



INVITATION FOR BID

ANIMAL SHELTER ADDITION

PUBLIC WORKS DEPARTMENT CITY OF HOPEWELL

BID: #03-16

DATE: January 14, 2016

Sealed Bids, subject to the general conditions and specifications hereby attached, will be received at the Office of the City Clerk, Second Floor, Municipal Building, 300 North Main Street, Hopewell, Virginia 23860 until, but not later than 11:00 a.m. **THURSDAY, FEBRUARY 25, 2016** and then publicly opened in the Council Chambers, Municipal Building, 300 North Main Street, Hopewell, Virginia on the aforementioned date at 11:10 a.m. for furnishing the solicited supplies or services.

1. All bids must be submitted in a sealed envelope.
2. Regardless of delivery method of bid, the **outside** of each envelope must clearly indicate the following: (*if bid is delivered by Federal Express, UPS, USPS Priority, etc. or any other means, the outside of **each** envelope **must also** clearly indicate*):

**Office of the City Clerk
Second Floor
Municipal Building
300 North Main Street
Hopewell, Virginia 23860
Closing Date of Bid: February 25, 2016
Commodity Name: Animal Shelter Addition
Bid # 03-16**

FOR YOUR BID TO BE CONSIDERED, IT MUST BE SUBMITTED ON THIS INVITATION FOR BID IN THE PLACES PROVIDED. BIDDERS SHALL SIGN THIS FORM WITHOUT DETACHING FROM REST OF BID AND MUST RETURN BID IN ITS ENTIRETY.

ANY BID RECEIVED AFTER THE ANNOUNCED TIME AND DATE OF OPENING, WHETHER BY MAIL OR OTHERWISE, WILL NOT BE CONSIDERED AND WILL BE RETURNED UNOPENED.

The right is reserved to reject any or all Bids submitted and also to place the order where it appears it will be to the best interest of the city. All quoted prices shall be FOB locations.

The right is reserved to extend any resulting contract, for terms to be mutually negotiated and agreed upon.

All bid quotations are subject to general terms and conditions hereby attached and will be rejected if not properly executed.

Individual contractors must provide their social security numbers and other types of firms must provide their federal employer identification numbers in the payment clauses to be included in contracts.

Quantities indicated herein are estimates of anticipated usage. It is understood and agreed to between the parties of a resulting contract that the City may increase or decrease quantities at the quoted price. Furthermore, it is agreed to between the parties of a resulting contract that the City shall not be obligated to purchase or pay for materials by such contract unless and until they are ordered and delivered.

The City reserves the right to be sole judge and to make the award in accordance with its own judgement as to what will best meet its requirements and be in the best interest of the City. The City reserves the right to reject any or all bids, to waive all informalities, and to reject any or all items of any bid.

AVAILABILITY OF FUNDS: It is understood and agreed between the Bidder and the City that the City shall be bound hereunder only to the extent of the funds available or which may hereafter become available for the purpose of this quotation or agreement.

WITHDRAWAL OF BID: No bid may be withdrawn for a period of ninety (90) days from the date of bid opening unless the bidder has made a clerical error. The bidder shall give notice in writing of his claim of right to withdraw his bid within two (2) business days after the conclusion of the bid opening procedure and shall submit original work papers substantiating the error with such notice.

Bidding and contracting procedures shall conform to all applicable regulations and provisions of the *City of Hopewell Procurement Ordinance* effective July 1, 2005, as amended; a copy of which is available on the City Attorney's website (www.hopewellva.net) under the tab CODE, Hopewell city code. Click Chapter 2A-Procurement to view the Procurement Ordinance.



April L. Cone,
Purchasing Officer

Please return the bids to the Office of the City Clerk, Second Floor, Municipal Building, 300 North Main Street, Hopewell, Virginia 23860. Regardless of delivery method of bid, the **outside** of each envelope must clearly indicate the following: *(if bid is delivered by Federal Express, UPS, USPS Priority, etc. or any other means, the outside of each envelope must also clearly indicate):*

**Office of the City Clerk
Second Floor
Municipal Building
300 North Main Street
Hopewell, Virginia 23860
Closing Date of Bid: February 25, 2016
Commodity Name: Animal Shelter Addition
Bid # 03-16**

In compliance with Invitation for Bid # 03-16 and subject to all conditions thereof and attached thereto, the undersigned offers and agrees if the Bid price and conditions will be accepted within ninety (90) calendar days from the date of opening to evaluate, to furnish any and all of the items upon which the prices are quoted, at the price set opposite each item, delivered at the points as specified and as scheduled.

NAME OF ORGANIZATION	TELEPHONE NUMBER
STREET ADDRESS	FAX NUMBER
CITY, STATE, ZIP CODE	EMAIL ADDRESS
NAME (TYPE OR PRINT)	OFFICIAL TITLE
SIGNATURE	DATE
CLASS A VIRGINIA CONTRACTOR #	IRS I.D. #

1. SCOPE OF THE WORK

The Work covered by these specifications comprises the furnishing of all Labor, Materials, and Equipment for the construction of the Animal Shelter Addition, as described in a satisfactory and acceptable manner. The Work includes, but is not limited to the following:

The supply of all materials identified in the “City of Hopewell, Animal Shelter Addition” design that is dated 11/2015, and to perform all construction activities required to construct this facility to a level that meets all applicable codes and is suitable for use as an animal holding facility. **The project design sheets are located after the Terms and Conditions section of this bid package.**

This project is to be a “turn-key” effort. The Work shall include, but is not limited to: all site preparation, identifying all utility locations, securing all necessary permits, purchasing and installing all needed material according to current codes and laws, developing a punch list and passing a final inspection by the Owner’s architect and the City’s building inspector, and securing a final Certificate of Occupancy from said building inspector.

After a contract is awarded, all Requests For Information (RFI), Clarification Document Requests (CR), Change Order Requests (CO), and Application for Payments shall be submitted in a timely manner through the City of Hopewell Project Manager only. A Project Schedule will be submitted by the Successful Bidder including all material acquisitions, and project close out. Bi-weekly progress site meetings will be attended by all pertinent Construction Representatives and City of Hopewell Representatives to review Project Schedule progress. The Successful Bidder will provide Record Documents of the completed facility in electronic PDF form for City of Hopewell records. All Work, Materials and Equipment shall have a full warranty; to be effective for a minimum of one calendar year after the Owner receives Beneficial Occupancy. All detail and installation work, for all materials and systems, is to be performed according to the Manufacturer’s Specifications and Material Industry Technical Notes (Brick Industry Association, American Concrete Institute, Steel Stud Manufacturers Association, etc.). All roof Work shall include a 15 year Labor and Materials written warranty guarantee with no dollar limit.

The existing Animal Facility and adjacent City Recycling Site will remain in operation during entire construction process. The Contractor is to make all reasonable accommodations of his Work to avoid a closure of the shelter during any of its regular schedule for operations, and to minimize any added stress the animals may experience during the construction activities. The Owner will coordinate all operational activities to minimize any negative interference its daily operations may have on the Contractor’s Work.

2. RESPONSIBILITIES/ QUALITY ASSURANCES

- A. All Work shall comply with all applicable building codes and regulations. The Contractor shall secure all permits as required. A valid business license from the City may be required.

- B. The Contractor must show evidence of being licensed as a **Class A Contractor** and shall provide at least one person who shall be thoroughly trained and experienced in the skills required. This person shall be completely familiar with the design and application of the Work described in these specifications, and who shall be present at all times during progress of the Work, and shall direct all Work performed under these specifications.
- C. All existing utilities, both public and private, shall be protected and their operation shall be maintained throughout the course of Work.
- D. The Owner will not be responsible for the Contractor's loss of tools, materials, etc. The Contractor must safeguard his own equipment and materials at all times.
- E. The Contractor will visit the site and acquaint himself with the existing conditions. The pre-construction meeting between an authorized representative of the Contractor and a representative of the Owner shall be scheduled within ten (10) days after execution of the contract agreement. The Contractor shall, at no time after the site visit, assert that there was any misunderstanding in regard to the nature or extent of the Work or working conditions.
- F. The Owner and patrons will fully occupy the building for the duration of the work period. The Contractor shall conduct the work in a safe and professional manner that will minimize disruption of the Owner's normal operations.
- G. The Contractor shall not interfere in any way with the Owner's daily operations. The Contractor shall construct all barricades and protective facilities required for the protection of the public.
- H. Debris shall be disposed of by the end of "every" working day and not stockpiled. Beverage cans, bottles, lunch refuse, cigarette debris, etc. will not be tolerated on the job site except by immediate and proper disposal of on a daily basis. The Contractor may use the on-site disposal facilities at no charge for waste generated by this project. Use of City facilities must comply with all existing restrictions. No food waste is allowed.
- I. Use of the Owner's existing toilet facilities will not be permitted. The Contractor will be required to provide a portable toilet facility and properly clean and maintain the same in a condition acceptable to the Owner. The location of which is to be approved by the Owner.

3. MATERIALS, PRODUCT HANDLING, AND FACILITIES

- A. The Contractor shall use all means necessary to protect materials before, during, and after installation and to protect the work and materials of other trades.

In the event of damage, the Contractor shall immediately make all repairs and replacements necessary to the approval of the Owner's representative and at no additional cost to the Owner.

- B. The manufacturer shall have the technical expertise and qualified technical representatives to quickly resolve questions or problems that may arise both during and after the Work is completed.
- C. The Owner will furnish one electrical outlet and one water outlet without charge. Acceptance by the Contractor of the use of Owner's water & electricity constitutes a release to the Owner of all claims for liability by the Contractor for whatever damages which might result from variations of power and water beyond the normal average fluctuations.
- D. Uncovered storage space is available within the designated staging area located behind the Shelter.
- E. The Owner will not unload any of the Contractor's material or equipment.
- F. Construction parking, material storage, and staging area will be in an area designated by the Owner. The Contractor will be responsible for the maintenance and security of this area.
- G. The Contractor may dispose of all construction debris from this project, at no charge to the Contractor, in the City's waste containers located adjacent to the construction site. This waste must comply with the legal restrictions that apply to all users of the facility.
- H. The Contractor shall furnish and maintain all temporary ladders, ramps, runways, scaffolds, stairs and similar items required for the proper execution of the Work.

4. PROJECT TIME LINE

The Contractor shall be required to start and complete the entire project between April 1st, 2016 and September 15th, 2016. The Contractor is expected to provide the proper amount of equipment, manpower and materials to meet this schedule.

5. CLEANUP

Upon final completion of the Work, the Contractor shall be responsible for cleaning up any excess materials and /or debris left by his construction crews and subcontractors upon final completion.

6. BOND INFORMATION

- A. **Bid Bond:** A bidder's bond or certified check in the amount of five percent (5%) of the amount bid shall accompany bid proposal for the bid to be acceptable.
- B. **Performance and Labor and Material Payment Bond:** Upon award of the contract the Contractor shall be required to furnish a performance bond and a labor and material payment bond in the amount of the contract price, as security for faithful performance of the work in strict conformity

with the contract documents and for payment of all persons who perform labor and furnish materials in prosecution of the work. The surety on such bonds shall be duly authorized to do business in the Commonwealth of Virginia and be satisfactory to the City.

7. BIDDER DATA

Contractors shall have the capability in all respects to perform fully the contract requirements and the experience, integrity, perseverance, reliability, capacity, facilities, equipment, and credit which will assure good faith performance of the contract to the satisfaction of the City.

Indicate the length of time contractor has been in business as a company providing the type of good(s) and/or service(s) required for this contract.

_____ years _____ months

Provide a minimum of three (3) references that will substantiate past work performance and experience in the type of work required for this contract.

Company Name, Address, Phone Number and Contact Person's Name and Email Address:

1. _____

2. _____

3. _____

8. VIRGINIA STATE CORPORATION COMMISSION (SCC) REGISTRATION INFORMATION

The bidder shall submit the following form with their bid. If bid proposal does not include the State Corporation Commission Form, the bid will be considered non-responsive.

State Corporation Commission Form

Virginia State Corporation Commission (“SCC”) registration information:

The undersigned Bidder:

is a corporation or other business entity with the following SCC identification number:
_____ **-OR-**

is not a corporation, limited liability company, limited partnership, registered limited liability partnership, or business trust **-OR-**

is an out-of-state business entity that does not regularly and continuously maintain as part of its ordinary and customary business any employees, agents, offices, facilities, or inventories in Virginia (not counting any employees or agents in Virginia who merely solicit orders that require acceptance outside Virginia before they become contracts, and not counting any incidental presence of the Bidder in Virginia that is needed in order to assemble, maintain, and repair goods in accordance with the contracts by which such goods were sold and shipped into Virginia from bidder’s out- of-state location) **-OR-**

is an out-of-state business entity that is including with this bid an opinion of legal counsel which accurately and completely discloses the undersigned Bidder’s current contacts with Virginia and describes why those contacts do not constitute the transaction of business in Virginia within the meaning of § 13.1-757 or other similar provisions in Titles 13.1 or 50 of the Code of Virginia.

****NOTE**** >> Check the following box if you have not completed any of the foregoing options but currently have pending before the SCC an application for authority to transact business in the Commonwealth of Virginia and wish to be considered for a waiver to allow you to submit the SCC identification number after the due date for proposals (the City reserves the right to determine in its sole discretion whether to allow such waiver):

Signature: _____

Date: _____

Name: _____
Print

Title: _____

Name of Firm: _____

9. TECHNICAL ASSISTANCE/BID SUBMISSION QUESTIONS

All written questions must be received by the City no later than Friday, January 29, 2016.

Responses to all written questions will be issued by an addendum after February 5, 2016.

Questions regarding proposal submissions should be directed to the City's Purchasing Officer, April Cone, at (804) 541-2205 or acone@hopewellva.gov. Technical questions regarding this project should be directed to:

Mr. Edward O. Watson, PE
Director of Public Works
103 S. Hopewell St.
Hopewell, VA 23860
Telephone: (804) 541-2293
Fax: (804) 541-2456
E-Mail: ewatson@hopewellva.gov

In order to maintain equal access to information we request that you not contact anyone other than the individuals named above. If there are any changes to the scope of work, addenda will be issued by the Purchasing Agent to all known participants.

10. ANIMAL SHELTER LOCATION AND ADDITIONAL INFORMATION

The Hopewell Animal Shelter is located at 507 Station Street, Hopewell, VA 23860. Since this bid is a re-issue of a previous bid (IFB #11-15 issued in April 2015), there will not be a Pre-bid Conference. Contractors may visit the Animal Shelter, if needed.

Below is additional clarification for the construction of this project:

1. **REQUEST FOR SOIL BORING / GEOTECH INFORMATION** – See Report of Geotechnical Study located after the site plans.
2. **CLARIFICATION ON ENGINEERED FILL**- The contractor is to supply the fill material. The owner's engineer will approve specification prior to installation in the excavation area.
3. **CLARIFICATION ON EARTH GRADING DEPOSIT LOCATION BY CITY**- Soil to be stockpiled at an approved area within the public works yard. Site will be within 200 yards of the building site.
4. **CLARIFICATION ON CONNECTION TO UTILITIES**- Water and sewer line extensions to the new addition are to be connected using the existing service lines, at any reasonable location, in front

of the existing building. The existing service lines extend from the street service lines to locations directly in front of the existing building.

5. **CLARIFICATION ON CONNECTION FEES FOR UTILITIES-** If there are any utility connection fees, the Contractor is to pay the fees as required, with prior approval from the Owner, then submit to be reimbursed the amount of the fee as part of a Pay Request submittal.
6. **CLARIFICATION ON PRIOR REMOVAL AND RELOCATION OF TREE ADJACENT SITE BY CITY-** The tree will be removed by the City prior to Notice to Proceed.
7. **CLARIFICATION ON AMOUNT OF ROAD SHIFTING TO NORTH-** Owner will modify existing site access as needed after the construction is completed.
8. **CLARIFICATION THAT ELEVATION CHANGE SWAIL WILL OCCUR BETWEEN ROADWAY AND SITE / PAD LEVEL WITH EXISTING BUILDING SLAB ELEVATION-** Confirmed, exact location to be determined in the field after final grading for the building and sidewalks has been accomplished.
9. **CLARIFICATION OF RELOCATION OF EXISTING COMPRESSOR UNIT BY CITY-** HVAC unit in back of existing structure will be moved out of the way of new project. Contractor to take necessary measures to protect unit once moved.
10. **USE OF DURALAST EPOXY FLOORING AS AN ALTERNATIVE COATING-** Bidders shall only quote the material that is required in the plans. Owner will consider substitutions once the contract is awarded.
11. **STAINLESS STEEL IS SPECIFIED HERE A SPECIFIC ALLOY OF STAINLESS, I.E., #304?** 304 is acceptable.
12. **CHAIN LINK CONSTRUCTION IS SPECIFIED-MAY A 2"X2" WELDED MESH BE USED?** Provide alternative welded mesh system for review...stainless steel material.
13. **I DID NOT SEE A GAUGE SPECIFIED-** Wire diameter 5mm (6 gauge +/-) w/ 2 IN opening.
14. **LATCH MECHANISM FOR THE GATES?** Auto latch 1-3/8 gate frame x 1-3/8 latch post or equal.
15. **IS THERE A SPECIFICATION ON THE GATE ASSEMBLY, I.E., HINGE-TYPE, HANDLE, ETC.?** Single swing gate with truss rod cross bracing in gate panel.
16. **DO SUPPLIERS DEAL WITH POTENTIAL GENERAL CONTRACTORS OR THE CITY?** General contractor.
17. **WILL THE 3RD PARTY INSPECTIONS BE PAID FOR BY THE CITY OF HOPEWELL?** Yes.
18. **PLEASE CONFIRM THE CONTRACTORS BUILDER'S RISK INSURANCE IS ONLY FOR THE VALUE OF THE PROJECT AND DOES NOT COVER THE EXISTING BUILDING.** Builder's Risk insurance is only

required for the new construction. Insurance for the existing building is not required in this contract.

19. **ARE LIQUIDATED DAMAGES ASSOCIATED WITH THIS PROJECT?** Yes, there is a \$100 per calendar day damage charge for each day the project remains without a Certificate of Occupancy after the contract completion date.
20. **THE PLANS DO NOT SHOW ANY SITEWORK SUCH AS GRADING, EROSION CONTROL, STORM SEWER AND UTILITIES SO IS THE SITEWORK BEING HANDLED BY THE CITY OF HOPEWELL UNDER A SEPARATE CONTRACT?** The Contractor is to acquire storm water and erosion control permits and install required measures as a part of base bid. Contractor is to restore existing site to allow sufficient drainage and provide seeding to stabilize the soil from erosion.
21. **Are any of the receptacles shown on Sheet E-1 to be on dedicated circuits, or should they be circuited per the National Electric Code minimums?** The circuits only need to meet national electric code minimum standards.
22. **Are the voice/data/intercom outlets wall boxes with empty conduit stubbed up into the ceiling space (ring & string) for an Owners communications vendor to complete, or is it the intent of this project that the General Contractor is responsible for including wire and terminations for these systems.** The conduit is to be stubbed to ceiling space ring and strung for the City's Information Technology contractor to install.
23. **Sheet E-2 shows two (2) Dusk to Dawn switches. There are no exterior lighting fixtures shown in the documents. What are these devices meant to control? Is this device a photocell only?** Exterior wall pack lighting control is required.
24. **There are no exit or emergency egress fixtures noted on the electrical drawings. Architectural Sheet A3 notes a LED exit sign. Is it the intent that the General Contractor is to include these life safety systems for the addition per National Electric Code minimums, whether shown or not?** Only needs to meet National Electric Code minimum standards.
25. **Sheet P-1 indicates to provide WH-1, a cabinet-mounted instantaneous point-of-use water heater. Please provide the kW size desired, whether they are hard wired or plug in, and if they are 120V or 240v.** 13 kw water heater, A 240 volt electrical service hard wire, a dedicated 60 amp breaker and 6 gauge copper wiring, with ½ inch water connections.
26. **Sheet A-1 notes the width of the addition exterior perimeter 4" concrete sidewalk to be 6'. Sheet A-2 notes that the roof overhang around the perimeter of the building is 3'. Please confirm whether a 6' wide or 3' wide perimeter concrete sidewalk is required.** 6 foot sidewalk.
27. **Please confirm whether or not that the specialized coating (PaliKrom 185) is required to be applied to the building exterior perimeter concrete sidewalk.** No, outdoor sidewalks do not have to be sealed.

28. **Sheet P-1. GR-1, Grease trap clean out with access door. These appear only to be regular clean-outs located for accessing the various sanitary sewer runs. Is a grease trap required for this facility due to the food prep room?** No. GR 1 has a basket to collect hair particulates.
29. **Sheet C-1 portrays the exterior kennel runs to protrude a few feet from the face of the addition exterior wall. Plans indicate that the kennel fencing stops flush at the building exterior wall. Please confirm intent.** The kennel runs will be flush with the exterior face of the hardi-board exterior facade.
30. **Sheet A-1. The connector corridor has a note that indicates fencing with a 48" gate on one side. Sheet A-4 indicates two half runs of chain link fence on each side of the connector and no gate. Please confirm the chain link fencing intent along this connector corridor-** D 111b, D110a, and D110b are all chain link gates.
31. **Sheet A-5. Marlite or equal. All vertical partitions and horizontal ceiling surfaces. Please confirm that this finish is only required at all GWB vertical partitions, and horizontal ceiling surfaces without hardiboard soffit.**- Marlite panels to be installed at all vertical surfaces and horizontal ceiling and soffit surfaces on the interior of the building.
32. **On Sheet SI-1, there appears to be a connector road between the existing drive/parking lot and the vehicle unloading area of the addition. Is this work part of this contract, and if so, please provide a description of what is required. Gravel connector pad provided by the City of Hopewell.** Base bid is to only include site leveling and seed stabilization.
33. **Sheet P-1 indicates that two (2) rain collection barrels are to be provided at the end of the downspouts. Is there a certain gallon size barrel that is desired? Any special consideration required for barrel overflow routing besides discharging directly onto the sidewalk?** Rain barrel is to be a Terranova, 72 gallon rain tank with brass tap and with a thin profile and connection kit or equal. Connect universal downspout connection kit. Overflow will spill across sidewalk.
34. **Sheets S-3 and A-3 note at the masonry kennel walls "8" x 6" glazed face CMU..." Sheet A-5 notes Behr or equal epoxy coating on all exposed CMU. These specifications are typically "either or" and not in conjunction with one another. Please confirm the intent for the face finish of these CMU walls.**- Epoxy coat the CMU partitions glazed CMU not required but can be an alternate.

BID FORM

Price - Main Structure - Lump Sum

@ _____ \$ _____
Written word (governs over numbers in discrepancy)

GENERAL TERMS AND CONDITIONS

- A. **APPLICABLE LAWS AND COURTS:** This solicitation and any resulting contract shall be governed in all respects by the laws of the Commonwealth of Virginia and the City of Hopewell, Virginia; any litigation with respect thereto shall be brought in the courts of the City. The contractor shall comply with all applicable federal, state and local laws, rules and regulations. This compliance includes obtaining a Hopewell business license, if required, before work is performed.
- B. **EMPLOYMENT DISCRIMINATION/DRUG-FREE WORKPLACE BY CONTRACTOR:** By submitting the bids/proposals, the bidders/offerors certify to the City that they will conform to the provisions of the Federal Civil Rights Act of 1964, as amended, as well as the Virginia Fair Employment Contracting Act of 1975, as amended, where applicable, the Virginians With Disabilities Act, the Americans With Disabilities Act and §2.2-4311 of the *Virginia Public Procurement Act*. If the award is made to a faith-based organization, the organization shall not discriminate against any recipient of goods, services, or disbursements made pursuant to the contract on the basis of the recipient's religion, religious belief, refusal to participate in a religious practice, or on the basis of race, age, color, gender or national origin and shall be subject to the same rules as other organizations that contract with the City to account for the use of the funds provided; however, if the faith-based organization segregates public funds into separate accounts, only the accounts and programs funded with public funds shall be subject to audit by the City. (Code of Virginia, § 2.2-4343.1E).

Every contract over Ten Thousand Dollars (\$10,000) shall include the provisions below. During the performance of this contract, the contractor agrees as follows:

1. The contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability or other basis prohibited by state law relating to discrimination employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause.
2. The contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, will state that such contractor is an equal opportunity employer.
3. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
4. To provide a drug-free workplace for the contractor's employees.
5. To post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for

violations of such prohibition.

6. To state in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace.

For the purposes of this section, “drug-free workplace” means a site for the performance of work done in connection with a specific contract awarded to a contractor, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

The contractor will include the provisions of the foregoing paragraphs 1, 2, 3, 4, 5 and 6 in every subcontract or purchase order over Ten Thousand Dollars (\$10,000) so that the provisions will be binding upon each subcontractor or vendor.

- C. **DIRECT TAXES:** All bids/proposals shall be submitted exclusive of direct Federal, State, and local taxes. However, if the bidder/offeror believes that certain taxes are properly payable by the City, he may list such taxes separately in each case directly below the respective item bid/proposal price. Tax exemption certification will be furnished on request.
- D. **INDEMNITY:** The contractor agrees to defend, indemnify and hold harmless, the City of Hopewell and its members, officers, directors, employees, agents, and representatives from and against any and all claims, damages, demands, losses, costs and expenses, including attorney’s fees, and any other losses of any kind or nature whatsoever including claims for bodily injuries, illness, disease, or death and physical property loss or damage in favor of contractor, its sub-contractors, their employees, agents, and third parties arising during the performance of services and resulting from tort, strict liability, or negligent acts or omissions of contractor, its sub-contractors and their employees or agents under the agreement, or resulting from breaches of contract, whatever by statute or otherwise.
Each contractor shall assume the responsibility for damage to or loss of its material, equipment or facilities located at the site and, in order to effect this limitation of liability, the contractor agrees to insure or self-insure such property against any such risk.
- E. **SALES TAXES:** The City is exempt from payment of State sales and use tax on all tangible personal property purchased or leased for its use or consumption. Certificate of Exemption will be furnished upon request.
- F. **QUOTATION FORM:** The bidder/offeror must sign and properly fill out all forms in this Bid/Proposal or be subject to being declared unresponsive. If unable to submit a Bid/Proposal, please sign and return this solicitation form, advising reason for no Bid/Proposal.
- G. **CONTRACTOR’S DEFAULT:** In case of default of the contractor, the City may procure the articles of service from other sources and hold the contractor responsible for any excess cost incurred thereafter. If the contractor fails to complete the Work within the Time for Completion or the Contract Completion Date, the contractor shall be liable for any and all actual damages sustained as a result of delay. In addition to damages for delay, the contractor shall also be liable

for any and all actual damages sustained by the Owner as a result of any other breach of the Contract, including, but not limited to Defective Work and abandonment of the Contract.

- H. **COMPUTATION OF TIME FOR DISCOUNTS:** Time in connection with discount offered, will be computed from date of delivery of the supplies or materials to carrier when final inspection and acceptance are at those points or from date correct invoice is received if latter is later than the date of delivery.
- I. **LIQUIDATED DAMAGES:** If awarded this contract, the undersigned agrees that all work under each phase of the work noted above and covered in the contract shall be:
1. Substantially completed and accepted by the owner within specified time frame.
 2. Approved by the owner but with minor discrepancies at the end of specified time frame; from the date work is authorized to begin. Further, the undersigned agrees that the compensation amount owner shall retain will be the sum of one hundred dollars (\$100) per day each day after the date of scheduled completion and for as long as any work under the contract remains incomplete; Saturdays, Sundays and holidays are included. This sum shall represent the actual measure of liquidated damages which the owner will sustain per diem by failure of the contractor to complete the work at the time stipulated, and this is not to be considered in any way a penalty.

The undersigned further agrees that, in case of failure on his part to execute said contract and the guarantee bond within the ten (10) calendar days after written notice being given of the award of the contract, the check, or bid bond accompanying this bid, and the monies payable thereon, shall be paid into the general fund of the City of Hopewell as liquidated damages for such failure, otherwise the check or bid bond accompanying this bid shall be returned to the undersigned.

- J. **ETHICS IN PUBLIC CONTRACTING:** By submitting the bids/proposals, the bidders/offerors certify that the bids/proposals are made without collusion or fraud and that they have not offered or received any kickbacks or inducements from any other bidder/offeror, supplier, manufacturer or subcontractor in connection with the bid/proposal, and that they have not conferred on any public employee having official responsibility for this procurement transaction any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value was exchanged.
- K. **GOVERNMENTAL RESTRICTIONS:** In the event any governmental restrictions may be imposed which would necessitate alteration of the materials, quality, workmanship, or performance of the items offered in this Bid/Proposal prior to their delivery, it shall be the responsibility of the successful bidder/offeror to notify this office at once, indicating in his letter the specific regulation which requires such alterations. The City reserves the right to accept any such alterations, including any price adjustments occasioned thereby, or to cancel the contract.

- L. **IMMIGRATION REFORM AND CONTROL ACT OF 1986:** By entering into a written contract with the City of Hopewell, the Contractor certifies that the Contractor does not, and shall not during the performance of the contract for goods and services in the City, knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986.
- M. **DEBARMENT STATUS:** By submitting the bids/proposals, the bidders/offers certify that they are not currently debarred by the Commonwealth of Virginia from submitting bids or proposals on contracts for the type of goods and/or services covered by this solicitation, nor are they an agent of any person or entity that is currently so debarred.
- N. **ANTITRUST:** By entering into a contract, the contractor conveys, sells, assigns, and transfers to the City of Hopewell, Virginia all rights, title and interest in and to all causes of action it may now have or hereafter acquire under the antitrust laws of the United States and the Commonwealth of Virginia, relating to the particular goods or services purchased or acquired by the City of Hopewell, Virginia under said contract.
- O. **PAYMENT:** Payment by the City is due thirty days (30) after delivery is made to the City of Hopewell and inspection unless otherwise specifically provided: subject to any discounts allowed.

To Prime Contractor:

Invoices for items ordered, delivered and accepted shall be submitted by the contractor directly to the payment address shown on the purchase order/contract. All invoices shall show the contract number and/or purchase order number, social security number (for individual contractors) or the federal employer identification number (for proprietorships, partnerships, and corporations).

All goods or services provided under this contract or purchase order, that are to be paid for with public funds, shall be billed by the contractor at the contract price, regardless of which public agency is being billed.

The following shall be deemed to be the date of payment: the date of postmark in all cases where payment is made by mail, or the date of offset when offset proceedings have been instituted as authorized.

Unreasonable Charges: Under certain emergency procurements and for most time and material purchases, final job costs cannot be accurately determined at the time orders are placed. In such cases, contractors should be put on notice that final payment in full is contingent on a determination of reasonableness with respect to all invoiced charges. Charges, which appear to be unreasonable, will be researched and challenged, and that portion of the invoice held in abeyance until a settlement can be reached. Upon determining that invoiced charges are not reasonable, the City shall promptly notify the contractor, in writing, as to those charges, which it considers unreasonable, and the basis for the

determination. A contractor may not institute legal action unless a settlement cannot be reached within thirty (30) days of notification.

To Subcontractors:

A contractor awarded a contract under this solicitation is hereby obligated:

1. To pay the subcontractor(s) within seven (7) days of the contractor's receipt of payment from the City for the proportionate share of the payment received for work performed by the subcontractor(s) under the contract; or
2. To notify the City and the subcontractor(s), in writing, of the contractor's intention to withhold payment and the reason.
3. The contractor is obligated to pay the subcontractor(s) interest at the rate of one percent per month (unless otherwise provided under the terms of the contract) on all amounts owed by the contractor that remain unpaid seven (7) days following receipt of payment from the City, except for amounts withheld as stated in (2) above. The date of mailing of any payment by U. S. Mail is deemed to be payment to the addressee. These provisions apply to each sub-tier contractor performing under the primary contract. A contractor's obligation to pay an interest charge to a subcontractor may not be construed to be an obligation of the City.

P. **PRECEDENCE OF TERMS:** Paragraphs A-N of these General Terms and Conditions shall apply in all instances. In the event there is a conflict between any of the other General Terms and Conditions and any Special Terms and Conditions in this solicitation, the Special Terms and Conditions shall apply.

Q. **TESTING AND INSPECTION:** The City reserves the right to conduct any test/inspection it may deem advisable to assure goods and services conform to the specifications.

R. **ASSIGNMENT OF CONTRACT:** A contract shall not be assignable by the contractor in whole or in part without the written consent of the City.

S. **CHANGES TO THE CONTRACT:** Changes can be made to the contract in any of the following ways:

1. The parties may agree in writing to modify the scope of the contract. An increase or decrease in the price of the contract resulting from such modification shall be agreed to by the parties as a part of their written agreement to modify the scope of the contract.
2. The Purchasing Department may order changes within the general scope of the contract at any time by written notice to the contractor. Changes within the scope of the contract include, but are not limited to, things such as services to be performed, the method of packing or shipment, and the place of delivery or installation. The contractor shall comply with the notice upon receipt. The contractor shall be compensated for any additional costs

incurred as the result of such order and shall give the Purchasing Department a credit for any savings. Said compensation shall be determined by one of the following methods:

a. By mutual agreement between the parties in writing; or

b. By agreeing upon a unit price or using a unit price set forth in the contract, if the work to be done can be expressed in units, and the contractor accounts for the number of units of work performed, subject to the Purchasing Department's right to audit the contractor's records and/or to determine the correct number of units independently; or

c. By ordering the contractor to proceed with the work and keep a record of all costs incurred and savings realized. A markup for overhead and profit may be allowed if provided by the contract. The same markup shall be used for determining a decrease in price as the result of savings realized. The contractor shall present the Purchasing Department with all vouchers and records of expenses incurred and savings realized. The Purchasing Department shall have the right to audit the records of the contractor, as it deems necessary to determine costs or savings. Any claim for an adjustment in price under this provision must be asserted by written notice to the Purchasing Department within thirty (30) days from the date of receipt of the written order from the Purchasing Department. If the parties fail to agree on an amount of adjustment, the question of an increase or decrease in the contract price or time for performance shall be resolved in accordance with the procedures for resolving disputes provided by the Disputes Clause of this contract or, if there is none, in accordance with the disputes provisions of the Virginia Public Procurement Act. Neither the existence of a claim nor a dispute resolution process, litigation or any other provision of this contract shall excuse the contractor from promptly complying with the changes ordered by the Purchasing Department or with the performance of the contract generally.

T. **DEFAULT:** In case of failure to deliver goods or services in accordance with the contract terms and conditions, the City, after due oral or written notice, may procure them from other sources and hold the contractor responsible for any resulting additional purchase and administrative costs. This remedy shall be in addition to any other remedies, which the City may have.

U. **AUTHORIZATION TO CONDUCT BUSINESS IN THE COMMONWEALTH:** A contractor organized as a stock or non-stock corporation, limited liability company, business trust, or limited partnership or registered as a registered limited liability partnership shall be authorized to transact business in the Commonwealth as a domestic or foreign business entity if so required by Title 13.1 or Title 50 of the Code of Virginia or as otherwise required by law. Any business entity described above that enters into a contract with the City pursuant to the Virginia Public Procurement Act shall not allow its existence to lapse or its certificate of authority or registration to transact business in the Commonwealth, if so required under Title 13.1 or Title 50, to be revoked or cancelled at any time during the term of the contract. The City may void any contract with a business entity if the business entity fails to remain in compliance with the provisions of this section.

V. **INSURANCE**: The contractor shall secure and maintain in force, at his/her own expense all required forms of insurance and payment bonds to insure the completion for the work under contract to the satisfaction of the City and without damage to, or claims against the City. The contractor shall provide satisfactory evidence of bonds and insurance on behalf of the sub-contractors, before entering into an agreement to sublet any part of the work to be done under this contract.

The following performance and payment bonds and forms of insurance shall be secured by the contractor to cover all work under contract and to protect the contractor, the City, and general public against any damage of claims in connections with the performance of the contract. The bonds and insurance shall be by companies duly authorized to do business in the State of Virginia. Certificates of Insurance, naming the City as an additional insured for each type of coverage shall be required.

At the discretion of the purchasing agent, bidders/offerors may be required to submit with their bid/proposal a bid/proposal bond, or a certified check, in an amount to be determined by the purchasing agent, which shall be forfeited to the City as liquidated damage upon the bidder's/offeror's failure to execute a contract awarded to him/her or upon the bidder's/offeror's failure to furnish any required performance or payment bonds in connection with a contract awarded to him/her.

At the discretion of the purchasing agent, the winning contractor(s) may be required to submit a performance and payment bond to the City which shall be evoked upon contractor's failure to execute a contract awarded or the failure to satisfactorily complete work for which a contract or purchase order was awarded. Performance bond and payment bond in the amount of one hundred (100) percent of contract price is required as security of contract, or security for payment of all persons performing labor and furnishing materials in connection with the contract, and protecting the City from all damages or claims resulting from, or in connection with the performance of the contract or purchase order.

The performance bond and payment bond shall and does bind the surety company to protect the City from damages, claims or costs by failure of the contractor to make corrective action due to his financial solvency or for any other cause whatever.

INSURANCE COVERAGES AND LIMITS REQUIRED:

1. Worker's Compensation - Statutory requirements and benefits; require that the City of Hopewell, Virginia be added as an additional named insured on contractor's policy.
2. Employers Liability - \$500,000.
3. Comprehensive general liability for bodily injury liability and property damage liability shall

be provided as to limits specified.

4. Contractor's protective liability shall be provided for bodily injury liability and property damage liability.
5. Fire and extended coverage shall be provided on the completed builder risk form if specified in bid specifications.
6. The contractor shall require each of his subcontractors to carry Workmen's Compensation Insurance and public liability and property damages liability.
7. Commercial General Liability - \$1,000,000 combined single limit. The City of Hopewell, Virginia is to be named as an additional named insured with respect to the services being procured. This coverage is to include Products and Completed Operations Coverage.
8. Automobile Liability – bodily injury and property damage shall be provided as to limits set forth in the specifications.

The contractor shall have executed and delivered to the City copies of all insurance certificates.

Executed copies of the performance bond shall become a part of all copies of the contract.

SPECIAL TERMS AND CONDITIONS

- A. **ADVERTISING:** In the event a contract is awarded for supplies, equipment, or services resulting from this bid/proposal, no indication of such sales or services to the City of Hopewell, Virginia will be used in product literature or advertising. The contractor shall not state in any of its advertising or product literature that the City of Hopewell, Virginia or any department or institution of the City has purchased or uses its products or services.
- B. **AUDIT:** The contractor shall retain all books, records, and other documents relative to this contract for five (5) years after final payment, or until audited by the City of Hopewell, whichever is sooner. The agency, its authorized agents, and/or state auditors shall have full access to and the right to examine any of said materials during said period.
- C. **AWARD OF CONTRACT:** An award will be made to the lowest responsive and responsible bidder/offeror. Evaluation will be based on net prices. Unit prices, extensions and grand total must be shown. In case of arithmetic errors, the unit price will govern. If cash discount for prompt payment is offered, it must be clearly shown in the space provided. Discounts for prompt payment will not be considered in making awards. The City reserves the right to reject any and all bids/proposals in whole or in part, to waive any informality, and to delete items prior to making an award.

- D. **BID/PROPOSAL ACCEPTANCE PERIOD:** Any bid/proposal in response to this solicitation shall be valid for 90 days. At the end of the 90 days the bid/proposal may be withdrawn at the written request of the bidder/offeror. If the bid/proposal is not withdrawn at that time it remains in effect until an award is made or the solicitation is canceled.
- E. **CANCELLATION OF CONTRACT:** The Purchasing Department reserves the right to cancel and terminate any resulting contract, in part or in whole, without penalty, upon 30 days written notice to the contractor. In the event the initial contract period is for more than 12 months, the resulting contract may be terminated by either party, without penalty, after the initial 12 months of the contract period upon 30 days written notice to the other party. Any contract cancellation notice shall not relieve the contractor of the obligation to deliver and/or perform on all outstanding orders issued prior to the effective date of cancellation.
- F. **EXTRA CHARGES NOT ALLOWED:** The bid/proposal price shall be for complete installation ready for the City's use, and shall include all applicable freight and installation charges; extra charges will not be allowed.
- G. **MINORITY/WOMEN-OWNED BUSINESSES SUBCONTRACTING AND REPORTING:** Where it is practicable for any portion of the awarded contract to be subcontracted to other suppliers, the contractor is encouraged to offer such business to minority and/or women-owned businesses. Names of firms may be available from the buyer and/or from the Division of Purchases and Supply. When such business has been subcontracted to these firms and upon completion of the contract, the contractor agrees to furnish the purchasing office the following information: name of firm, phone number, total dollar amount subcontracted and type of product/service provided.
- H. **PREPARATION AND SUBMISSION OF BIDS/PROPOSALS:** Bids/proposals must give the full business address of the bidder/offeror and be signed by him/her with his/her usual signature. Bids/proposals by partnerships must furnish the full name of all partners and must be signed in the partnership name by one of the members of the partnership or any authorized representative, followed by the designation of the person signing. Bids/proposals by corporations must be signed with the legal name of the corporation followed by the name of the State in which it is incorporated and by the signature and designation of the president, secretary, or other person authorized to bind it in the matter. The name of each person signing shall also be typed or printed below the signature. A bid/proposal by a person, who affixes to the signature the word "President," "Secretary," "Agent" or other designation without disclosing the principal, may be held to be the bid/proposal of the individual signing. When requested by the City, satisfactory evidence of the authority of the officer signing in behalf of the corporation shall be furnished.
- I. **WITHDRAWAL OR MODIFICATION OF BIDS/PROPOSALS:** Bids/proposals may be withdrawn or modified by written notice received from bidders/offerors prior to the deadline fixed for bid/proposal receipt. The withdrawal or modification may be made by the person signing the bid/proposal or by an individual(s) who is authorized by him on the face of the bid. Written modifications may be made on the bid/proposal form itself, on the envelope in which

the bid/proposal is enclosed, or on a separate document. Written modifications, whether the original is delivered, or transmitted by facsimile, must be signed by the person making the modification or withdrawal.

- J. **RECEIPT AND OPENING OF BIDS/PROPOSALS:** It is the responsibility of the bidder/offeror to assure that his bid/proposal is delivered to the place designated for receipt of bids/proposals and prior to the time set for receipt of bids/proposals. Bids/proposals received after the time designated for receipt of bids/proposals will not be considered. Bids/proposals will be opened at the time and place stated in the advertisement, and their contents made public for the information of bidders/offerors and others interested who may be present either in person or by representative. The officer or agent of the City, whose duty it is to open them, will decide when the specified time has arrived. No responsibility will be attached to any officer or agent for the premature opening of a bid/proposal not properly addressed and identified.
- K. **NEGOTIATION WITH THE LOWEST BIDDER:** Unless all bids are cancelled or rejected, the City of Hopewell reserves the right granted by §2.2-4318 of the *Code of Virginia* to negotiate with the lowest responsive, responsible bidder to obtain a contract price within the funds available to the agency whenever such low bid exceeds the city's available funds. For the purpose of determining when such negotiations may take place, the term "available funds" shall mean those funds which were budgeted by the agency for this contract prior to the issuance of the written Invitation for Bids. Negotiations with the low bidder may include both modifications of the bid price and the Scope of Work/Specifications to be performed. The city shall initiate such negotiations by written notice to the lowest responsive, responsible bidder that its bid exceeds the available funds and that the agency wishes to negotiate a lower contract price. The times, places, and manner of negotiating shall be agreed to by the city and the lowest responsive, responsible bidder.
- L. **COOPERATIVE PROCUREMENT:** This procurement is being conducted on behalf of other public bodies, in accordance with 2.2-4304 (A) of the Code of VA. The successful bidder has the option to provide these same items (services), except architectural and engineering services, at the same prices, awarded as a result of this solicitation to any public body within the Commonwealth of Virginia. If any other Public body decides to use the final contract, the contractor(s) must deal directly with that public body concerning the placement of orders, issuance of the purchase orders, contractual disputes, invoicing and payment. Failure to extend a contract to any public body will have no effect on consideration of your bid.

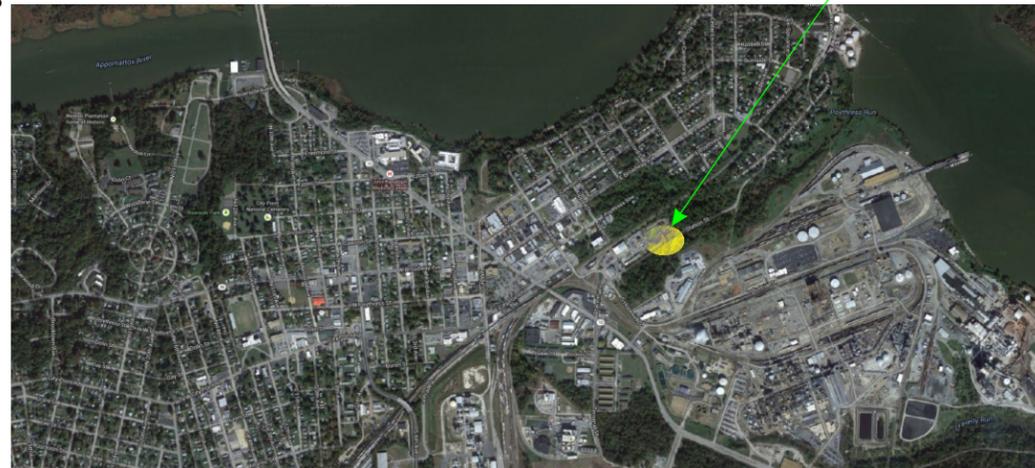
CITY OF HOPEWELL ANIMAL SHELTER ADDITION



507 Station Street Hopewell VA, 23860

SHEET LIST

- C-1 COVER SHEET
- SI-1 SITE LOCATION/ MASTER PLAN
- S-1 STRUCTURAL PLAN
- S-2 STRUCTURAL ROOF PLAN
- S-3 STRUCTURAL SECTION
- S-4 STRUCTURAL DETAIL SHEET 1
- S-5 STRUCTURAL DETAIL SHEET 2
- S-6 STRUCTURAL DETAIL SHEET 3
- S-7 STRUCTURAL NOTES
- A-1 ARCHITECTURAL FLOOR PLAN
- A-2 ARCHITECTURAL ROOF PLAN
- A-3 ARCHITECTURAL NS SECTION
- A-4 ARCHITECTURAL DOORS WINDOWS
- A-5 ARCHITECTURAL NOTES
- E-1 ELECTRICAL POWER DATA PLAN
- E-2 ELECTRICAL LIGHTING
- M-1 MECHANICAL DESIGN PLAN
- P-1 PLUMBING DESIGN PLAN



PROJECT SITE



NTS

AREA MAP

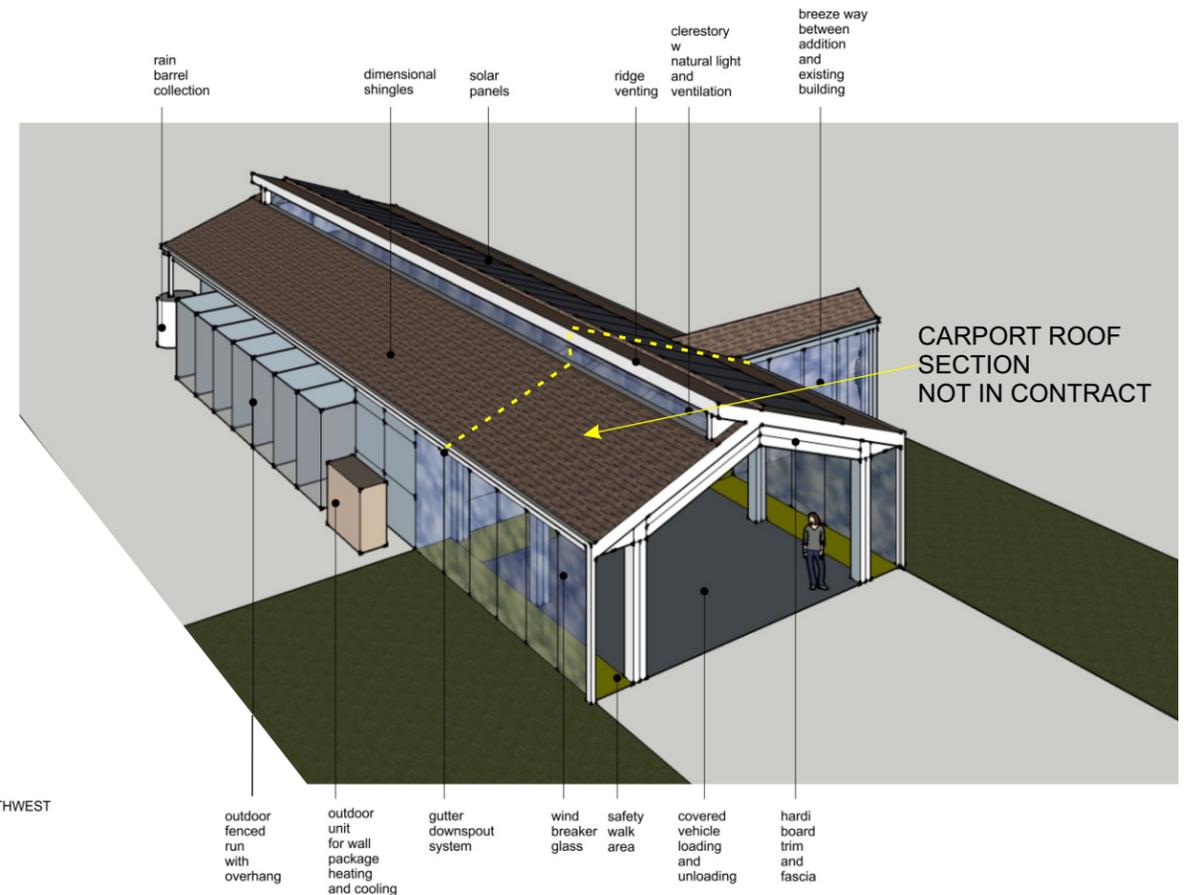
PROGRAM MANAGER
EDWARD O WATSON PE
DIRECTOR OF PUBLIC WORKS
804.541.2293

ARCHITECTURE
J PAUL LEWIS AIA
SENIOR STAFF ARCHITECT
CITY OF HOPEWELL VA

STRUCTURAL ENGINEERING
JIM KONNICK PE
JGK STRUCTURAL ENGINEERS

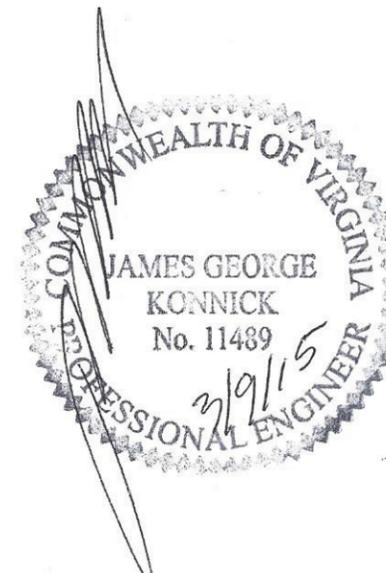
GEOTECH ENGINEERING
F & R RICHMOND

CODE SUMMARY
2009
5B



VIEW FROM NORTHWEST

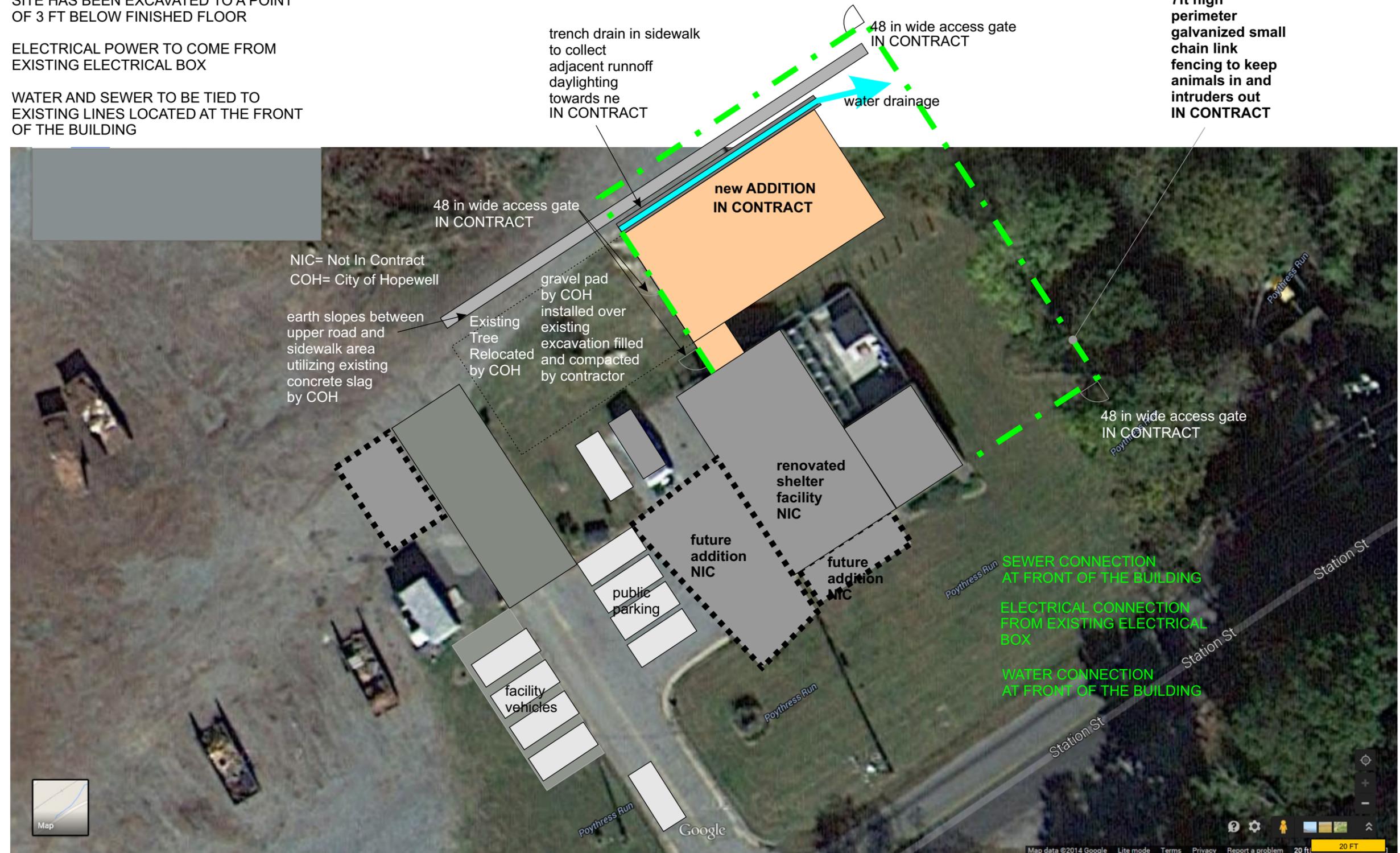
ISOMETRIC VIEW



NOTE:
SITE HAS BEEN EXCAVATED TO A POINT
OF 3 FT BELOW FINISHED FLOOR

ELECTRICAL POWER TO COME FROM
EXISTING ELECTRICAL BOX

WATER AND SEWER TO BE TIED TO
EXISTING LINES LOCATED AT THE FRONT
OF THE BUILDING



W 12 X 26
HOT DIPPED
GALVANIZED
BEAM/
CONNECTORS
(TYPICAL
ALL CONDITIONS)

CENTER LINES
OF GALVANIZED
LIGHT GAUGE
TRUSSES

BEAM
CANTILEVER
AT EACH EAVE

High Strength Steel 4X4X 3/8 IN
COLUMN
TYP OF 8 LOCATIONS

W 12 X 16
24 IN LONG
CORNER BRACE
IF TRUSSES
NOT INSTALLED
(4 LOCATIONS)

LIGHT GAUGE
GALVANIZED STEEL
SCISSOR TRUSS
24 IN OC

**CARPORT
CANOPY
NOT
IN
CONTRACT**

EXISTING
RUNS

84'-11 1/2"

24'-0"

84'-0"

overhang

hvac unit below

hvac unit below

HHS 4X4X 3/8 IN
COLUMN
TYP OF 8 LOCATIONS

HHS 4X4X 3/8 IN
COLUMN
TYP OF 8 LOCATIONS

W 12 X 26

HHS 4X4X 3/8 IN
COLUMN
TYP OF 8 LOCATIONS

20'-0"

19'-0"

2'-0"

TYP
BRACE DIM

pedestrian
connector

10'-0"

vent stacks
at lab sinks

overhang

dimensional
asphalt
shingles
with felt
underlayment
substrate.

12 in batt insulation
with insulation
"air tunnels" between
batts and plywood
substrate.

oversized gutter
and downspout
connected to
rainbarrel collection
system
typ north and south
elevations

roof scissor trusses
24 in on center
hurricane clip attachments
to wall structure

ice/ water barrier
adhered sheet

ridge vent
at top of
clerestory "eyebrow"

clerestory operable hopper
windows

continuous white
metal drip edge flashing
all sides

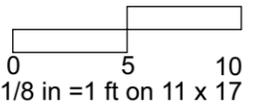
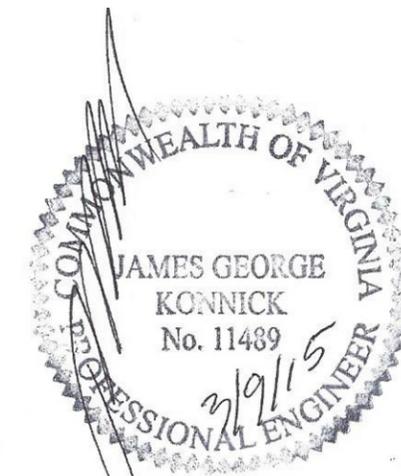
azek or equal
synthetic fascia board
trims all sides

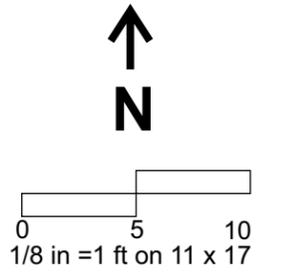
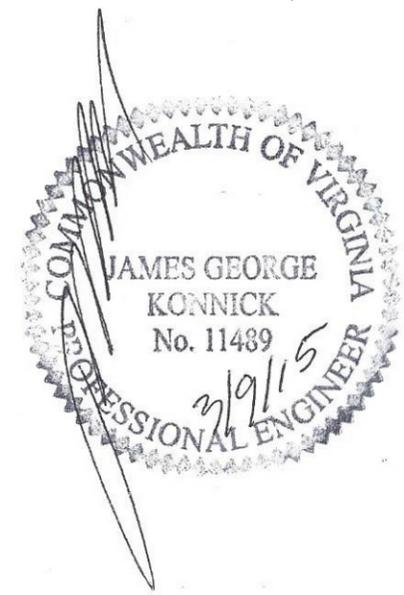
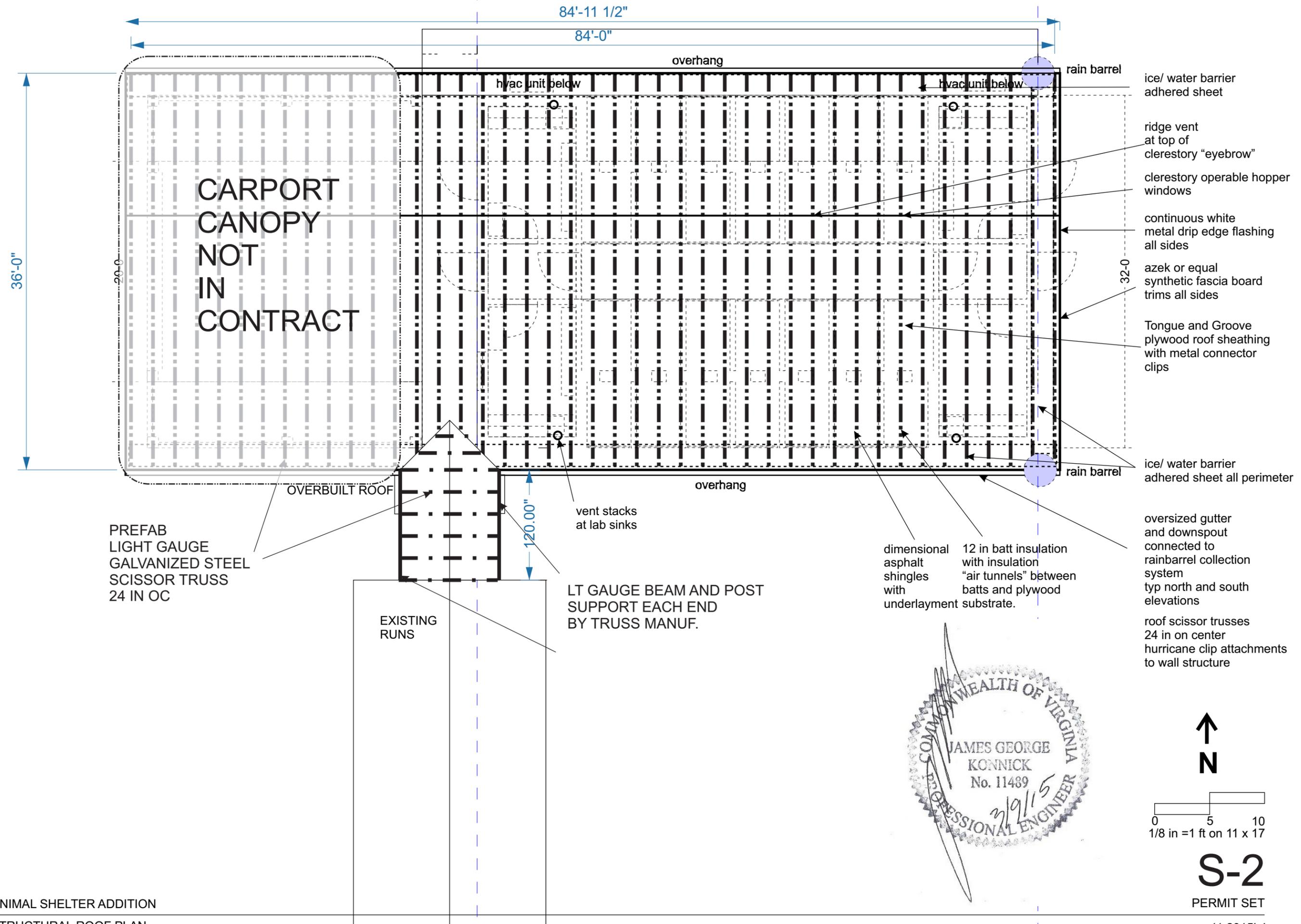
Tongue and Groove
plywood roof sheathing
with metal connector
clips

ice/ water barrier
adhered sheet

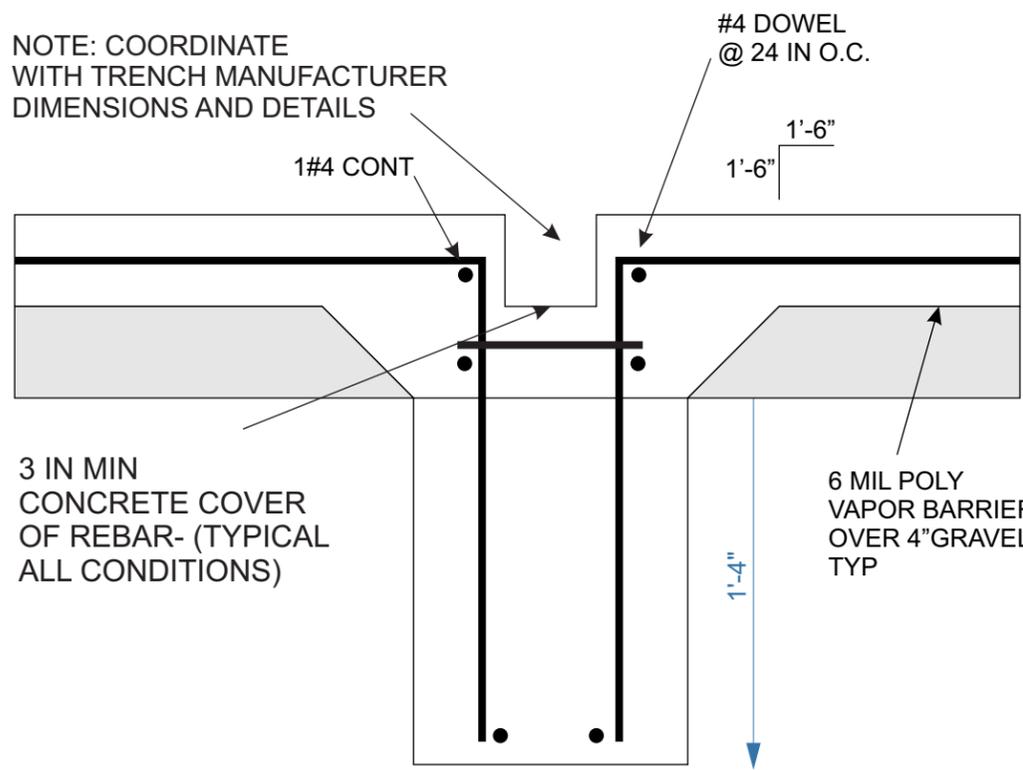
oversized gutter
and downspout
connected to
rainbarrel collection
system
typ north and south
elevations

roof scissor trusses
24 in on center
hurricane clip attachments
to wall structure



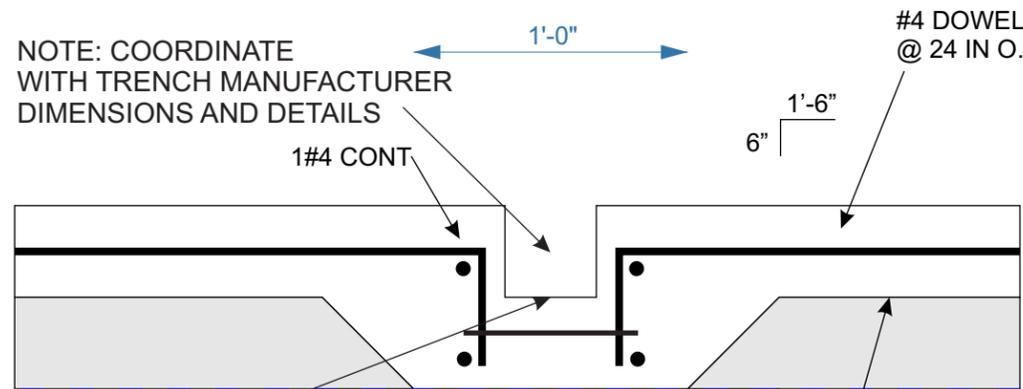


NOTE: COORDINATE WITH TRENCH MANUFACTURER DIMENSIONS AND DETAILS



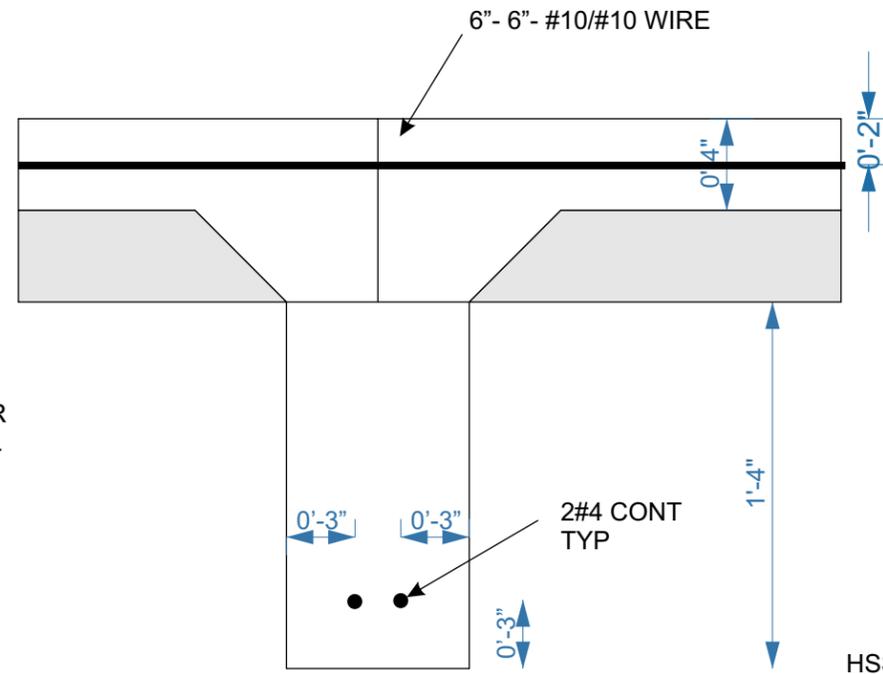
DETAIL 1-S4

NOTE: COORDINATE WITH TRENCH MANUFACTURER DIMENSIONS AND DETAILS



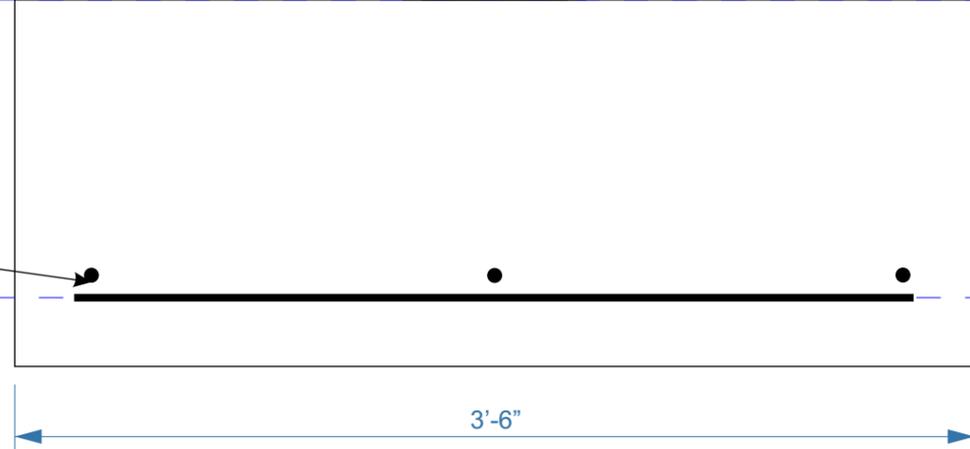
DETAIL 2-S4

3 IN MIN CONCRETE COVER OF REBAR- (TYPICAL ALL CONDITIONS)

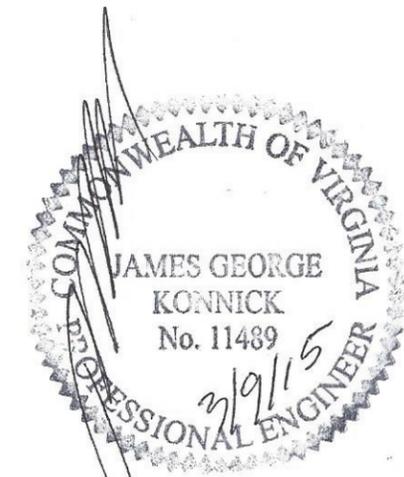
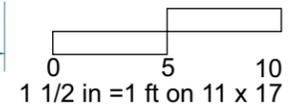


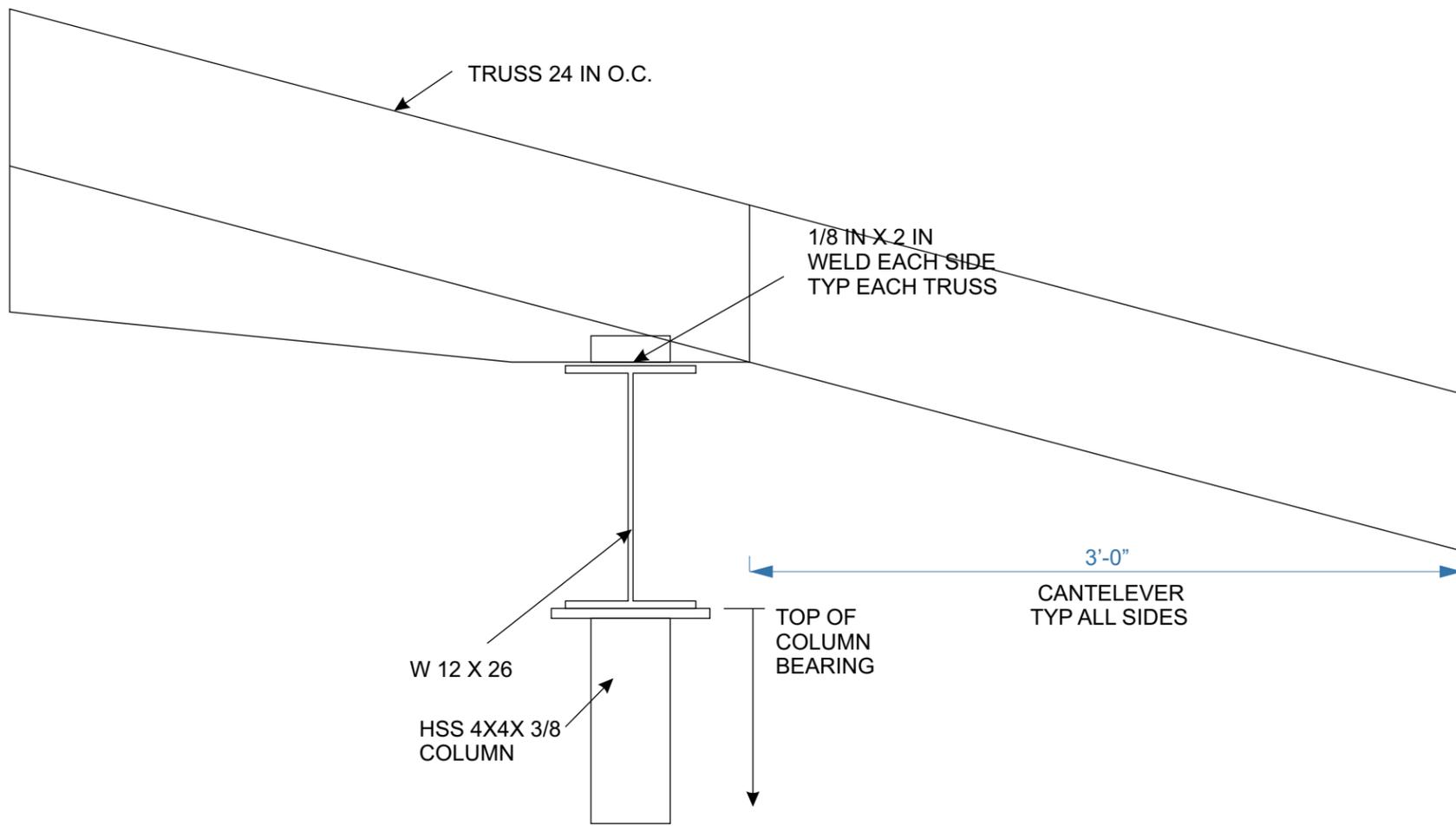
HSS 4X4X3/8 COL ON 10X10X1/2 SHOP WELDED BASE PLATE ON 3/4IN NON-SHRINK LEVELING GROUT. PROVIDED (4) 1/2 IN DIA ANCHOR BOLTS 12 L 2

POUR AFTER COL BASE IS SET

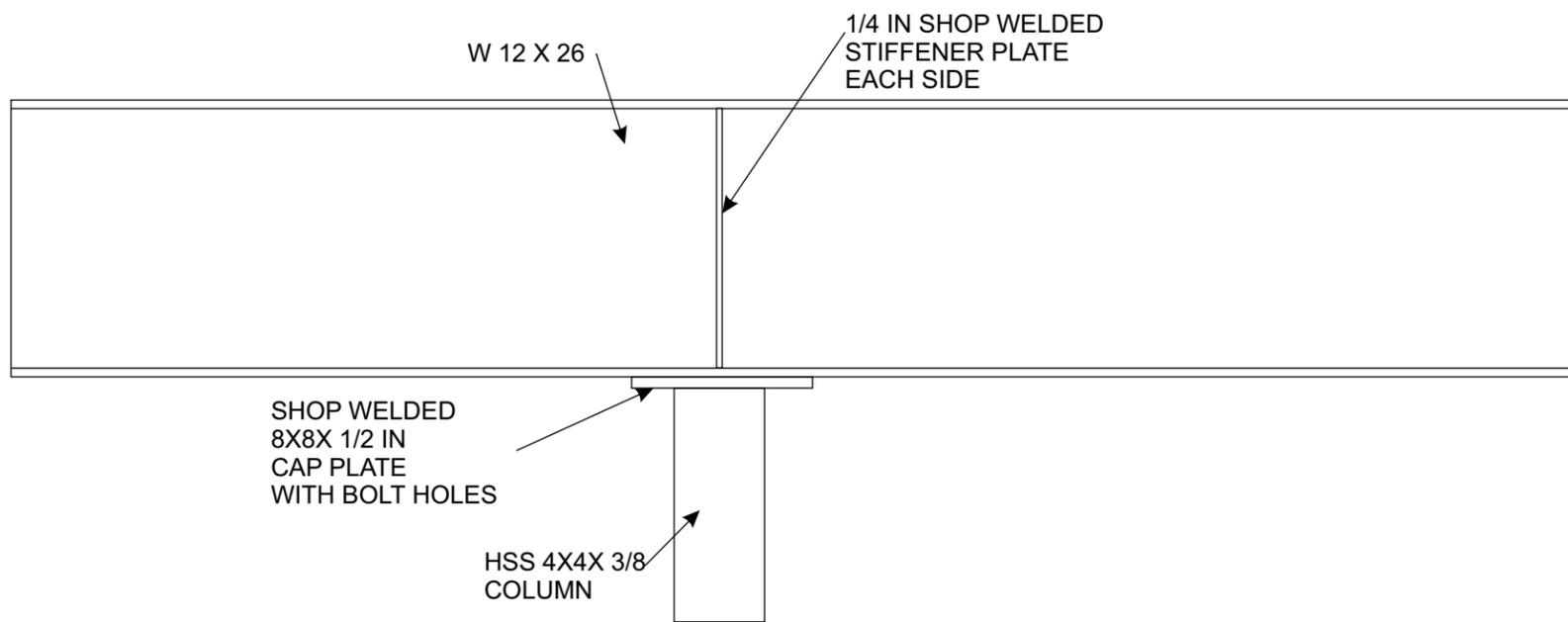


DETAIL 3-S4
FOUNDATION DETAIL AT COLUMNS (8 LOCATIONS)

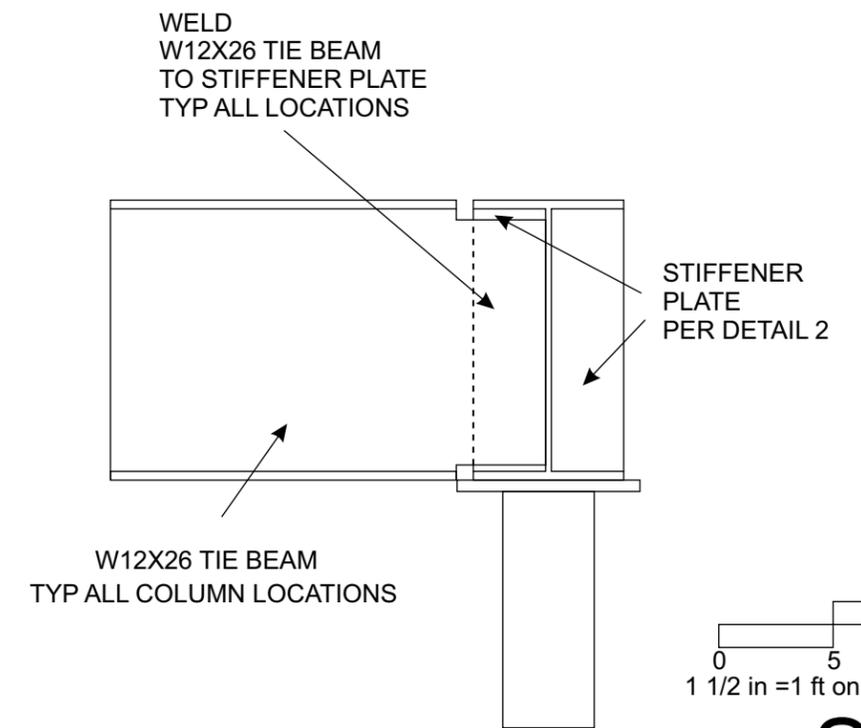
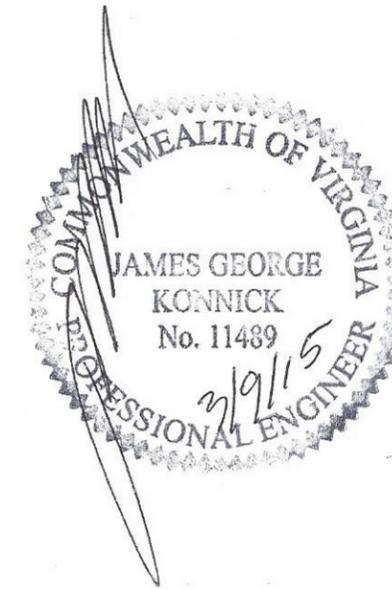




DETAIL 1-S5 @ ROOF TRUSS

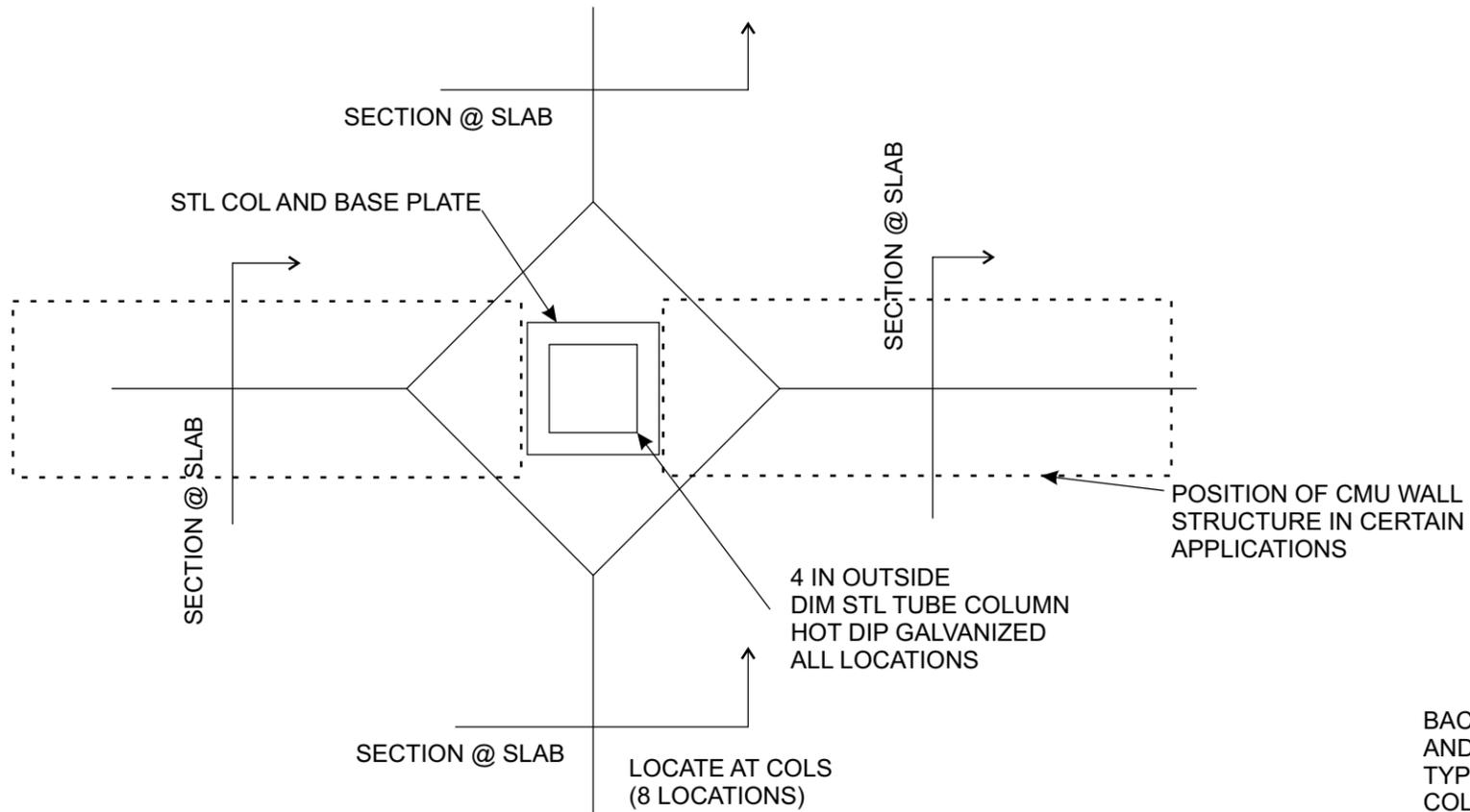


DETAIL 2-S5 @ COLUMN

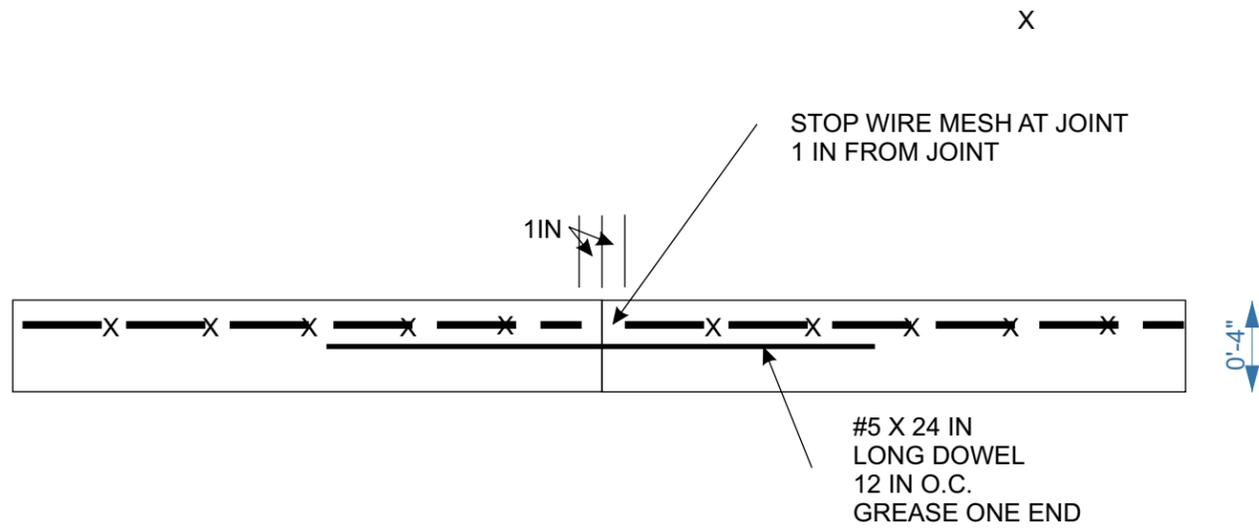


DETAIL 3-S5 @ TIE BEAM CONNECTION

S-5

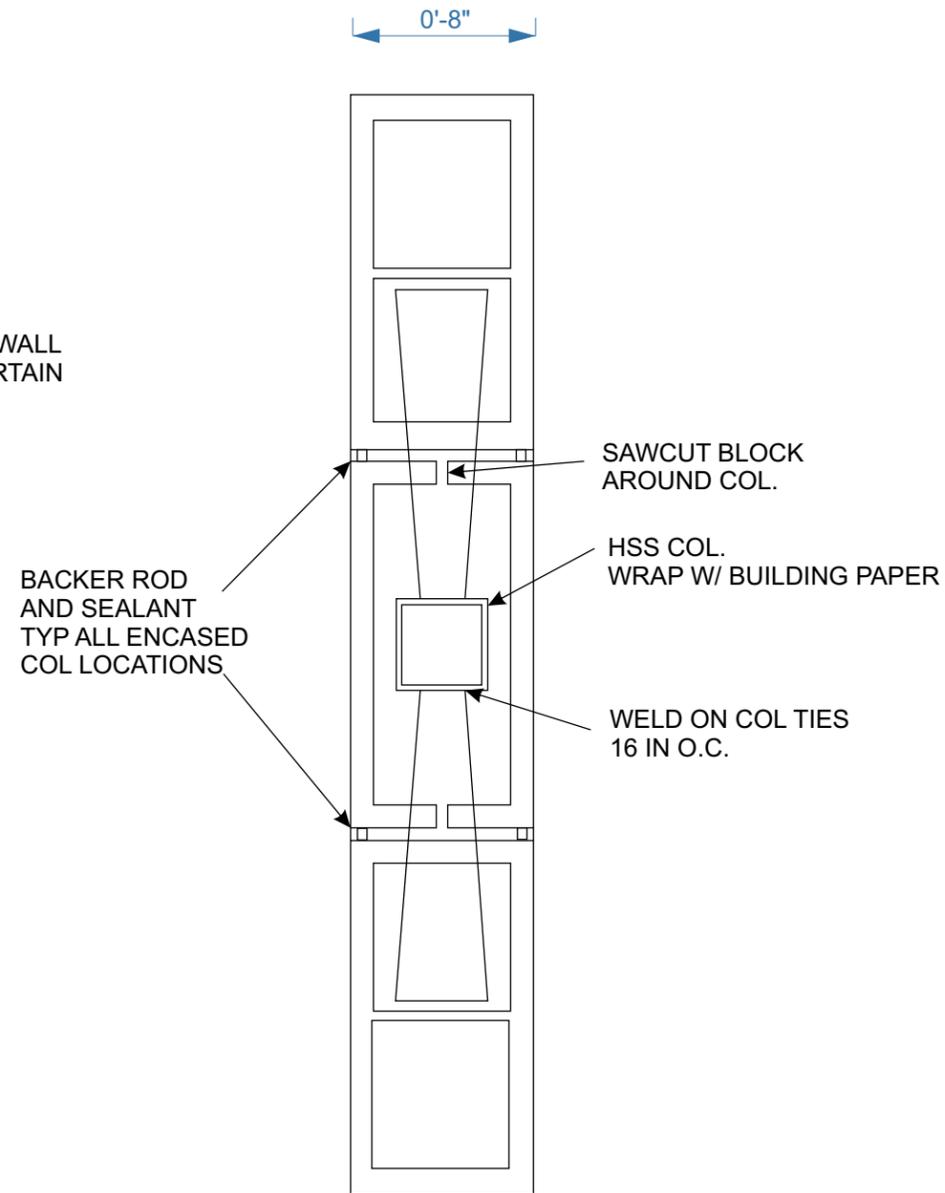


DETAIL 1-S6 PLAN @ COLUMN LOCATIONS

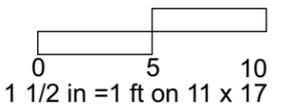


DETAIL 2-S6 SECTION @ SLAB

SLAB ON GRADE CONSTRUCTION JOINT DETAILS



DET 3-S6 @ TYP HHS COL



S-6

PERMIT SET

11.2015jpl

GENERAL NOTES:

DESIGN LIVE LOADS:

ROOF – 30 PSF (SNOW), SNOW LOAD IMPORTANCE FACTOR – 1.0

FLOOR – 100 PSF

WIND LOAD:

90 MPH, EXPOSURE C

SEISMIC: DESIGN CATEGORY A

CODE: IBC 2009

SOIL:

THE DESIGN SOIL BEARING VALUE IS 2000 PSF. THIS VALUE WAS OBTAINED FROM A GEOTECHNICAL ENGINEERING REPORT PREPARED FOR THIS PROJECT BY FROEHLING & ROBERTSON, INC DATED 12/15/14. THIS VALUE SHALL BE FIELD VERIFIED BY ENGINEER PRIOR TO POURING ANY FOUNDATION ELEMENTS. THE GEOTECHNICAL ENGINEER OF RECORD SHALL SUPERVISE THE INSTALLATION AND APPROVE THE INSTALLATION OF ALL CONTROLLED FILL.

EXISTING CONDITIONS:

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS DEPICTED ON THE DRAWINGS AND NOTIFY THE ENGINEER IF DISCREPANCIES EXIST.

GENERAL CONTRACTOR:

THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES TO INCLUDE BUT NOT BE LIMITED TO DIMENSIONS, ELEVATIONS, FINISHES. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING AND SHORING UNTIL THE PERMANENT WORK IS IN PLACE. THESE DRAWINGS WERE PREPARED USING INFORMATION CONTAINED ON DRAWINGS PREPARED FOR THIS PROJECT BY MR. J. PAUL LEWIS, ARCHITECT. THE CONTRACTOR SHALL REFER TO THESE DOCUMENTS FOR ALL DIMENSIONS, ELEVATIONS, AND FINISH REQUIREMENTS AS WELL AS THE COORDINATION OF ALL TRADES.

SHOP DRAWINGS:

SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION AND ERECTION.

CONCRETE:

ALL CONCRETE SHALL BE 3500 PSI WITH 7% ENTRAINED AIR AND A MAXIMUM WATER-CEMENT RATIO OF 0.4. CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR APPROVAL. CONCRETE TEST CYLINDERS SHALL BE TAKEN IN ACCORDANCE WITH THE ACI CODE (LATEST EDITION) AND CONCRETE SHALL BE FIELD SAMPLED AND TESTED AS SPECIFIED BY ACI. ALL POST POUR CONCRETE SLAB COATINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.

REINFORCING STEEL:

GRADE 60. DETAILING SHALL CONFORM TO CRSI STANDARDS LATEST EDITION.

STEEL:

STRUCTURAL STEEL FOR W SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL STEEL FOR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE B. ALL OTHER STEEL SHALL CONFORM TO ASTM A36. ALL STEEL SHALL CONFORM TO AISC STANDARD PRACTICE LATEST EDITION. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL COATINGS FOR PERMANENTLY EXPOSED STEEL SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL REBAR SHALL BE COATED.

LIGHT GAUGE METAL TRUSSES :

SUBMIT SHOP DRAWINGS PREPARED BY A VIRGINIA PROFESSIONAL ENGINEER INDICATING ALL ELEMENTS, LOADS, AND CONNECTIONS TO THE PRIMARY STRUCTURE.

INSPECTIONS:

INSPECTIONS OF ALL STRUCTURAL ITEMS SHALL BE PERFORMED BY A CERTIFIED TESTING AGENCY UNDER THE SUPERVISION OF A VIRGINIA PROFESSIONAL ENGINEER. ALL REPORTS SHALL BE SUBMITTED TO THE ENGINEER AND ANY DEFECTIVE WORK SHALL BE CORRECTED.

SEISMIC:

SEISMIC DESIGN CATEGORY- A

Ss = 0.16

S1 = 0.053

SITE COEFFICIENT, Fa = 1.2

SITE COEFFICIENT, Fv = 1.7

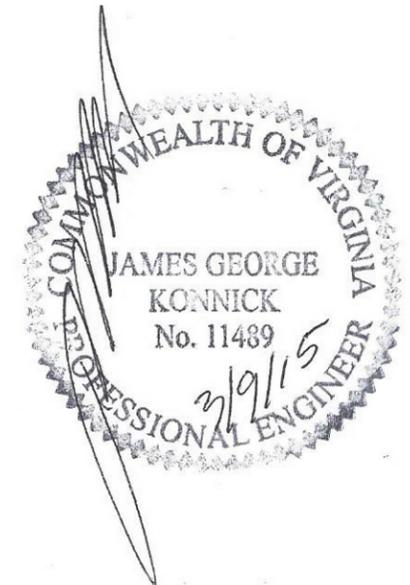
ANALYSIS PROCEDURE USED- EQUIVALENT LATERAL FORCE

BASIC SEISMIC FORCE RESISTING SYSTEM- CONCENTRICALLY BRACED FRAMES

R= 5.

Cd= 4 ½

DESIGN BASE SHEER- 20480 LBS

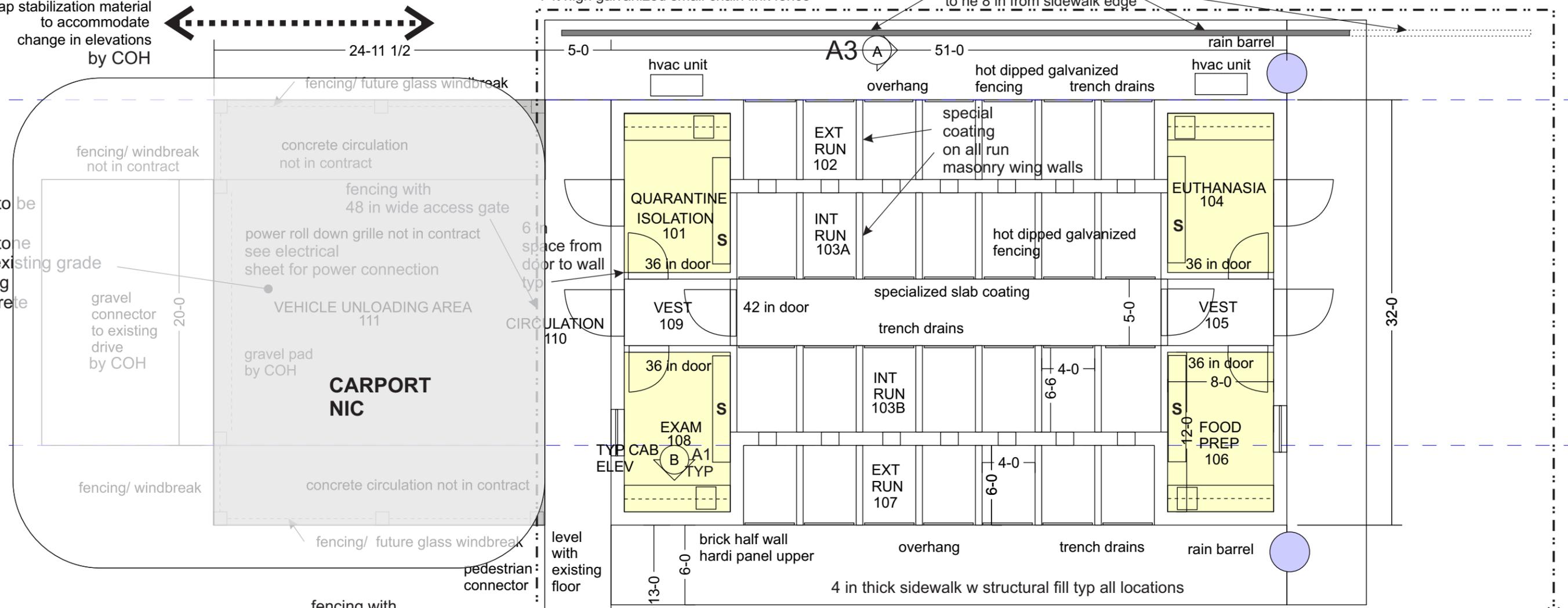


rip rap stabilization material to accommodate change in elevations by COH

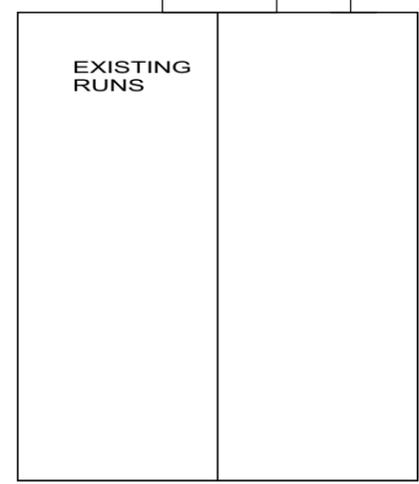
7 ft high galvanized small chain link fence

continuous trough draining to ne 8 in from sidewalk edge

carport area to be filled with compacted stone and filled to existing grade of surrounding dirt and concrete

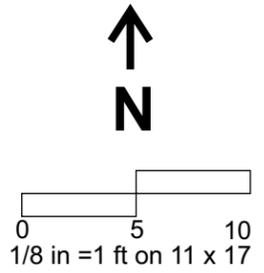


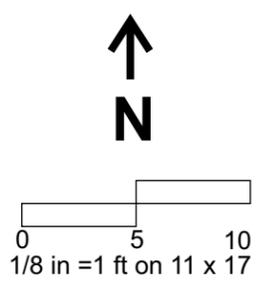
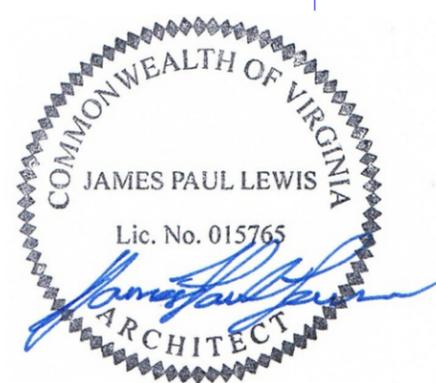
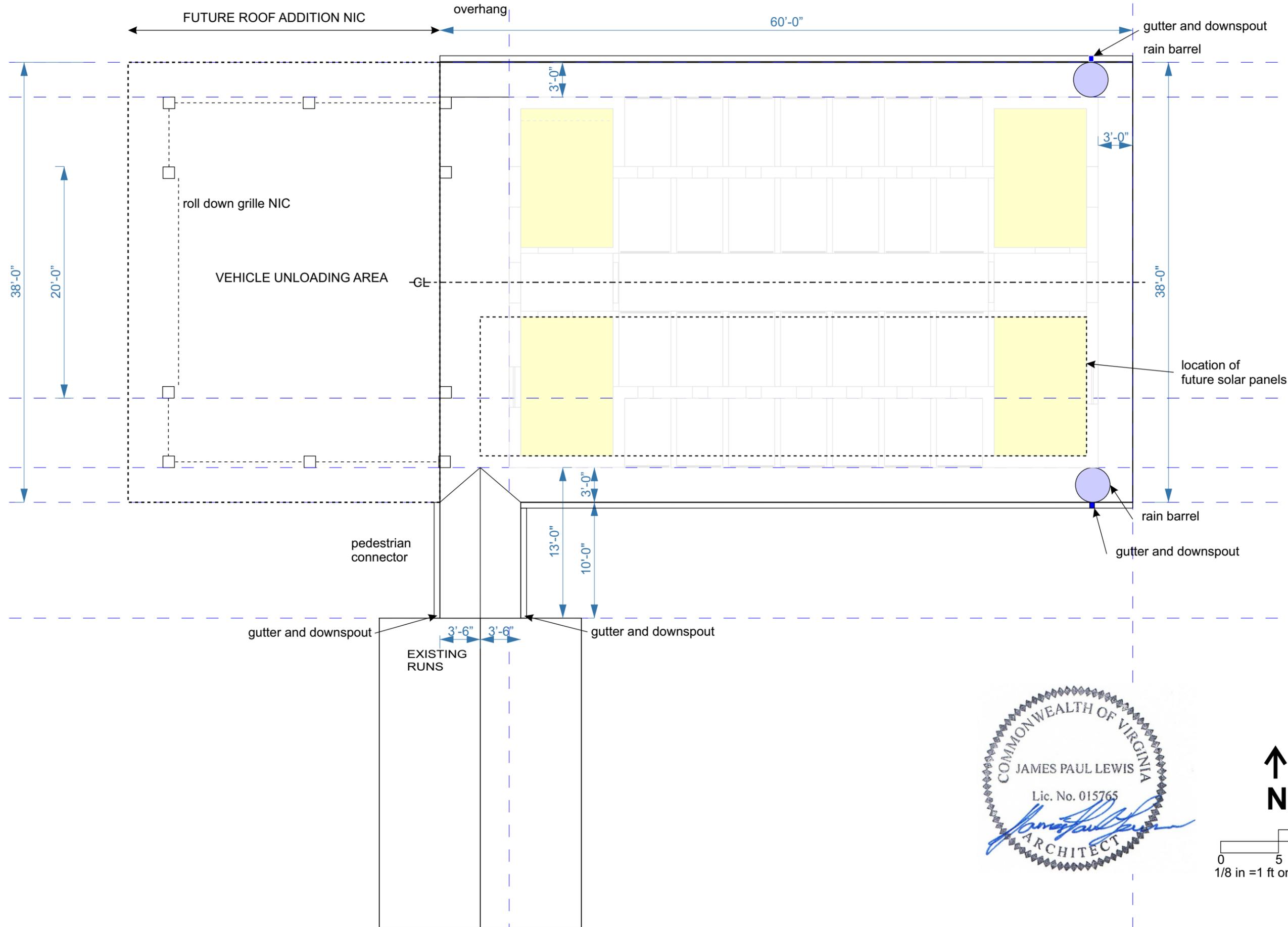
A3 BUILDING SECTION

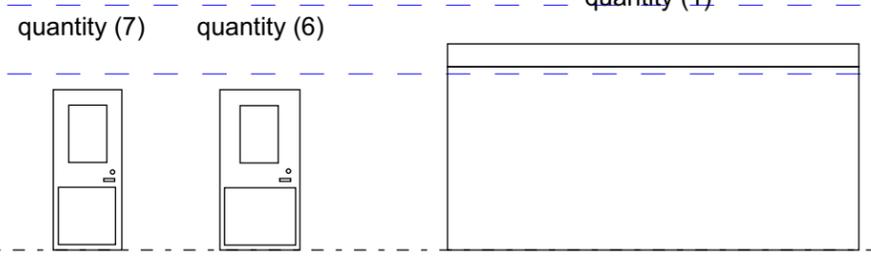
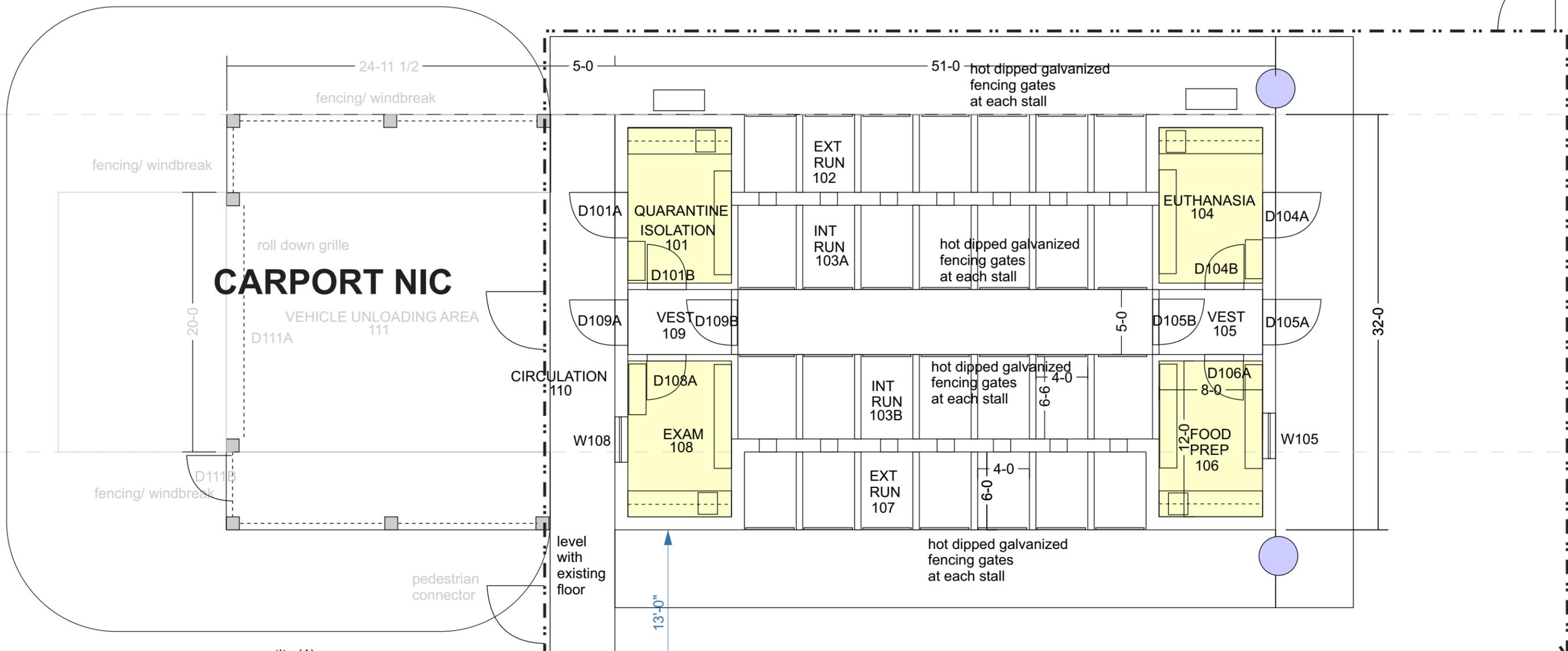


- high abuse plastic laminate finish
 - 34 in upper cabinet
 - stainless steel wire pull handles
 - 28 in work space hgt
 - 34 in composite hgt base cabinet w/ stainless steel counter top/ backsplash to bottom of upper cab/ sink
 - floor coating turns up 4 in baseboard
- B A1 typ cabinet elevation
- S= movable ss shelves NIC

NIC= NOT IN CONTRACT



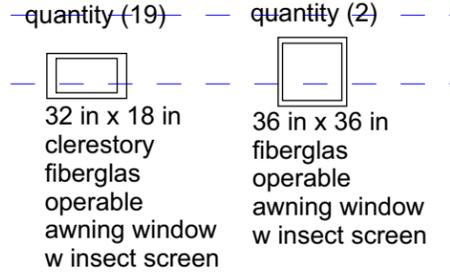
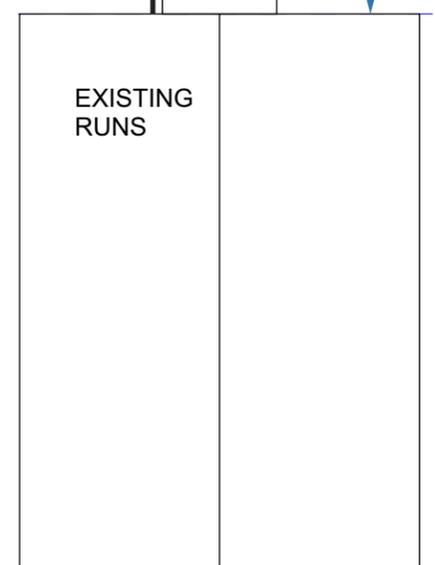




quantity (7) 36 in x 84 in fiberglass frp faced w 20 x 30 glass lite stainless steel lever w cylindrical lock continuous hinge stainless kickplate

quantity (6) 42 in x 84 in fiberglass frp faced w 20 x 30 glass lite stainless steel lever w cylindrical lock continuous hinge stainless kickplate

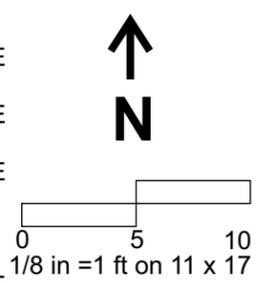
quantity (1) 216 in x 96 in rollup perforated grille aluminum anodized finish



quantity (19) 32 in x 18 in clerestory fiberglass operable awning window w insect screen

quantity (2) 36 in x 36 in fiberglass operable awning window w insect screen

D101A SS LEVER OFFICE LOCKSET CONTINUOUS HINGE OVERHEAD ALUM CLOSER SS KICKPLATE
 D101B SS LEVER OFFICE LOCKSET CONTINUOUS HINGE NO CLOSER SS KICKPLATE
 D104A SS LEVER OFFICE LOCKSET CONTINUOUS HINGE OVERHEAD ALUM CLOSER SS KICKPLATE
 D104B SS LEVER OFFICE LOCKSET CONTINUOUS HINGE NO CLOSER SS KICKPLATE
 D105A SS LEVER OFFICE LOCKSET CONTINUOUS HINGE OVERHEAD ALUM CLOSER SS KICKPLATE
 D105B SS LEVER OFFICE LOCKSET CONTINUOUS HINGE POWER CLOSER SS KICKPLATE
 D106A SS LEVER OFFICE LOCKSET CONTINUOUS HINGE NO CLOSER SS KICKPLATE
 D108A SS LEVER OFFICE LOCKSET CONTINUOUS HINGE NO CLOSER SS KICKPLATE
 D109A SS LEVER OFFICE LOCKSET CONTINUOUS HINGE OVERHEAD ALUM CLOSER SS KICKPLATE
 D109B SS LEVER OFFICE LOCKSET CONTINUOUS HINGE POWER CLOSER SS KICKPLATE



ARCHITECTURAL NOTES:

Architectural Concrete finished floor slab
install as per American Concrete Institute Technical Notes
smooth finish and proper curing to accept specialized epoxy coating system

PaliKrom 185 Palmalite Colored Quartz specialized epoxy flooring / coating system / coating / fillers
continuous on slab and up partition to hgt of first concrete masonry unit-typ all locations- animal runs/
pedestrian areas interior and exterior
standard colors
slip resistant surface
edge seal at all change in materials and floor trench drains
Manufacturer approved installer required- install as per manufacturer specification
final surface finish shall have sufficient texture reduce the risk of slipping, while maintaining a smooth
finish to allow water removal by squeegee
5 year extended warranty coverage from manufacturer

animal runs/ security fence hot dip galvanized chain link fencing system and sluice gate animal run
exterior doors and hardware- typ all locations

Face Brick to match existing facility
install as per Brick Industry Association Technical Notes

Sealants
match adjacent materials/ mortars

Hardiplank / HardiPanel/ HardiSoffit or equal
preainted exterior lap siding/sheeting
typ all walls and soffits-
mount per manufacturer detail

Azek or equal
trim boards and batten strips- mount per manufacturer detail

Behr or equal
epoxy coating on all exposed cmu units

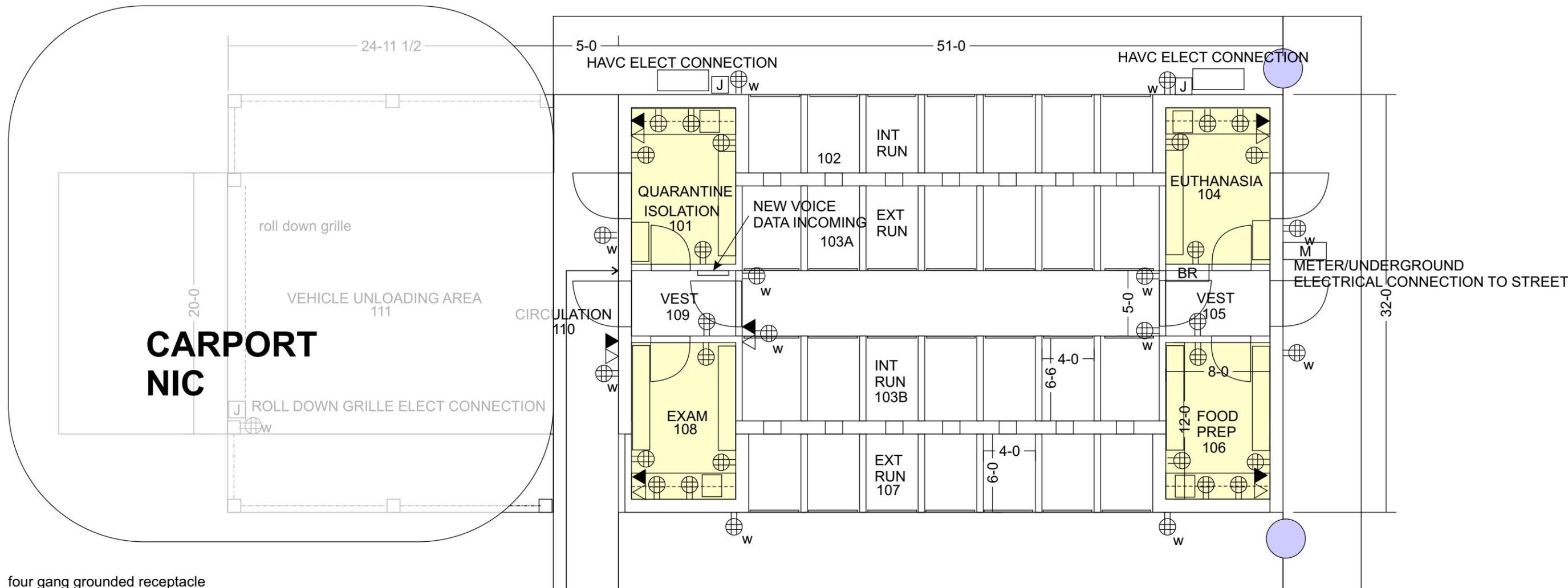
Behr or equal
epoxy coating on all non aluminum frames and exposed steel structure

Marlite or equal
standard textured FRP wall panels/ trims/ mounting hardware- standard colors
all vertical partitions and horizontal ceiling surfaces
seal joints and edges adjacent other materials
mount per manufacturer detail

Anderson or equal
100 series composite awning windows standard colors with full screen and crank handle
motorized units at clerestory or equal- wall mount controller- coordinate with electrical -

Steel Studs/ connectors
install as per Steel Stud Manufacturers Association Technical Notes

Trenches / Trench Covers / Drain Connections
coordinate all new assemblies to be compatible with existing Trench Drain Systems in existing building



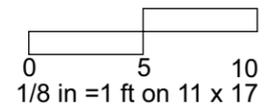
-  four gang grounded receptacle
-  GFCI duplex receptacle
-  weather resistant duplex receptacle
-  voice/ intercom system
-  data
-  junction box
-  breaker box (2) 200 amp service
-  service entry electric meter

EXISTING RUNS

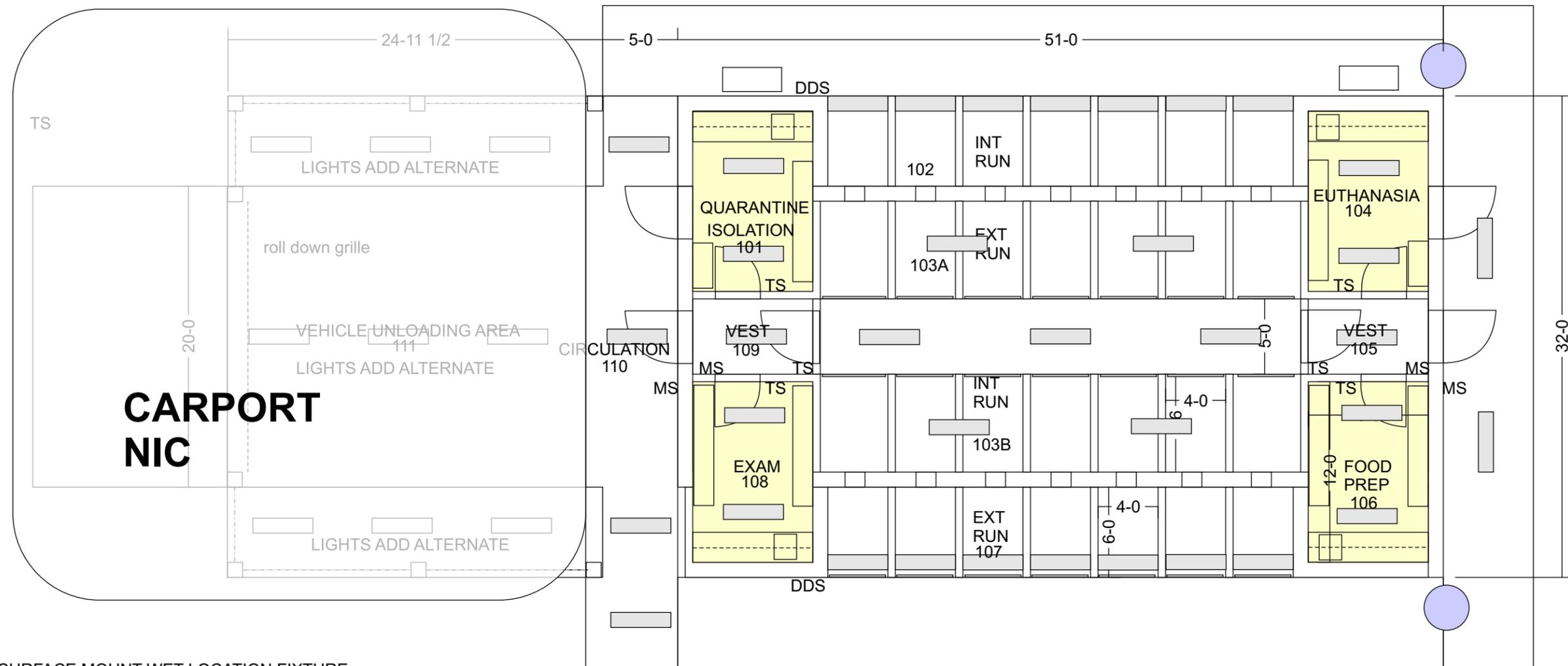
NOTE:
NEW VOICE/ INTERCOM SYSTEM LOCATED IN ADDITION
COORDINATE ALL NEW VOICE AND DATE CABLING
WITH EXISTING VOICE AND DATA SYSTEM IN EXISTING
FACILITY

NEW VOICE DATA
SYSTEM
CONNECT BACK
TO EXISTING
STRUCTURE

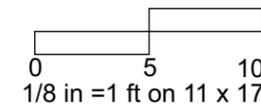
VOCE DATA
CONNECTION FROM POLE

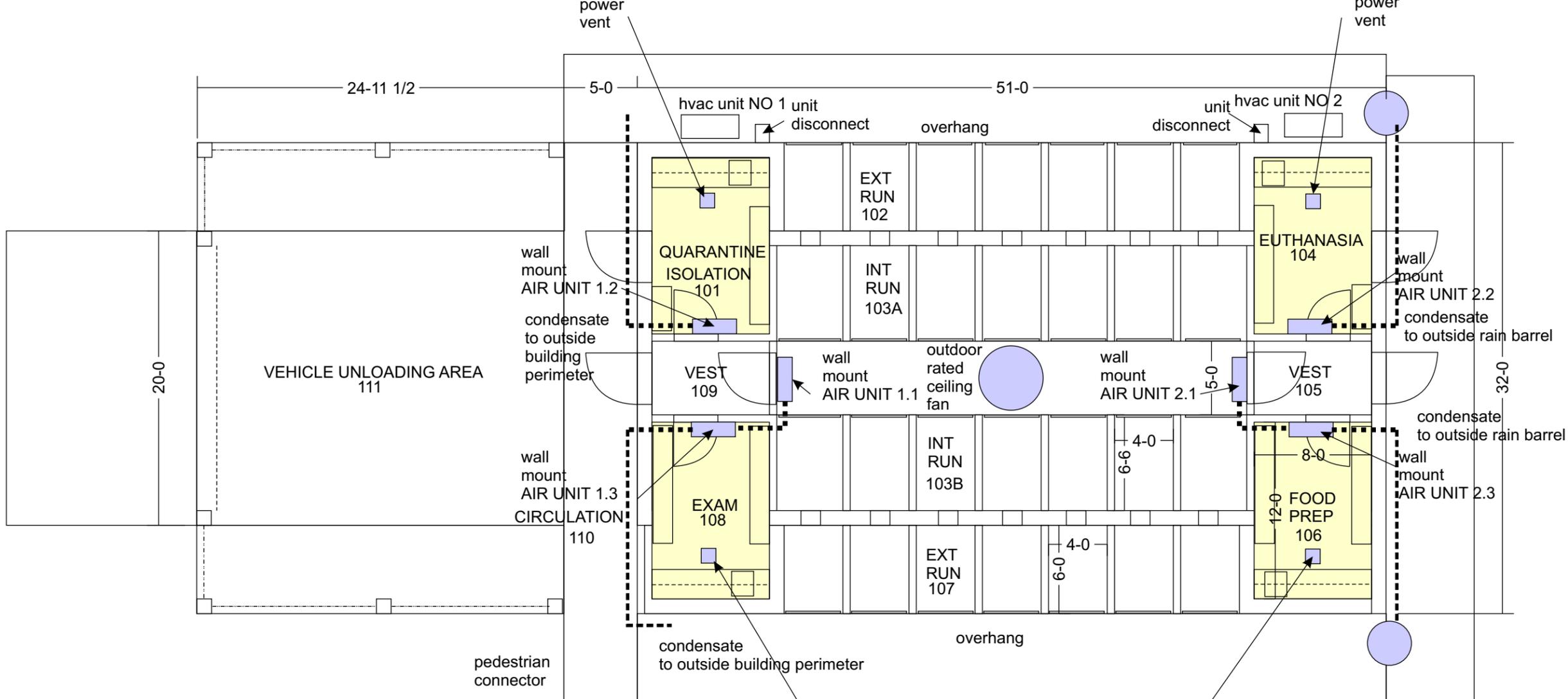


E-1

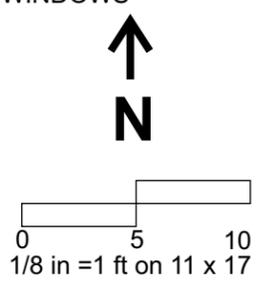


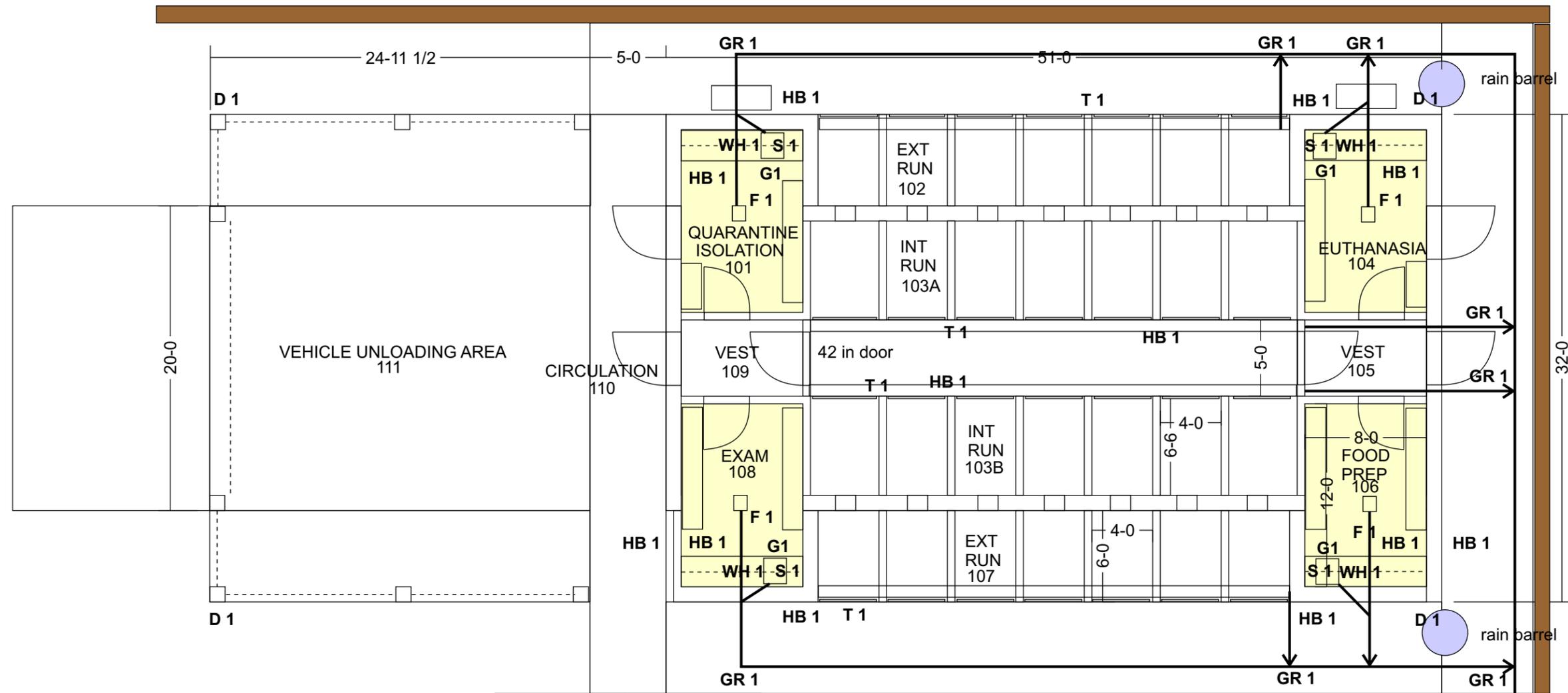
-  1 x 4 LED SURFACE MOUNT WET LOCATION FIXTURE
- TS TIMER LIGHT SWITCH W SS COVER PLATE
- MS MOTION SENSOR SWITCH W SS COVER PLATE
- DDS DUSK TO DAWN SWITCH W SS EXTERIOR COVERPLATE





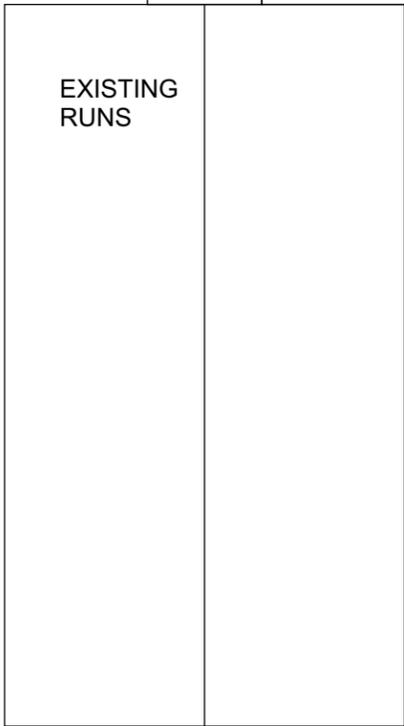
EXISTING RUNS		12x12 recessed ceiling mount power vent	12x12 recessed ceiling mount power vent
WALL MOUNT CONTROLS/ SET BACK THERMOSTAT FOR EACH HEATING COOLING AIR UNIT WALL MOUNT TIMER SWITCH FOR POWER VENT AT DOOR FRAME WALL MOUNT SWITCH AND AUTO OPEN THERMOSTAT FOR POWER CLERESTORY VENTILATION WINDOWS WALL MOUNT VARIABLE SPEED CONTROL FOR CEILING MOUNT FANS			





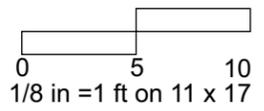
- T1 POLYMER TRENCH DRAIN
- F1 POLYMER FLOOR DRAIN
- D1 DOWNSPOUT
- S1 DEEP SS SINK W HAIR TRAP DRAIN
- G1 GOOSENECK FAUCET WITH PADDLE HANDLES/ LEVER CUTOFFS IN CABINET
- GR1 GREASETRAP CLEAN OUT W ACCESS DOOR
- WH1 CABINET MOUNT INSTANTANEOUS POINT OF USE WATER HEATER
- HB1 FREEZE RESISTANT HOSE BIBB WITH LEVER CONTROL

NOTE
 Trenches / Trench Covers / Drain Connections
 coordinate all new assemblies to be compatible with
 existing Trench Drain Systems in existing building
 ALL COMPONENTS TO BE COMPOSITE MATERIAL/ NON RUSTING
 ABLE TO WITHSTAND CAUSTIC NATURAL AND CHEMICAL WASTE



↑
 WATER SUPPLY
 FROM STREET

↓
 WASTE LINE
 TO STREET



P-1



Report of Geotechnical Study

Proposed Additions to Hopewell Animal Shelter

Hopewell, Virginia

F&R Project No. 60S-0450

Prepared For:

City of Hopewell

300 N. Main Street

Hopewell, Virginia 23860

Prepared By:

Froehling & Robertson, Inc.

3015 Dumbarton Road

Richmond, Virginia 23228

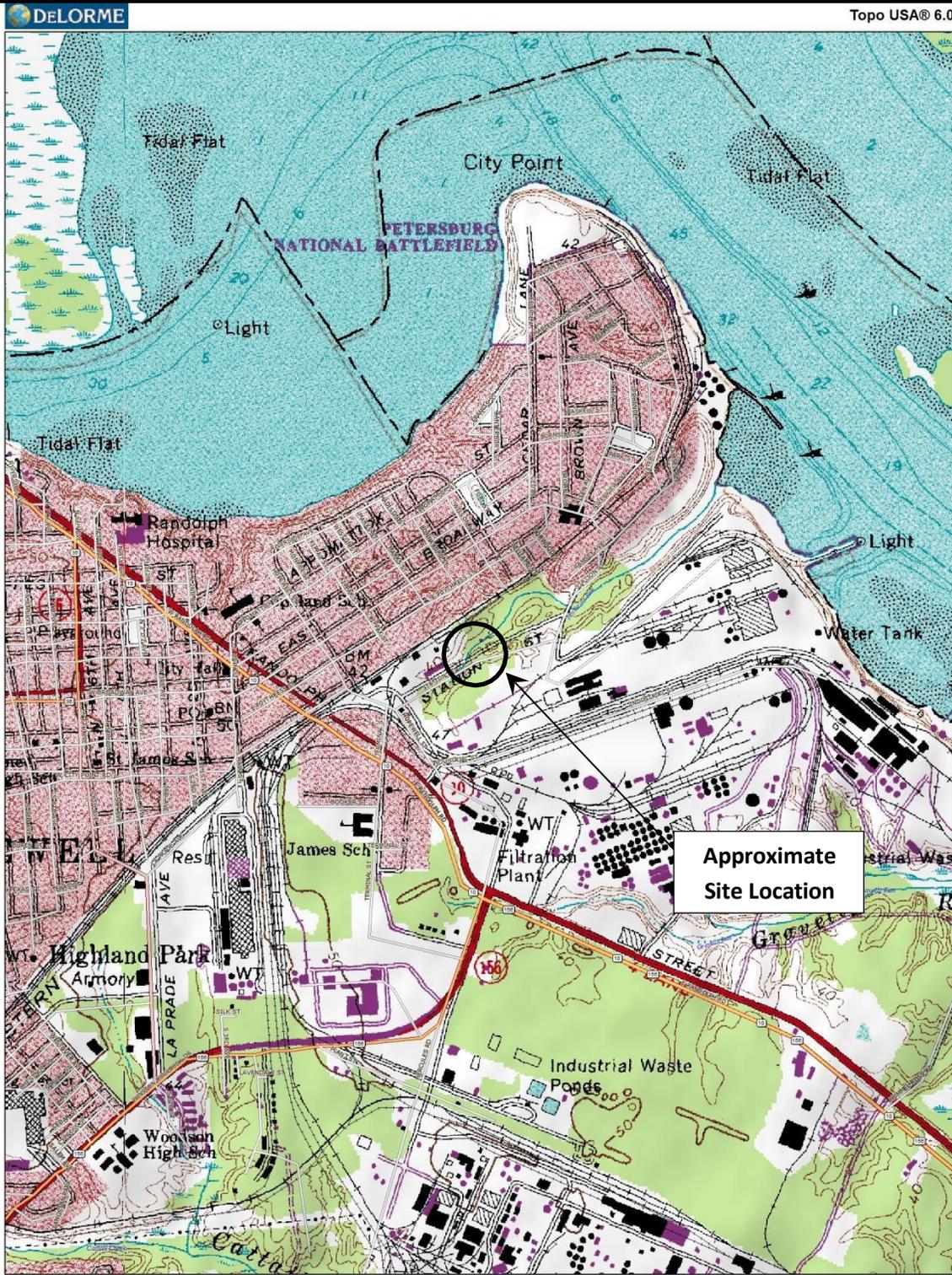
December 2014

APPENDIX I

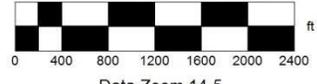


Project No: 60S-0450
Client: City of Hopewell
Project: Animal Shelter Building Additions
City/State: Hopewell, Virginia

Source: DeLORME
Scale: As Shown
Date: December 2014



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www.delorme.com



Data Zoom 14-5



Project No: 60S-0450
Client: City of Hopewell
Project: Animal Shelter Building Additions
City/State: Hopewell, Virginia

Source: GoogleEarth
Scale: Not to Scale
Date: December 2014



 - Approximate Boring Location



CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES
 ASTM Designation: D 2487
 (Based on the Unified Soil Classification System)

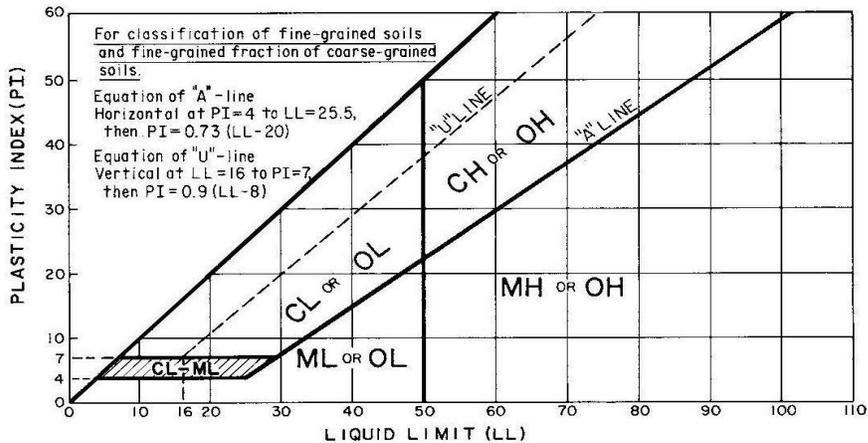
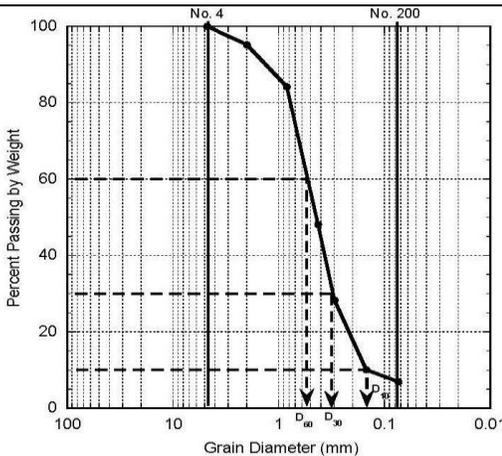
FROEHLING & ROBERTSON, INC.
 Engineering Stability Since 1881

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests ^A				Soil	Group Name ^B
				Group Symbol	
COARSE-GRAINED SOILS More than 50% retained on the No. 200 sieve	Gravels (More than 50% of coarse fraction retained on No. 4 sieve)	Clean gravels (Less than 5% fines ^C)	$Cu \geq 4$ and $1 \leq Cc \leq 3^D$	GW	Well-graded gravel ^E
			$Cu < 4$ and/or $[Cc < 1 \text{ or } Cc > 3]^D$	GP	Poorly graded gravel ^E
		Gravels with fines (More than 12% fines ^C)	Fines classify as ML or MH	GM	Silty gravel ^{E,F,G}
			Fines classify as CL or CH	GC	Clayey gravel ^{E,F,G}
	Sands (50% or more of coarse fraction passes No. 4 sieve)	Clean Sands (Less than 5% fines ^H)	$Cu \geq 6$ and $1 \leq Cc \leq 3^D$	SW	Well-graded sand ^I
			$Cu < 6$ and/or $[Cc < 1 \text{ or } Cc > 3]^D$	SP	Poorly graded sand ^I
	Sands with fines (More than 12% fines ^H)	Fines classify as ML or MH	SM	Silty sand ^{F,G,I}	
		Fines classify as CL or CH	SC	Clayey sand ^{F,G,I}	
FINE-GRAINED SOILS 50% or more passes the No. 200 sieve	Silts and Clays Liquid limit less than 50	Inorganic	$PI > 7$ and plots on or above "A" line ^J	CL	Lean clay ^{K,L,M}
			$PI < 4$ or plots below "A" line ^J	ML	Silt ^{K,L,M}
		Organic	Liquid limit – oven dried < 0.75 OL		Organic clay ^{K,L,M,N}
			Liquid limit – not dried		Organic silt ^{K,L,M,O}
	Silts and Clays Liquid limit 50 or more	Inorganic	PI plots on or above "A" line	CH	Fat clay ^{K,L,M}
			PI plots below "A" line	MH	Elastic silt ^{K,L,M}
		Organic	Liquid limit – oven dried < 0.75 OH		Organic clay ^{K,L,M,P}
			Liquid limit – not dried		Organic silt ^{K,L,M,Q}
HIGHLY ORGANIC SOILS	Primarily organic matter, dark in color, and organic in odor			PT	Peat

^A Based on the material passing the 3-in. (75-
^B If field sample contained cobbles or boulder add "with cobbles or boulders, or both" to group name.
^C Gravels with 5 to 12 % fines require dual symbols:
 GW-GM well-graded gravel with silt
 GW-GC well-graded gravel with clay
 GP-GM poorly graded gravel with silt
 GP-GC poorly graded gravel with clay
^D $Cu = \frac{D_{60}}{D_{10}}$ $Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
^E If soil contains $\geq 15\%$ sand, add "with sand" to group name.
^F If fines classify as CL-ML, use dual symbol G or SC-SM.

^G If fines are organic, add "with organic fines" to group name.
^H Sands with 5 to 12 % fines require dual symbols:
 SW-SM well-graded sand with silt
 SW-SC well-graded sand with clay
 SP-SM poorly graded sand with silt
 SP-SC poorly graded sand with clay
^I If soil contains $\geq 15\%$ gravel, add "with gravel" to group name.
^J If Atterberg limits plot in hatched area, soil is a CL-ML, silty clay.

^K If soil contains 15 to < 30 % plus No. 200, add "with sand" or "with gravel", whichever is predominant.
^L If soil contains $\geq 30\%$ plus No. 200, predominantly sand, add "sandy" to group name.
^M If soil contains $\geq 30\%$ plus No. 200, predominantly gravel add "gravelly" to group name.
^N $PI \geq 4$ and plots on or above "A" line.
^O $PI < 4$ or plots below "A" line.
^P PI plots on or above "A" line.
^Q PI plots below "A" line.





KEY TO BORING LOG SOIL CLASSIFICATION

Particle Size and Proportion

Visual descriptions are assigned to each soil sample or stratum based on estimates of the particle size of each component of the soil and the percentage of each component of the soil.

Particle Size		Proportion		
Descriptive Terms		Descriptive Terms		
Soil Component	Particle Size	Component	Term	Percentage
Boulder	> 12 inch	Major	Uppercase Letters (e.g., SAND, CLAY)	> 50%
Cobble	3 - 12 inch	Secondary	Adjective (e.g., sandy, clayey)	20% - 50%
Gravel-Coarse	3/4 - 3 inch			
-Fine	#4 - 3/4 inch			
Sand-Coarse	#10 - #4	Minor	Some Little Trace	15% - 25% 5% - 15% 0% - 5%
-Medium	#40 - #10			
-Fine	#200 - #40			
Silt (non-cohesive)	< #200			
Clay (cohesive)	< #200			

Notes:

- Particle size is designated by U.S. Standard Sieve Sizes
- Because of the small size of the split-spoon sampler relative to the size of gravel, the true percentage of gravel may not be accurately estimated.

Density or Consistency

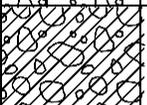
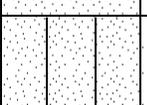
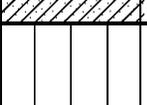
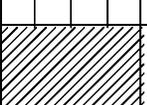
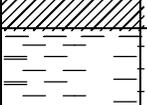
The standard penetration resistance values (N-values) are used to describe the density of coarse-grained soils (GRAVEL, SAND) or the consistency of fine-grained soils (SILT, CLAY). Sandy silts of very low plasticity may be assigned a density instead of a consistency.

DENSITY		CONSISTENCY	
Term	N-Value	Term	N-Value
Very Loose	0 - 4	Very Soft	0 - 1
Loose	5 - 10	Soft	2 - 4
Medium Dense	11 - 30	Firm	5 - 8
Dense	31 - 50	Stiff	9 - 15
Very Dense	> 50	Very Stiff	16 - 30
		Hard	> 30

Notes:

- The N-value is the number of blows of a 140 lb. Hammer freely falling 30 inches required to drive a standard split-spoon sampler (2.0 in. O.D., 1-3/8 in. I.D.) 12 inches into the soil after properly seating the sampler 6 inches.
- When encountered, gravel may increase the N-value of the standard penetration test and may not accurately represent the in-situ density or consistency of the soil sampled.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
<p>COARSE GRAINED SOILS</p> <p>MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE</p>	<p>GRAVEL AND GRAVELLY SOILS</p> <p>MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE</p>	<p>CLEAN GRAVELS</p> <p>(LITTLE OR NO FINES)</p>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		<p>GRAVELS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		<p>CLEAN SANDS</p> <p>(LITTLE OR NO FINES)</p>		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	<p>FINE GRAINED SOILS</p> <p>MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE</p>	<p>SILTS AND CLAYS</p> <p>LIQUID LIMIT LESS THAN 50</p>		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
		<p>SILTS AND CLAYS</p> <p>LIQUID LIMIT GREATER THAN 50</p>		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
<p>EXISTING FILL</p>				FILL	EXISTING FILL MATERIALS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS



Project No: 60S-0450

Elevation:

Drilling Method: HSA 3-1/4" ID

Client: City of Hopewell

Total Depth: 2.5'

Hammer Type: Automatic

Project: Hopewell Animal Shelter Building Additions

Date Drilled: 11/18/14

City/State: Hopewell, Virginia

Boring Location: See Boring Location Plan

Driller: Sequist

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	N-Value (blows/ft)	Remarks
	0.5	Surficial Soil	2-3-2 -3	0.0	5	Upon initial auger refusal the boring was offset 10 feet west, with auger refusal encountered on concrete at 2.5 feet
		FILL: Loose, Dark Brown, Clayey Fine to Medium SAND, trace Gravel, little Organics - Moist (SC-FILL)		2.0		Subsurface water not encountered during drilling operations
	2.5	Auger refusal at 2.5 feet on concrete. Boring backfilled upon completion.				Cave in depth was at 1.5 feet

BORING LOG (LONG NAME) 60S-0450.GPJ F&R.GDT 12/15/14

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments.

The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



Project No: 60S-0450

Elevation:

Drilling Method: HSA 3-1/4" ID

Client: City of Hopewell

Total Depth: 4.0'

Hammer Type: Automatic

Project: Hopewell Animal Shelter Building Additions

Date Drilled: 11/18/14

City/State: Hopewell, Virginia

Boring Location: See Boring Location Plan

Driller: Sequist

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	N-Value (blows/ft)	Remarks
	0.5	Surficial Soil	2-3-4 -5	0.0	7	Subsurface water not encountered during drilling operations
		FILL: Firm, Brown, Sandy Lean to Fat CLAY, trace Gravel - Moist (CL/CH-FILL)				
	2.0	Very Dense, Dark Brown, Clayey Fine SAND, trace Silt, trace Gravel - Moist (SC-FILL)	6-10-50/3	2.0	100+	
	4.0	Auger refusal at 4 feet on concrete. Boring backfilled upon completion.		4.0		Cave in depth was at 2.8 feet

BORING LOG (LONG NAME) 60S-0450.GPJ F&R.GDT 12/15/14

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



Project No: 60S-0450

Elevation:

Drilling Method: HSA 3-1/4" ID

Client: City of Hopewell

Total Depth: 6.0'

Hammer Type: Automatic

Project: Hopewell Animal Shelter Building Additions

Date Drilled: 11/18/14

City/State: Hopewell, Virginia

Boring Location: See Boring Location Plan

Driller: Sequist

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	N-Value (blows/ft)	Remarks
	0.5	Surficial Soil	2-2-3 -3	0.0	5	Upon initial auger refusal, the boring was offset 5 feet north, with auger refusal encountered on concrete at 4 feet
		FILL: Loose, Brown, Clayey Fine to Coarse SAND, trace Gravel - Moist (SC-FILL)				
	2.0	Medium Dense to Very Dense, Silty Fine to Medium SAND, little Gravel - Moist (SM-FILL)	8-8-6 -12	2.0	14	Subsurface water not encountered during drilling operations
			2-23-50/1	4.0	100+	Cave in depth was at 4.5 feet
	6.0	Auger refusal at 6 feet on concrete. Boring backfilled upon completion.		6.0		

BORING_LOG (LONG NAME)_60S-0450.GPJ F&R.GDT 12/15/14

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



Project No: 60S-0450

Elevation:

Drilling Method: HSA 3-1/4" ID

Client: City of Hopewell

Total Depth: 6.0'

Hammer Type: Automatic

Project: Hopewell Animal Shelter Building Additions

Date Drilled: 11/18/14

City/State: Hopewell, Virginia

Boring Location: See Boring Location Plan

Driller: Sequist

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	N-Value (blows/ft)	Remarks	
	0.6	Surficial Soil	2-3-2 -5	0.0	5	Subsurface water not encountered during drilling operations	
		FILL: Loose, Dark Brown, Clayey Fine to Medium SAND, little Organics - Moist (SC-FILL)					
	2.0	Firm, Brown, Sandy Lean to Fat CLAY, trace Gravel - Moist (CL/CH-FILL)	3-3-5 -6	2.0	8		
	4.0	Very Dense, Green, Silty Fine SAND, trace Concrete - Moist (SM-FILL)	5-12-50/5	4.0	100+	Cave in depth was at 4.3 feet	
	6.0	Auger refusal at 6 feet. Boring backfilled upon completion.					

BORING_LOG (LONG NAME) 60S-0450.GPJ F&R.GDT 12/15/14

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments.

The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



Project No: 60S-0450

Elevation:

Drilling Method: HSA 3-1/4" ID

Client: City of Hopewell

Total Depth: 6.0'

Hammer Type: Automatic

Project: Hopewell Animal Shelter Building Additions

Date Drilled: 11/18/14

City/State: Hopewell, Virginia

Boring Location: See Boring Location Plan

Driller: Sequist

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	N-Value (blows/ft)	Remarks	
	0.5	Surficial Soil	5-5-4 -4	0.0	9	Upon initial auger refusal, the boring was offset 4 feet west, with auger refusal encountered on concrete at 3.5 feet	
		FILL: Loose, Dark Brown and Brown, Clayey Fine SAND, trace Silt, little Organics - Moist (SC-FILL)					
			2-2-3 -25	2.0	5	Subsurface water not encountered during drilling operations	
	4.0	Very Dense, Brown and Gray, Silty Fine SAND, some Concrete Fragments - Moist (SM-FILL)	50/3	4.0	100+	Cave in depth was at 3.8 feet	
	6.0	Auger refusal at 6 feet on concrete. Boring backfilled upon completion.					

BORING LOG (LONG NAME) 60S-0450.GPJ F&R.GDT 12/15/14

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.