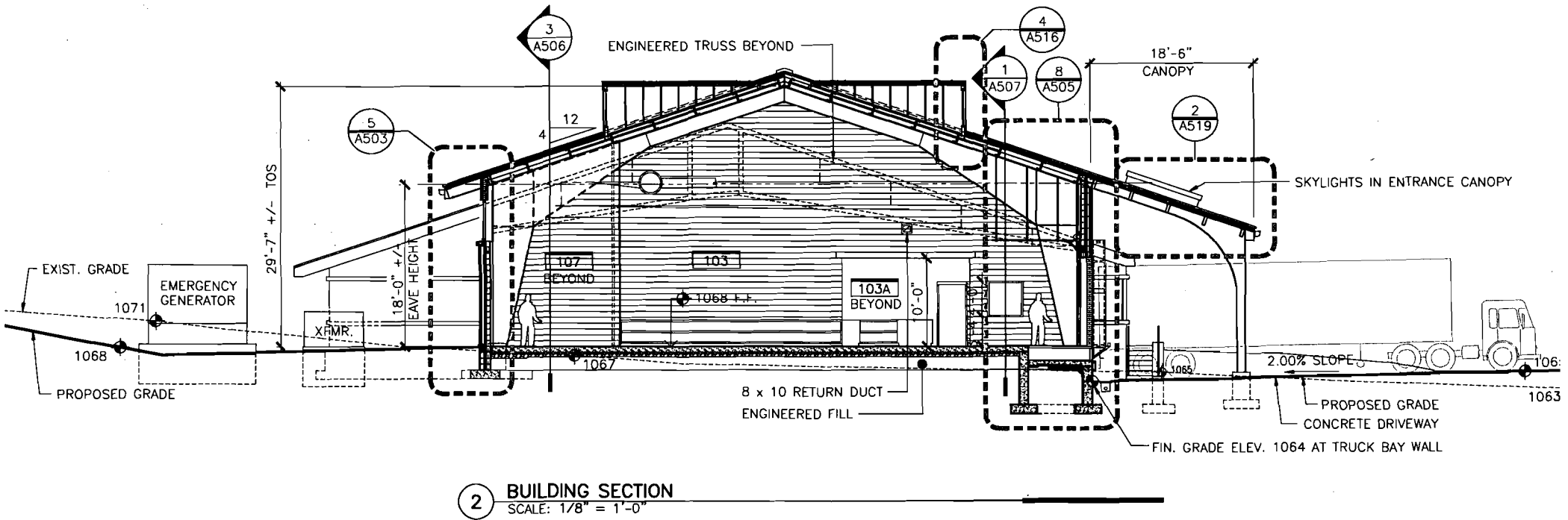
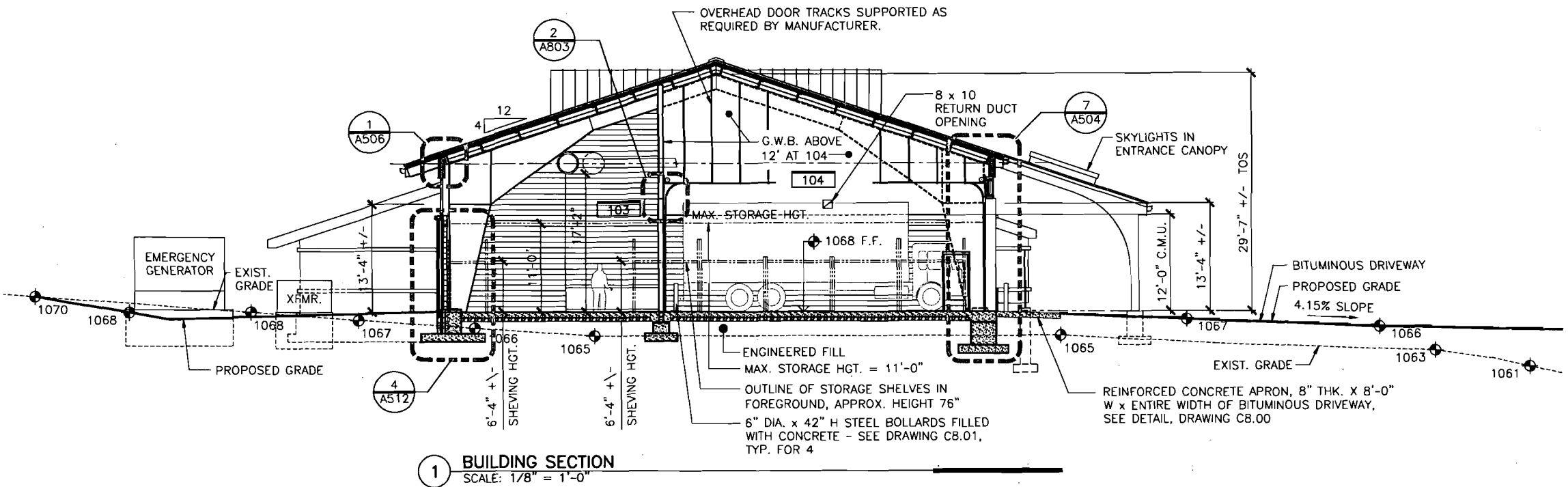
	DRAWING: A401 OF 8
DATE: 08-26-2009	SHEET: 48 OF 115

BUILDING ROOM NAME LEGEND

- 101 VESTIBULE
- 102 SUPPLY CLERK
- 103 MAIN WAREHOUSE
- 103A RECEIVING & STAGING AREAS
- 104 SECURE LOADING
- 105 FILE ROOM
- 106 SERVER ROOM
- 107 TICKET ROOM
- 108 ELECTRICAL ROOM
- 109 MECHANICAL ROOM
- 110 FIELD SUPERVISORS
- 111 MEETING ROOM 1
- 112 MEETING ROOM 2
- 113 CONSTRUCTION INSPECTIONS
- 114 RECENTLY ARCHIVED PROJECTS
- 115 FIELD MANAGERS
- 116 PROJECT MANAGERS
- 117 CONSTRUCTION MANAGER
- 118 CONSTRUCTION MANAGER
- 119 CDS TECHNICIAN AND SUBMISSIONS
- 120 VESTIBULE
- 121 KITCHEN / BREAK ROOM
- 122 JANITOR
- 123 MEN
- 124 WOMEN
- 125 FARE COLLECTION / STORAGE
- 126 DISTRICT MANAGER
- 127 DISTRICT CLERKS
- C001 CORRIDOR
- C002 CORRIDOR

GENERAL DRAWING NOTES

- SURE-BOARD SHEAR WALL MATERIAL (SERIES 200W AND SERIES 200) TO BE LOCATED ON EXTERIOR AND INTERIOR BEARING WALLS OF COLD-FORM FRAMING SYSTEM, DIRECTLY TO THE STUDS. (SERIES 200W FOR EXTERIOR BEARING WALLS AND SERIES 200 FOR INTERIOR BEARING WALLS). SURE-BOARD SERIES 200W CAN BE INSTALLED WITH INSUL. SHEATHING OR GYPSUM WALL BOARD OVER THE SURE-BOARD MEDIUM DENSITY FIBERBOARD (MDF). SURE-BOARD ALSO TO TURN THE CORNER OF EXTERIOR BEARING WALLS ONTO NON-BEARING PERPENDICULAR WALLS FOR A MIN. DISTANCE OF 8 FT. UNLESS INTERRUPTED BY A WINDOW, OR AS REQUIRED BY COLD-FORM FRAMING SPECIFICATION.
- MFG. LISTED DENOTES QUALITY LEVEL ONLY. EQUIVALENT PRODUCTS WILL BE CONSIDERED.
- STRUCTURAL BEARING WALLS AND ROOF SYSTEM OF COLD-FORMED FRAMING FOR OFFICE AREA TO BE ENGINEERED (AND SEALED) PER PERFORMANCE SPEC. GAUGE, SPACING, ETC. SHOWN MAY VARY BASED ON ENGINEERING WHICH TAKES PRECEDENCE.



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NO.	REVISIONS	DATE	APPR.

WBS NO. T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: A402.dwg
DRAWING TYPE: ARCHITECTURAL
STRUCTURE NUMBER:
SCALE: 1/8" = 1'-0"

FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING AT THE EVERETT MAINTENANCE FACILITY AT MILEPOST 154.42 EASTBOUND	
DISTRICT: 2	COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP	

WAREHOUSE BUILDING SECTIONS	
DATE: 08-28-2009	DRAWING: A402 OF 9
SHEET: 49 OF 115	

ROOM FINISH SCHEDULE													
ROOM NO.	ROOM NAME	FLOOR	BASE	WALL				CASEWORK			CEILING	REMARKS	CEILING HEIGHT
				N	E	S	W	BC	CT	WC			
101	VESTIBULE	RES	RES	PT 2	PT 2	PT 2	PT 2	-	-	-	CLG 1	NOTE 1, 2	9'-0"
102	SUPPLY CLERK	VIFT	RB	PT 2	PT 2	PT 2	PT 2	-	-	-	CLG 1	-	9'-0"
103	MAIN WAREHOUSE	CS	-	PT 4	PT 4	PT 4	PT 4	PLAM	PLAM	-	PIP	-	VARIES
103A	RECEIVING & STAGING AREAS	CS	-	PT 4	PT 4	PT 4	PT 4	PLAM	PLAM	-	CLG 2	-	10'-0"
104	SECURE LOADING	CS	-	PT 4	PT 4	PT 4	PT 4	-	-	-	PIP	-	VARIES
105	FILE ROOM	VIFT	RB	PT 3	PT 3	PT 3	PT 3	-	-	-	CLG 2	-	9'-0"
106	SERVER ROOM	VIFT	RB	PT 3	PT 3	PT 3	PT 3	-	-	-	CLG 3	-	VARIES
107	TICKET ROOM	VIFT	RB	PT 3	PT 3	PT 3	PT 3	-	-	-	CLG 1, PIP	-	9'-0"
108	ELECTRICAL ROOM	CS	RB	PT 3	PT 3	PT 3	PT 3	-	-	-	CLG 3	-	VARIES
109	MECHANICAL ROOM	CS	RB	PT 3	PT 3	PT 3	PT 3	-	-	-	CLG 3	-	VARIES
110	FIELD SUPERVISORS	CPTT	RB	PT 2	PT 2	PT 2	PT 2	-	-	-	CLG 1	-	9'-0"
111	MEETING ROOM 1	CPTT	RB	PT 1	PT 1	PT 1	PT 1	-	-	-	CLG 1	-	9'-0"
112	MEETING ROOM 2	CPTT	RB	PT 1	PT 1	PT 1	PT 1	-	-	-	CLG 1	-	9'-0"
113	CONSTRUCTION INSPECTIONS	VIFT	RB	PT 2	PT 2	PT 2	PT 1	-	-	-	CLG 1	NOTE 3 AT EXTERIOR DOOR	VARIES
114	RECENTLY ARCHIVED PROJECTS	VIFT	RB	PT 2	PT 2	PT 2	PT 2	PLAM	PLAM	PLAM	CLG 2	-	9'-0"
115	FIELD MANAGERS	CPTT	RB	PT 2	PT 1	PT 1	PT 1	-	-	-	CLG 1	-	9'-0"
116	PROJECT MANAGER	CPTT	RB	PT 2	PT 1	PT 1	PT 1	-	-	-	CLG 1	-	9'-0"
117	CONSTRUCTION MANAGER	CPTT	RB	PT 1	PT 1	PT 1	PT 2	-	-	-	CLG 1	-	9'-0"
118	CONSTRUCTION MANAGER	CPTT	RB	PT 2	PT 1	PT 1	PT 1	-	-	-	CLG 1	-	9'-0"
119	CDS TECHNICIAN & SUBMISSIONS	CPTT	RB	PT 1	PT 1	PT 1	PT 2	-	-	-	CLG 1	-	9'-0"
120	VESTIBULE	RES	RES	PT 2	PT 2	PT 2	PT 2	-	-	-	CLG 1	NOTE 1, 2	9'-0"
121	KITCHEN / BREAK ROOM	RES	RES	PT 2	PT 2	PT 2	PT 2	PLAM	PLAM	PLAM	CLG 1	-	9'-0"
122	JANITOR	RES	RES	PT 3	PT 3	PT 3	PT 3	-	-	-	CLG 2	-	9'-0"
123	MEN	RES	RES	CT WC/PT 2	CT WC/PT 2	CT WC/PT 2	CT WC/PT 2	-	SS	-	CLG 1	-	9'-0"
124	WOMEN	RES	RES	CT WC/PT 2	CT WC/PT 2	CT WC/PT 2	CT WC/PT 2	-	SS	-	CLG 1	-	9'-0"
125	FARE COLLECTIONS / STORAGE	VIFT	RB	PT 3	PT 3	PT 3	PT 3	-	-	-	CLG 2	-	9'-0"
126	DISTRICT MANAGER	CPTT	RB	PT 1	PT 1	PT 1	PT 1	-	-	-	CLG 1	-	9'-0"
127	DISTRICT CLERKS	CPTT	RB	PT 2	PT 2	PT 2	PT 2	-	-	-	CLG 1	-	9'-0"
C001	CORRIDOR	RES	RES	PT 2	PT 2	PT 2	PT 2	-	-	-	CLG 1	-	8'-0"
C002	CORRIDOR	RES	RES	PT 2	PT 2	PT 2	PT 2	-	-	-	CLG 1	-	8'-0"

NOTE:
1. HOLD DOWN CLIPS AT CEILING
2. WALK-OFF MATT - SEE SPEC.
3. 4'x3' MAT WITH TAPERED VINYL EDGE

ROOM FINISH SCHEDULE	
FLOOR:	
CPTT:	CARPET TILE
RES:	RESINOUS FLOORING (1/8").
VIFT:	VINYL INTERLOCKING FLOOR TILE
CS:	CONCRETE SEALER
BASE:	
RES:	RESINOUS INTEGRAL COVE BASE (4")
RB:	RUBBER BASE
WALL:	
CT WC:	CERAMIC TILE WAINSCOTING
PT:	PAINT
	PT 1 -
	PT 2 -
	PT 3 -
	PT 4 -
	COLORS TO BE SELECTED
CEILING:	
	CLG 1 - LAY-IN ACOUSTIC TILE - SEE SPEC
	CLG 2 - LAY-IN ACOUSTIC TILE - SEE SPEC
	CLG 3 - PAINTED GYPSUM BOARD
PIP:	PREFINISHED INSULATED PANEL
SS:	SOLID SURFACE



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NO.	REVISIONS	DATE	APPR.		

WBS NO. T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: A802.dwg
DRAWING TYPE: ARCHITECTURAL
STRUCTURE NUMBER:
SCALE: N.T.S.

FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING AT THE EVERETT MAINTENANCE FACILITY AT MILEPOST 154.42 EASTBOUND	
DISTRICT: 2	COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP	DATE: 08-26-2009

ROOM FINISH SCHEDULE	
DRAWING: A802	OF 33
SHEET: 73	OF 115

WIRING SYMBOLS

CEILING MOUNTED	WALL MOUNTED	
□	□	FIRE ALARM STROBE DEVICE
□	□	FIRE ALARM SPEAKER/STROBE DEVICE
○	○	FIRE ALARM SPEAKER
	⊕	HEAT DETECTOR (SEE SPECIFICATIONS FOR TYPE)
	⊙	SMOKE DETECTOR (SEE SPECIFICATIONS FOR TYPE)
	⊞	DUCT DETECTOR (SEE SPECIFICATIONS FOR TYPE)
	⊞	FIRE ALARM PULL STATION
	⊞	FIRE ALARM HORN
	⊞	FIRE ALARM HORN/STROBE DEVICE (15 CANDELA U.N.O.)
	⊞	FIRE ALARM STROBE DEVICE (15 CANDELA U.N.O.)
	⊞	WATER FLOW SWITCH
	⊞	TAMPER SWITCH
	⊞	DOOR HOLDER
	⊞	ZONE INTERFACE MODULE
		DEVICE NOMENCLATURE: R WITH RELAY D DUAL ZONE
	⊞	BEAM DETECTOR
		DEVICE NOMENCLATURE: T TRANSMITTER R RECEIVER
	⊞	FIRE ALARM COMMAND CENTER
	⊞	FIRE ALARM CONTROL PANEL
	⊞	FIRE ALARM ANNUNCIATOR PANEL
	⊞	FIRE ALARM BATTERY CABINET
	⊞	FIRE ALARM POWER SUPPLY

GENERAL NOTES

1. THE ELECTRICAL POWER DISTRIBUTION SYSTEM WILL PROVIDE A VOLTAGE DROP NOT TO EXCEED 5% BETWEEN THE TRANSFORMER SECONDARY AND THE EQUIPMENT TO BE SERVED.

2. THE LIGHTING SYSTEM WIRING SHALL BE SIZED IN ORDER TO LIMIT THE VOLTAGE DROP TO 3% FROM THE LAST FIXTURE IN ANY CIRCUIT TO THE PANELBOARD.

3. FOR TEMPORARY POWER AND LIGHTING REQUIREMENTS BY CONTRACTOR REFER TO FRONT END SPECIFICATIONS.

4. LIGHTING SHALL BE MOUNTED UTILIZING METHODS OF ATTACHMENT IN ACCORDANCE WITH NEC, LATEST APPLICABLE ARTICLE AND UL REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE FIXTURE INSTALLATION HARDWARE WITH CEILING TYPE.

5. ALL EMPTY CONDUITS (ELECTRICAL, TELEPHONE, DATA, TV, ETC.) SHALL HAVE A CONDUIT MEASURING TAPE INSTALLED WITHIN THEM. THE TAPE SHALL BE SUITABLE FOR USE AS A PULLING LINE. TAPE SHALL BE RATED 200 LB. TENSILE STRENGTH.

6. ALL PULL LINES SHALL BE IDENTIFIED LISTING ORIGIN, INTERMEDIATE PULL POINTS AND TERMINATION. SPECIFIC LOCATIONS OF ORIGIN, INTERMEDIATE PULL POINTS AND TERMINATION. SPECIFIC LOCATIONS OF ORIGIN, INTERMEDIATE PULL POINTS AND TERMINATION SHALL BE INDICATED.

7. WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRESTOP MATERIAL THAT IS UL LISTED, AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE SUCH AS DOW CORNING CORP., SILICONE ELASTOMER, DOW CORNING 3-6548 SILICONE RTV FOAM, OR APPROVED EQUAL. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE FIRE RATING OF THE PENETRATED WALL OR FLOOR.

8. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES AND LIGHTING FIXTURE LOCATIONS.

9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND LOCAL APPLICABLE CODES.

10. PROVIDE PROPER ACCESS PANELS AS REQUIRED IN WALLS AND GWB CEILINGS FOR ANY EQUIPMENT, DEVICES, SWITCHES, CONTRACTORS, PULL AND JUNCTION BOXES ETC. REQUIRING PANELS.

11. CONTRACTOR SHALL PROVIDE ALL CONDUIT, CABLE, CONNECTIONS, AND MATERIALS, FROM VFD'S AND DISCONNECTS TO MECHANICAL EQUIPMENT. PROVIDE MANUFACTURER'S SPECIFIED FLEX CONDUIT, RIGID CONDUIT OR WATER TIGHT CONDUIT AS REQUIRED. COORDINATE ALL LOCATIONS OF EQUIPMENT, VFD'S DISCONNECTS AND CONTROL PANELS PRIOR TO INSTALLATION.

12. CONTRACTOR SHALL VERIFY ALL LOCATIONS OF ELECTRICAL DEVICES PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF INSTALLATION OF THE FOLLOWING ELECTRICAL DEVICES BUT IS NOT LIMITED TO ALL POKE THRU'S, RECEPTACLES, COMMUNICATION ROUGH-INS, JUNCTION BOXES, ETC. ALL ROUTING AND INSTALLATION OF RACEWAY FEEDING ELECTRICAL DEVICES SHALL BE INSTALLED NEAT AND FLUSH TO SURFACE (WHERE NOT IN DRYWALL) AND SHALL BE CONCEALED FROM VIEW IN DRYWALL WERE APPLIED.

A / AMP

AFCI

AFF

AFG

AHJ

AL

ANSI

ASA

ASTM

AWG

BKR

C

CB

CC

CCT / CKT

CLG

CMH

CO

CONN

CTR

CU

DISC

DN

DS

DWG

E / EM

EA

EF

EH

EIA

ELEC

ELEV

EMT

EQ / EQUIP

ETL

EUH

EWC

EX

F

FA

FAAP

FACP

FBO

FC

FDR

FH

FL

FLA

FLUOR

FSC

FT

G / GRD / GRN / GND

GC

GFI

HID

HP

HPF

HR

HTR

HVAC

HZ

ICEA

IEEE

IES

IN

INCAN

IR

JB / JBOX

K

KVA

KW

AMPERE

ARC FAULT INTERRUPTER

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

AUTHORITY HAVING JURISDICTION

ALUMINUM

AMERICAN NATIONAL STANDARDS INSTITUTE

AMERICAN STANDARDS ASSOCIATION

AMERICAN SOCIETY OF TESTING MATERIALS

AMERICAN WIRE GAUGE

BREAKER

CONDUIT

CIRCUIT BREAKER

COMMUNICATION / NETWORK CONTRACTOR

CIRCUIT

CEILING

CERAMIC METAL HALIDE

CONVENIENCE OUTLET

CONNECTION

COUNTER

COPPER

DISCONNECT

DOWN

DISCONNECT SWITCH

DRAWING

EMERGENCY OR EMERGENCY SYSTEM

EACH

EXHAUST FAN

ELECTRIC HEAT

ELECTRONIC INDUSTRIES ASSOCIATION

ELECTRICAL

ELEVATOR

ELECTRIC METALLIC TUBING

EQUIPMENT

ELECTRICAL TESTING LABORATORIES. INC.

ELECTRIC UNIT HEATER

ELECTRIC WATER COOLER

EXISTING

FIXTURE

FIRE ALARM

FIRE ALARM ANNUNCIATOR PANEL

FIRE ALARM CONTROL PANEL

FURNISHED BY OTHERS WITH ALL RELATED ELECTRICAL WORK BY ELECTRICAL CONTRACTOR

FOOTCANDLES

FEEDER

FUME HOOD

FLOOR

FULL LOAD AMPERE

FLUORESCENT

FLEXABLE STEEL CONDUIT

FEET

GROUND

GENERAL CONTRACTOR

GROUND FAULT INTERRUPTER

HIGH INTENSITY DISCHARGE

HORSEPOWER

HIGH POWER FACTOR

HOMERUN

HEATER

HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR

HERTZ

INTERNATIONAL CABLE ENGINEERS ASSOCIATION

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS

ILLUMINATING ENGINEERING SOCIETY

INCH

INCANDESCENT

INFRA-RED

JUNCTION BOX

THOUSAND

KILO-VOLT AMPERES

KILOWATT

ABBREVIATIONS

LA

LED

LCP

LT

LTG

LV

MCCB

MCB

MDP

MFR

MH

MLO

MSW

MTD

MTG

MTG HT

MTR

N/A

NEC

NEMA

NFPA

NIC

NL

NO / #

NTS

OC

OEM

OSHA

P

PB

PBOX

PH / #

PNL

POS

PR

PRI

PRN

PRR

PRX

PWR

R

REC / RECD

REQ'D

RGS

RMC

RPC

RPP

RPR

RPX

RT

SCHED

SEC

SM

SMR

SW

SWBD

TEL / TELE

TL

TP

TV

TP

LIGHTING ARRESTER

LIGHT EMITTING DIODE

LIGHTING CONTROL PANEL

LIGHT

LIGHTING

LOW VOLTAGE

MOLDED CASE CIRCUIT BREAKER

MAIN CIRCUIT BREAKER

MAIN DISTRIBUTION PANEL

MANUFACTURER

MANHOLE

MAIN LUGS ONLY

MAIN SWITCH AND FUSE

MOUNTED

MOUNTING

MOUNTING HEIGHT

MOTOR

NON APPLICABLE

NATIONAL ELECTRIC CODE

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

NATIONAL FIRE PROTECTION ASSOCIATION

NOT IN THIS CONTRACT

NIGHT LIGHT

NUMBER

NOT TO SCALE

ON CENTER

ORIGINAL EQUIPMENT MANUFACTURER

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

POLE

PUSH BUTTON

PULL BOX

PHASE

PANELBOARD

POSITION

PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO REMAIN (THE DEVICE SHALL BE RECONDITIONED, REWIRED AND REINSTALLED)

PRIMARY

PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND REPLACED WITH NEW

PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., SHOWN AT NEW LOCATION

PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND OUTLET BOX EXTENSION INSTALLED FOR SURFACE CONDUIT OR SMR AND WIRE EXTENSION TO NEW OUTLET SHOWN. REINSTALL PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC.

POWER

RECESSED

RECEPTACLE

REQUIRED

RIGID GALVANIZED STEEL

RIGID GALVANIZED METAL CONDUIT

REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., AND CAP OUTLET.

REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., PATCH THE PLASTER IF IN PLASTER: CAP IF IN METAL OR WOOD.

REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND RELOCATED.

REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., WIRE AND ALL RELATED EXPOSED RACEWAY INSOFAR AS IS POSSIBLE. ALL DAMAGED SURFACES TO BE REPAIRED.

RAIN TIGHT

SCHEDULE

SECONDARY

SURFACE MOUNTED

SURFACE MOUNTED RACEWAY

SWITCH

SWITCHBOARD

TELEPHONE

TWIST LOCK

TAMPER PROOF

TELEVISION

TYPICAL

UC

UCR

UH

UL

UNO

V

VT

W

W/

W/GRD

W/O

WP

WT

XA

XR

XRN

XRR

Y

UNDER COUNTER

UNDER COUNTER REFRIGERATOR RECEPTACLE

UNIT HEATER

UNDERWRITERS' LABORATORIES, INC

UNLESS NOTED OTHERWISE

VOLTAGE

VAPOR TIGHT

WATT OR WIRE

WITH

WITH GROUND WIRE

WITHOUT

WEATHER PROOF ENCLOSURE

WATER TIGHT

EXISTING TO BE REMOVED COMPLETELY

EXISTING TO BE REMOVED AND RELOCATED

EXISTING TO BE REMOVED AND REPLACED WITH NEW DEVICE

RELOCATED EXISTING EQUIPMENT

STAR OR WYE DISTRIBUTION SYSTEM

MOUNTING HEIGHTS SCHEDULES

6'-8" AFF OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER (TOP OF DEVICE)

6'-6"

6'-0"

5'-0"

4'-0"

3'-6" (TOP OF DEVICES)

2'-0"

1'-6"

0'-0"

FIRE ALARM HORNS/STROBES

PENDANT MOUNTED LUMINAIRE

TOP OF PANELBOARDS, CABINETS

TOP OF DISCONNECT SWITCHES, STARTERS, AND CONTACTORS

LIGHT SWITCHES, FIRE ALARM PULL STATIONS, MANUAL MOTOR STARTERS, FIREMAN'S TELEPHONES, NURSE CALL PULL CORD, PUSH BUTTON, DUTY STATIONS AND PANIC BUTTONS

WALL MOUNTED HANDICAPPED TELEPHONE OUTLETS

ELECTRICAL RECEPTACLES IN MECHANICAL/ELECTRICAL ROOMS & ELEVATOR MACHINE ROOMS

ELECTRICAL RECEPTACLES (U.N.O.) COMMUNICATIONS/DATA OUTLETS (U.N.O.)

FINISHED FLOOR

NOTE:

1. CTR - MOUNTED 6" ABOVE COUNTER OR BACKSPLASH.

PREPARED BY:

ASTORINO

Architecture Engineering Interior Design Design/Build

ASTORINO PROJECT No. 2006593.06

PREPARED FOR:

THE PENNSYLVANIA TURNPIKE COMMISSION

WBS NO.

T-164.42F003-3-02

NETWORK NUMBER: 7000806

FILE NAME: EP002.dwg

DRAWING TYPE: ELECTRICAL

STRUCTURE NUMBER:

SCALE: No Scale

FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING AT THE EVERETT MAINTENANCE FACILITY AT MILEPOST 164.42 EASTBOUND

DISTRICT: 2

COUNTY: BEDFORD

TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP

DATE: 08-26-2009

DRAWING: EP002 OF 2

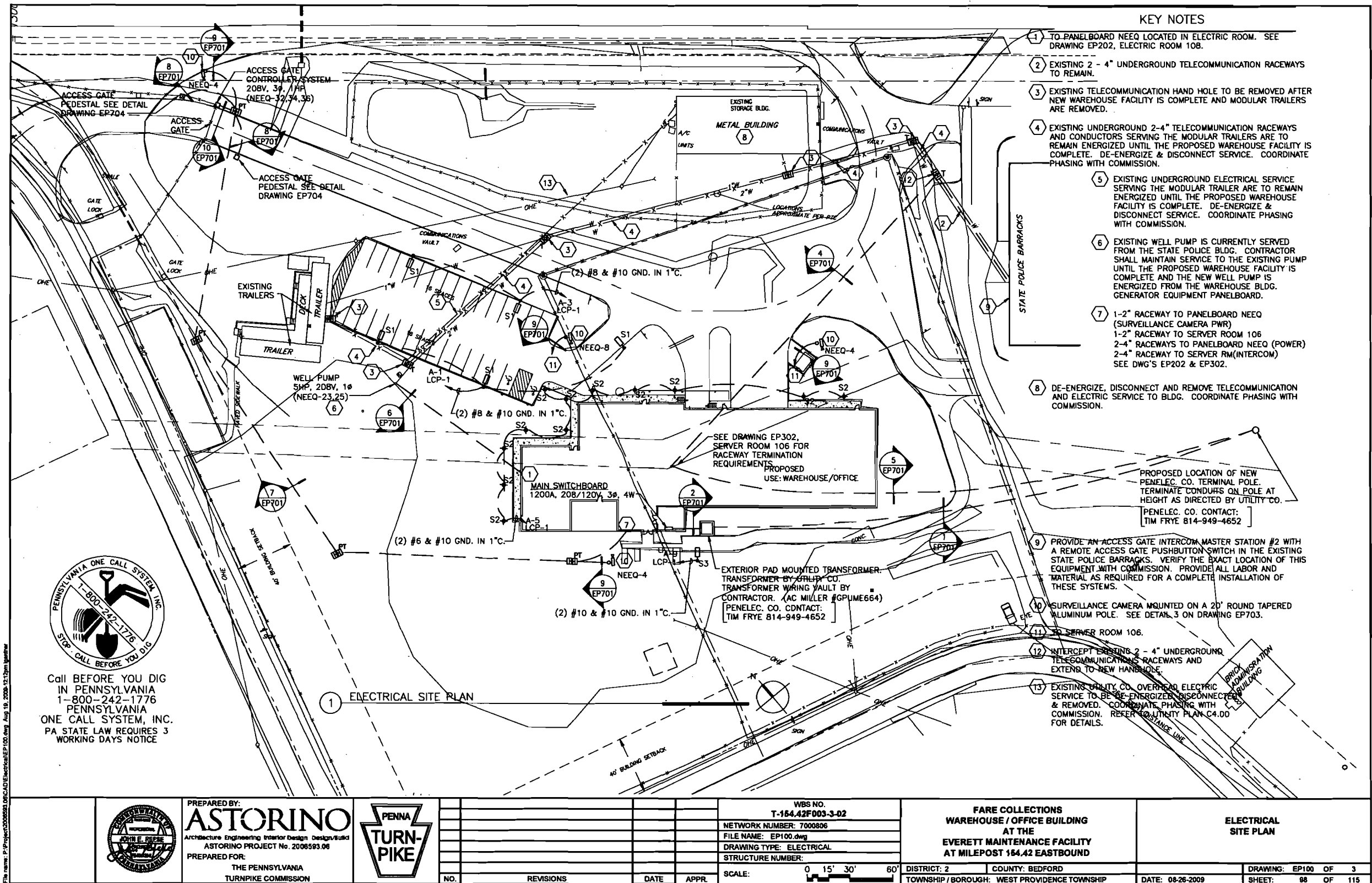
SHEET: 97 OF 116

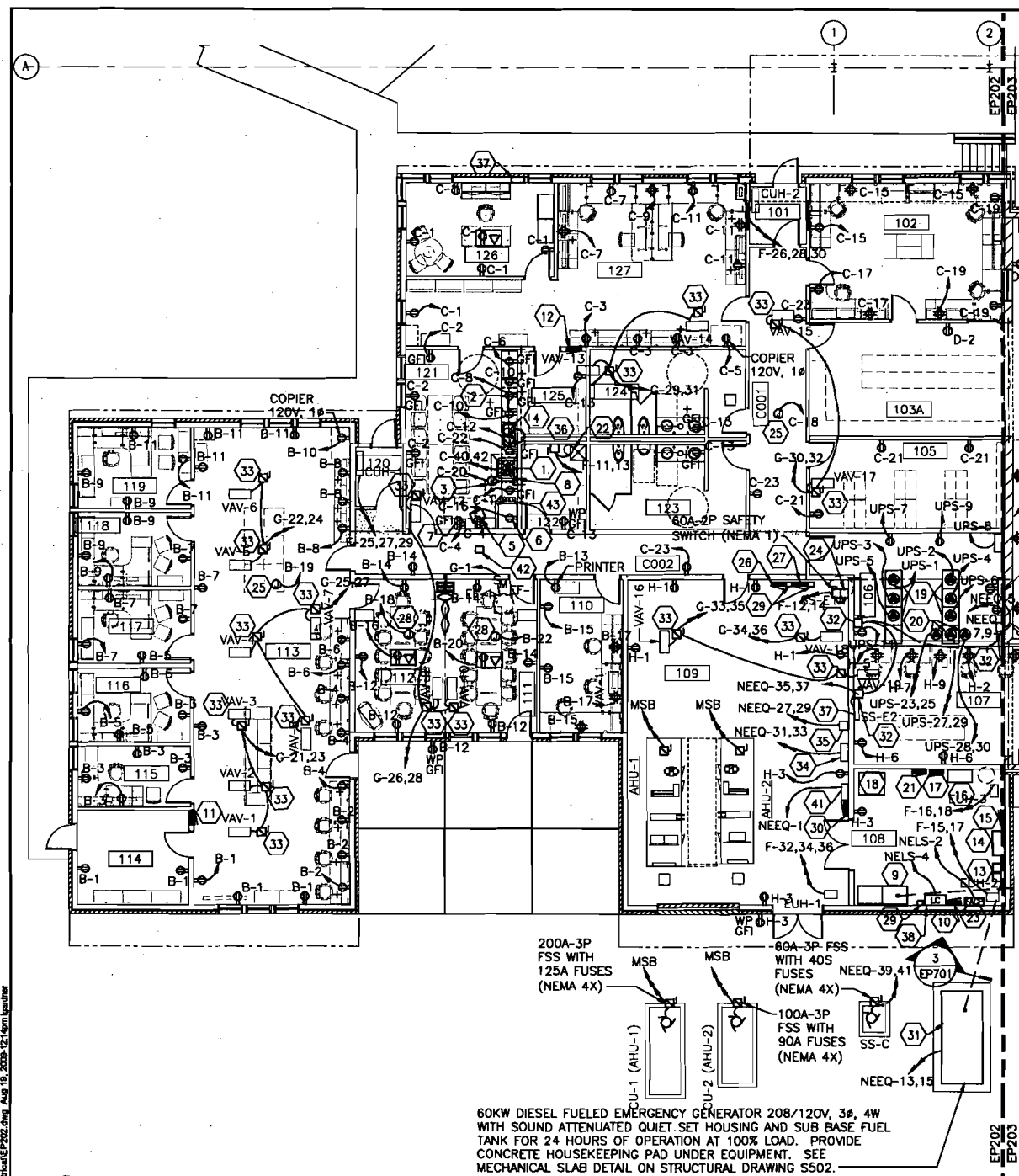
NO.

REVISIONS

DATE

APPR.





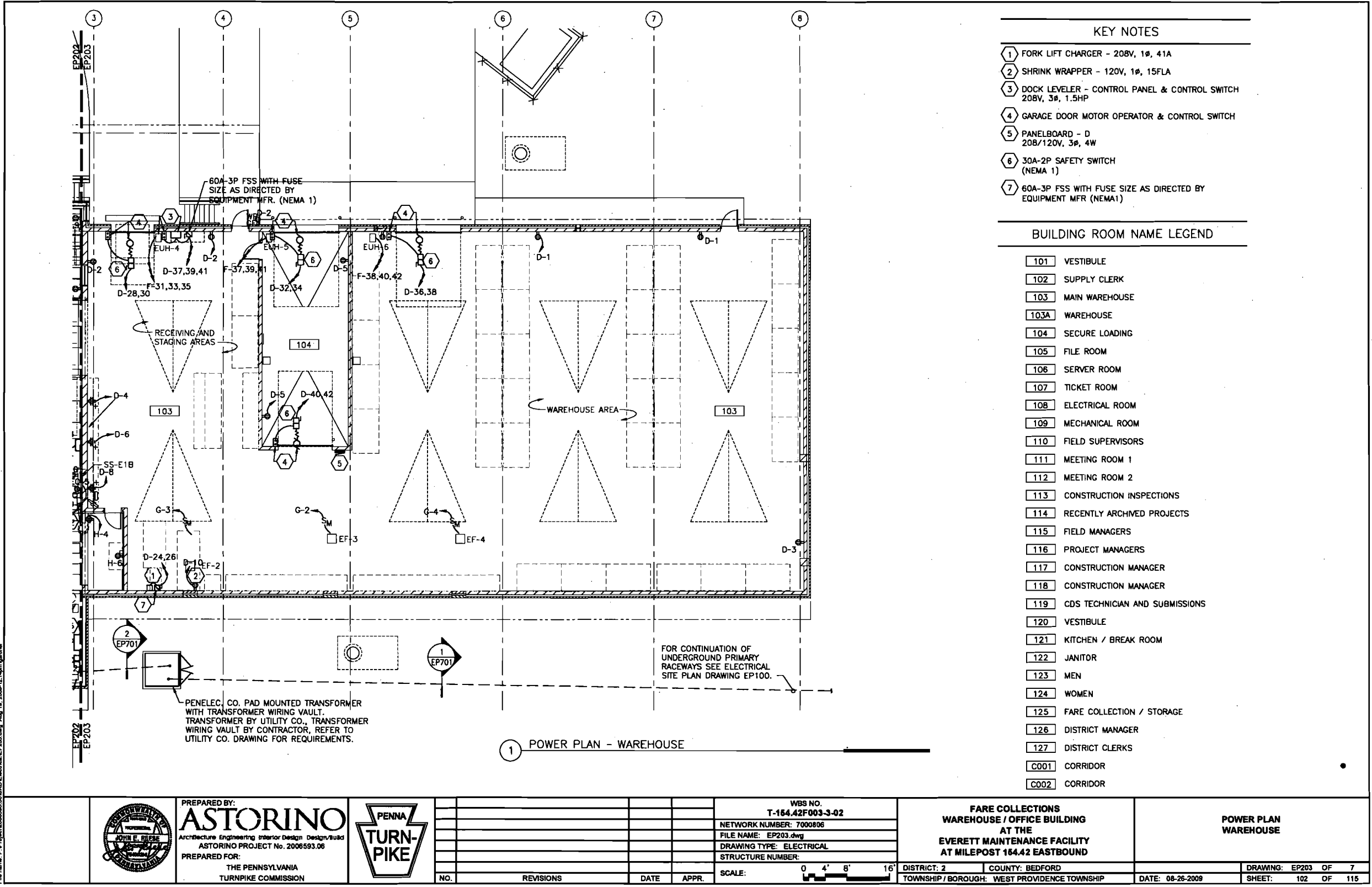
BUILDING ROOM NAME LEGEND

- 101 VESTIBULE
- 102 SUPPLY CLERK
- 103 MAIN WAREHOUSE
- 103A WAREHOUSE
- 104 SECURE LOADING
- 105 FILE ROOM
- 106 SERVER ROOM
- 107 TICKET ROOM
- 108 ELECTRICAL ROOM
- 109 MECHANICAL ROOM
- 110 FIELD SUPERVISORS
- 111 MEETING ROOM 1
- 112 MEETING ROOM 2
- 113 CONSTRUCTION INSPECTIONS
- 114 RECENTLY ARCHIVED PROJECTS
- 115 FIELD MANAGERS
- 116 PROJECT MANAGERS
- 117 CONSTRUCTION MANAGER
- 118 CONSTRUCTION MANAGER
- 119 CDS TECHNICIAN AND SUBMISSIONS
- 120 VESTIBULE
- 121 KITCHEN / BREAK ROOM
- 122 JANITOR
- 123 MEN
- 124 WOMEN
- 125 FARE COLLECTION / STORAGE
- 126 DISTRICT MANAGER
- 127 DISTRICT CLERKS
- COO1 CORRIDOR
- COO2 CORRIDOR

KEY NOTES

- 1 ELECTRIC RANGE - 208V, 1Ø
- 2 MICROWAVE - 120V, 1Ø. (COUNTER TOP MOUNTED)
- 3 ANSUL HOOD LIGHTING - 120V, 1Ø
- 4 DISPOSER - 120V, 1Ø
- 5 TV - WALL MOUNTED - 120V, 1Ø
- 6 REFRIGERATOR - 120V, 1Ø
- 7 BOTTLED WATER DISPENSER - 120V, 1Ø
- 8 ANSUL PANEL
- 9 MAIN SWITCHBOARD - MSB 208/120V, 3Ø, 4W, 1200A PROVIDE CONCRETE HOUSEKEEPING PAD UNDER EQUIPMENT. SEE MECHANICAL SLAB DETAIL ON STRUCTURAL DRAWING S502.
- 10 PANELBOARD - A 208/120V, 3Ø, 4W
- 11 PANELBOARD - B 208/120V, 3Ø, 4W
- 12 PANELBOARD - C 208/120V, 3Ø, 4W
- 13 6" x 6" x 4' WIREWAY WITH 1-60A-3P MOLDED CASE CIRCUIT BREAKER(LIFE SAFETY) 1-100A-3P MOLDED CASE CIRCUIT BREAKER(EQUIPMENT).
- 14 BYPASS ISOLATION AUTOMATIC TRANSFER SWITCH - EQ, 150A, 3 POLE PROVIDE CONCRETE HOUSEKEEPING PAD UNDER EQUIPMENT. SEE MECHANICAL SLAB DETAIL ON STRUCTURAL DRAWING S502.
- 15 PANELBOARD - NEEQ 208/120V, 3Ø, 4W
- 16 BYPASS ISOLATION AUTOMATIC TRANSFER SWITCH - LS, 150A, 3 POLE PROVIDE CONCRETE HOUSEKEEPING PAD UNDER EQUIPMENT. SEE MECHANICAL SLAB DETAIL ON STRUCTURAL DRAWING S502.
- 17 PANELBOARD - NELS 208/120V, 3Ø, 4W
- 18 20KVA UPS, 208V, 3Ø, 4W PROVIDE CONCRETE HOUSEKEEPING PAD UNDER EQUIPMENT. SEE MECHANICAL SLAB DETAIL ON STRUCTURAL DRAWING S502.
- 19 120V, 20AMP TWISTLOCK RECEPTACLE TO BE MOUNTED ABOVE EQUIPMENT RACK. VERIFY EXACT MOUNTING LOCATION WITH PTC PRIOR TO ROUGH-IN.
- 20 208V, 20A TWISTLOCK RECEPTACLE TO BE MOUNTED ABOVE EQUIPMENT RACK. VERIFY EXACT MOUNTING LOCATION AND NEMA CONFIGURATION PRIOR TO ROUGH-IN.
- 21 PANELBOARD - UPS 208/120V, 3Ø, 4W
- 22 ELECTRIC WATER HEATER 6.0KW, 208V, 1Ø
- 23 FIRE ALARM CONTROL PANEL 120V, 1Ø NE
- 24 RAINWATER HARVESTING CONTROL PANEL (2) 1HP, 208V, 1Ø.
- 25 120 VOLT, 20 AMP CIRCUIT LOCATED ABOVE CEILING IN JUNCTION BOX FOR AUTOMATIC TEMPERATURE CONTROL PANELS.
- 26 PANELBOARD - F 208/120V, 3Ø, 4W
- 27 PANELBOARD - G 208/120V, 3Ø, 4W
- 28 120VOLT, 20AMP CIRCUIT LOCATED ABOVE CEILING IN JUNCTION BOX FOR FUTURE CEILING PROJECTOR & PROJECTOR SCREEN.
- 29 SIEMENS DIGITAL ENERGY MONITOR (DEM) (NEEQ-11)
- 30 PANELBOARD - H 208/120V, 3Ø, 4W
- 31 GENERATOR JACKET HEATER & BATTERY CHARGER
- 32 30A-2P SAFETY SWITCH (NEMA 1)
- 33 30A-2P FUSED SAFETY SWITCH WITH FUSE SIZE AS DIRECTED BY EQUIPMENT MFR. (NEMA 1)
- 34 BRANCH CONTROLLER 208V, 1Ø
- 35 CENTRALIZED CONTROLLER 208V, 1Ø
- 36 60A-2P SAFETY SWITCH (NEMA 1)
- 37 EMERGENCY GENERATOR REMOTE ANNUNCIATOR PANEL. PROVIDE A 1" UNDERGROUND RACEWAY FROM ANNUNCIATOR PANEL TO EXTERIOR GENERATOR. FURNISH AND INSTALL WIRING PER MANUFACTURERS REQUIREMENTS.
- 38 LIGHTING CONTROL PANEL LCP-1.
- 39 COFFEE MACHINE - 120V, 1Ø.
- 40 GIA-TRONICS HEAD-END EQUIPMENT CABINET - 120V, 1Ø NE. (FURNISHED & INSTALLED BY COMMISSION).
- 41 ATC PANEL - 120V, 1Ø NE.
- 42 50A, POLE MECHANICALLY HELD CONTACTOR FOR CONTROL OF RANGE RECEPTACLE AND EXHAUST FAN EF-1. CONTACTOR TO BE MOUNTED ABOVE ACCESSIBLE CEILING.
- 43 PUSHBUTTON SWITCH WITH INDICATOR LIGHTS FOR CONTROL OF RANGE/FAN CONTACTOR SWITCH TO BE MOUNTED ABOVE COUNTER. PROVIDE AN ENGRAVED NAMEPLATE ADJACENT TO SWITCH WITH THE FOLLOWING: "ON/OFF CONTROL SWITCH FOR RANGE AND HOOD".

1 POWER PLAN - OFFICES							
 PREPARED BY: ASTORINO Architecture Engineering Interior Design Design/Build ASTORINO PROJECT No. 2006593.06 PREPARED FOR: THE PENNSYLVANIA TURNPIKE COMMISSION		WBS NO. T-154.42F003-3-02		FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING AT THE EVERETT MAINTENANCE FACILITY AT MILEPOST 154.42 EASTBOUND		POWER PLAN OFFICES	
		NETWORK NUMBER: 7000806 FILE NAME: EP202.dwg DRAWING TYPE: ELECTRICAL STRUCTURE NUMBER:		DISTRICT: 2 COUNTY: BEDFORD TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP		DRAWING: EP202 OF 6 SHEET: 101 OF 115	
NO.		REVISIONS		DATE		APPR.	
SCALE:		0 4' 8' 16'					



File Name: P:\Project\2006593\03_09\CAD\Electrical\EP203.dwg Aug 18, 2009 12:14pm jgahne



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Architecture Engineering Interior Design Design/Build
ASTORINO PROJECT No. 2006593.06
PREPARED FOR:
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TURNPIKE COMMISSION

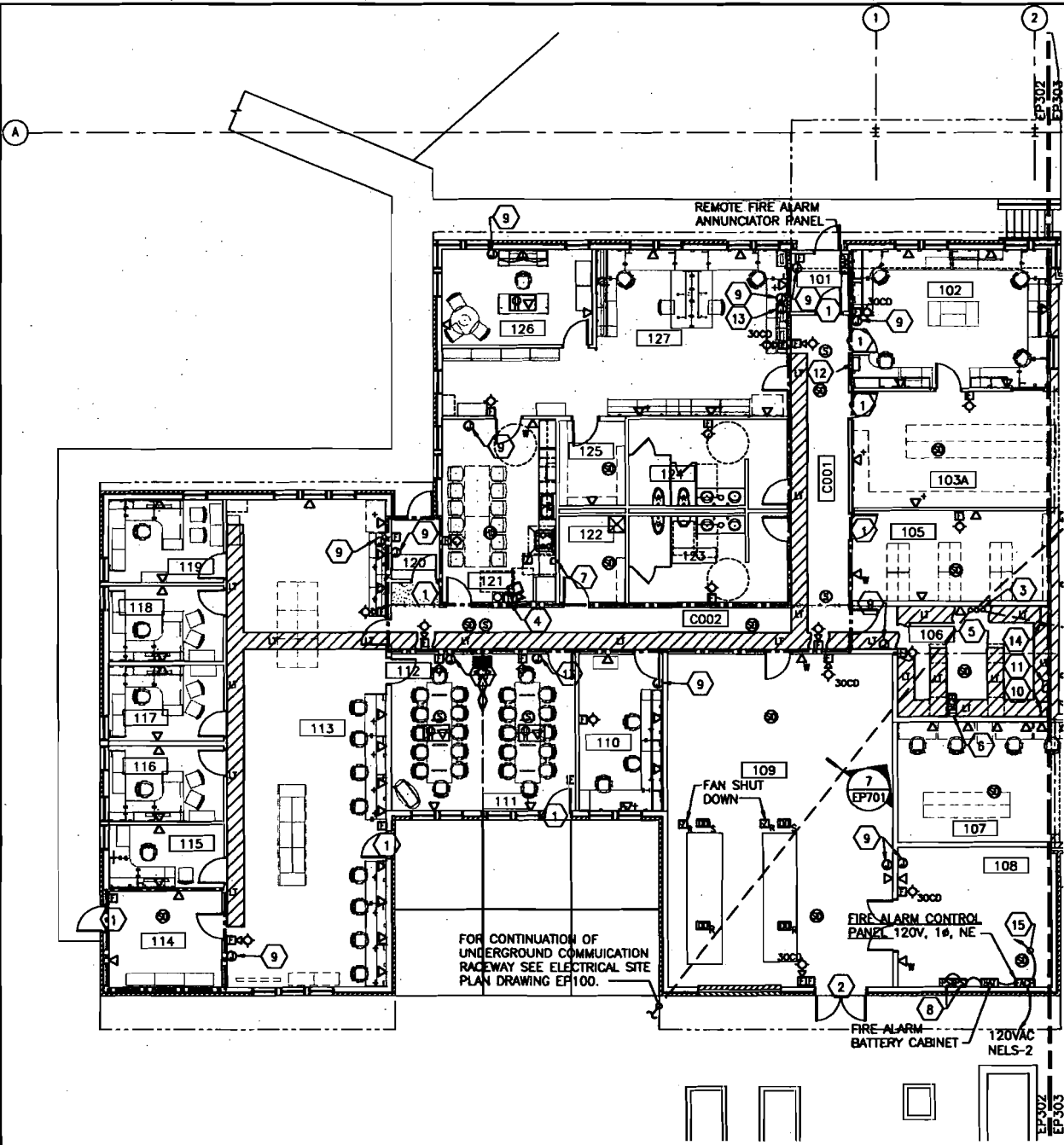


NO.	REVISIONS	DATE	APPR.

WBS NO.
T-164.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: EP203.dwg
DRAWING TYPE: ELECTRICAL
STRUCTURE NUMBER:
SCALE: 0 4' 8' 16'

FARE COLLECTIONS
WAREHOUSE / OFFICE BUILDING
AT THE
EVERETT MAINTENANCE FACILITY
AT MILEPOST 164.42 EASTBOUND
DISTRICT: 2 COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP

POWER PLAN
WAREHOUSE
DRAWING: EP203 OF 7
DATE: 08-26-2009
SHEET: 102 OF 115



1 SYSTEM PLAN - OFFICES

BUILDING ROOM NAME LEGEND

- 101 VESTIBULE
- 102 SUPPLY CLERK
- 103 MAIN WAREHOUSE
- 103A WAREHOUSE
- 104 SECURE LOADING
- 105 FILE ROOM
- 106 SERVER ROOM
- 107 TICKET ROOM
- 108 ELECTRICAL ROOM
- 109 MECHANICAL ROOM
- 110 FIELD SUPERVISORS
- 111 MEETING ROOM 1
- 112 MEETING ROOM 2
- 113 CONSTRUCTION INSPECTIONS
- 114 RECENTLY ARCHIVED PROJECTS
- 115 FIELD MANAGERS
- 116 PROJECT MANAGERS
- 117 CONSTRUCTION MANAGER
- 118 CONSTRUCTION MANAGER
- 119 CDS TECHNICIAN AND SUBMISSIONS
- 120 VESTIBULE
- 121 KITCHEN / BREAK ROOM
- 122 JANITOR
- 123 MEN
- 124 WOMEN
- 125 FARE COLLECTION / STORAGE
- 126 DISTRICT MANAGER
- 127 DISTRICT CLERKS
- C001 CORRIDOR
- C002 CORRIDOR

KEY NOTES

- 1 CARD ACCESS, SEE SINGLE DOOR DETAIL DRAWING EP704.
- 2 CARD ACCESS, SEE DOUBLE DOOR DETAIL DRAWING EP704.
- 3 UNDERGROUND RACEWAY TO TERMINATE 12" A.F.F. EXTEND A 24" WIDE LADDER TYPE CABLE TRAY VERTICALLY DOWN WALL TO UNDERGROUND RACEWAYS. COORDINATE EXACT REQUIREMENTS WITH COMMISSION PRIOR TO ROUGH-IN.
- 4 VERIFY MOUNTING HEIGHT OF TV OUTLET PRIOR TO ROUGH-IN.
- 5 PROVIDE A #6 COPPER BOND CONDUCTOR BETWEEN THE COMMISSION SUPPLIED NETWORK EQUIPMENT RACKS AND THE CABLE TRAY SYSTEM.
- 6 TELECOMMUNICATION MAIN GROUND BAR. PROVIDE A #4 INSULATED GROUND CONDUCTOR FROM TMGB TO MAIN SERVICE ENTRANCE GROUND.
- 7 ANSUL PANEL - INTERFACE WITH FIRE ALARM ZONE MODULE.
- 8 (2) FIRE ALARM POWER SUPPLY CONTROL PANEL(NACP) TO SUPPORT DEVICE LOADS.
- 9 TURNPIKE RADIO SYSTEM. PROVIDE A 2 GANG WALL MOUNTED OUTLET BOX WITH A SINGLE GANG PLASTER RING. EXTEND A 1" EMT RACEWAY WITH DRAGWIRE FROM THE OUTLET BOX TO THE CABLE TRAY SYSTEM. (MOUNTED AT 42" A.F.F. TO TOP OF DEVICE).
- 10 SURVEILLANCE HEAD END EQUIPMENT & FREE STANDING EQUIPMENT RACK BY COMMISSION.
- 11 INTERCOM HEADEND CABINET - 120V, 1ø, NE POWER.
- 12 INTERCOM MASTER STATION #1 & REMOTE ACCESS GATE PUSHBUTTON. SURVEILLANCE MONITOR BY COMMISSION.
- 13 GIA-TRONICS VOLUME CONTROL - PROVIDE A 2 GANG WALL MOUNTED OUTLET BOX WITH A SINGLE GANG PLASTER RING. EXTEND A 1" EMT RACEWAY WITH DRAGWIRE FROM THE OUTLET BOX TO THE CABLE TRAY SYSTEM. (MOUNTED AT 42" A.F.F. TO TOP OF DEVICE).
- 14 GIA-TRONICS HEAD-END EQUIPMENT CABINET - 120V, 1ø NE. (FURNISHED & INSTALLED BY COMMISSION).
- 15 PROVIDE A 1" EMPTY RACEWAY FROM FACP TO CABLE TRAY IN ROOM 106

GENERAL NOTES

- 1. ALL 90° DEGREE ELBOWS FOR UNDERGROUND TELECOMMUNICATION PATHWAYS SHALL UTILIZE 36" RADIUS WIDE SWEEP TYPE FITTINGS.

File name: P:\Project\20060801_09\CAD\Electrical\EP302.dwg, Aug 18, 2006, 12:18pm, lgonzalez

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ASTORINO
Architecture Engineering Interior Design Design/Build
ASTORINO PROJECT No. 2006593.06
PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION

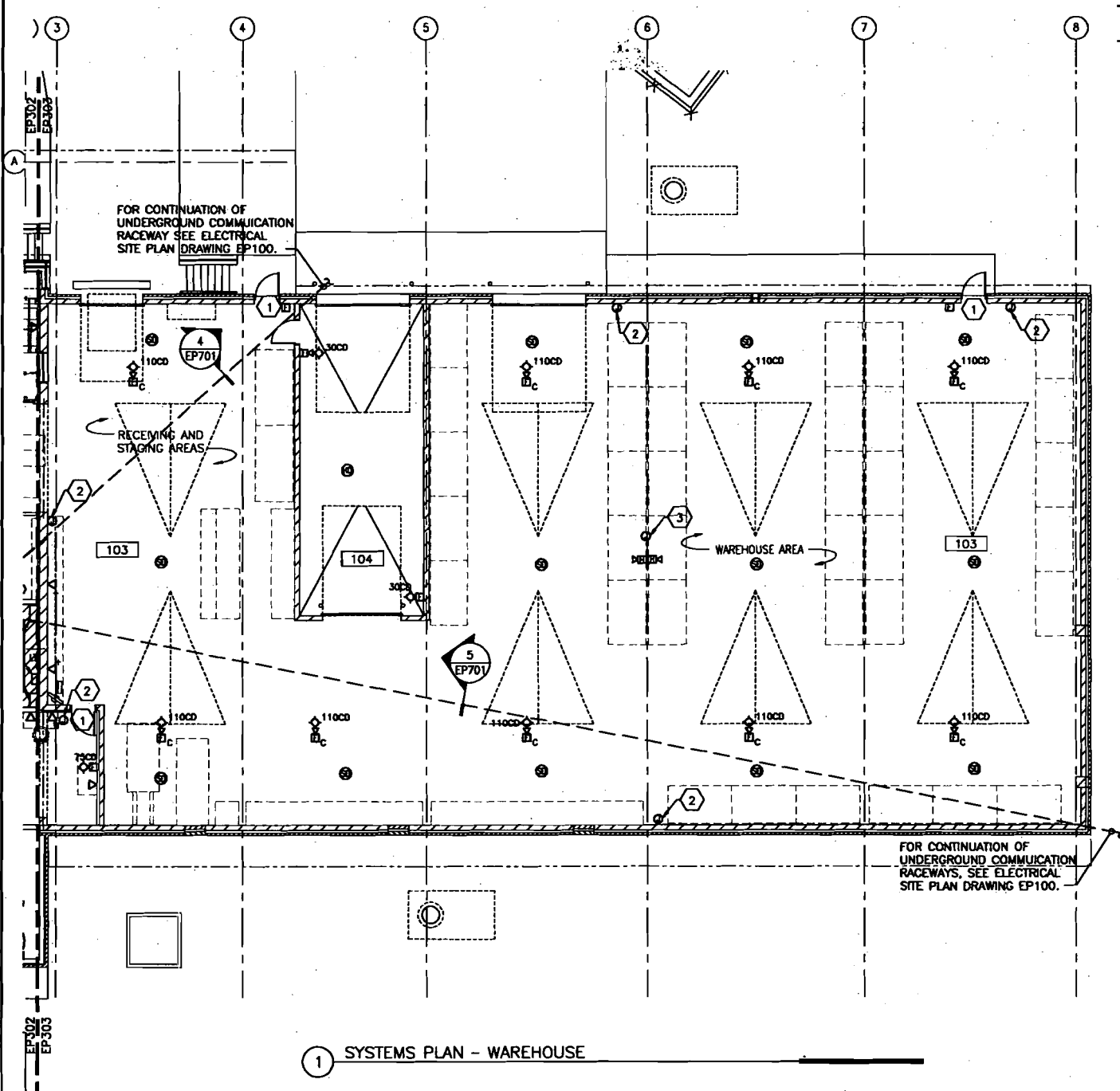


NO.	REVISIONS	DATE	APPR.

WBS NO. T-164.42F003-3-02
NETWORK NUMBER: 7000006
FILE NAME: EP302.dwg
DRAWING TYPE: ELECTRICAL
STRUCTURE NUMBER:
SCALE: 0 4' 8' 16'

	FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING AT THE EVERETT MAINTENANCE FACILITY AT MILEPOST 164.42 EASTBOUND	
5'	DISTRICT: 2	COUNTY: BEDFORD
	TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP	

SYSTEMS PLAN OFFICES
DRAWING: EP302 OF 8
SHEET: 103 OF 115



1 SYSTEMS PLAN - WAREHOUSE

BUILDING ROOM NAME LEGEND

- 101 VESTIBULE
- 102 SUPPLY CLERK
- 103 MAIN WAREHOUSE
- 103A WAREHOUSE
- 104 SECURE LOADING
- 105 FILE ROOM
- 106 SERVER ROOM
- 107 TICKET ROOM
- 108 ELECTRICAL ROOM
- 109 MECHANICAL ROOM
- 110 FIELD SUPERVISORS
- 111 MEETING ROOM 1
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- 117 CONSTRUCTION MANAGER
- 118 CONSTRUCTION MANAGER
- 119 CDS TECHNICIAN AND SUBMISSIONS
- 120 VESTIBULE
- 121 KITCHEN / BREAK ROOM
- 122 JANITOR
- 123 MEN
- 124 WOMEN
- 125 FARE COLLECTION / STORAGE
- 126 DISTRICT MANAGER
- 127 DISTRICT CLERKS
- C001 CORRIDOR
- C002 CORRIDOR

KEY NOTES

- 1 CARD ACCESS. SEE SINGLE DOOR DETAIL DRAWING EP704.
- 2 TURNPIKE RADIO SYSTEM. PROVIDE A 2 GANG WALL MOUNTED OUTLET BOX WITH A SINGLE GANG PLASTER RING. EXTEND A 1" EMT RACEWAY WITH DRAGWIRE FROM THE OUTLET BOX TO THE CABLE TRAY SYSTEM LOCATED IN ROOM 106. VERIFY FINAL MOUNTING LOCATION AND HEIGHT WITH COMMISSION PRIOR TO ROUGH-IN.
- 3 PAGING HORNS. PROVIDE A 2 GANG OUTLET BOX IN CEILING. EXTEND A 1" EMT RACEWAY WITH DRAGWIRE FROM THE OUTLET BOX TO THE CABLE TRAY SYSTEM LOCATED IN ROOM 106. VERIFY FINAL MOUNTING LOCATION & HEIGHT WITH COMMISSION PRIOR TO ROUGH-IN.

GENERAL NOTES

- 1. ALL 90° DEGREE ELBOWS FOR UNDERGROUND TELECOMMUNICATION PATHWAYS SHALL UTILIZE 36" RADIUS WIDE SWEEP TYPE FITTINGS.

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PREPARED BY:
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Architecture Engineering Interior Design Design/Build
ASTORINO PROJECT No. 2008593.08
PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION

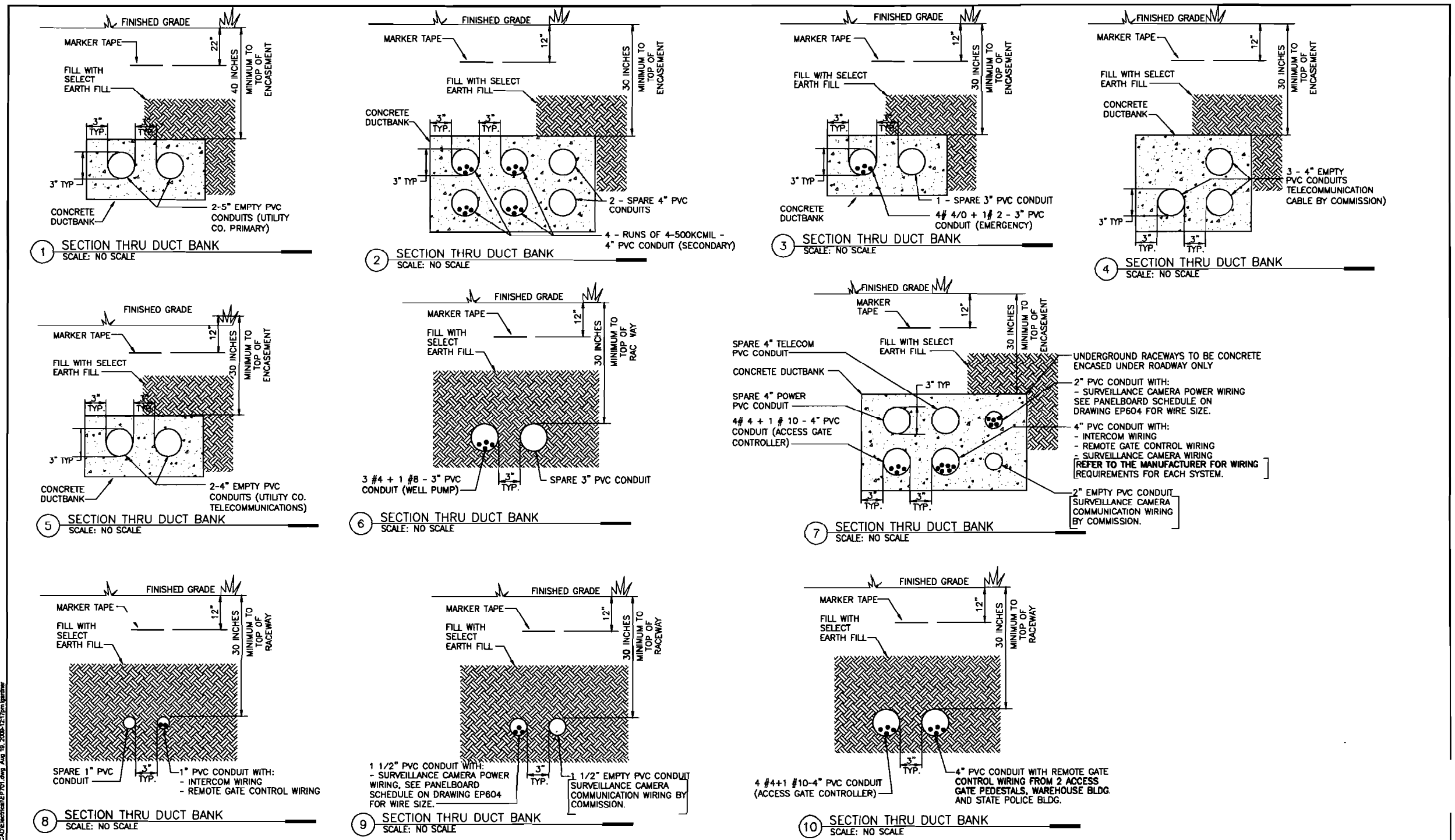


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WBS NO.
T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: EP303.dwg
DRAWING TYPE: ELECTRICAL
STRUCTURE NUMBER:
SCALE: 0 4' 8' 16'

FARE COLLECTIONS
WAREHOUSE / OFFICE BUILDING
AT THE
EVERETT MAINTENANCE FACILITY
AT MILEPOST 154.42 EASTBOUND
DISTRICT: 2 COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP

SYSTEMS PLAN
WAREHOUSE
DRAWING: EP303 OF 9
SHEET: 104 OF 115
DATE: 08-26-2009



File name: P:\Project\2006593.06\CA\Electrical\EP701.dwg, Aug 18, 2008, 12:17pm, jgordon



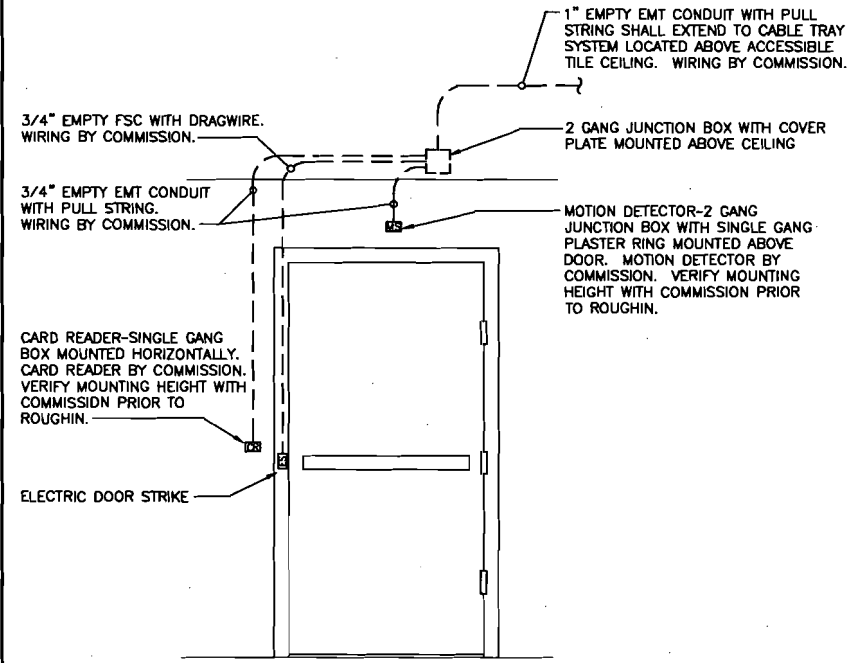
PREPARED BY:
ASTORINO
Architecture Engineering Interior Design
ASTORINO PROJECT No. 2006593.06
PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



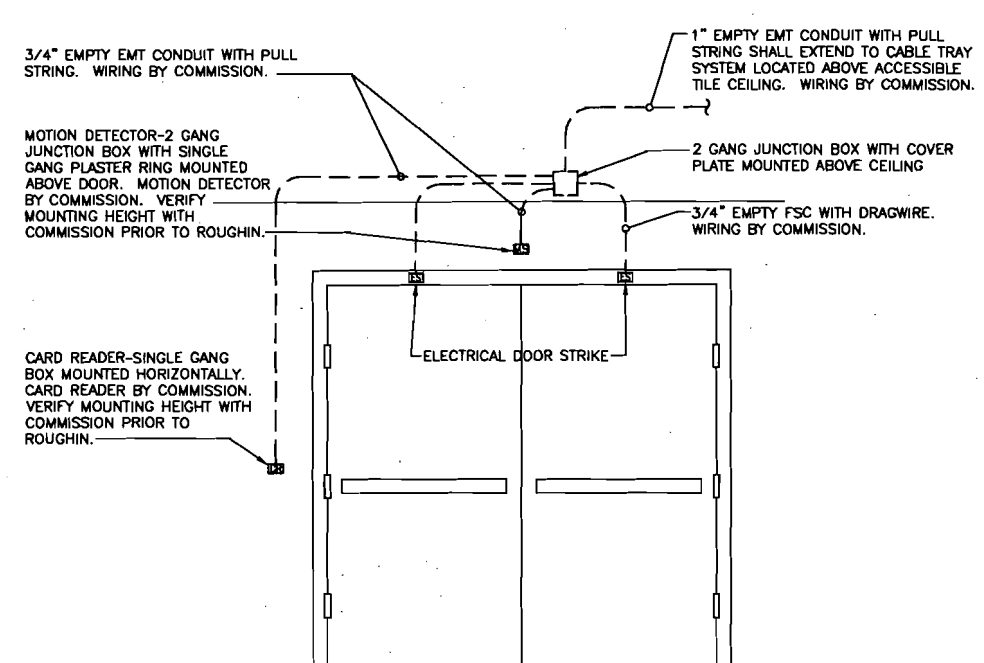
NO.	REVISIONS	DATE	APPR.

WBS NO. T-154.42F003-3-02
NETWORK NUMBER: 7000806
FILE NAME: EP701.dwg
DRAWING TYPE: ELECTRICAL
STRUCTURE NUMBER:
SCALE: No Scale
DISTRICT: 2
COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP

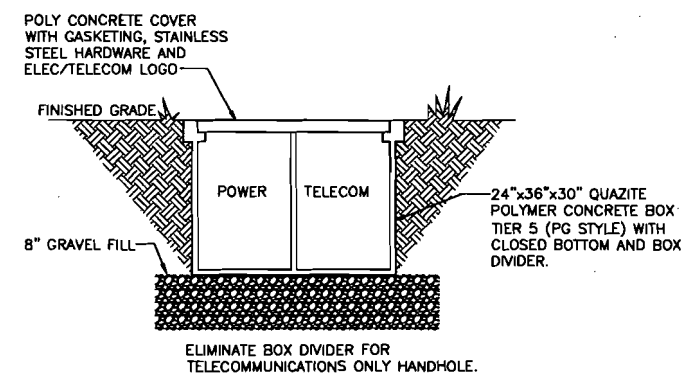
FARE COLLECTIONS WAREHOUSE / OFFICE BUILDING AT THE EVERETT MAINTENANCE FACILITY AT MILEPOST 154.42 EASTBOUND
ELECTRICAL DETAILS
DRAWING: EP701 OF 16
DATE: 08-26-2009
SHEET: 111 OF 115



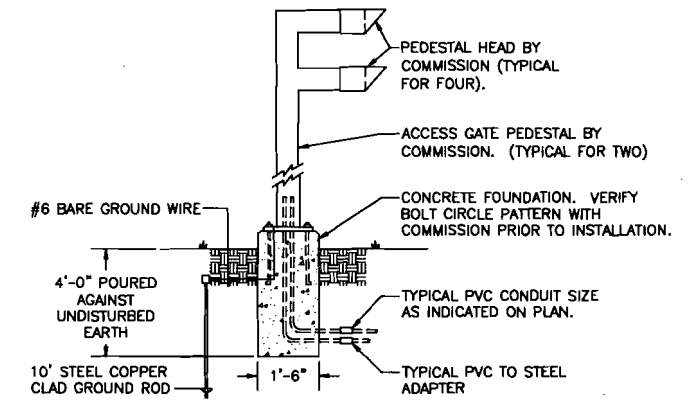
1 SINGLE DOOR ACCESS DETAIL
SCALE: NO SCALE



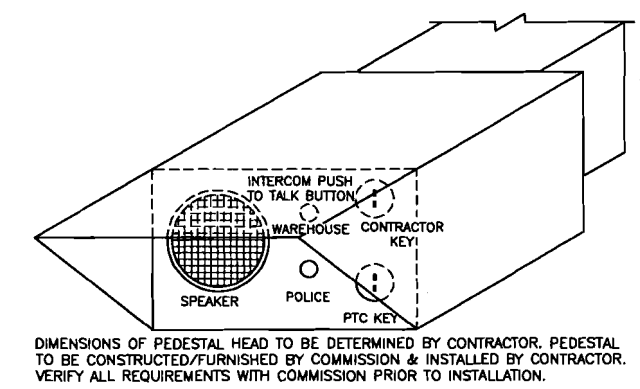
2 DOUBLE DOOR ACCESS DETAIL
SCALE: NO SCALE



3 HANDHOLE DETAIL
SCALE: NO SCALE



4 ACCESS GATE PEDESTAL DETAIL
SCALE: NO SCALE



5 ACCESS GATE PEDESTAL HEAD DETAIL
SCALE: NO SCALE

File name: P:\Project\2006\593\06\CAD\Electrical\EP704.dwg Aug 19, 2006 12:17pm jgawne



PREPARED BY:
ASTORINO
Architecture Engineering Interior Design/Build
ASTORINO PROJECT No. 2006593.06
PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



NO.			
REVISIONS			
DATE			
APPR.			
SCALE: No Scale			
WBS NO. T-154.42F003-3-02			
NETWORK NUMBER: 7000806			
FILE NAME: EP704.dwg			
DRAWING TYPE: ELECTRICAL			
STRUCTURE NUMBER:			

FARE COLLECTIONS
WAREHOUSE / OFFICE BUILDING
AT THE
EVERETT MAINTENANCE FACILITY
AT MILEPOST 154.42 EASTBOUND
DISTRICT: 2 COUNTY: BEDFORD
TOWNSHIP / BOROUGH: WEST PROVIDENCE TOWNSHIP

ELECTRICAL
DETAILS
DRAWING: EP704 OF 19
SHEET: 114 OF 115
DATE: 08-26-2009

APPENDIX E

EVERETT FARES WAREHOUSE/OFFICE PART SPECIFICATIONS

Hardware	Part Number	Location		TOTAL QTY
Fiber Connectors				
Corning Single Mode LC Connector	95-201-98SP	Everett Fares Warehouse/ Office Building, Everett Fares/PSP Building, Everett Maintenance Miller Building		48
CCH Panels				
CCH Connector Panel, 12 fiber, LC, single-mode, Duplex Adapters, Ceramic Composite Housing	CCH-CP12-A9	Everett Fares/PSP Building, Everett Maintenance Miller Building		2
CCH Connector Panel, 24 fiber, LC, single-mode, Duplex Adapters, Ceramic Composite Housing	CCH-CP24-A9	Everett Fares Warehouse/ Office Building		1
Fiber Components				
Buffer Tube Fan Out Kit	FAN-BT25-12	Everett Fares Warehouse/ Office Building, Everett Fares/PSP Building, Everett Maintenance Miller Building		4
Wall Mount Connector Housing				
Pretium® Wall-Mountable Connector Housing that will accept up to 2 CCH panels or modules	PWH-02P	Everett Fares/ PSP Building		1
Wall-Mountable Connector Housing Wall Stand-off Brackets for -02P; brackets provide a 1 inch spacing from wall	PWH-STDOFF-BKT-02P	Everett Fares/ PSP Building		1
External Cable Strain-Relief Kit that utilizes Corning Cable Systems Universal Cable Clamp; includes bracket, mounting hardware, 1 strain-relief clamp and 1 multi-cable insert tilizes Corning Cable Systems Universal Cable	PWH-STDOFF-BKT-02P	Everett Fares/ PSP Building		1
Rack Mount Connector Housing				
Pretium Connector Housing, 4U tall; accepts up to 12 CCH connector panels or modules; supplied with 1 UCC, 12 blank panels and installation hardware	PCH-04U	Everett Fares Warehouse/ Office Building		1
Strain Relief Bracket for PCH-04U	PC4-STRN	Everett Fares Warehouse/ Office Building		2
Fiber Cable				
ALTOS All-Dielectric Cable, 24 Fiber, Single-mode, 0.4/0.3 dB/km Attenuation	024EW4-T4101D20	Everett Fares Warehouse/ Office Building to Everett Fares/PSP Building through Everett Maintenance Building down to Basement, to Everett Maintenance Miller Building		Approx 4,000 feet

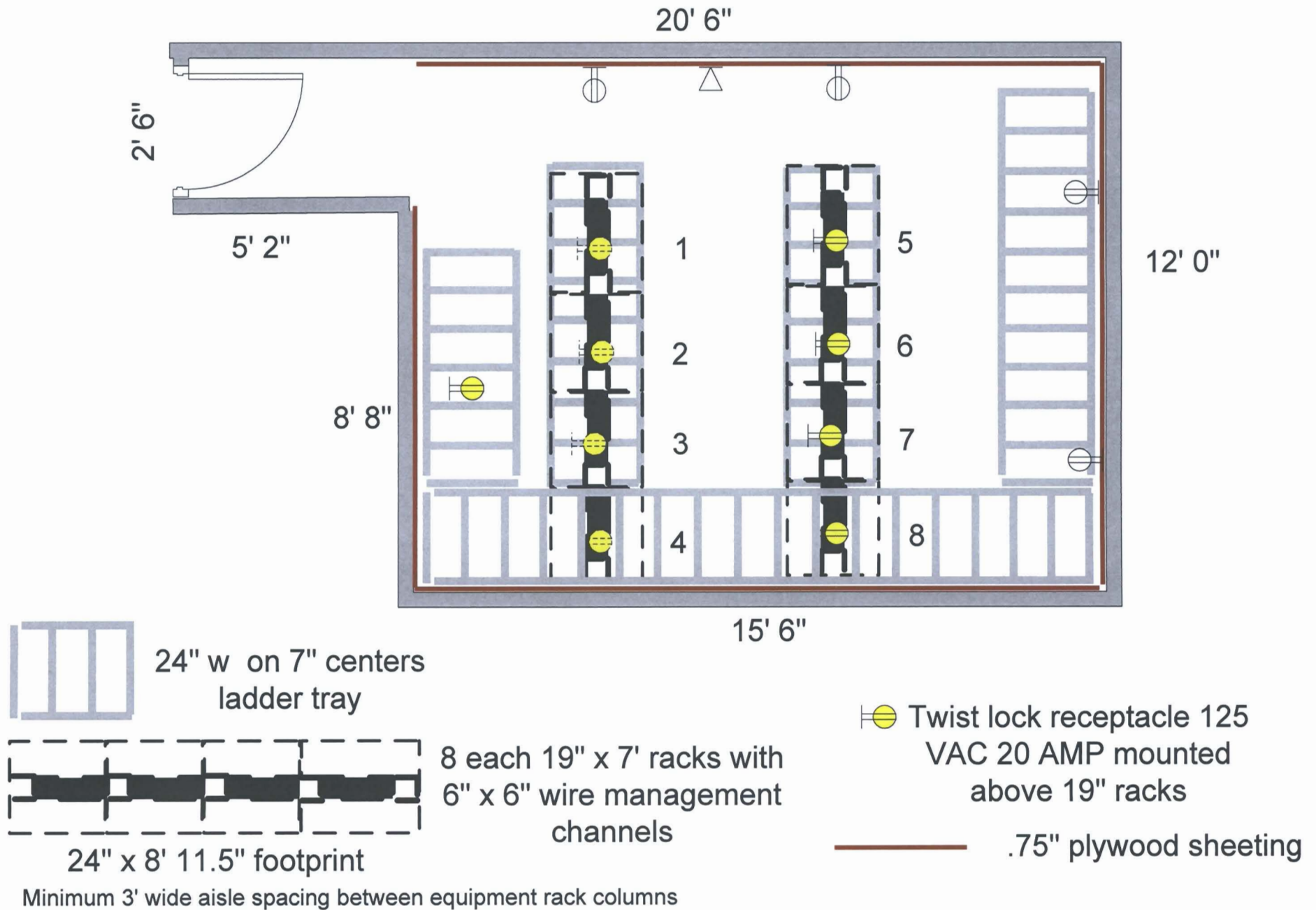
APPENDIX E

EVERETT FARES WAREHOUSE/OFFICE PART SPECIFICATIONS

Hardware	Part Number	Location	TOTAL QTY
Copper Cable and Components			
Berk-Tek Lanmark 2000 Copper Cable for Voice and Data, Riser, Blue	10167477	Everett Fares Warehouse/ Office Building	253 Drops
ALPHA WIRE 18 AWG 9 P STR Shielded CM Cable -OR- Equivalent, (Must be approved by GAI-Tronics Corporation and PTC)	Alpha Wire 2249C -OR- Equivalent P/N	Everett Fares Warehouse/ Office Building	24 Drops
Ortronics Trac-Jack Fog White , Ivory	OR-TJ600	Everett Fares Warehouse/ Office Building to each data/voice jack	253
Wiremold Bezel for Floor Box Data/Voice - Package of 2 accomodates 4 Trac-Jacks	RFB6RT	Everett Fares Warehouse/ Office Building	2
Ortronics TracJack Blank Module - Package of 10	OR-42100002	Everett Fares Warehouse/ Office Building in HVAC and HIRSCH control panels	1
Ortronics Faceplate, holds one jack - for vestibule	OR-40300549	Vestibule	2
Ortronics Faceplate, holds four jacks	OR-40300546	Everett Fares Warehouse/ Office Building	60
Ortronics Clarity CAT 6 High Density 48 port Patch Panel	OR-PHD66U48	Everett Fares Warehouse/ Office Building	6
Racks and Patch Cables			
Ortronics, 7 ' open rack, black, 19"	OR-604004600	Everett Fares Warehouse/ Office Building	2
Ortronics Cable Management Panel with five horizontal plastic distribution rings, 1.7" H x 2.70" D, 1 rack unit (1.75"), black	OR-808004759	Everett Fares Warehouse/ Office Building	20
LC to LC SM Fiber Zip Cord 1 meter	040402R5120001M	Installed by others	24
LC to LC SM Fiber Zip Cord 2 meter	040402R5120002M	Installed by others	24
CAT 6 Copper Patch Cables - 5 foot, gray	OR-MC605-08	Installed by others	100
CAT 6 Copper Patch Cable - 7 foot, blue	OR-MC607-06	Installed by others	150
CAT 6 Copper Patch Cables - 9 foot, purple	OR-MC609-07	Installed by others	50
Ortronics Vertical Cable Chase - single sided	SVMS706C	Everett Warehouse/ Office Sever Room	6
Electrical Components			
Geist Mfg., 66 inch, Vertical Rack 20 outlet, 125 volt, 20 amp, Power Strip, with 10 ft. cord, black	VRTBN200-10210TL	Everett Warehouse/ Office Sever Room	2

APPENDIX F

Everett Fares Warehouse Server Room Layout



Addendum No. 1

RFP # 10-10350-2433

Everett Fares Warehouse/Office Infrastructure Cabling

Prospective Respondents: You are hereby notified of the following information in regard to the referenced RFP:

ADDITIONS

1. An additional drawing was provided at the mandatory pre-proposal and has been attached to this Addendum and is to be made part of this RFP.

QUESTIONS and ANSWERS

Following are the answers to questions submitted in response to the above referenced RFP up to and including questions submitted during the Pre-Proposal Conference on **April 6, 2010**. All of the questions have been listed verbatim, as received by the Pennsylvania Turnpike Commission.

1. The cabling / connecting hardware specified is BeckTek/ Ortronics. Will the PTC accept Tyco AMP NETCONNECT which is actually headquartered in Harrisburg and are a major mfg of cabling systems... significantly larger and higher end products than Berktek?

The RFP requirements stand as written. Proposers should base there submission on the specifications as advertised.

2. Do outside plant conduits enter into Room 106 (Server Rm)?

Refer to drawing EP302 of 8, Sheet 103 of 115, for conduit penetration placement through the floor of the Server Room. There will be more than the 3 conduits shown on the drawing and they will be dual stacked.

All other terms, conditions and requirements of the original RFP posted March 17, 2010 remain unchanged unless modified by this Addendum.

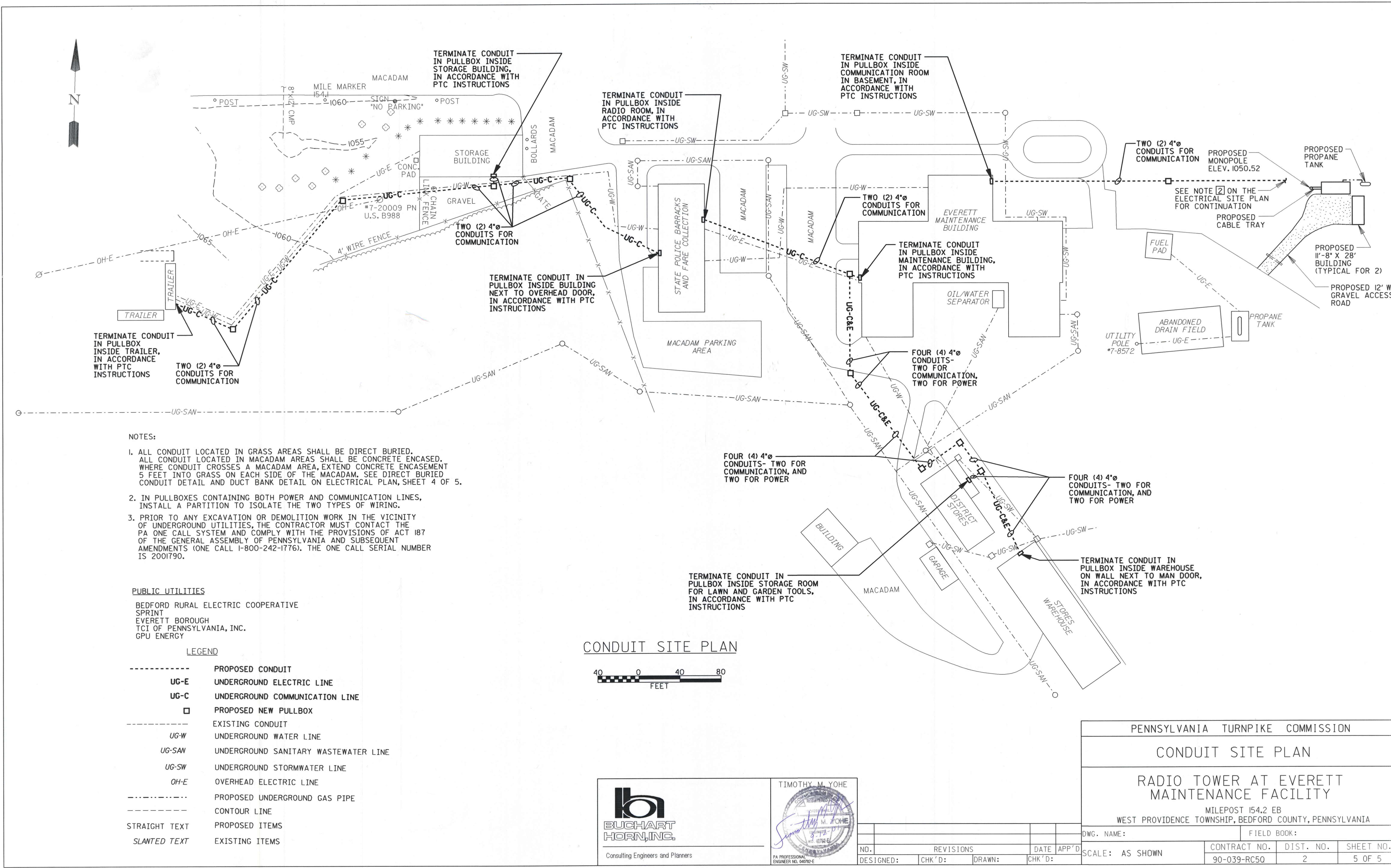
SIGN-IN SHEET

PREPROPOSAL CONFERENCE RFP #10-10350-2433

DATE: April, 6, 2010

TIME: 10:30 AM

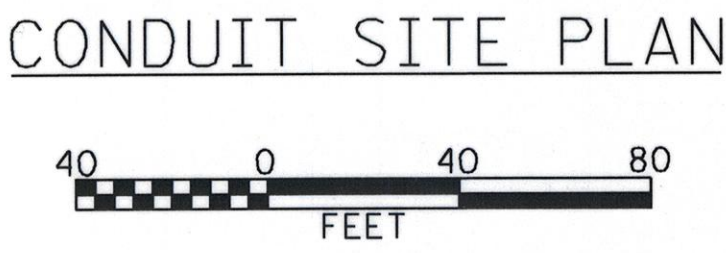
COMPANY NAME	REP NAME	ADDRESS	PHONE	EMAIL
1 Henkels & McCoy Inc	Tomie Berrier	5230 N. Susquehanna Trail, York PA 17406	717-266-5641	JBerrier@henkels.com
2 Henkels + McCoy Inc.	Toshua Tostin	5230 N. Susquehanna Trl, York PA 17406	717-266-5641	jtostin@henkels.com
3 I.B. Abel Inc.	Jim Trebilcock	620 Edgar St York, Pa 17403	717-845-1639	Jim.T@ib-abel.com
4 I.B. Abel Inc	Keith Merges	620 Edgar St York, Pa 17403	717-845-1639	kmerges@ib-abel.com
5 Clark Contractors Inc.	Jason Donaldson	1451 Laurel Bldg, R.D. Bedford PA 15522	814-623-9400	jdonaldson@clarkcontractors.com
6 Clark "	Dave Leidy	" "	" "	" "
7 Pennsylvania Architects Inc.	Phil Spachman	27324 Caplan Pike Ed. Abington 19023	814-258-3599	psachman@pennarchitects.com
8 Mike Hughes	PTC		EXT-4560	MHughes@PATmupic.com
9 STEPHANIE BEDTLEY	PTC		EXT 7610	sbedtley@PATmupic.com
10 Wanda Metzger	PTC		EXT 4282	wmetzger@PATmupic.com
11 Hoyt Graham	PTC		Ext. 4562	PTC hgraham@PATmupic.com
12				
13				
14				
15				



- NOTES:
1. ALL CONDUIT LOCATED IN GRASS AREAS SHALL BE DIRECT BURIED. ALL CONDUIT LOCATED IN MACADAM AREAS SHALL BE CONCRETE ENCASED. WHERE CONDUIT CROSSES A MACADAM AREA, EXTEND CONCRETE ENCASEMENT 5 FEET INTO GRASS ON EACH SIDE OF THE MACADAM. SEE DIRECT BURIED CONDUIT DETAIL AND DUCT BANK DETAIL ON ELECTRICAL PLAN, SHEET 4 OF 5.
 2. IN PULLBOXES CONTAINING BOTH POWER AND COMMUNICATION LINES, INSTALL A PARTITION TO ISOLATE THE TWO TYPES OF WIRING.
 3. PRIOR TO ANY EXCAVATION OR DEMOLITION WORK IN THE VICINITY OF UNDERGROUND UTILITIES, THE CONTRACTOR MUST CONTACT THE PA ONE CALL SYSTEM AND COMPLY WITH THE PROVISIONS OF ACT 187 OF THE GENERAL ASSEMBLY OF PENNSYLVANIA AND SUBSEQUENT AMENDMENTS (ONE CALL 1-800-242-1776). THE ONE CALL SERIAL NUMBER IS 2001790.

PUBLIC UTILITIES
BEDFORD RURAL ELECTRIC COOPERATIVE
SPRINT
EVERETT BOROUGH
TCI OF PENNSYLVANIA, INC.
GPU ENERGY

LEGEND	
-----	PROPOSED CONDUIT
UG-E	UNDERGROUND ELECTRIC LINE
UG-C	UNDERGROUND COMMUNICATION LINE
□	PROPOSED NEW PULLBOX
-----	EXISTING CONDUIT
UG-W	UNDERGROUND WATER LINE
UG-SAN	UNDERGROUND SANITARY WASTEWATER LINE
UG-SW	UNDERGROUND STORMWATER LINE
OH-E	OVERHEAD ELECTRIC LINE
-----	PROPOSED UNDERGROUND GAS PIPE
-----	CONTOUR LINE
STRAIGHT TEXT	PROPOSED ITEMS
SLANTED TEXT	EXISTING ITEMS



TIMOTHY M. YOHE

REVISIONS		DATE	APP'D
NO.			
DESIGNED:	CHK'D:	DRAWN:	CHK'D:

PENNSYLVANIA TURNPIKE COMMISSION			
CONDUIT SITE PLAN			
RADIO TOWER AT EVERETT MAINTENANCE FACILITY			
MILEPOST 154.2 EB WEST PROVIDENCE TOWNSHIP, BEDFORD COUNTY, PENNSYLVANIA			
DWG. NAME:		FIELD BOOK:	
SCALE: AS SHOWN	CONTRACT NO. 90-039-RC5Q	DIST. NO. 2	SHEET NO. 5 OF 5