ADDENDUM NO. 01R

STAUNTON J&DR COURTS FACILITY

CITY OF STAUNTON, VIRGINIA

STAUNTON CITY BID REQUEST NO.: C00124

ARCHITECT'S PROJECT NO.: 630874

MOSELEYARCHITECTS

ARCHITECT/ENGINEER — RICHMOND, VIRGINIA

TIMMONS GROUP

CIVIL CONSULTANT — RICHMOND, VIRGINIA

SHEN MILSOM AND WILKE

AUDIO VISUAL CONSULTANT — ARLINGTON, VIRGINIA

March 14, 2024

STAUNTON J&DR COURTS FACILITY
STAUNTON, VIRGINIA

GENERAL:

Planholders are requested to insert this Addendum in the front of their Project Manual. Inform all concerned that the Bidding Documents are modified by this Addendum.

The following modifications and clarifications are hereby made a part of the Bidding Documents and supersede or otherwise modify the provisions of the published *Project Manual* and *Drawings*, dated March 1, 2024.

Refer to the Drawings, Specification Sections, or other Documents, if any, attached to this Addendum, which are hereby made a part of this Addendum.

QUESTION RESPONSES:

1. Section 000101 Supplementary Instructions to Bidders, Article 2, appears to indicate this is a Davis-Bacon Act project. However, the Section it references us to 000515, Page 8, Item 4, does not appear to have a Page 8 or Item 4. Please advise of the intent and if Wage Rates are required, please provide the project specific wage rates. (subcontractors have inquired about this and are awaiting a response before deciding whether or not to bid.).
   RESPONSE: Davis Bacon Wage scale is not longer a part of this project.
2. Is there a geotechnical report for this project you could share with us?
   RESPONSE: Refer to Appendix B
3. On plan C4.0 at the public access parking lot there is an area shown with dots. What is the area supposed to be?
   RESPONSE: Refer to C5.0 for grading inset of that area. Existing asphalt to remain. Parking and crosswalk to be restriped as shown. The dotted hatching represents the Proposed Temporary Construction Easement; the striped hatching adjacent to the dotted hatching (that extends past the striped crosswalk) represents the Proposed Permanent Public Access Easement.
4. The note on the main parking area mentions mill and overlay but it is not indicated that way per the legend. Is this area to be milled and overlayed or is that only required if there is damage?
   RESPONSE: Only required if there is damage.
5. Bid Date – the current bid due date of March 29, 2024 is Good Friday and this may result in less subcontractor coverage/bids as many employees may be out of the office that day/afternoon. Do you anticipate the bid date changing?
   RESPONSE: The bid date remains unchanged.
6. Award – do you have an anticipated date for Notice to Proceed?
   RESPONSE: Notice to Proceed shall be issued upon award of contract.
7. Site Visit – will there be a site visit and interior building walk thru of the building to be demolished, immediately following the prebid Friday, 3/15?
   RESPONSE: Yes
8. Existing Building – please provide existing building as built drawings and/or a thorough description of the existing structure so the demolition contractors are aware of the makeup of the building to be demolished.
   RESPONSE: Site visit to follow prebid meeting. Additional site visits can be scheduled with Owner's Representative John Keene.

MODIFICATIONS TO THE PROJECT MANUAL AND DRAWINGS:

DELETE the previously issued Documents indicated below in their entirety and SUBSTITUTE the revised Documents in their entirety, noted as Addendum 01R, dated March 14, 2024.

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SECTION 000101 SUPPLEMENTARY INSTRUCTIONS TO BIDDERS **(*AD-01R)**

Section 000101, Supplementary Instructions to Bidders, contains modifications to the basic document, **AIA Document A701, Instructions to Bidders, 2018 Edition**, in the form of additions, deletions and substitutions. Where any part of the basic document is so modified by these Supplementary Instructions, the unaltered provisions shall remain in effect. These Supplementary Instructions constitute part of the Bidding Requirements.

AIA Document A701, as modified herein, constitutes an invitation to bid on the Project pursuant to the provisions of Section 2.2-4302.1 of the Code of Virginia, and the other provisions of the Virginia Public Procurement Act (Virginia Code 2.2-4300 *et seq.*) (the "VPPA"). This solicitation is subject to all applicable terms of the VPPA. By submitting a bid in response to this solicitation, Bidders agree to all the provisions of these Bidding Documents.

The Owner does not discriminate against faith-based organizations in accordance with the Code of Virginia, section 2.2-4343.1 or against an Offeror because of race, religion, color, sex, national origin, age, disability, sexual orientation, gender, gender identity, political affiliation, veteran status, marital status, pregnancy, childbirth or related medical conditions, or any other basis prohibited by state law relating to discrimination in employment.

ARTICLE 1 - DEFINITIONS

DELETE the last sentence of Paragraph 1.1 and SUBSTITUTE the following:

[Substitute]: The Proposed Contract Documents are the documents described as "Contract Documents" in Subparagraph 1.1.1 of Section 000750.

DELETE Paragraph 1.2 in its entirety and, in lieu thereof, SUBSTITUTE the following new Paragraph:

1.2 Except as provided for herein, all definitions set forth in the Conditions of the Contract (General, Supplementary and other conditions) or in other Contract documents are applicable to the bidding documents.

ADD the following new Subparagraph as follows:

1.2.1 The following words are intended to mean:

- Furnish (Materials): To supply and deliver to the project ready for installation and in operable condition.
- Install (Services or Labor): To place in final position, complete, anchored, connected and in operable condition.
- Provide: To furnish and install complete. When neither furnish, install nor provide is stated, provide is implied.

ADD the following to the end of Paragraph 1.4

[*Add:*] "and applicable law."

ADD the following to the end of Paragraph 1.8

[*Add:*] "and applicable law."

ARTICLE 2 – BIDDER'S REPRESENTATIONS

ADD new Paragraph 2.2 as follows:

2.2 The Bidder is required to examine carefully in detail the character of the site of the Project, the Contract Documents and all other matters pertinent to the work contemplated. By submitting a bid, the Bidder expressly represents that it has satisfied itself as to the conditions to be encountered, including conditions that are overhead, on the surface and concealed, the character, quality and quantities of work to be done and materials to be furnished, and the requirements of the Contract and Specifications. No allowance or concession will be made for the lack of such information. Where underground and overhead structure locations are shown, they are for the information of the Architect only; their correctness is not guaranteed or warranted by the Owner or the Architect, and in no event is this information to be considered a part of the Contract Documents, or to be relied upon in preparing the Bid. If this information is used by the Bidder in preparing its Bid, the Bidder must assume all risks resulting from conditions differing from those shown in the information provided. Test Boring Information concerning subsurface materials or conditions which are based upon test pits or test borings has been obtained by the Owner for the Architect's use in designing the Project. This information is available to the Bidder for information only. References to this information may be found in the Table of Contents. The technical data found in the test boring information is represented to be accurate by the Owner, but the conclusions and inferences that may be found in or inferred from the information is not warranted, and the accuracy or completeness of any such conclusions and inferences is not guaranteed by the Owner or the Architect. By submitting a bid, the Bidder represents that it has not relied upon the subsurface information supplied by the Architect or Owner and assumes all responsibility in excavating for this project for any and all subsurface conditions encountered.

The Owner will, to the extent possible, afford the Bidder the opportunity at the Bidder's own expense, to make additional borings or soundings, to drive test piles, to dig test pits on the site of the Work, and to make measurements and studies of all kinds.

There is no expressed or implied agreement that the existing conditions have been correctly indicated and bidders shall take into account that conditions affecting the cost or quantities of work to be done may differ from those indicated.

The Bidder shall carefully examine all Bidding Documents and materials pertinent thereto, with respect to all the categories of work for which the Owner has advertised and will receive bids, so that it is completely aware and satisfied as to the character, quality and quantities of all work, materials and for services required or to be provided by the Bidder to perform and complete all work of its Contract on the Project. Further, the Bidder shall have carefully examined the tentative construction schedule for the work and by submission of a bid, represents that the time set forth for such work is sufficient for the Bidder to complete its work.

The Bidder, by submission of its Bid, represents that it has visited the site, that it has read the Bidding Documents and understands their full character and intent, that it otherwise complied with the provisions of Article 3, and should the Owner subsequently accept its Bid, no claims, allowances or concessions will be made, accepted or recognized by the Owner at any future time for any additional labor, equipment or materials required, or for any difficulties encountered in the Work, or for the lack of any information which could have been foreseen, apparent or ascertained had the Bidder so complied with Article 3.

The Bidder shall ascertain all governmental and utility requirements with respect to wage scales, materials, labor, safety and sanitation and shall base its bid prices on full compliance therewith. ~~**Specifically, this Project is subject to the Davis-Bacon Act; see Section 000515, Page 8, Item 4.**~~ **(*AD-01R)**

The Bidder has familiarized itself with labor conditions which might affect or influence the performance of the Work.

ARTICLE 3 - BIDDING DOCUMENTS

Paragraph 3.1 - Copies:
Subparagraph 3.1.1

DELETE Subparagraph 3.1.1 in its entirety, and in lieu thereof, SUBSTITUTE the following new Subparagraph:

3.1.1 Bidders may obtain complete sets of Bidding Documents from City's Website there is no associated fee.

DELETE Subparagraph 3.1.2 in its entirety.

ADD new Sub-subparagraph 3.1.5.1 as follows:

3.1.5.1 The Bidder agrees that all work product produced by the Architect or its consultants are "Instruments of Service" a defined in AIA Document A201™-2007, General Conditions of the Contract for Construction. "Instruments of Service" include, without limitation, representations, in any medium of expression, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional service agreements.

The Bidder agrees that for the purposes of the bid process, the Architect is the copyright owner of such Instruments of Service and retains all common law, statutory and other reserved rights, including copyrights. Distribution of Instruments of Service to potential bidders is not to be construed as publication in derogation of the reserved rights of the Architect and the Architect's consultants.

The Architect grants to the Bidder a nonexclusive, revocable license to use the Architect's Instruments of Service solely and exclusively for purposes of developing the Bidder's bid, including securing information or bids from the Bidder's material or equipment suppliers, contractors, or subcontractors. The license granted under this section permits the Bidder or the Bidder's contractors, subcontractors, sub-

subcontractors, and suppliers to reproduce applicable portions of the Instruments of Service solely and exclusively for use in developing its bid for the Project. If the Bidder is for any reason not awarded the Contract for the Project, the license granted in this section shall immediately terminate.

The Bidder acknowledges that it shall not use the Instruments of Service for any purpose other than to prepare a bid. The Instruments of Service shall not be used as construction drawings or for any specification involved in the construction of the Project. The Bidder, for itself, and the Bidder's contractors, subcontractors, sub-subcontractors, and suppliers, hereby releases and holds the Architect and Architect's consultant(s) harmless from all claims and causes of action arising from any use of the Instruments of Service. The Bidder, to the extent permitted by law, further agrees to defend, indemnify and hold harmless the Architect and its consultants from all costs and expenses, including the cost of defense, related to claims and causes of action asserted by any third person or entity to the extent such costs and expenses arise from the Bidder's use of the Instruments of Service under this section.

Except for the licenses granted in this section, no other license or right shall be deemed granted or implied under this Agreement. The Bidder shall not assign, delegate, sublicense, pledge or otherwise transfer any license granted herein to another party without the prior written agreement of the Architect. Any unauthorized use or reproduction of the Instruments of Service shall be at the Bidder's sole risk and without liability to the Architect and the Architect's consultants, and subject to Architect's rights and remedies for infringement of Architect's rights, including without limitation, copyrights

Paragraph 3.2 – Modification or Interpretation of Bidding Documents:
Subparagraph 3.2.2

ADD the following new sentences to the end of Subparagraph 3.2.2:

3.2.2 [*Add:*] "Provided, however, that the Owner may, in its discretion, waive the provisions of the preceding sentence and reply to such a request that is not timely received. All requests for clarification or interpretation shall be made by a Prime Bidder and shall be in writing. Any request made by any other entity will not be addressed. Any request for clarification or interpretation via means other than in writing will not be addressed. Written requests will not be responded to, directly back to the Bidder. If the inquiry requires clarification to, or modification of the Contract Documents, they will be issued via Addendum. If clarification to, or modification of the Contract Documents is not required by the inquiry, the request will not be addressed. Failure to request such clarification is a waiver to any claim by the Bidder for expense made necessary by reason of later interpretation of the ITB documents by the Owner."

DELETE Subparagraph 3.3.3. in its entirety.

DELETE Subparagraph 3.3.4 in its entirety.

DELETE Subparagraph 3.3.5 in its entirety.

Paragraph 3.4 - Addenda:

ADD new Sub-subparagraph 3.4.1.1 as follows:

3.4.1.1 Clarifications to the Bidding Documents will only be made in writing, by Addenda. Oral statements may not be relied upon and will not be binding or have any legal effect.

DELETE Subparagraph 3.4.3 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

3.4.3 Addenda will be issued no later than two days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

DELETE Subparagraph 3.4.4 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

3.4.4 The Bidder shall ascertain prior to submitting a Bid that the Bidder has received all Addenda issued, and the Bidder shall acknowledge, where indicated on the Bid Form, their receipt. Failure of the Bidder to receive any Addenda as provided for herein shall not release such bidder from the obligation of their Bid.

Paragraph 3.5 – The Contract

ADD a new paragraph 3.5 and associated subparagraphs as follows:

3.5 The Contract

3.5.1 A Bidder's submission of a bid signifies a bidder's willingness to enter into a binding legal contract with the terms contained in the Proposed Contract Documents that are part of the Bidding Documents, and at the price contained in the bid. Bidders may not vary the terms of the Proposed Contract Documents, which the Owner may alter only through Addendum, and may not take exception in their bids to the terms of the Proposed Contract Documents. Any exception to the Proposed Contract Documents may be cause for the Owner to deem a Bidder's bid non-responsive.

3.5.2 As a precondition to its acceptance of the lowest responsible bid, the Owner may, in its sole discretion, request that the Bidder withdraw or modify non responsive portions of a bid/proposal, which do not affect quality, quantity, price or delivery schedule.

ARTICLE 4 - BIDDING PROCEDURES

Paragraph 4.1 - Preparation of Bids:

ADD the following new sentences to the end of Subparagraph 4.1.1:

4.1.1 [*Add:*] "Attention is directed to the Bid Form bound in the Project Manual. This form is for the information and convenience of the Bidder and is not to be detached from the Project Manual, or filled out or executed. A separate copy of the Bid Form is furnished with the Bidding Documents. Complete two (2) separate copies of the Bid Form and

accompanying documents, execute and submit as specified in the Advertisement for Bid".

ADD the following new sentence to the end of Subparagraph 4.1.5:

4.1.5 [*Add:*] "Failure to enter an amount or "No Change", or a similar designation regarding the bid amount for a requested Alternate shall be construed to mean that no change in the Base Bid is required."

INSERT the following sentence after the second sentence of Subparagraph 4.1.7:

4.1.7 [*Insert:*] "The signature of any person, appearing on the Bid Form, shall be in longhand and in ink."

Paragraph 4.2 - Bid Security:

DELETE Subparagraph 4.2.3 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

4.2.3 If a Surety Bond is used for the Bid Security, it shall be written on a form similar to the enclosed Bid Bond form only, and the Attorney-in-fact who executes the Bond on behalf of the Surety, shall affix to the Bond, a certified and current copy of its power of attorney.

DELETE Subparagraph 4.2.4 in its entirety, and in lieu thereof, SUBSTITUTE the following new Subparagraph:

4.2.4 The Owner may declare the Bid Security forfeited to the Owner as liquidated damages if, following the designation, within the firm-bid period, of the Bidder as the apparently lowest responsible and responsive Bidder, such Bidder shall thereafter fail to (1) deliver to the Owner within the prescribed time the properly executed Performance Bond and Payment Bond if required by these Contract Documents or (2) if Notice of Intent to Award is given to such Bidder, deliver to the Owner, within the prescribed time, the properly executed counterparts of the construction Agreement and all evidences of insurance as required by these Contract Documents. The Bid Security of all Bidders will be returned (unless previously forfeited as aforesaid) upon (1) the execution of the construction Agreement by the Owner (provided in the case of the Bidder with whom said Agreement is entered into, all required evidences of insurance and Bonds have been previously delivered to the Owner) or (2) the rejection by the Owner of all bids or (3) the expiration of the firm-bid period, including any extensions by operation of law or by mutual consent of the Owner and the apparently lowest responsible Bidder.

Paragraph 4.3 - Submission of Bids:

ADD the following new sentence to the end of Subparagraph 4.3.2 as follows:

4.3.2 [*Add:*] "The Owner shall not be responsible for the opening of Bids not submitted in compliance with these Instructions to Bidders or Supplementary Instructions to Bidders."

ADD new Subparagraph 4.3.8 as follows:

4.3.8 [*Add:*] The documents to be submitted on bid day are as follows:

1. Two (2) Original Bid Form
2. Two (2) Bid Security
3. Two (2) Non-Collusion Affidavit
4. Two (2) Non-Discrimination Affidavit
5. Two (2) Contractor's Qualification Statement, AIA Document A305

ADD new Subparagraph 4.3.9 as follows:

4.3.9 [*Add:*] The Owner reserves the right to waive non-material defects or informalities in any and all bids to the full extent that Virginia law permits.

Paragraph 4.4 - Modification or Withdrawal of Bid:

DELETE Subparagraph 4.4.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

4.4.1 A Bidder may withdraw its Bid at any time up to the scheduled time for opening of Bids. The withdrawal of a Bid prior to the deadline for bidding may occur only by appearing in person, by First-Class mail, or by fax. A Bid may not be modified after the deadline for submittal. After the deadline for submittal, no Bid may be withdrawn except as permitted by the Procurement Code of the Commonwealth of Virginia.

MODIFY the first sentence of Subparagraph 4.4.2 as follows:

4.4.2 [*Modify:*] "…… and these Bidding Documents."

DELETE Subparagraph 4.4.3 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

4.4.3 Bids may not be withdrawn by the Bidder for a period not to exceed 60 calendar days following the actual date of opening thereof, except as provided under the Virginia Public Procurement Act. However, if award of Contracts is delayed by a required approval of another government agency, the sale of bonds or the award of a grant or grants, the Bids may not be withdrawn by the Bidder for a period not to exceed 60 days from the date of Bid opening in accordance with Virginia Law.

4.5 Confidentiality

ADD a new paragraph 4.5 as follows:

4.5 Confidentiality

4.5.1. Bidders should give specific attention to the identification of those portions of their response which they deem to be confidential, proprietary information or trade secrets, and provide any justification of why the Owner should not disclose such materials, upon request. The Owner is a public body subject to the Virginia Freedom of Information Act (Va. Code § 2.2-3700 et seq.) and must disclose information, upon request, unless the law contains an exception permitting FCPS to withhold the information. The submissions of Bidders are also subject to the provisions of Virginia Code § 2.2-4342(F) and this section.

4.5.2 Bidders must clearly indicate each page that is deemed confidential, proprietary or a trade

secret. Bidders may NOT preface their entire response with a proprietary statement; such statements will not be effective to prevent disclosure of any portion of the response. Bidders should submit physical materials in such a way that pages marked as confidential, proprietary, or trade secrets can be readily separated, physically, from portions of the submission that are not so marked.

4.5.3 If the Owner determines that a page that a Bidder has designated "confidential" or "trade secret" is not entitled to protection from public disclosure under FOIA and Virginia Code § 2.2-4342(F), the Owner will provide notice of that determination to the contact person designated by the Bidder, in any reasonable manner that the Owner can provide such notice. If the Bidder does not initiate judicial proceedings to protect the confidentiality of the document within five (5) business days after the designated person received such notice, the Owner will not have any obligation to withhold the document from public disclosure.

4.5.4 By submitting to the Owner a page that a Bidder designates as "confidential" or "trade secret", the Bidder agrees that in the event a third party brings any action against the Owner or any of its officials or employees to obtain disclosure of the document, the Bidder will indemnify and hold harmless the Owner and each organization's affected officials and employees from all costs, including attorney's fees, incurred by or assessed against any defendant, of defending against such action. The Bidder also agrees that at the Owner's request the Bidder will intervene in any such action and assume all responsibility for defending against it, and that the Bidder's failure to do so will relieve the Owner of all further obligations to protect the confidentiality of the document. All materials and information submitted during the ITB process will become the property of the Owner and will not be returned to the Proposer, except for the financial information, which shall be returned upon request after the Owner has determined to discontinue the procurement, or after the award of the contract.

4.6 – Owner's Officers/Employees Not to Benefit.

ADD a new paragraph 4.6 as follows:

4.6 OWNER'S OFFICERS/EMPLOYEES NOT TO BENEFIT.

4.6.1 Each Bidder's submission of a bid constitutes such Bidder's certification that that to the best of their knowledge no official or employee of Owner having official responsibility for the procurement transaction or member of his or her immediate family has received or will receive any financial benefit of more than nominal or minimal value relating to an award under this solicitation. If such a benefit has been received or will be received this fact shall be disclosed with the bid or as soon thereafter as it appears that such a benefit will be received. Failure to disclose the information prescribed above may result in suspension or debarment or recession of the contract made or could affect payment pursuant to the terms of the contract.

4.6.2 By submitting their bid, Bidders certify that their proposals are made without collusion or fraud and that they have not offered or received any kickbacks or inducements from any other Bidder, supplier, manufacturer or subcontractor in connection with their bid, 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.

4.6.3 Whenever there is reason to believe that benefit of the sort described in the paragraphs above has been or will be received in connection with bid, proposal or contract and that a Bidder has failed to disclose such benefit or has inadequately disclosed it, the Owner, as a prerequisite to payment pursuant to the agreement, or at any time may require the Bidder to furnish, under oath, answers to any interrogatories related to such possible benefit.

4.6.4 In the event a Bidder has knowledge of benefits as outlined above, this information should be submitted with the bid. If the above does not apply at time of award of contract and becomes known after inception of a contract the Bidder/Offeror shall address the disclosure of such facts to Owner's Budget Director.

ARTICLE 5 -CONSIDERATION OF BIDS

Paragraph 5.1 - Opening of Bids:

DELETE the first part of the first sentence of Paragraph 5.1 up to and including "or when otherwise required by law," and begin this sentence as follows:

5.1 "Bids properly identified and received ……"

5.1.1 Post Bid Assessment: To the full extent permitted under Section 2.2-4318 of the Code of Virginia, if the amount of the lowest responsible and responsive bid exceeds available funds, the Owner reserves the right to consider changes in the Work after Bid opening and prior to award of Contracts intended to reduce the cost of the Project. The Owner may at its election, begin discussions with the lowest responsible Bidder, based on low Base Bid and any Alternates determined to be acceptable to the Owner. After Bid opening and upon the Owner's identification of the apparent low bidder and the Owner's request, the apparent low bidder agrees to provide cost breakdowns in accordance with estimates used in the preparation of its Bid to the Owner and Architect, using cost breakdown forms that will be provided by the Architect. The confidentiality of such cost-breakdown and bid materials, when received, will be maintained by the Owner, the Architect and their representatives to the extent permitted by law. Such requests will be made only where, in the sole judgment of the Owner, the Owner's ability to fully fund the Project is detrimentally affected by the total amount of the lowest responsible and responsive Bids and accepted Alternates received from all Bidders. Matters to which such requests could be directed may include site work, landscaping, predetermined means and methods of construction, substitutions, deletions, changes in scope, and changes in schedule. Following receipt of the information requested, the Owner may propose deletions of Work and may at its option prepare draft deduct Change Orders. The Owner's award of the Contract to the Bidder can be made conditional upon the Bidder's consent and agreement to the execution of the proposed deduct Change Orders, following award and at a time contemporaneous with the execution of the Owner-Contractor Agreement. If through this process the Owner cannot achieve the cost reductions necessary to meet its budget parameters, the Owner reserves the right to reject all Bids associated with the Contract and re-bid the Project.

5.1.2 Each firm may submit only one bid. In the event a firm submits more than one bid, all bids that such firm submits will be disqualified.

Paragraph 5.2 - Rejection of Bids:

ADD new Subparagraph 5.2.1 as follows:

5.2.1 The Owner reserves the right to reject any or all Proposals, or parts thereof, or items therein. The Owner reserves the right to disqualify Bids, before or after opening, upon evidence of collusion with intent to defraud or other illegal practices upon the part of the Bidder, or by other means permissible under applicable law.

Paragraph 5.3 - Acceptance of Bid Award:

AMPLIFY Subparagraph 5.3.1 as follows:

5.3.1 [*Amplify:*] The Owner, before making an award, may require any Bidder, upon at least three (3) days request to present satisfactory evidence, in the form specified by the Owner, of their experience, qualifications, financial ability, and other matters reasonably related to their ability to satisfactorily perform and complete the Work covered by their Bid.

The Owner reserves the right to consider such matters, facts and circumstances presented by the Bidder, as shall be permitted by Virginia law, in making a determination whether the Bidder is a responsible Bidder. The Owner reserves the right to request such other information or data as they may deem necessary to evaluate the qualifications of the Bidder to satisfactorily perform the functions of the Contractor.

The Bidder must submit a Contractor's Qualification Statement (AIA Document A305) in order to assist the Owner in determining whether a Bidder is responsible. The Owner would be pleased, as part of such evaluation, to review and consider any similar projects completed within the past 7 years of a minimum Contract value equal to or greater than the Bid amount of this Project. Also, provide names and numbers for the locality officials or the Construction Manager, if applicable, and the Architect for all similar projects completed within the past 7 years.

The Contractor's Qualification Statement may be supplemented by listing any principal, officer, or shareholder in your company who has either owned, operated or who was affiliated with any other business in a management capacity, under a different name. List the name of the business and provide a Contractor's Qualification Statement for such business.

ADD new Subparagraphs as follows:

5.3.5 After review of the Bids, during the Bid period stipulated in Article 4.4.1, at its sole discretion, the Owner may issue a Notice of Intent to Award. Upon receipt of Notice of Intent to Award, the Contractor shall, within five (5) calendar days, deliver to the Owner (by delivery to the Architect) the following:

1. Performance and Payment Bonds as set forth in the Contract Documents and Article 7 of the Instructions to Bidders.

2. Insurance Certificate, policies or other evidence of insurance set forth in the Contract Documents.
3. Post Bid Information required in Article 6 of the Instructions to Bidders.

Failure of the Bidder to whom Notice of Intent to Award has been given to deliver the above items required by the Contract Documents, within five (5) days, shall constitute grounds for the Owner to declare the Bidder's Bid Security forfeited.

Upon receipt of the documents listed above, the Owner may at its sole discretion, award the Contract. A written Notice to Proceed will be issued to establish the start of the Contract duration.

5.3.6 Upon receipt of the partially executed Agreement from the Contractor, the Owner shall execute and return to the Contractor, one (1) copy of the executed Agreement and shall issue the Notice to Proceed for the Work.

5.3.7 When a Unit Price is rejected by the Owner, any additional work that would have been subject to that unit price shall be subject to Article 7 of the General Conditions of the Contract for Construction and the Supplementary General Conditions.

ARTICLE 6 - POST BID INFORMATION

DELETE Paragraph 6.1 in its entirety. SUBSTITUTE the following paragraph:

[Substitute:] 6.1 As a matter of policy, the Owner does not endorse the products or services of a contractor. News releases concerning any resultant contract from this solicitation will not be made by a contractor without the prior written approval of the Owner. All proposed news releases will be routed to the Owner's Budget Director for review and approval.

DELETE Paragraph 6.2 - Owner's Financial Capability, in its entirety.

ARTICLE 7 - PERFORMANCE BOND AND PAYMENT BOND

Paragraph 7.1 - Bond Requirements:

DELETE Subparagraph 7.1.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

7.1.1 Prior to execution of the Contract, the successful Bidder shall furnish bonds covering the faithful performance of the Contract and the payment of all obligations arising thereunder in the forms included in the Project Manual and each in an amount equal to 100% of the Contract Amount. The Performance Bond shall remain in force and effect until the Contractor's Work has been finally accepted. The Bidder shall pay all premiums with respect to such bonds.

DELETE Subparagraph 7.1.2 in its entirety.

DELETE Subparagraph 7.1.3 in its entirety, and in lieu thereof, SUBSTITUTE the following new

Subparagraph:

7.1.3 Bonds shall be secured from a surety company as stipulated in Section 000750 Supplementary General Conditions.

Paragraph 7.2 - Time of Delivery and Form of Bonds:

DELETE Subparagraph 7.2.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

7.2.1 The Bidder shall deliver properly executed bonds to the Owner (by delivery to the Architect) no later than five (5) days after written Notice of Intent to Award is issued.

DELETE Subparagraph 7.2.2 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

7.2.2 Bonds shall be written on the Performance Bond form and the Payment Bond form included in the Contract Documents for the amount required in the Contract Documents.

7.2.2.1 The Contract Bonds shall be written in the form included in the Project Manual and the Bonds shall be executed by or on behalf of the successful Bidder, as Principal, in the following manner:

7.2.2.2 If the successful Bidder is an individual, the Contract Bonds shall be executed by them personally, their signature shall be witnessed and any trade name employed in the conduct of their business shall be stated.

7.2.2.3 If the successful Bidder is a partnership, the Contract Bonds shall be executed in the name of the partnership by each of the Partners, and the signatures of the Partners shall be witnessed.

7.2.2.4 If the successful Bidder is a corporation, the Contract Bonds shall be executed in the name of the corporation: (1) by the President or a Vice President and attested by the Secretary or Assistant Secretary and the Corporate Seal shall be attached; (2) by a duly authorized agent of the corporation whose authority to act, as of the date of the Contract Bonds, shall be established by proof, satisfactory to the Owner, attached to the Contract Bonds.

7.2.2.5 If the successful Bidder is a limited liability company, the Contract Bonds shall be executed in the name of the limited liability company: (1) by a Manager, in the case of a Manager-managed limited liability company; or (2) in the case of a limited liability company that is not Manager-managed, by a duly authorized Member or other officer of the limited liability company, whose authority to act, as of the date of the Contract Bonds, shall be established by proof, satisfactory to the Owner, attached to the Contract Bonds.

7.2.2.6 Execute the Contract Bonds in behalf of the surety in such manner as to legally bind the surety. In the event the execution in behalf of the surety is by an agent or agents, a proper power of attorney, evidencing the authority of such agent or agents, shall be attached to the Contract Bonds. Such power of attorney shall bear the same date as the Contract Bonds to which it is attached.

7.2.2.7 Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

ARTICLE 8 - ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

DELETE Subparagraph 8.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

8.1 The Agreement shall be written on the form included in these Contract Documents.

ARTICLE 9 CONSTRUCTION TIME

ADD new Article 9 as follows:

Paragraph 9.1 - Pre-Bid Conference:

9.1.1 Prospective Bidders and Sub-bidders are invited to attend a Pre-Bid Conference at the time and location stated in the Advertisement for Bids during which questions of general and technical nature and other matters regarding the Construction Documents may be raised by those in attendance and discussed with the Owner, the Architect and the Engineers.

Paragraph 9.2 - Pre-Construction Conference:

9.2.1 Soon after the award of the Contract but prior to the start of construction, the Contractor or their representative shall attend a Pre-Construction Conference with representatives of the The City of Staunton, VA and the Architect. The conference will serve to acquaint the participants with the general plan of Contract administration and requirements under which the construction operation is to proceed and will inform the Contractor, in detail, of the obligations imposed on them and their subcontractors by the Executive Orders concerning Equal Employment Opportunity.

9.2.2 The date, time and place of the conference will be furnished to the Contractor by the Architect.

Paragraph 9.3- Contract Time:

9.3.1 The Agreement will include a stipulation that the Work be substantially complete (as defined in the Contract) by the date indicated on the Bid Form, and that completion of ALL punch list work and Final Acceptance of the Work be achieved within (30) calendar days after Substantial Completion.

Paragraph 9.4- Time of Completion:

9.4.1 The Bidder agrees that they will commence work within forty-eight (48) hours following receipt of Notice to Proceed from the Owner (which may be given by the Architect pursuant to authority granted by the Owner) and shall be substantially completed within the number of calendar days set forth herein.

9.4.2 By submitting a Bid, the Bidder certifies that they shall coordinate the schedule for the construction of the Project including, but not limited to, preparing and updating the Schedule.

9.4.3 By submitting a Contract Bid, the Bidder certifies that the Contract Time set forth herein is sufficient for the Bidder to complete its Work.

Paragraph 9.5- Non-Interference with Owner's Operations:

9.5.1 The Contractor shall schedule their Work accordingly and shall cooperate with the Owner to see that daily operations are disrupted as little as possible. No work shall begin until it is fully coordinated with the Owner so that the Owner can make provisions to allow for the disruption that the work will cause. This notice shall be in writing.

9.5.2 The Contractor shall erect temporary barriers to segregate the area of new construction from the existing facility and remainder of the Owner's property. It is the intention that these temporary barriers be constructed to prevent the flow of dust dirt, debris, etc., into the adjacent areas of the facility. The temporary barriers must also serve as safety barriers to prevent access of unauthorized people into the work area.

9.5.3 The Contractor must maintain access to the Owner's facilities for employees, visitors, other users, and deliveries. In no way shall the Contractor prevent access to the remaining portions of the site.

ARTICLE 10 - GOVERNING LAWS AND REGULATIONS

ADD new Article 10 as follows:

Paragraph 10.1 – Governing Laws and Regulations

10.1.1 The Bidder's attention is directed to the fact that all applicable Federal and State laws, municipal ordinances and codes, and the rules and regulations of all authorities having jurisdiction over construction of the Project may apply to this Contract, including without limitation.

END OF SECTION 000101

PREBID QUESTION FORM (*AD-01R)

Only questions requiring a modification or interpretation to the Bidding Documents by an addition, deletion, clarification, or correction, will be made by written Addendum, and transmitted to Planholders of Record. Questions that do not require a modification or interpretation to the Bidding Documents will not be responded to and will not be included in an Addendum.

The Architect and Owner shall not be responsible for oral modifications and interpretations. Bidders and Sub-bidders requesting a modification or interpretation by addition, deletion, clarification, or correction of the Bidding Documents shall complete and submit this form which shall reach the Architect no later than the date and time indicated on the Invitation to Bid. Use a separate form for each question submitted.

DATE: _____

The following question concerns Drawing (number)_____:

_____

_____

_____

_____

_____

The following question concerns Specifications Section (number) _____, page _____, paragraph _____:

_____

_____

_____

_____

_____

Questions submitted by: _____
Name Organization

Telephone No. (___)_____ e-mail Address: _____

Email PDF version of Form to: kgaray@moseleyarchitects.com

BID FORM - GENERAL CONSTRUCTION – Architect's Project No: 630874 (*AD-01R)
City of Staunton IFB#C00124

DATED: _____
(Bidder to insert date bid submitted)

Bidder's Name and Address (Print or Type)

_____

City of Staunton, VA

_____

116 W. Beverley St
Staunton, VA 24401

_____

To Whom It May Concern:

This Bid is submitted in accordance with your Advertisement inviting Bids to be received for the General Construction Work for Staunton J&DR Courts Facility, City of Staunton, VA.

Having carefully examined the Contract Documents as defined in Article 1 of the Agreement, bound in the Specifications, and including the Addenda enumerated in the Bid, which are incorporated with these documents indicating various conditions affecting this Contract, the undersigned herein agrees to furnish all materials, perform all labor and do all else necessary to complete the Contract for the above-named Project in accordance with said Contract Documents for:

Total Base Bid Project Cost for All General Construction (INCLUDING ALLOWANCES)

_____ DOLLARS

($_____).

Accompanying this Bid is a certified check, bank cashier's check, bank treasurer's check or Bid Bond required by Paragraph 4.2 of the Instructions to Bidders which is deposited as a bid guarantee, and is to be retained by you and applied as provided in Paragraph 4.2.1 of the Instructions to Bidders, in case the undersigned shall default in executing the Contract or in furnishing the required Bonds and insurance certificates within the time specified by these Contract Documents.

The undersigned hereby certifies that this Bid is genuine, and is not a sham or collusive, or made in the interest of, or on behalf of any person, firm or corporation not herein named, and that the undersigned has not directly or indirectly induced or solicited any bidder to refrain from bidding and that the undersigned has not in any manner sought by collusion to secure for itself, any advantages over any other bidder.

The undersigned, intending to be legally bound, agrees that this Bid shall be irrevocable and shall remain subject to your acceptance for 60 days after the date set for bid opening.

It is hereby certified that the undersigned is the only person(s) or entity(ies) interested in this Bid as Principal, and that the Bid is made without collusion with any person, firm or corporation. The Bidder hereby agrees to furnish surety company bonds in the form incorporated in the Contract Documents, in the amount of one hundred percent (100%) of the Contract Price for the Performance Bond and the Payment Bond as surety against defects or inferior materials or workmanship which may develop during the period of one (1) year from the date of completion and acceptance of the Work performed under the Contract, within ten (10) days after notice by the Owner of the intention to award the Contract and execute the Agreement and furnish evidence of required insurance coverage, upon request, within ten (10) days after mailing by the Owner of Notice of Intent to Award, and to commence work within forty-eight (48) hours after receipt of Notice to Proceed.

The Bidder guarantees that, if awarded a Contract, it will furnish and deliver all materials, all specified temporary facilities and controls, tools, equipment, tests, and transportation, to secure all permits and licenses, to do and perform all labor, superintendence, and all means of construction, pay all fees (unless specifically noted otherwise), and do all incidental Work, and to execute, construct and finish, in an expeditious, substantial and workmanlike manner in accordance with the plans and specifications, to the complete satisfaction and acceptance of the Owner for the price herein stated.

It is understood that the City of Staunton reserves the right to reject any or all Bids or Proposals, or parts thereof, or items thereof, and to waive technicalities required for the best interests of the Owner.

The undersigned submits this Bid with the full knowledge of the Contract requirements and hereby agrees that Work of this Project, under this Contract, shall be **substantially completed by November 1st, 2025,** which period shall be the essence of the Contract. Each phase of construction will have its own substantial completion date. See Section 011000 Summary of Work.

The Bidder agrees that it will not assign its Bid or any of its rights or interests hereunder without written consent of the Owner.

The undersigned Contractor agrees to furnish all labor and materials for any additional work ordered by the Owner, and for which no pre-agreed price has been fixed, for the net cost of all labor and materials furnished plus the contracted markup noted in Article 6 of the Supplementary General Conditions.

THE BID FORM AND THE FOLLOWING ATTACHMENTS SHALL BE SUBMITTED IN DUPLICATE:

1. Two (2) Bid Security
2. Two (2) Contractor's Qualification Statement (AIA Document A305)
3. Two (2) Virginia SCC number
4. Two (2) Non-Collusion Affidavit

ALLOWANCES: The Instructions to Bidders and the Contract Documents comprising the plans and specifications, and all documents bound therewith, together with all Addenda thereto, shall apply to all Allowances and Unit Prices as listed in Division 1 Sections "Allowances", "Unit Prices", and as listed below:

Lump Sum Allowance #1: Interior and Exterior Panel Signage $50,000.

Quantity Allowance #1: Moisture Vapor Treatment (MVT):

Provide quantity of 20,000 square feet (sf) at $_____ per sf (in-place unit price/measurement);

for a total allowance amount of $_____ (figures only)
The Owner reserves the right to accept or reject any and all Unit Prices stipulated on the Bid Form.

ALTERNATE BID PRICE: (Reference Section 012300 – Alternates) **(*AD-01R)**

1. Alternate #1 Bid Price: Partial Building Demolition: Provide all work associated with Partial Building Demolition, the existing structure is a single-level steel-framed building consisting of steel roof deck. The demolition shall consist generally of roof structure, steel columns, and exterior and interior walls, in strict accordance with the Bid Documents; Lump Sum + Lump Sum Allowances + associated Quantity Allowances

$_____ (Figures only)

ADDENDA

The undersigned hereby acknowledge receipt of following Addenda and has prepared this bid accordingly:

ADDENDUM #_____	Dated_____	ADDENDUM #_____	Dated_____
ADDENDUM #_____	Dated_____	ADDENDUM #_____	Dated_____

Bids shall be officially signed in accordance with the Instructions to Bidders, using the applicable portion of the "Signature Pages".

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Individual Bidder

_____
Name of Bidder (Printed)

_____ By: _____
Witness (Signature of Individual)

Trading and doing business as * _____

Business Address _____

*If a fictitious or trade name is employed in the conduct of business, insert name here:

_____

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the individual proprietorship under Virginia Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Partnership Bidder

*_____
(Name of Partnership)

_____
Name of General Partner (Printed)

_____ By: _____
Witness (Signature of General Partner)

Business Address_____

The Partners constituting the Partnership herein named are:

Partner	Address
Partner	Address
Partner	Address
Partner	Address

[Add additional lines for the names and addresses of additional Partners, if there are more than four Partners in the Partnership, by attaching an additional page or pages to this Bid.]

*If a fictitious or trade name is employed by the Partnership in conduct of its business, insert name here:

_____

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the partnership under Virginia Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Corporate Bidder

_____

(Name of Corporation)

By:_____ Attest:_____

Signature of President, Vice President, or other authorized representative *

Signature of Secretary, Assistant Secretary, Treasurer, Assistant Treasurer or other authorized representative **

(CORPORATE SEAL)

Business Address_____

* If a representative other than the President or a Vice President of the Corporation signs this Bid on its behalf, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to execute this Bid on behalf of the Corporation.

** If a representative other than the Secretary, an Assistant Secretary, the Treasurer or an Assistant Treasurer attests to the signature of the corporate representative, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to attest to the execution of this Bid on behalf of the Corporation.

(1) Complete the following statement:

The Corporation has been organized and is existing under laws of the State/Commonwealth of

_____

(2) If the Corporation has been organized under laws of a State other than those of the Commonwealth of Virginia, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Virginia under applicable laws.

(3) If the Corporation has been organized under laws other than those of the Commonwealth of Virginia and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Virginia and (has) (has not) attached a copy of the pending application to this Bid.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Limited Liability Company (LLC) Bidder

[Name of Contractor]

_____
(Print Name of Limited Liability Company)

Attest:_____By: _____
Signature of an authorized representative* Signature of an authorized representative**

* The individual attesting verifies and represents that the person whose signature is affixed to this Bid on behalf of the Limited Liability Company (LLC) is duly authorized in accordance with the representations hereafter set forth.

** Check the box which applies to this Bid:

□ The Certificate of Organization or operating agreement provide~~s~~ that the LLC is to be managed by managers, and this Bid has been executed by a Manager fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.

□ The Certificate of Organization and operating agreement do~~es~~ not provide that LLC is to be managed by managers, and this Bid has been executed by a Member fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.

□ This Bid has been executed by a representative of the LLC who is not a Manager or a Member of the LLC, and instead who holds the office of _____ (insert title), and the execution of this Bid is fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.

The Bidder and the individuals signing and attesting to the execution of this document further represent that (1) execution of the Bid is carrying on business in the usual way; (2) the LLC authorizes the execution of this Bid even if execution and submission of this Bid is not carrying on business in the usual way for the LLC; and (3) to the best of the individuals' information and belief, the Owner has no knowledge of the Member's or the Manager's lack of actual authority, or of any applicable and relevant restriction on his or her authority.

Complete the following statement:

The LLC has been organized and is existing under laws of the State/Commonwealth of:

_____

If the LLC has been organized under laws of a State other than those of the Commonwealth of Virginia, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Virginia under applicable laws.

If the LLC has been organized under laws other than those of the Commonwealth of Virginia and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Virginia and (has) (has not) attached a copy of the pending application to this Bid.

SECTION 012300
ALTERNATES (*AD-01R)

PART 1 GENERAL

1.01 ACCEPTANCE OF ALTERNATES

A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.

B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

1.02 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Partial demolition of adjacent retail building.

1. Base Bid Item: Provide demolition, including hazardous materials remediation, of only the standalone retail store where the new J&DR courts building will be located.
2. Alternate Item: Provide partial demolition of the adjacent retail shopping center building, including hazardous materials remediation, as indicated on Drawings. Work of this alternate also includes a new structural CMU end wall for support of the existing structure and associated materials and construction as indicated on Drawings.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 012300

SECTION 028000
HAZARDOUS MATERIALS REMEDIATION (*AD-01R)

PART 1 GENERAL

1.01 GENERAL

A. Provide hazardous material remediation of asbestos-containing materials (ACM) in strict accordance with applicable laws, ordinances, criteria, rules, guidelines, and regulations of Federal and state authorities governing asbestos abatement, including removing, handling, storing, transporting, and disposing of hazardous waste materials.

B. The ACM to be remediated as part of the contract are identified in the following survey report, included as an appendix at the end of the Project Manual:

1. "Asbestos and Lead Paint Survey Report" by TRC, dated December 15, 2022.
2. **Note that the survey report includes multiple existing buildings in the commercial shopping center. The Base Bid Work of this project applies to Building/Space 2032 only. The Work of Alternate #1 shall apply to Space 2030 only. The other buildings on site are existing to remain. (*AD-01R)**
   a. **Approximate Total Footprint Square Footages: (*AD-01R)**
      1) **Space 2032: 40,826 SF. (*AD-01R)**
      2) **Space 2030: 27,280 SF. (*AD-01R)**

1.02 SUBMITTALS

A. Asbestos Hazard Remediation Plan:

1. Develop and submit a detailed, job-specific Asbestos Hazard Remediation Plan prepared by an Asbestos Abatement Project Designer, licensed in the state where the project is located. Detail engineering controls and work procedures, including administrative controls, safety precautions, and removal techniques to be used in the abatement of ACM.
2. Provide a detailed description of the method of containment to ensure that airborne asbestos concentrations as outlined in 29 CFR 1926.1101 are not exceeded in the regulated area.
3. The plan shall include safety precautions such as lockout, tag out, and equipment work procedures to be used in the removal of ACM. Also include fire and medical emergency response plans.
4. The plan shall detail housekeeping and hygiene practices and the specific types of protective clothing, equipment, and respirator to be used.
5. The plan must be approved by Owner prior to starting any remediation work.

B. Permits: Submit copies of required permits.

C. Transport/Disposal Documentations: Submit invoice or manifest from a landfill that has a permit to accept hazardous waste materials; include quantity of hazardous waste accepted.

1.03 QUALITY ASSURANCE

A. Licensing and Training: The Hazardous Materials Subcontractor and all personnel involved in performing asbestos abatement and disposal operations are required to be trained and licensed in the state where the project is located prior to the time of the initial job assignment and in accordance with 29 CFR 1926.1101.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PREPARATION AND REMEDIATION

A. The Hazardous Materials Subcontractor shall secure all necessary permits, provide necessary notifications, and pay required fees, in conjunction with hazardous material removal, hauling, and disposal, as required by Federal and state regulations and guidelines. Submit copies of all required permits and hazardous waste manifests to the Owner within 14 days of receipt. Notify the Regional Office of the EPA in accordance with Federal regulation.

B. Conduct remediation in compliance with Federal and state regulations and guidelines.

END OF SECTION 028000

SECTION 064100
ARCHITECTURAL WOODWORK AND CASEWORK (*AD 01R)

PART 1 GENERAL

1.01 DEFINITIONS

A. Exposed: Portions of casework visible when drawers and cabinet doors are closed, including end panels, bottoms of cases more than 42 inches above finished floor, tops of cases less than 72 inches above finished floor and all members visible in open cases or behind glass doors.

B. Semi-Exposed: Portions of casework and surfaces behind solid doors, tops of cases more than 72 inches above finished floor and bottoms of cabinets more than 30 inches but less than 42 inches above finished floor.

C. Concealed: Sleepers, web frames, dust panels and other surfaces not generally visible after installation and cabinets less than 30 inches above finished floor.

1.02 REFERENCE STANDARDS

A. ANSI A208.1 - American National Standard for Particleboard.

B. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications.

C. ANSI A208.1 - American National Standard for Particleboard.

D. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications.

E. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

F. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

G. AWI (QCP) - Quality Certification Program.

H. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition.

I. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards.

J. BHMA A156.9 - Cabinet Hardware.

K. CAL (CDPH SM) - Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers Version 1.2.

L. CARB (SCM) - Suggested Control Measure for Architectural Coatings; California Air Resources Board.

M. EPA (TSCA); Title VI - Toxic Substances Control Act, Title VI: Formaldehyde Standards for Composite Wood Products.

N. HPVA HP-1 - American National Standard for Hardwood and Decorative Plywood.

O. ISFA 2-01 - Classification and Standards for Solid Surfacing Material.

P. NEMA LD 3 - High-Pressure Decorative Laminates.

Q. SCAQMD 1113 - Architectural Coatings.

R. SCAQMD 1168 - Adhesive and Sealant Applications.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting not less than one week before starting work of this section; require attendance by all affected installers.

1.04 SUBMITTALS

A. Product Data: Component dimensions, configurations, construction details, joint details, attachments.
   1. Include product data for each type of hardware and accessory.

B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
   1. Include field measurements, and indicate where field measurements differ from documents.

C. Selection Samples: Submit manufacturer's color charts indicating full range of available colors, for each product requiring color selection.

D. Verification Samples: Submit physical samples, manufacturer's standard size, for each specified finish and color of the following materials:
   1. For each type of architectural woodwork profile and paneling, minimum 8 inches square or 8 linear inches in length, illustrating proposed shapes, sizes, and finishes of panels, moldings, and other profiles
   2. For each solid wood or wood veneered product indicated to receive transparent finish, provide at least three samples illustrating standard range of wood grain, stain color, and sheen, for selected color.
   3. Plastic laminate.
   4. Solid surface.
   5. PVC edge banding.

E. Fabricator Qualifications: Include evidence of accreditation with quality control program.

F. Certificate: Submit labels and certificates required by quality assurance and quality control programs.

1.05 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with experience on Projects of similar size and scope.
   1. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.
   2. Single Source Responsibility: Provide and install this work from single fabricator.
      a. It is acceptable to subcontract portions of the work to a separate specialty subcontractor (for example, pre-fabricated plastic-laminate-faced casework); however, each fabricator shall be independently accredited; submit accreditation for each fabricator. The primary woodwork contractor shall be responsible for ensuring the work of all Division 06 sections is well coordinated and properly fabricated and installed.

B. Quality Certification:
   1. Comply with AWI (QCP) woodwork association quality certification service/program in accordance with requirements for work specified in this section: www.awiqcp.org/#sle.
      a. **This AWI (QCP) project is registered as project number ~~[TBD]~~ 24.0338. (*AD-01R)**
   2. Provide for third-party AWI final inspection of fabricated architectural casework (prior to delivery). AWI program of self-certification in lieu of third-party inspection is not acceptable.
   3. Provide for third-party AWI final inspection of field-installed woodwork (after installation). AWI program of self-certification in lieu of third-party inspection is not acceptable.

4. Provide labels or certificates indicating that the installed work complies with AWI/AWMAC/WI (AWS) requirements for grade or grades specified.
5. Provide designated labels on shop drawings as required by certification program.
6. Provide designated labels on installed products as required by certification program.
7. Submit certifications upon completion of installation that verifies this work is in compliance with specified requirements.
8. Replace, repair, or rework all work for which certification is refused.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Comply with Section 2 of the Architectural Woodwork Standards: "Care & Storage."

B. Deliver woodwork after finishes are complete, including painting, and HVAC is operating at occupancy conditions in all spaces where woodwork will be installed.

C. Store in an environmentally controlled location. Protect units from moisture damage.

1.07 FIELD CONDITIONS

A. During and after installation of woodwork, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

B. **Verify slab levelness at casework prior to installation. Construction tolerances do not apply at accessibility dimensions; max dimensions shall be maintained. (*AD-01R)**

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS), unless noted otherwise.

B. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84, unless otherwise indicated for specific products.

C. All countertop surfaces shall be NSF approved for food contact.

D. Accessibility Requirements: Fabricate and install woodwork and casework in compliance with ICC/ANSI A117.1 and with ADA Standards for Accessible Design.

E. Low-Emitting Materials:

1. Composite Wood: Any composite wood materials installed inside the weatherproofing system shall meet either EPA (TSCA); Title VI for ultra-low-emitting formaldehyde or no added formaldehyde (ULEF / NAUF).
2. Paints and Coatings: Paints and coatings field-applied inside the weatherproofing system shall be tested and determined compliant in accordance with CAL (CDPH SM) AND shall meet applicable VOC limits of CARB (SCM) or SCAQMD 1113.
3. Adhesives and Sealants: Adhesives and sealants field-applied inside the weatherproofing system shall be tested and determined compliant in accordance with CAL (CDPH SM) AND shall meet the chemical content requirements of SCAQMD 1168.

2.02 CABINETS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS), unless noted otherwise.

B. Plastic-Laminate-Clad Cabinets: Custom grade, except as modified below. Solid wood and wood panel construction; each unit self-contained and not dependent on adjacent units or

building structure for rigidity; in sizes necessary to avoid field cutting except for scribes and filler panels. Include adjustable levelers for base cabinets.

1. Style: Reveal overlay. Ease doors and drawer fronts slightly at edges.
2. Cabinet Nominal Dimensions: Unless otherwise indicated, provide cabinets of widths and heights indicated on drawings, and with following front-to-back dimensions:
   a. Base Cabinets: 24 inches.
   b. Tall Cabinets: 24 inches.
   c. Wall Cabinets: 12-1/2 inches. (Minimum clear interior depth shall be 11 inches)
3. Drawer Construction: Provide AWI premium grade for drawer box construction.
4. Base Construction: Provide adjustable levelers for all base cabinets to facilitate load transfer to the floor, isolate cabinet ends from the floor, and permit leveling.
   a. Provide one of the following two types of base construction:
      1) Separate Sub-Base: Cabinet sub-base shall be separate and continuous (no cabinet body sides-to-floor), exterior grade plywood with concealed fastening to cabinet bottom. Sub-base shall be ladder-type construction of individual front, back, and intermediates, to form a secure and level platform to which cabinets attach. Recess sub-base at exposed cabinet end panels 1/4 inch from face of finished end, for flush installation of finished base material by other trades.
      2) Integral Base: Provide end panels, cabinet bottoms, and horizontal toe kick members integrally joined together for structural strength. Adjustable levelers shall be provided at each corner for each cabinet.
   b. Toe Kick: Toe kick shall be nominal 4 inch height. Reduce as necessary via field modification due to construction tolerances and concrete slab levelness to maintain maximum height dimensions indicated.
5. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline.
   a. Finish: Matte or suede, gloss rating of 5 to 20.
   b. Surface Color and Pattern: To be selected by Architect from manufacturer's full range.
   c. Exposed Interior Surfaces: Thermally fused laminate (melamine) is acceptable only at drawer boxes. Provide HPDL, type VGS or CLS, at semi-exposed interiors of cabinets (cabinets with doors). Provide type VGS for exposed interior horizontal shelving surfaces and interiors of open cabinets (no doors).
   d. Apply undecorated laminate backing sheet to concealed reverse side of plastic laminate finished surfaces.
   e. Wood Grain Pattern: If wood grain is indicated or selected for plastic laminate color/pattern, provide sequence matched finish across each elevation. Grain shall run vertically across all doors, drawers, fronts, and false fronts; mismatched grain direction is not allowed.

C. ADA Sink Cabinets: Fabricate a panel of 3/4-inch moisture resistant core material and veneer/cladding material to match adjacent cabinets. Panel shall be removable for service access to undercounter plumbing. Provide with Z-clip attachment system for concealed fastening and with a steel cable retainer, minimum 4 feet long, so that panel can be set aside for service access. Fasten Z-clips and steel cable retainer to panel and to substrate with tamper-resistant fasteners.
   1. Provide an undercounter vertical "apron" piece at front of ADA sink locations as indicated, flush to fronts of adjacent cabinets and finished to match.

2.03 WOOD-BASED COMPONENTS

A. Low-Emitting Materials: Provide composite wood products that meet the requirements of EPA (TSCA); Title VI for formaldehyde emissions.

B. Core Material for Cabinets: ANSI A208.1, Grade M-2 particleboard.
   1. At Contractor's option, cabinet backs may be fabricated of ANSI A208.2, Grade MD fiberboard.

C. Core Material for Countertops: Manufacturer's standard ANSI A208.1, Grade M-2 particleboard, or ANSI A208.2, Grade MD fiberboard.
   1. At countertops containing sinks, provide core material meeting ANSI MR10 for moisture resistance. Available Products:
      a. Arauco North America; Duraflake VESTA Moisture Resistant ULEF.
      b. Collins Pine; FreeForm.
      c. Georgia-Pacific; Ultrastock MR MDF.
      d. Roseburg Forest Products; SkyBlend MR-10.

2.04 PANEL CORE MATERIALS

A. Particleboard: Composite panel composed of cellulosic particles, additives, and bonding system; comply with ANSI A208.1.

B. Medium Density Fiberboard (MDF): Composite panel composed of cellulosic fibers, additives, and bonding system; cured under heat and pressure; comply with ANSI A208.2.

2.05 THERMALLY FUSED LAMINATE PANELS

A. Thermally Fused Laminate (TFL): Melamine- or polyester-resin-saturated decorative papers; for fusion to composite wood substrates under heat and pressure.
   1. Test in accordance with NEMA LD 3 Section 3.
   2. Panel Core Substrate: Particleboard.
   3. Color: White.

2.06 LAMINATE MATERIALS

A. Manufacturers:
   1. Formica Corporation; High Pressure Laminate.
   2. Panolam Industries International, Inc; Nevamar Standard HPL.
   3. Panolam Industries International, Inc; Pionite Standard HPL.
   4. Wilsonart LLC; High Pressure Laminate (HPL).

B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.

C. Color and Pattern: To be selected by Architect from Manufacturer's full range (standard and premium colors) in standard textured finish (textured gloss, fine textured, or suede finish). High gloss, heavy textured, metallic, or other special surface products (abrasion-resistant, chemical-resistant) will not be required for use in this project.

D. Provide specific types as follows:
   1. Horizontal Countertop Surfaces: HGS, 0.048 inch (1.2 mm) nominal thickness.
   2. Vertical Surfaces and Non-Countertop Horizontal Surfaces: VGS, 0.028 inch (0.7 mm) nominal thickness.
   3. Cabinet Liner: CLS, 0.020 inch (0.5 mm) nominal thickness.

4. Laminate Backer: BKL, 0.020 inch nominal thickness, undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.

2.07 SOLID SURFACING MATERIAL

A. Solid Surfacing Material: ISFA 2-01.
   1. Products:
      a. Avonite Surfaces, a Brand of Aristech Surfaces, LLC; Avonite.
      b. E. I. du Pont de Nemours and Company; Corian.
      c. Formica Group; Solid Surfacing.
      d. Hanwha L&C; Hanex. (Basis of Design)
      e. LG Hausys America; HI-MACS.
      f. Lotte Advanced Materials Co. Ltd.; Staron.
      g. US Surface Warehouse; LivingStone.
      h. Wilsonart LLC; Solid Surface.
   2. Thickness: 1/2-inch.
   3. Type: Standard Type.
   4. Color and Pattern: To be selected by Architect from manufacturer's full range.

2.08 COUNTERTOPS

A. Fabricate in accordance with AWI/AWMAC/WI (AWS), Section 11 - Countertops, Custom Grade and with manufacturer's requirements.

B. Solid Surfacing Countertops and Window Stools: Solid surfacing sheet or plastic resin casting over structural substrate/core material.
   1. Solid Surfacing Sheet and Plastic Resin Castings: Complying with ISFA 2-01 and NEMA LD 3; acrylic or polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.
   2. Core: Fabricate solid surface countertop core of manufacturer's recommended moisture-resistant MDF. Provide continuous structural substrate at unsupported/overhang conditions; ladder construction acceptable over cabinets. Build up core material for total countertop thickness indicated.
   3. Fabricate in accordance with manufacturer's standard requirements, and in one piece to the greatest extent possible.
      a. Shop-fabricate cutouts and holes in solid surface for plumbing fixtures, deck-mounted soap dispensers, and other items indicated on Drawings.
   4. Provide manufacturer's standard configuration for exposed edges, back and end splashes, and per the requirements below:
      a. Edge and Corner Profiles: Eased.
      b. Provide built up edges to standard thickness indicated (1-1/2 inches unless otherwise indicated).
      c. Provide 4 inch high back and end splashes, unless otherwise indicated.
   5. Window Stools: Scribe window stools to fit jamb conditions as indicated.

2.09 ACCESSORIES & ACCESSORY MATERIALS

A. Adhesive: Type recommended by fabricator to suit application.

B. Plastic Edge Banding: Extruded PVC, flat shaped; smooth finish; of width to match component thickness.

1. Provide 3 mm edge banding at all door and drawer front edges and laminate countertop edges.
2. Provide 0.5 mm edge banding (tape) at cabinet body edges, shelf edges, and other semi-exposed/exposed interior edges.
3. Color: To be selected by Architect from Manufacturer's full range.

C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.

D. Concealed Joint Fasteners: Threaded steel.

E. Grommets: Standard plastic grommets for cut-outs, in black color unless otherwise indicated.
1. Grommet Size: To fit 2-1/2 inch diameter cut-out, nominal, unless otherwise indicated.
2. Grommets shall have removable caps and slot for wire passage.

F. Undercounter Wire Management: Provide the following, as indicated:
1. Vinyl J-shaped channel wire manager for undercounter mounting, continuous for full length of countertop.

2.10 HARDWARE

A. Support Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.

B. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated shelf rests, polished chrome finish, for nominal 1 inch spacing adjustments.

C. Workstation Brackets: Fixed, L-shaped, corner reinforced, face-of-stud mounting. Provide at all countertop/worksurface that is unsupported by cabinetry at 16 inches o.c., unless otherwise indicated.
1. Materials: Formed steel shapes.
a. Finish: Manufacturer's standard, factory-applied, textured powder coat.
b. Color: To be selected by Architect from manufacturer's full range.
2. Load Capacity: 1000 lbs minimum per pair of brackets, tested at 16 inches o.c. spacing.
3. Size: Provide nominal sizes below. Provide additional sizes as required for other countertop/workstation applications indicated on Drawings.
a. Provide 21 inches high by 28 inches deep for standard 30 inch deep countertops.
b. Provide 21 inches high by 21 inches deep for standard 25 inch deep countertops.
4. Products:
a. Rakks Shelving; EH Support Brackets (Basis of Design)
b. A&M Hardware, Inc; Standard Brackets.
c. Best Brackets; ADA Workstation Support Standard Steel Bracket.
d. FastCap; SpeedBrace.
e. Lyman Associates; Counter Top Supports.
f. Substitutions: See Section 016000 - Product Requirements.

D. Cabinet Door and Drawer Pulls: BHMA A156.9, B02011
1. Manufacturers:
a. Hardware Resources, Elements Gibson Cabinet Pull #105-96SN (Basis of Design)
b. Miseno Hardware, Sierra Cabinet Pull #MCPTRP2631BSN
c. Amerock, Rift Cabinet Pull #BP36899G10

d. Richelieu Hardware, Transitional Metal Pull - 795 #BP795160195

2. Finish: To be selected by designer from manufacturer's full color range.
3. Substitutions: See Section 016000 - Product Requirements.

E. Cabinet and Drawer Locks: Keyed cylinder, two keys per lock, master keyed, steel with chrome finish. Provide on all cabinet doors and drawers unless otherwise indicated.

F. Drawer Slides:
1. Type: Full extension.
2. Static Load Capacity: Heavy Duty grade.
a. For standard box drawers under 30 inches wide, provide BHMA Grade 1HD-100 with minimum load capacity of 100 lbf.
b. For file drawers and drawers 30 inches wide or larger, provide BHMA Grade 2HD-200 with minimum load capacity of 200 lbf.
c. For pencil drawer slides, provide 3/4 extension with minimum load capacity of 45 lbf.
3. Mounting: Side mounted.
4. Stops: Integral type.
5. Features: Provide soft close type.
6. Manufacturers:
a. Accuride International, Inc.
b. Fulterer USA.
c. Grass America Inc.
d. Knape & Vogt Manufacturing Company.

G. Filing Cabinet Suspension System: Provide 14-gauge steel file suspension rails, epoxy powder coated. File followers, or other split bottom hardware, are not acceptable.

H. Hinges: Butt type, BHMA A156.9, Grade 1, 2-3/4 inch, 5-knuckle steel with nickel-plated finish. Provide with antifriction bearings and rounded hospital tips.
1. Provide two hinges for doors less than 48 inches high, and three hinges for doors more than 48 inches high.

I. Hinges: Soft Close European style concealed type, BHMA A156.9, B01602, steel with nickel-plated finish.
1. Provide minimum 110 degree opening standard, and 160 degree opening at ADA sink base cabinets.

2.11 ACCESSORIES

A. Countertop Galley Tipping Rail System: Stainless steel; round posts, rods, all required rail parts
1. Manufacturers:
a. Hafele; Gallery Rail system, "Article Number 812.20.602" (Basis of Design)
b. Brass Hardware; "The Orgin Tipping Rail"
c. Pepe & Carols; "Mini Modern Brass Gallery Shelf Rail"
d. Bar Fittings Ltd; "Contemporary Shelf Fiddle Rail Brackets"
e. Rejuvenation; "Modern Tall Gallery Rail"
f. Substitutions: See Section 016000 - Product Requirements.

B. Keyboard Tray: Integral ball-bearing slides; adjustable tilt, palm rest, cable management, and mouse pad.
1. Manufacturers:
a. Richelieu Hardware, #504205100 Keyboard Tray (Basis of Design)

b. Accuride International, Inc; CBERGO-Tray 200.
c. Doug Mockett; #KP7 / M2-90.
d. Fulterer; #FR 1602.
e. Knape & Vogt; # KD-110.
f. WorkRite Ergonomics; Banana Board.
g. Substitutions: See Section 016000 - Product Requirements.

2.12 MISCELLANEOUS INTERIOR WOODWORK / CARPENTRY ITEMS

A. Quality Standard: Provide Custom Grade for all interior woodwork / carpentry items, in accordance with AWI/AWMAC/WI (AWS), unless noted otherwise.

B. Refer to Section 064400 - Custom Courts Woodwork and Casework for premium grade woodwork / carpentry items located within courtrooms. Items below ap

C. Trim and Molding: Provide ornamental molding profiles for door trim, chair rail, and crown molding. Profile shall be selected from woodworker's stock profiles that match indicated profile and size on Drawings.
1. Species and Cut (Transparent Finish): Where transparent stained finish is indicated, provide plain sliced cherry unless otherwise indicated.
2. Species (Opaque Finish): Provide paint grade, oak or other hardwood species as indicated.
3. Joints: Provide scarf joints at end-to-end joints and mitered joints at returns and outside and inside corners. Joints shall be tightly fitted and shall have full contact between the two pieces for the full length of the joint.
4. Provide flat trim pieces with backout/relief cuts on rear face to prevent warping or cupping, except where end will be exposed in the finished work.

D. Wood Veneered Panels: Fabricated flat panels complying with HPVA HP-1, with hardwood plywood core of species compatible with indicated veneer.
1. Panel Thickness: 3/4 inch.
2. Veneer Species and Cut: Cherry, plain sliced, book-matched, and architectural end match. Veneers on each panel shall be balance matched for consistent width.
a. Veneer shall be selected such that all veneers within each space shall be well matched for grain and color.
3. Exposed ends and edges shall match faces.
4. Outside corners shall be mitered and splined.
5. Reveals: Unless decorative metal reveals are indicated, provide black painted substrate prior to installation of panels.
6. Metal Reveals: Decorative millwork trim; 1/2-inch wide by depth matching wood panels (3/4-inch standard), straight edge reveal without front flanges; fabricated of ASTM B221 extruded aluminum, 6063-T5 alloy. Finish shall be selected from manufacturer's full range of anodized and powder coated finishes.
a. Manufacturers:
1) Basis-of-Design: Fry Reglet; Model MWR7550.
2) Flannery, Inc.
3) Gordon, Inc.
4) Pittcon Industries.
5) Tamlyn.

E. Closet and Utility Shelving: Provide 3/4 inch thick panels and cleats with closet rod mounted to cleats below shelf.
   1. Shelf Material: Decorative thermoset panels, with PVC T-mold edge.
   2. Rod and Flange Material: 1-5/16 inch diameter, aluminum tube, with matching flanges.

2.13 FABRICATION

A. Assembly: Shop assemble casework items for delivery to site in units easily handled and to permit passage through building openings.

B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.

C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
   1. Fittings and Fixture Locations: Cut and drill components for fittings and fixtures.
   2. Scribes and Fillers: Panels of matching construction and finish, for locations where cabinets do not fit tight to adjacent construction.
   3. Seal or prime paint concealed cut edges of wood and laminate casework.

D. Hardware Application: Factory-machine casework members for hardware that is not surface applied.

E. Apron Frames: Construction similar to other cabinets, with modifications.
   1. Frames fabricated from panels standard with the manufacturer. Include front and back panels, with drawer suspension framing mechanically fastened to support channels spanning between them.

F. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel exposed edges.

G. Solid Surfacing: Fabricate in one piece to greatest extent possible; join pieces with adhesive sealant and finish joints smooth in accordance with manufacturer's recommendations and instructions.
   1. Fabricate with butt-jointed / square edge at all solid surface corners. Mitered solid surface corners are not acceptable.

H. Countertop Fabrication: Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
   1. Fabricate to overhang fronts and ends of cabinets 1 inch except where top butts against cabinet or wall, or as indicated.
   2. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.

I. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
   1. Height: 4 inches, unless otherwise indicated.
   2. Mechanically fasten back and end splashes to countertops with steel brackets at 16 inches on center.

J. Wall-Mounted Counters (not mounted over cabinets): Provide ADA compliant knee space with brackets, skirts, or aprons, as indicated on Drawings.

2.14 SHOP FINISHING

A. Sand work smooth and set exposed nails and screws.

B. On items to receive transparent finishes, use wood filler matching or blending with surrounding surfaces and of types recommended for applied finishes.

C. Finish work in accordance with AWI/AWMAC/WI (AWS), Section 5 - Finishing for grade specified and as follows:
   1. Transparent:
      a. System - 3, Lacquer, Postcatalyzed OR System - 5, Varnish, Conversion.
      b. Stain: As selected by Architect.
      c. Sheen: Satin.

PART 3 EXECUTION

3.01 EXAMINATION

A. Site Verification of Environmental Conditions:
   1. Do not deliver woodwork or casework until the following conditions have been met:
      a. Building has been enclosed (windows and doors sealed and weather-tight).
      b. An operational HVAC system that maintains temperature and humidity at occupancy levels has been put in place.
      c. Ceiling, overhead ductwork, piping, and lighting have been installed.
      d. Installation areas do not require further “wet work” construction.

B. For Base Cabinets Installation: Examine floor levelness and flatness of installation space. Do not proceed with installation if encountered floor conditions required more than 1/2 inch leveling adjustment. When installation conditions are acceptable, for each space, establish the high point of the floor. Set and make level and plumb first cabinet in relation to this high point, and provide field modifications as required to not exceed maximum height dimensions.
   1. Construction tolerances shall not apply to casework maximum height dimensions; maximum indicated dimension shall be maintained at any point along the length of casework, regardless of floor levelness.
   2. Field modifications shall be made to the toe kick to account for leveling due to floor levelness.

C. For Wall Cabinets Installation: Examine wall surfaces in installation space. Do not proceed with installation if the following conditions are encountered:
   1. Maximum variation from plane of masonry wall exceeds 1/4 inch in 10 ft and 1/2 inch in 20 ft or more, and/or maximum variation from plumb exceeds 1/4 inchper story.
   2. Maximum Variation of finished gypsum board surface from true flatness: 1/8 inch in 10 feet in any direction.

D. Verify adequacy of backing and support framing.

E. Verify location and sizes of utility rough-in associated with work of this section.

3.02 INSTALLATION

A. Install work in accordance with AWI/AWMAC/WI (AWS) requirements for grade(s) indicated and in accordance with manufacturer's instructions.

B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.

C. Use fixture attachments in concealed locations for wall mounted components.

D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.

E. Secure cabinets to floor using appropriate angles and anchorages.

F. Fasten together cabinets in continuous runs, with joints flush, uniform and tight. Misalignment of adjacent units not to exceed 1/16 inch. In addition, do not exceed the following tolerances:
   1. Variation of Tops of Base Cabinets from Level: 1/16 inch in 10 feet.
   2. Variation of Bottoms of Wall Cabinets from Level: 1/8 inch in 10 feet.
   3. Variation of Faces of Cabinets from a True Plane: 1/8 inch in 10 feet.
   4. Variation of Adjacent Surfaces from a True Plane (Lippage): 1/32 inch.
   5. Variation in Alignment of Adjacent Door and Drawer Edges: 1/16 inch.

G. Secure wall cabinets at top and bottom, at each end and no more than 16 inches on center. Secure directly into metal wall framing, or into FRT wood or metal channel blocking with No. 10 wafer head screws. Wall mounted hanger strips are not acceptable.

H. Countertops: Install countertops intended and furnished for field installation in one true plane, with ends abutting at hairline joints, and no raised edges.

I. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.

3.03 ADJUSTING

A. Test installed work for rigidity and ability to support loads.

B. Adjust moving or operating parts to function smoothly and correctly.

3.04 CLEANING

A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

3.05 PROTECTION

A. Do not permit finished casework to be exposed to continued construction activity.

B. Protect casework and countertops from ongoing construction activities. Prevent workmen from standing on, or storing tools and materials on casework or countertops.

C. Repair damage, including to finishes, that occurs prior to Date of Substantial Completion, using methods prescribed by manufacturer; replace units that cannot be repaired to like-new condition.

END OF SECTION 064100

SECURITY TYPICAL ONE-LINE DIAGRAM

KEYNOTES

APPLIES TO SINGLE LINE DIAGRAM
REPRESENTED BY (n)

1. EXTERIOR POLE MOUNTED CAMERAS/INTERCOM SHALL USE FIBER OPTIC CABLE FOR VIDEO, AUDIO, AND DATA TRANSMISSION.
2. ALL FIBER OPTIC CABLING FOR SECURITY NETWORK, CATEGORY 6 CABLING FOR CAMERAS, AND SECURITY SERVERS/WORKSTATIONS SHALL BE INSTALLED, TERMINATED, AND TESTED PRIOR TO USE. PROVIDE FIBER BACKBONE FOR NETWORK INFRASTRUCTURE BETWEEN BUILDINGS.
3. PROVIDE SMS SERVER IN SECURITY ELECTRONICS ROOM 0016. CONNECT TO KVM IN RACK FOR CCTV SERVERS.
4. ALL POWER TO SECURITY HEADEND EQUIPMENT AND ASSOCIATED FIELD COMPONENTS SHALL BE CONNECTED TO EMERGENCY / GENERATOR POWER (THROUGH AN SCSC PROVIDED UPS).
5. PROVIDE A SECOND NETWORK CARD ON ALL CCTV SERVERS AND SMS/ACS SERVER FOR USE BY THE COUNTY.
6. PROVIDE CAPABILITY TO CUT OFF WATER AND LIGHTING VIA TOUCHSCREEN.
7. PROVIDE AN ALARM DIALER TO SEND ALL SECURITY ALARMS TO 911 FOR AFTER HOURS WHEN TOUCHSCREENS ARE NOT LOGGED IN.
8. INTEGRATE WITH OWNERS EXISTING CITY-WIDE ISONAS SYSTEM. INTEGRATE WITH DETENTION SYSTEM FOR ANNOUNCATION OF ADMIN DOOR ALARMS.

AD-01R

ONE-LINE DIAGRAM GENERAL NOTES

A. SECURITY CONTROL SYSTEM CABLING AND WIRING INDICATED IS DIAGRAMMATIC ONLY. IT IS INTENDED TO SHOW PROPOSED LOCATIONS OF MAJOR COMPONENTS OF THE SECURITY CONTROL SYSTEM AND THEIR INTERCONNECTION.

B. NO CONDUIT SIZES OR QUANTITIES NOR CONDUCTOR TYPES OR QUANTITIES ARE INDICATED. THE SECURITY CONTROL SYSTEM CONTRACTOR'S (SCSC) INDIVIDUAL CONTROL SOLUTION WILL DETERMINE THE EXACT CONDUIT AND CONDUCTOR REQUIREMENTS. REFER TO DRAWINGS FOR QUANTITIES AND LOCATIONS OF INDIVIDUAL SECURITY CONTROL SYSTEM EQUIPMENT AND DEVICES. REFER TO DIVISION 26 ELECTRICAL FOR POWER.

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STAUNTON J&DR COURTS FACILITY

2040 WEST BEVERLEY STREET
CITY OF STAUNTON, VA 24401

PROJECT NO: 630874
DATE: MARCH 1, 2024

REVISIONS	
DATE	DESCRIPTION
03/14/24	AD-01R

SECURITY ELECTRONICS ONE LINE DIAGRAMS

SE4.0

3/13/2024 10:38:59 AM

SECTION 285300 – ACCESS CONTROL SYSTEM **(*AD-01R)**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Provisions of the Contract and of the Contract Documents apply to this section.

1.2 SUMMARY

A. Provide and install as shown on the Drawings and herein specified a complete and operable Access Control System. Readers shall consist of proximity readers, proximity reader/keypads, and other access control system devices. Upon correctly entering a personal ID code or presenting a proximity card / keyfob, the system shall grant access to a controlled device or resource

B. **Provide 2 separate access controls systems. One system for the administrative portion of the building and a second and completely independent system for the detention portion of the building (doors with a "D" prefix). (*AD-01R)**

C. **Provide Isonas system from Allegion to stay consistent with Owner standard for the administrative portions of the building and integrate it with the Owners existing city-wide system. (*AD-01R)**

D. Provide a second standalone system from the list of approved manufacturers for the detention portion of the building (doors with a "D" prefix) that ~~System~~ shall be independent of any existing card access systems. This system shall not be cloud based and must remain on the isolated security network only. Coordinate with the owner all the card, keyfob or other credential types being used by the owner and provide a system that will work with those existing credentials. (*AD-01R)

E. The Access Control System shall be installed in accordance with all applicable NEC, and local building codes. All equipment shall be UL labeled. All equipment shall be compatible

F. The Access Control System shall interface to the Fire Alarm System as required to meet all required Fire and Life Safety Codes

~~**G. The system shall use Mercury boards for the hardware control with the OSDP platform. (*AD-01R)**~~

H. The system shall include, but not be limited to, the following
1. Proximity card readers
2. Proximity card & keypad combo readers
3. Control Processors
4. Alarm monitoring modules
5. Output relay modules
6. Access control proximity cards & key fobs
7. PC running the Card Access System's Software
8. All required licenses to function completely and expand 25%.
9. I.D. Photo Access Cards with identification images and logos
10. Support Biometric readers

11. Support Magnetic stripe card readers
12. Support keypads & pin pads

I. Provide archive/purge and backup utilities for database maintenance.

J. The Access Control System's database shall be fully integrated with the database of the Security Management Server (SMS), allowing the token user's Name, not ID code, to be logged by the SMS upon any use of a token reader. The system shall log all access control events, including access granted, access denied, and duress codes used. All access control events shall be associated with the token user's Name. Provide secure lock operation and maintain audit trail, even when the server or the network is unavailable.

K. The Access Control System's database shall be capable of a minimum of 5,000 user accounts. The Access Control System shall be capable of supporting 100 client licenses. Access Control system database shall be Microsoft SQL 2008 or better.

L. The Access Control System shall be a robust, user-friendly, easily expandable solution. Users shall be added, modified, and deactivated using a Windows-based GUI interface. Each user shall be given customized access rights to controlled devices and other resources based on the time of day, day of the week, and restricted dates. In addition, users must be able to be assigned to customized user groups, which system administrators shall be able to create in order to streamline the access management process and tailor it to their own needs.

M. The Access Control System shall integrate seamlessly with the Security Control System to visually alert operators when a door has been accessed via the reader system and shall allow VGUI operators to isolate (disable) individual readers to prevent access. The SMS shall be able to log requests at doors with an isolated reader. Users shall be capable of entering Duress Codes at proximity reader/keypads, which shall activate a duress alarm at that location on one or more VGUI's. The same level of integration shall also be seen on the SMS, which shall record the user's Name and time when a resource is accessed and shall include a full range of reporting features. Login to the Access Control software shall be password protected and access shall be logged to the SMS.

N. The access system shall not directly open any doors. It shall make door open requests of the PLC System. The PLC System shall verify interlocking of the requested door and status of the reader prior to any unlocking.

O. The system shall also have a fully integrated, Windows-based help system. The system shall also have context sensitive help.

P. The system shall have a lockout feature after an invalid access code has been entered four times on a keypad.

Q. The system shall be programmable with a master code so that access can be granted through a card reader/keypad combo device with only the master keypad code and no proximity card.

R. Provide hardware and software as a single integrated application for all of the following:

1. Online locks that are programmed and controlled via a central computer which communicates via the network to controllers which are then wired to the individual door locations.
2. Offline locks which may become disconnected from a central computer system, but are managed and programmed by the same software application.

1.3 CARD ACCESS CLIENT VIEWING STATION COMPUTER:

A. Central Equipment: Provide a Client station with Card Enrollment equipment as indicated on the drawings. All central equipment power shall be provided from emergency circuits. Additional UPS or Battery Backup power shall be provided for all central equipment to provide error free operation. Central equipment shall include but not be limited to the following:

1. Intelligent Controller: Supports up minimum of 8 readers. Firmware for 10,000 cardholder records and 1,000 transactions. Shall support both proximity readers and keypads simultaneously for each door. Systems shall be capable of optionally supporting LAN or WAN communications using TCP/IP.
2. Access Control Software shall operate on Windows 10 or better. Software shall include Administration, Event Monitoring, Status Windows, and multiple application windows open simultaneously, Software shall also include the following.

1.4 SOFTWARE FEATURES

A. User Configuration Functions: A user shall include any individual that uses the access control system to access resources, such as a door, software application, or VGUI. A user shall also include an administrator who is using the access client software to add users and set permissions and rules. User configuration functions shall include the following:

1. Creating a New User
   a. Provide a User Configuration screen that shall allow the operator to create a new user or display information about current users. The information fields displayed shall include the following; Last Name, First Name, Middle Name and ID Number. The ID Number shall be any combination of letters and numbers up to a maximum of 50 characters
   b. Optionally, a User Type shall be capable of being selected: Types shall include (None), Staff, and Visitor. A user type of Inmate or Staff must be selected when using the work release or time and attendance tracking features respectively
   c. Any custom user information shall be capable of being entered into the Additional Information tab
   d. An image shall be capable of being associated with a user and stored in the SMS database for retrieval from the client software or VGUI(s)
2. Modifying a User (Searching)
   a. Provide a means to modify information about existing users
   b. Provide a User Search dialog box that, by default, displays all active users in the database. The User Configuration screen for each user shall be displayed upon the selection of a user in the database
   c. Provide a means to facilitate a more refined search. The operator shall be capable of selecting a field (i.e. – Last Name, First Name, ID Number, token, etc.) to search on in a "Search" list and typing the desired text in a "For" box. The operator shall also be capable of searching for deactivated accounts by means of a checkbox selection
3. Acquiring an Image for a User
   a. Provide a means to capture an image and associate it with an individual user in the database
   b. Provide an Image Acquire screen that shall allow an operator to capture an image via an image capture device (i.e. – USB camera). Provide a drop-down list of available image capture devices
   c. Provide a preview window that displays a live video stream. Depending upon the options available for the selected image capture device, provide Format, Source,

Compression, and Display buttons to allow the operator to fine-tune the video stream

d. Provide an Image Capture button for the operator to select once the user is positioned properly in the preview window. Once selected, the image shall appear in a separate user image window. Provide a means to assign the captured image to the user

4. Importing an Image for a User
   a. Provide a means to import an image and associate it with an individual user in the database
   b. Provide an Import Image screen that shall allow an operator to import an existing image. Provide a window for the operator to browse to an existing image and open the image once it is found
   c. Provide an outlined area (or box) showing the size of the user image window. If the imported image is larger than the user image window, the operator shall be able to relocate the image box by holding down the left mouse button and dragging the box to the desired location within the image. Provide a means to assign the imported image to the user
5. Assigning Permissions to a User
   a. Provide a means to allow users access to system resources
   b. Provide an Assign Permissions tab within the User Configuration screen. This screen shall show a list of all system resources. Each resource shall include a checkbox to allow access to that particular resource. Provide a "filter" box with drop down menu to allow the operator to select and display a particular type of resource. Resource types shall include, but not be limited to, the following; Doors, VGUI's, Access Control System Client software, SMS client, etc
   c. Provide Check All and Uncheck All buttons for the operator to select to simplify the assignment of permissions
6. Assigning a User to User Groups
   a. Provide a means to allow users to be assigned to User Groups. A User Group shall be defined as a specific group of users who share the same permissions and rules. When a user is assigned to a group, they shall receive the same permissions and rules that the group has, in addition to their own individual permissions and rules. Users shall be capable of belonging to more than one user group
   b. Provide an Assign Groups tab within the User Configuration screen. This screen shall show a list of all user groups in the system. Each group shall include a checkbox to assign the user to that particular group
7. Assigning Rules to a User
   a. Provide a means to assign rules to a user. Assigning rules to a user shall allow the user's permissions to be restricted to specific days of the week, as well as specific times of the day. Provide a means to have a user's access to activate or expire on a specific day or prevent them from using permissions on restricted dates
   b. Provide an Assign Rules tab within the User Configuration screen. Provide an 'Allow access only on selected days of the week' checkbox for users that are allowed access only on specific day(s). Provide checkboxes for each day of the week for the operator to select for days they want the user to have access on
   c. Provide an 'Allow access only during time range' checkbox for users that are allowed access only during specific times. Provide time configuration boxes for

'No earlier than' and 'No later than' that include the time in hours, minutes and seconds. Provide indications for "AM" and "PM"

d. Provide an 'Unrestricted Access' checkbox to select for users that have no access restrictions based on the time of the day and the day of the week
e. Provide an 'Access has activation date' checkbox for users that have permissions that should not begin until a later date. Provide a drop-down calendar tool to set the activation date
f. Provide an 'Access has expiration date' checkbox for users that have permissions that should expire on a certain date. Provide a drop-down calendar tool to set the expiration date
g. Provide an 'Allow access on restricted dates' checkbox for users that are allowed access on restricted dates

8. Assigning Tokens to a User
   a. Provide a means to assign tokens to a user. Assigning Tokens to a user consists of assigning items such as a PIN code, Duress Code, proximity card number, password, etc. that the Access Control System uses to identify a user
   b. Provide an Assign Tokens tab within the User Configuration screen. All tokens assigned to a particular user shall be displayed on this tab
   c. Provide information fields for the following tokens: Proximity Card, Personal Identification Number, Duress Code and User Name and Password
   d. Provide a Proximity Card field that shall be used to assign a proximity card or keyfob ID number to the user. For this feature, a proximity reader enrollment station may be used. The operator shall activate an Enroll button and swipe a proximity card or keyfob at the enrollment reader. The proximity ID will appear in the field when the card or keyfob is read
   e. Provide a Personal Identification Number field that shall be used to assign a unique number to a user for use with proximity readers with a keypad option. Upon correct entry of a personal identification number at a keypad, the user shall be granted access to the resource. The personal identification number shall be up to a maximum of 12 digits long, and unique for all users
   f. Provide a Duress Code field that shall be used to assign a unique number to a user for use with proximity readers with a keypad option. Upon correct entry of a duress code at a keypad, the local and Central Control VGUI(s) shall be notified that a duress alarm exists. The duress code shall be a maximum of 13 digits long
   g. Provide User Name and Password fields that shall be used to assign a unique user name and corresponding password for the purpose of accessing VGUI's and the access control system client software
   h. Provide for a replacement card to automatically invalidate the user's previous lost card
9. Creating a New User Group
   a. Provide a means to create User Groups, which shall allow the operator to easily assign the same permissions and rules to many users
   b. Provide a Group Configuration screen that shall allow the operator to create a new group or display information about current groups. The information fields displayed shall include the following; Group Name
10. Modifying a User Group (Searching)
    a. Provide a means to modify information about existing user groups

b. Provide a User Group Search dialog box that, by default, displays all active user groups in the database. The User Group Configuration screen for each user group shall be displayed upon the selection of a user group in the database
c. Provide a means to facilitate a more refined search. The operator shall be capable of selecting a field (i.e. – Group Name, Resource Type, Resource Name) to search on in a "Search" list and typing the desired text in a "For" box

11. Assigning Permissions to a User Group
    a. Provide a means to allow user groups access to system resources
    b. Provide an Assign Permissions tab within the User Group Configuration screen. This screen shall show a list of all system resources. Each resource shall include a checkbox to allow access to that particular resource. Provide a "filter" box with drop down menu to allow the operator to select and display a particular type of resource. Resource types shall include, but not be limited to, the following; Doors, VGUI's, Access Control System Client software, SMS client, etc
    c. Provide Check All and Uncheck All buttons for the operator to select to simplify the assignment of permissions
12. Assigning Rules to a User Group
    a. Provide a means to assign rules to user groups. Assigning rules to a user group shall allow the user group's permissions to be restricted to specific days of the week, as well as specific times of the day. Provide a means to have a user group's access to activate or expire on a specific day or prevent the group from using permissions on restricted dates
    b. Provide an Assign Rules tab within the User Group Configuration screen. Provide an 'Allow access only on selected days of the week' checkbox for user groups that are allowed access only on specific day(s). Provide checkboxes for each day of the week for the operator to select for days they want the user group to have access on
    c. Provide an 'Allow access only during time range' checkbox for user groups that are allowed access only during specific times. Provide time configuration boxes for 'No earlier than' and 'No later than' that include the time in hours, minutes and seconds. Provide indications for "AM" and "PM"
    d. Provide an 'Unrestricted Access' checkbox to select for user groups that have no access restrictions based on the time of the day and the day of the week
    e. Provide an 'Access has activation date' checkbox for user groups that have permissions that should not begin until a later date. Provide a drop-down calendar tool to set the activation date
    f. Provide an 'Access has expiration date' checkbox for user groups that have permissions that should expire on a certain date. Provide a drop-down calendar tool to set the expiration date
    g. Provide an 'Allow access on restricted dates' checkbox for user groups that are allowed access on restricted dates
13. Assigning Users to a User Group
    a. Provide a means to assign users to user groups. When a user is assigned to a user group, they receive the permissions and rules of the user group in addition to their own rules and permissions
    b. Provide an Assign Users tab within the User Group Configuration screen. Each user in the database shall be displayed. Each user shall include a checkbox to assign the user to that particular group

B. Administrative Configuration Functions: Provide administrative-level tools to enhance and customize the functionality of the access control system software
   1. Adding/Modifying/Deleting User Information Types
      a. Provide a User Information Type screen that shall allow the administrator to create new, modify existing, or delete existing information fields for users. Information types (i.e. – address, phone number, etc.) shall be defined by the administrator on this screen. The administrator shall be capable of assigning a display order for each information field. A minimum of 1000 administrator-definable user information types shall be available
      b. Once defined, these fields shall be displayed in the User Configuration screen. Provide an Additional Information tab within the User Configuration screen. All additional information specific to a particular user shall be displayed on this tab
   2. Adding/Modifying/Deleting Restricted Dates
      a. Provide a Restricted Dates screen that shall allow the administrator to create new, modify existing, or delete existing restricted dates. Restricted Dates shall be used to control access on Holidays or other user-defined dates. Restricted dates shall be defined by the administrator on this screen. The administrator shall be capable of assigning a name, as well as a date for the restricted date on this screen. A minimum of 1000 administrator-definable restricted dates shall be available
      b. Once defined, access on restricted dates shall granted by going to the Assign Rules tab within the User Configuration screen, and checking the 'Allow access on restricted dates' checkbox
   3. Reporting Features: The access system shall have the following reporting features
      a. User Profile Report: This report shall provide information in a document format on the user, such as full name, ID Number, and whether the account is activated or deactivated. This report shall also detail what group(s) the user belongs to, as well as what resources the user has permission to access. The rules for the user shall also be listed in the User Profile Report
      b. Resource Report: This report shall provide information in a document format on a particular resource. This report shall detail the specific resource chosen, as well as what group and user permissions are assigned to the resource
      c. Audit trail available historically or in real time, including standard reports that include, but not limited to:
         1) Invalid access attempts
         2) Time and attendance
         3) Door reader location
         4) Group of readers
         5) Individual cardholder
         6) Operator console activity
         7) History report for an alarm point(s) of state. An alarm point state shall be defined as: Normal, alarm, Trouble, Ajar
         8) History report for card state. A card state shall be defined as: Normal, Trace, Not Found, Anti-Pass violation, Time Zone Violation, Site Code violation or Expired card
      d. Ability to design custom reports
   4. System Backup/Restore: The access system shall have the following administration features

a. Database Backup: This tool shall provide a database management window, which shall allow the database files to be backed up to another directory or external media
b. Database Restore: This tool shall provide a database management window, which shall allow the database files to be restored from another directory or external media
c. Provide automatic backup procedure daily.

5. Badge Designer: The system shall have the following Badge Designer features
   a. Badge Designer Basics: This tool shall be used to create custom badge templates. A badge template can then be assigned to any number of users in order to print custom user badges. The badge designer shall be capable of creating templates for use with badges with similar requirements
   b. Badge Printing: This tool shall be used to allow for edge-to-edge card printing
6. Software shall have ability to partition control of the system by user ID.
   a. Allow multiple administrators with partition control.
   b. Allow a minimum of four administrators with ability to create security levels per operator.
   c. The cardholder database must be shareable across partitions.
   d. Must be able to create cardholders that are only accessible from a single partition.
   e. Hardware components (locks, readers, controllers, etc.) must be able to be assigned to a particular partition or shared across multiple partitions.
7. The system shall automatically adjust the time of the system for Daylight Savings changes.
8. The system shall cause an alarm when controllers go off-line.

1.5 SUBMITTALS

A. Refer to Section 285000 for submittal requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS (*AD-01R)

A. Isonas (Allegion)

B. Identicard

C. Galaxy Control Systems

D. Lenel/S2

E. Johnson Controls

F. RS2 Technologies

G. MTI

H. Approved equal

2.2 ACCESS CONTROL SYSTEM (FILE) SERVER / CARD ACCESS CLIENT STATION COMPUTER

A. Provide a ACS File Server, Card Enrollment equipment and Client stations as indicated. This file server shall be permanently connected to PLC via Ethernet. File Server and Client Station computers shall include but not be limited to the following:

1. Access Control Software shall operate on Windows 10 or better. Software shall include Administration, Event Monitoring, Status Windows, and support multiple application windows open simultaneously.
2. The PC-based workstations shall consist of an Intel Core i5-4570 quad core, 3.2GHz turbo processor or better, 512K cache, 8GB 1600MHz DD3 Memory, 250GB hard drive, 2 USB ports, network card for Ethernet operation, CD-ROM drive, sound card, video accelerator, running Windows 10 pro. Provide UPS power for all workstations.
3. This spec shall be exceeded as necessary when multiple systems are combined onto one station.
4. Approved Manufacturers:
   a. HP
   b. Dell

B. Provide at Access Control System station a 24" or larger LCD flat panel monitor with 1280 X 1024 resolution unless otherwise noted.
1. Approved Manufacturers – Dell, Samsung, NEC, HP

2.3 MATERIALS

A. Central Equipment
1. All components used in creating the access control system shall be of the same manufacturer and/or approved by the manufacturer for system compatibility. ~~**All control boards shall be built by Mercury Security OR Mercury Security series 3 using OSDP V2 communications**~~. **(*AD-01R)** Used products shall not be acceptable. Equipment specified herein indicates the types of equipment and the minimum quality of equipment required. It shall be the SCSC's responsibility to assure the compatibility of all access control equipment, software, programming, cable, mounting methods, etc. that are used in providing a complete, fully-functional system.
2. All central equipment power shall be provided from emergency circuits. Additional UPS or Battery Backup power shall be provided for all central equipment to provide error free operation.
3. Intelligent Controller: Supports up minimum of 8 readers. Firmware for 10,000 cardholder records and 1,000 transactions. Shall support both proximity readers and keypads simultaneously for each door. Systems shall be capable of optionally supporting LAN or WAN communications using TCP/IP.

B. Proximity Reader **(*AD-01R)**
1. Coordinate mounting to be 48" AFF or less and to avoid issues with trim or other devices.
2. Dimensions: 3.3" x 4.8" x .95"
3. Power Supply: 5-12 VDC
4. Current Requirements: Average – 50/75mA (12VDC)
5. ~~**Communications: OSDP V2**~~ **(*AD-01R)**
6. Operating Temperature: -40° to 150°F (-40° to 65°C)
7. Operating humidity: 5-95% relative humidity, non-condensing
8. Transmit and Excite Frequency: 125kHz and 13.56MHz
9. The proximity reader shall be a HID Corp. model RP40 ~~OR HID multiCLASS SE RP40, BlueDiamond LNL-R10320-05TB,~~ or approved equal. **For the Isonas system use Isonas**

RC04-PRX-W. Any exterior doors using Isonas must also use a EDK module. (*AD-01R)

10. The proximity reader shall be a HID Corp. model RP10 ~~OR HID multiCLASS SE RP10, BlueDiamond LNL-R10330-05TB,~~ or approved equal when mounted to Mullions or other **narrow locations. For the Isonas system use Isonas RC04-PRX-M. Any exterior doors using Isonas must also use a EDK module. (*AD-01R)**

C. Proximity Reader/Keypad **(*AD-01R)**
1. Dimensions: 3.3" x 4.8" x .95"
2. Power Supply: 5-12 VDC
3. Current Requirements: Average – 50/75mA (12VDC)
4. ~~**Communications: OSDP V2**~~ **(*AD-01R)**
5. Operating Temperature: -40° to 150°F (-40° to 65°C)
6. Operating humidity: 5-95% relative humidity, non-condensing
7. Transmit and Excite Frequency: 125kHz and 13.56MHz
8. The unit shall include an integrated weatherized keypad.
9. The proximity reader/keypad shall be a HID Corp. model RPK40 ~~OR HID multiCLASS SE RPK40, BlueDiamond LNL-R10325-05TB,~~ or approved equal. **For the Isonas system use Isonas RC04-PRX-WK. Any exterior doors using Isonas must also use a EDK module. (*AD-01R)**

D. Proximity Keyfob
1. Dimensions: 1.90" x 0.900" x 0.550"
2. Construction: Ultrasonically welded, ABS shell
3. Operating Temperature: -50° to 160°F (-45° to 70°C)
4. Read range: up to 3"
5. Format: Shall support formats up to 85 bits.
6. The proximity keyfob shall be a HID model 1346 series.
7. Provide 150 keyfobs to the Owner upon final completion.

E. Printable Proximity Access Card
1. Dimensions: 2.125" x 3.375" x 0.033"
2. Construction: Thin, flexible polyvinyl chloride (PVC) laminate
3. Operating Temperature: -50° to 160°F (-45° to 70°C)
4. Read range: up to 7"
5. Format: Shall support formats up to 85 bits.
6. Options: Card shall include external card numbering, vertical slot punch and artwork gloss finish.
7. The proximity access card shall be a HID model 1386-LGSMV.
8. Provide 400 cards to the Owner upon final completion.

PART 3 - EXECUTION

3.1 INSPECTION:

A. Check location, "roughing in", and field dimensions prior to beginning work.

B. Do not begin installation until all unsatisfactory conditions have been corrected.

C. Verify field measurements are as shown on Drawings and as instructed by manufacturer.

D. Verify that required utilities are available, in proper location, and ready for use.

3.2 INSTALLATION/APPLICATION OF ALL SECURITY PRODUCTS:

A. Field testing and inspection will be performed under the provisions of Section 285000.

B. Replace equipment, components, & wiring as required to achieve a fully functional system

END OF SECTION 285300

APPENDIX A: ASBESTOS AND LEAD PAINT SURVEY REPORT (*AD-01R)

The following Asbestos and Lead Paint Survey Report prepared by TRC for the City of Staunton, is dated December 15, 2022 and is included in this Project Manual for information only and is not part of the Contract Documents.

The opinions expressed in these reports are those of the Hazardous Materials Engineer and represent their interpretation of the existing conditions, tests and the results of analyses which they have conducted.

The accuracy or completeness of the data is not warranted or guaranteed by the Owner or the Architect, and in no event is it to be considered part of the Contract Documents. The Owner and Architect expressly disclaim any responsibility for the data as being representative of the conditions and materials which may be encountered.

The data and quantities included in the Hazardous Materials Report shall be used for bidding purposes to determine abatement costs. The Asbestos Abatement Subcontractor shall be responsible for a final inspection of existing conditions to verify location of hazardous materials prior to commencement of demolition.

Note that the survey report contains data and quantities for multiple existing buildings in the commercial shopping center. The Base Bid Work of this project applies to Building/Space 2032 only. The Work of Alternate #1 shall apply to Space 2030 only. The other buildings on the site are existing to remain. (*AD-01)

Approximate Total Footprint Square Footages: (*AD-01R)

Space 2032: 40,826 SF. (*AD-01R)

Space 2030: 27,280 SF. (*AD-01R)

Refer to the following pages.

APPENDIX B: GEOTECHNICAL ENGINEERING REPORT (*AD-01R)

The following Geotechnical Engineering Report prepared by Timmons Group for the City of Staunton J&DR Courts project, is dated December 7, 2023 and is included in this Project Manual for information only and is not part of the Contract Documents.

The opinions expressed in these reports are those of the Geotechnical Engineer and represent their interpretation of the subsurface conditions, tests and the results of analyses which they have conducted. Should the data contained in these reports not be adequate for the Contractor's and/or Bidder's purposes, they may make, prior to bidding, their own explorations, tests and analyses.

The accuracy or completeness of the data is not warranted or guaranteed by the Owner or the Architect, and in no event is it to be considered part of the Contract Documents. The Owner and Architect expressly disclaim any responsibility for the data as being representative of the conditions and materials which may be encountered. Contractors and/or Bidders are encouraged to conduct their own soil and subsurface investigations, examinations, tests and exploratory borings to determine the nature of the soil conditions underlying the Project site.

Refer to the following pages.

GEOTECHNICAL ENGINEERING REPORT

JUVENILE & DOMESTIC RELATIONS DISTRICT COURT FACILITY
2030 WEST BEVERLY STREET
CITY OF STAUNTON, VIRGINIA

JOB NUMBER: 60591

PREPARED FOR:

MOSELEY ARCHITECTS
3200 NORFOLK STREET
RICHMOND, VIRGINIA

December 7, 2023

TIMMONS GROUP

YOUR VISION ACHIEVED THROUGH OURS.

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EXECUTIVE SUMMARY

For your convenience, this report is summarized in outline form below. This brief summary should not be used for design or construction purposes without reviewing the more detailed conclusions and recommendations contained in this report.

1. The subsurface exploration included a visual site reconnaissance, performance of nine (9) Standard Penetration Test borings to depths of approximately 15 to 34 feet below the ground surface, and quantitative laboratory testing.

2. The borings encountered surficial asphalt pavement or topsoil. Below surficial materials, most of the borings encountered existing fill of various stiffness to depths of approximately 4 to 8 feet (typically 6 feet). Otherwise, undisturbed residual soils, weathered rock, and auger refusal materials were encountered. Highly plastic soils (MH, CH) were the predominant soil type encountered in the borings. Auger refusal materials (i.e., boulders) was encountered in one of the borings, at a depth of 24 feet below the ground surface. Rock was then sampled in the boring. Water was not encountered in the borings to the depths explored.

3. The potential for karst features at this site is possible to the presence of dolostone rock, which is generally considered to be susceptible to karst development. Based on our site reconnaissance and exploration of the site, there does not appear to be obvious karst features at the site. However, their potential cannot be ruled out. It is important that the owner be aware of and accept the risk that karst features could be present at the site.

4. Near-surface soils were measured to be of moderate to high plasticity and are very moisture sensitive. As such, we recommend that site grading be conducted during the typically warmer summer months, if possible. Moisture manipulation of structural fill materials should be anticipated. The addition of lime (AASHTO M216) can be used to aid in the drying process.

5. We recommend that building pad soils be undercut to a depth equal to 18 inches below the finished building pad soil subgrade and replaced with imported granular fill materials. If a sufficient low-plasticity soil borrow source can be identified on the site and meet the structural fill requirements of this report, these on-site low plasticity materials may be used in lieu of imported granular materials to backfill the undercut in the building pad. The intent of this recommendation is to create a minimum 18-inch-thick zone of low-plasticity structural fill below the finished building pad subgrade.

6. Soft near-surface soils were encountered in some proposed pavement areas and will likely require undercut.

7. The proposed courthouse building may be supported on shallow foundations bearing in stiff undisturbed soils or new structural fill overlying stiff undisturbed soils. Existing fill is not considered suitable for foundation support and should be over-excavated/replaced below foundations. We anticipate that most of the foundations for the building will require over-excavation of fill beneath them.

8. We recommend the site be considered Seismic Site Classification D based on the current Virginia Building Code.

9. Recommended pavement sections are included in the body of the report.

10. If structural loading and proposed grades differ from those utilized in this report, we must be contacted to confirm or modify the recommendations of this report.

TIMMONS GROUP
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December 7, 2023

Moseley Architects
3200 Norfolk Street
Richmond, Virginia 23230

Attention: Mr. Tony Bell

Re: **Geotechnical Engineering Report**
Juvenile & Domestic Relations District Court Facility
2030 West Beverly Street
City of Staunton, Virginia
Timmons Group Project No. 60591

Mr. Bell:

Timmons Group is pleased to submit this geotechnical engineering report for the referenced project. The objectives of our services were to explore subsurface conditions and provide our geotechnical recommendations for site grading, foundation support, and pavement support.

1. PROJECT INFORMATION

The project site is located at 2030 West Beverly Street in the City of Staunton, Virginia. The project site currently consists of two existing single-story building structures, asphalt paved parking and drive aisle areas, concrete paved areas, and landscaped green areas. A Site Vicinity Map is shown on Figure 1 in Appendix A.

Proposed construction will consist of a two-story District Courthouse building, with a proposed footprint of approximately 17,500 square feet, and new asphalt paved parking/drives. Based on discussions with the project team, we understand that the proposed building will have maximum column and wall loads of 220 kips and 5 kips per linear foot, respectively.

Existing ground surface elevations across the site range from approximately 1548 to 1555 feet Mean Sea Level (MSL) and generally increase from north to south. The proposed building will have a finished floor elevation (FFE) ground floor at elevation 1553.75 feet Mean Sea Level (MSL). Based on current site grades and the proposed finished floor elevation, we expect grading activities will require maximum cuts and fills of 3 to 5 feet to reach finished grades.

2. FIELD EXPLORATION

The field exploration included a visual site reconnaissance by a representative of Timmons Group, performance of nine (9) Standard Penetration Test (SPT) borings (B-1 through B-9). The performance of borings within the actual proposed building area was somewhat limited due to the presence of the existing building. Boring locations were selected by Timmons Group. A representative of Timmons Group established boring locations in the field by using GPS equipment and referencing existing landmarks. Approximate boring locations are shown on Figure 2 in Appendix A. The following is a summary of borings performed for the proposed construction:

- Courthouse Building: Borings B-1 through B-5
- New Pavement: Borings B-6 through B-9

Borings were performed to depths of approximately 15 to 34 feet below the existing ground surface with hollow stem auger drilling techniques. Refusal drilling conditions were encountered in boring B-1 at a depth of 24 feet below existing grade. Split-spoon samples of subsurface soils were taken within soil test borings at approximate 2-foot intervals above a depth of 10 feet and at 5-foot intervals below 10 feet. Several bulk samples of near-surface soil cuttings were also collected from the boring locations. Standard Penetration Tests (SPT) were conducted in conjunction with split-spoon sampling in general accordance with ASTM D 1586. Within one of the borings (B-1), materials refusing auger advancement were cored with an NQ core barrel (total core run of approximately 10 feet). In addition, a "undisturbed" Shelby tube sample was collected from the elastic silt layer at the location of boring B-1 at depths ranging from 5 to 7 feet below grade.

Water levels were measured in open boreholes at the time of drilling. Upon completion, boreholes were backfilled up to the original ground surface with drill cuttings and patched with cold patch asphalt (where applicable). Representative portions of split-spoon soil samples and the bulk samples were returned to our laboratory for quantitative testing and visual classification in general accordance with Unified Soil Classification System (USCS) guidelines.

Boring logs and a generalized soil profile (Figure 3), which present specific information from the borings, are included in the Appendices. Stratification lines shown on the boring logs and profile are intended to represent approximate depths of changes in soil types. Naturally, transitional changes in soil types are often gradual and cannot be defined at particular depths. Ground surface elevations shown on these documents were estimated using a topographic survey of the site and should be considered approximate.

3. LABORATORY TESTING

Laboratory testing was performed on representative split-spoon, bulk, and Shelby tube soil samples obtained from the borings. This testing consisted of natural moisture content, Atterberg limits, grain size analyses, Standard Proctor, California Bearing Ratio (CBR), and one-dimensional

consolidation. Laboratory tests were performed in general accordance with applicable ASTM procedures. Individual laboratory test data sheets are provided in Appendix C. A summary of laboratory test data is provided in the tables below.

Natural Moisture and Classification Tests

Boring	Depth (ft.)	Natural Moisture Content (%)	Atterberg Limits			Grain Size Analysis			USCS Classification
			LL	PL	PI	*% Fines	% Sand	% Gravel	
**B-1	5-7	39.4	73	34	39	89.7	7.7	2.6	MH
B-1	6-8	37.6	67	25	42	90.2	9.8	0.0	CH
B-2	6-8	35.5	60	23	37	92.9	5.5	1.6	CH
B-3	8-10	24.0	50	22	28	77.0	13.6	9.4	CH
B-4	2-4	31.7	69	35	34	89.5	7.9	2.6	MH
B-4	13-15	39.2	67	31	36	99.2	0.8	0.0	CH
B-5	0.5-5	31.3	60	23	37	89.0	9.3	1.7	CH
B-5	6-8	20.8	38	19	19	75.6	12.1	12.3	CL
B-6	2-4	26.6	53	21	32	80.6	9.1	10.3	CH
B-6	0.5-5	27.2	51	20	31	84.3	11.0	4.7	CH
B-8	4-6	35.7	64	26	38	86.6	9.6	3.8	CH
B-9	0.5-5	18.0	38	17	21	65.7	21.7	12.6	CL

*Material passing No. 200 sieve (Clay and Silt); **Shelby Tube Sample

Standard Proctor and CBR Testing

Boring	Depth (ft.)	Natural Moisture Content (%)	Standard Proctor		CBR	% Swell	USCS Classification
			Optimum Moisture Content (%)	Maximum Dry Density (pcf)			
B-5	0.5-5	31.3	23.0	101.2	8.1	0.2	CH
B-6	0.5-5	27.2	20.0	105.5	6.3	0.0	CH
B-9	0.5-5	18.0	14.3	116.9	11.1	0.0	CL

Based on the Atterberg limits testing, near-surface soils are generally of moderate to high plasticity. Based on comparison of natural moisture contents to the optimum moisture contents of the bulk samples, near-surface soils appear wet of optimum moisture. The bulk samples exhibited relatively low swell percentages. Moisture manipulation of some of the near-surface soils will likely be required prior to their re-use as fill. The time of year the grading occurs will likely have a significant impact on the moisture levels of near-surface soils.

An “undisturbed” Shelby tube sample was collected from boring B-1 at depths ranging from 5 to 7 feet below current grade from the soft elastic silt layer. One-dimensional consolidation testing was performed on a Shelby tube soil sample from boring B-1. The results of the consolidation test showed that the tested sample appeared to be over-consolidated.

4. SITE GEOLOGY

4.1 Regional Geology

According to the 1993 Geologic Map of Virginia, the project site is located in the Valley and Ridge Physiographic Province of Virginia. This province is characterized by folded sedimentary rocks of Paleozoic age, weathered to form low, rounded ridges composed of resistant rocks, such as sandstone, and flat valleys composed of less resistant strata, such as shale or limestone. These rocks, formed during the early Paleozoic, subsequently underwent intense compressional forces during several orogenic (mountain building) events that occurred over the next 200 million years, as evidenced by the large and small-scale folding and faulting observed in the Valley and Ridge province. It is this combination of structural deformation with the lithologic properties that influence differential weathering that affected the regional topography, creating northeast-southwest trending sandstone ridges separated by valleys of carbonates and shales.

4.2 Local Geology and Karst Potential

According to the Department of Conservation and Economic Development Division of Mineral Resources, "Report of Investigations 12, Plate 1, Geologic Map of the Staunton Quadrangle, Virginia," the site is underlain by the Beekmantown Group, which consists of alternating layers of dolomite, limestone, and chert. Natural, undisturbed soils in the local area were formed by the chemical and physical weathering of the parent bedrock and are termed "residual" soils.

Rock coring at one boring with the proposed building area indicates that the on-site bedrock consists of dolostone. The dolostone rock formations underlying the site are generally considered to be susceptible to karst development. Karst terrain is characterized by features such as subsurface voids, caverns, sinkholes, closed depressions, and other similar features that are the result of dissolution of soluble bedrock such as limestone and dolostone. The development of karst features typically occurs due to prolonged flow of slightly acidic groundwater through fractures in the bedrock. This is a very slow process that occurs over extended geologic time scales. With time, the fractures enlarge due to gradual dissolving of the bedrock, leading to features such as solution channels or caverns. Sinkholes generally occur when the ground surface above subsurface voids collapses. Dissolution of bedrock can also result in a highly pinnacled bedrock surface due to natural variability in the degree of rock weathering, degree of rock fracturing, and bedrock composition. Karst features can be common at the contact between rock pinnacles and deeply weathered soil profiles.

Within a karst terrain, residual soils typically often become relatively soft with increasing depth, particularly near the bedrock surface. The residual soils in karst terrain often consist of fine-grained clays and silts.

Development of a site, such as excavation and modification of water drainage patterns, can greatly accelerate karst development. These types of changes have reportedly caused sinkholes to develop rapidly or to collapse suddenly. The potential for development of sinkholes and their rate of development are not easily predicted. Geophysical testing techniques are available which can be used as a supplemental tool in the potential identification of karst features.

Based on review of the referenced publication, no areas of potential karst or sinkhole development have been mapped in the site vicinity. Based on our site reconnaissance and exploration of the site, there does not appear to be any obvious karst features at the site. However, their potential cannot be ruled out. It is important that the owner be aware of and accept the risk that karst features could be present at the site.

5. SUBSURFACE CONDITIONS

The following is a summary of subsurface conditions encountered during the exploration.

5.1 Ground Surface Cover

Ground surface cover varied among the borings. Borings B-4 and B-5 encountered approximately 3 inches of surficial topsoil material. The remainder of the borings encountered approximately 3 to 6 inches of asphalt pavement underlain by 6 to 7 inches of aggregate base material.

5.2 Existing Fill Soils

Beneath the ground surface cover, existing fill soils were encountered in most of the borings (excluding Boring B-4 and B-6) to depths of approximately 4 to 8 feet (typically 6 feet). The fill consisted of soft Elastic SILT (MH), and soft to very hard lean and fat CLAY (CL, CH). The fill material contained varying amounts of Sand, Gravel, and construction debris. The Standard Penetration Test (SPT) N-values within the fill ranged from 2 blows per foot (bpf) to 50 blows in 6 inches of penetration (50/6”). Based on past experience, well-compacted fill soils should exhibit SPT N-values of at least 8 bpf.

5.3 Residual Soils

Beneath the existing fill and below ground surface cover in borings B-4 and B-6, undisturbed residual soils were encountered in the borings to depths of about 15 to 30 feet below the ground surface. The residual soils consisted of soft to stiff Elastic SILT (MH), and soft to stiff lean and fat CLAY (CL, CH). The soils of this layer contained varying amounts of Sand and rock fragments. SPT N-values within the soil profile ranged from 2 to 15 blows per foot (bpf).

5.4 Weathered Rock

Weathered rock was encountered in Boring B-1 at depths from approximately 22 to 24 feet below the ground surface. Weathered rock is defined as residual material having Standard Penetration

Test N-values of 60 blows per foot or greater. Weathered rock was sampled as very hard fat CLAY (CH), with varying amounts of Sand and rock fragments.

5.5 Auger Refusal Materials

Materials refusing auger advancement were encountered in boring B-1 at a depth of roughly 24 feet below the ground surface. We expect that the auger refusal materials generally represent boulders, as weathered rock seams/soil seams were also encountered in the core run. Rock core photographs are provided in Appendix D.

5.6 Groundwater

At the time of exploration, water was not encountered in the borings to the depths explored. It is important to realize that groundwater levels will fluctuate with changes in rainfall and evaporation rates. In addition, perched groundwater could be encountered within near-surface soils and/or near the interface of soil and weathered rock/rock, particularly after rainfall.

6. CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are based upon our borings, laboratory testing, engineering analysis, and past experience with similar projects and subsurface conditions. If the structural loads or future site grades differ from those utilized in this report, we must be contacted to confirm or revise the recommendations of this report.

When reviewing our conclusions and recommendations, it is important to note that prior development activities have occurred at this site. Existing fill was encountered in most of the borings. Based on our experience with previously developed sites, unexpected subsurface conditions could be encountered during construction. These conditions could include debris-laden materials, abandoned utilities, and other unexpected conditions. These conditions, if encountered, can be addressed by on-site engineering evaluation at the time of construction.

6.1 Site Preparation

6.1.1 General

Site grading will be difficult during periods of extended rainfall and low temperatures that generally occur during the late autumn to early spring months. Near-surface soils generally consist of fine-grained Silts and Clays which are very moisture sensitive. If grading is conducted during a wet time period, soils will tend to rut and pump under rubber-tired traffic and provide poor subgrade support for pavements and the building slabs-on-grade. Heavy rubber-tired construction equipment should not be allowed to operate on wet or unstable subgrades at this site due to the potential for rutting and other damage to the soils. To reduce potential earthwork problems, site preparation and grading should be scheduled during the typically warmer summer months, if

possible. We recommend that exposed subgrades be sloped and sealed at the end of each day to promote runoff and reduce infiltration from rainfall.

Site preparation should begin with stripping of topsoil, demolition of existing pavement (where planned), removal of existing utilities (as applicable), and removal of any other unsuitable materials. If desired, the aggregate base beneath existing pavement may be left in place as a working surface during construction, but we do not recommend the aggregate be considered as part of the design pavement section. Approximately 3 to 6 inches of asphalt pavement (underlain by 6 to 7 inches of aggregate base material) or 3 inches of surficial topsoil was encountered in the borings. Topsoil tripping activities often mix near-surface materials with underlying "clean" soils and cause stripping depths to be greater than actual ground surface cover depths, particularly during wet periods of the year. Topsoil, vegetation, and demolition materials should be wasted from the site.

6.1.2 Existing Utilities

We recommend that any existing underground utilities that are present in the proposed building area be relocated at least 15 feet outside of it. Abandoned utilities should be removed from the site. Past experience indicates that poorly compacted fill soils are often located within utility trenches. For utilities that are to be removed, we recommend that trenches be cleaned of all backfill soils and backfilled with structural fill compacted to levels recommended in this report. If certain utility lines must remain in place in their current location, we recommend that the suitability of trench backfill be evaluated on a case-by-case basis.

6.1.3 Subgrade Evaluation

After stripping, exposed subgrades in areas to receive fill and finished subgrades should be evaluated by the Geotechnical Engineer or their representative. To aid the engineer during this evaluation, exposed soil subgrades should be proofrolled with a loaded tandem axle dump truck or equivalent. Proofrolling will help to reveal the presence of unstable or otherwise unsuitable surface materials. The following methods are typically used to repair soil subgrades that are observed to rut, pump, or deflect excessively during proofrolling:

- Undercut the unstable soils to firm soils and replace them with new structural fill.
- In-place repair of near-surface soils by scarifying, drying and re-compacting, when weather conditions are suitable. The addition of lime (defined by AASHTO M216) can be used to aid in the drying process. If lime is used, its mixing with on-site soils should be conducted in accordance with the latest edition of the VDOT Road and Bridge Specifications.

Again, the soils encountered at this site are very moisture sensitive and will likely become unstable under construction traffic, particularly during periods of wet weather. Unstable soils will require repair, and these repairs could be extensive in poor weather. It will be important

that site drainage be properly managed during construction to limit ponding of water on exposed subgrades and that heavy rubber-tired construction equipment traffic is limited on exposed soil subgrades.

6.1.4 Undercut Potential

The following is a discussion of anticipated undercut potential, or repair of soils in proposed building pad and pavement areas.

- Building Pad - Highly plastic soils (liquid limit of 50 or greater or plasticity index of 30 or greater) were the predominant soil type encountered in the borings. Highly plastic soils can have the potential for significant shrink and swell with changes in moisture content. We recommend that building pad soils be undercut to a depth equal to 18 inches below the finished building pad soil subgrade and replaced with imported granular fill materials. If a sufficient low-plasticity soil borrow source can be identified on the site and meet the structural fill requirements of this report, these on-site low plasticity materials may be used in lieu of imported granular materials to backfill the undercut in the building pad. The intent of this recommendation is to create a minimum 18-inch-thick zone of low-plasticity structural fill below the finished building pad subgrade. It is important to note that if subgrade soils are soft at the bottom of the undercut zone, an addition undercut of these soft soils could be required.

- Pavement Areas - Soft near-surface soils were encountered in some proposed pavement areas. Near-surface soils encountered in borings B-1, B-6, and B-7 were relatively soft to depths ranging from 2 to 6 feet below the ground surface. Undercutting and replacement of near-surface soils to depths on the order of 18 to 24 inches should be anticipated in the vicinities of these borings. Additional areas requiring repair may not be discovered until the time of site grading. Prevailing weather conditions will likely have a significant affect on the amount of soil repair needed.

  It should be noted that the majority of the near-surface soils encountered at this site consisted of fill material. Fill material can be highly variable in thickness, compaction, and composition. New pavements may be supported on existing fill materials provided they are stable when proofrolled and are not excessively debris laden. At the time of construction, we recommend that several test pit excavations be performed to explore the near-surface soils to confirm that excessive debris is not present within the near-surface soils. If excessively debris-laden soils are present near finished soil subgrade, undercutting of debris laden soils will be required.

6.2 Excavations

Based on the site plan shown on Figure 2 in Appendix, we anticipate that excavations of up to roughly 5 feet will be required to reach finished grade elevations. Based on these anticipated excavation depths, we expect these excavations will typically extend through low to moderate consistency soils. Past experience indicates that moderate consistency soils can be excavated with routine earth moving equipment.

Soil types with respect to trench safety must be evaluated on a case-by-case basis. The Contractor should be responsible for all site safety, including the determination of appropriate trench safety measures according to OSHA guidelines.

Water was not encountered in the borings to the depths explored. However, shallow perched groundwater could be present within near-surface soils, particularly after rainfall events. The contractor should be prepared to control and remove groundwater seepage that occurs within excavations.

6.3 Re-use of On-site Soils as Structural Fill

Soils encountered in the borings, excluding topsoil or debris-laden soils, may be re-used as structural fill, provided the moisture content can be properly controlled. However, highly plastic soils, which are the predominant soil type encountered in the borings, should not be placed in the final 18 inches relative to finished soil subgrade in the building area. We recommend that imported, low plasticity soils will be placed in this 18-inch thick zone beneath the building pad. Again, if a sufficient low-plasticity soil borrow source can be identified on the site and meet the structural fill requirements of this report, these on-site low plasticity materials may be used in lieu of imported granular materials to backfill the undercut in the building pad.

The soils encountered in the borings will likely require drying by way of disking/aerating or lime treatment if they prove to be wet of optimum moisture and therefore unable to achieve the appropriate degree of compaction at their current moisture levels. The lime percentage needed would be determined by the moisture level of soils at the time of fill placement. If lime is used to dry soils, the lime should meet the requirement of AASHTO M216 and lime mixing should be in accordance with the latest edition of the VDOT Road and Bridge Specifications.

Prevailing weather conditions will have a significant impact on the amount of moisture manipulation (i.e., drying or wetting) required prior to fill placement. At the time of our exploration, near-surface soils appeared near to very wet of optimum moisture. Highly plastic soils (if encountered) are often difficult to dry and manipulate, even during favorable weather conditions.

6.4 Structural Fill

On-site soils used as structural fill should be free of debris, contain less than 5 percent organics, and have a maximum particle size of 3 inches. Our recommendation is that highly plastic soils (liquid limit, LL, greater than 50 or plasticity index, PI, greater than 30) should not be placed within 18 inches of finished soil subgrade in the building area. As previously discussed, a 18-inch thick zone of imported granular fill should be placed directly below the building pad, unless a source of suitable low-plasticity fill can be identified and used in lieu of the imported granular fill. Imported structural fill material should have a plasticity index less than 15, consist of Sand or well-graded Gravel (SP, SM, SC, SW, GP, GW), and otherwise meet the material requirements above.

Structural fill should be placed in maximum 8 to 10-inch loose lifts and compacted to at least 95 percent of the Standard Proctor maximum dry density (ASTM D 698). The final 12 inches of structural fill relative to finished subgrade should be compacted to at least 98 percent of the Standard Proctor maximum dry density. Structural fill should be maintained within 3 percent points of optimum moisture during placement and compaction. Prevailing weather conditions will likely determine the amount of moisture manipulation required for structural fill prior to its compaction.

Site preparation, including fill placement and compaction, should be observed by a qualified soils technician working under the direction of the Geotechnical Engineer. During fill placement, a sufficient amount of in-place density tests should be conducted to confirm that compaction and fill moisture is in accordance with our recommendations.

6.5 Foundations

Based on discussions with the project team, it is our understanding that the maximum column and wall loads for the proposed structure will not exceed 220 kips and 5 kips per linear foot, respectively. Based on the assumed loading, the borings, laboratory testing, and our engineering analysis, the proposed building may be supported on shallow foundations bearing in stiff undisturbed soils or new structural fill overlying stiff undisturbed soils. Existing fill is not suitable for foundation support. Shallow foundations may be designed using an allowable bearing pressure of 2,000 psf. Foundations should bear at least 36 inches below finished building pad soil subgrade due to the presence of highly plastic soils, for frost protection, and to develop the required bearing capacity. Individual column and wall foundation should have a minimum width of 24 inches and 18 inches, respectively.

Existing fill is anticipated to be present throughout most of the proposed building area. Foundation excavations should be evaluated by the Geotechnical Engineer or his representative prior to reinforcing steel and concrete placement. The evaluation should involve probing of foundation bearing surfaces, advancing shallow hand auger borings, and dynamic cone penetrometer (DCP) testing. Where existing fill soils or loose/soft soils or are present at foundation bearing elevations,

neat-line over-excavation and replacement of foundation bearing soils with VDOT No. 57 stone will be required.

If groundwater or surface water runoff collects in any excavation, it should be removed promptly. Care should be exercised during construction of foundations in order not to disturb bearing soils and reduce their bearing strength. Concrete for the foundations should be placed as soon as practical following excavation. If concrete placement is delayed, placement of a concrete "mud mat" should be considered in order to protect exposed foundation bearing soils.

6.6 Foundation Settlement

Based on the assumed structural loads and our analysis, we expect that total foundation settlements for the proposed building additions will be one inch or less, provided that foundations are constructed in accordance with the recommendations presented in this report. Differential settlements should be less should be less than ½ inches for footings bearing on similar materials.

6.7 Slabs-On-Grade

As previously discussed, existing fill soils in building pad areas should be thoroughly evaluated to determine if they may be left in place beneath the future building slab-on-grade. Unsuitable soils, as determined by the geotechnical engineer, should be undercut and replaced with new structural fill materials.

The building's concrete slab-on-grade should be supported on the 18-inch-thick zone of low-plasticity soil fill. It is our opinion that a modulus of subgrade reaction of 100 pci is applicable for slab-on-grade design.

In addition, we recommend that a minimum of 6 inches of VDOT 21B or No. 57 stone be considered for placement beneath concrete slabs in an attempt to protect subgrade soils from the effects of weather during construction and provide greater uniformity in slab subgrade support. We recommend this layer be compacted to at least 98 percent of its Standard Proctor maximum dry density (ASTM D 698). A vapor barrier should be installed beneath the slabs in accordance with ACI 302.1 (Guide to Concrete Floor and Slab Construction).

Exposure to the environment and construction activities will weaken the floor slab subgrade soils. Therefore, we recommend that subgrade soils in slab areas be evaluated prior to aggregate base material placement. If deterioration of soils has occurred, undercutting may be necessary.

6.8 Seismic Site Classification

Based on our past experience, it is our opinion the site should be considered Seismic Site Classification D in accordance with the current Virginia Building Code.

6.9 Pavement Support

Based on our laboratory testing and past experience with soils similar to those encountered at this site, a design California Bearing Ratio (CBR) value of 5 percent was used for pavement analysis, assuming the pavement subgrade soil is compacted to at least 98 percent of its Standard Proctor maximum dry density.

Based on our analysis and past experience, we recommend the light-duty and heavy-duty asphalt pavement sections and heavy-duty concrete pavement section shown in the tables below. Light-duty pavements are those that generally experience a low to moderate frequency of car traffic, such as car parking spaces. Heavy-duty pavements are those that experience channelized car traffic and occasional heavy vehicles, such as delivery trucks, dumpster vehicles, etc. Pavement life can be extended through good maintenance practices, such as routine sealing of pavement cracks and repair of potholes.

Asphalt Pavement Sections

Light-Duty Asphalt Pavement (Parking Bays)	Heavy-Duty Asphalt Pavement (Drive Aisles)
2 inches Asphalt VDOT SM-9.5A	2 inches Asphalt VDOT SM-9.5A
-	2 inches Asphalt VDOT IM-19.0A
8 inches Aggregate Base VDOT 21B	8 inches Aggregate Base VDOT 21B

It should be noted that the majority of the near-surface soils encountered at this site consisted of fill material. As previously stated, fill material can be highly variable in thickness, compaction, and composition. New pavements may be supported on existing fill materials provided they are stable when proofrolled and are not excessively debris laden. At the time of construction, we recommend that several test pit excavations be performed to explore the near-surface soils to confirm that excessive debris is not present within the near-surface soils. If excessively debris-laden soils are present near finished soil subgrade, undercutting of debris laden soils will be required.

All materials and construction methods should conform to the latest edition of the VDOT Road and Bridge Specifications. To confirm that the base course stone has been uniformly compacted and meets VDOT density requirements, in-place density tests should be performed by a qualified soils technician and the area should be thoroughly proofrolled under his observation.

Sufficient testing and observation should be performed during pavement construction to confirm that the required thickness, density, and quality requirements of the specifications are followed.

7. LIMITATIONS OF REPORT

The recommendations contained in this report are made on the basis of the site information made available to us and the surface and subsurface conditions that existed at the time of the exploration. While this exploration has been conducted in accordance with generally accepted geotechnical engineering practices, there remains some potential for variation of the subsurface conditions in unexplored areas of the site. If the subsurface conditions encountered during construction vary significantly from those presented in this report, we should be notified to reevaluate our recommendations. No other warranty, expressed or implied, is made as to the professional advice included in this report.

8. CLOSURE

We appreciate this opportunity to be of service to you on this project. If you have any questions regarding this report or if we can be of further assistance, please contact us at (804) 200-6500.

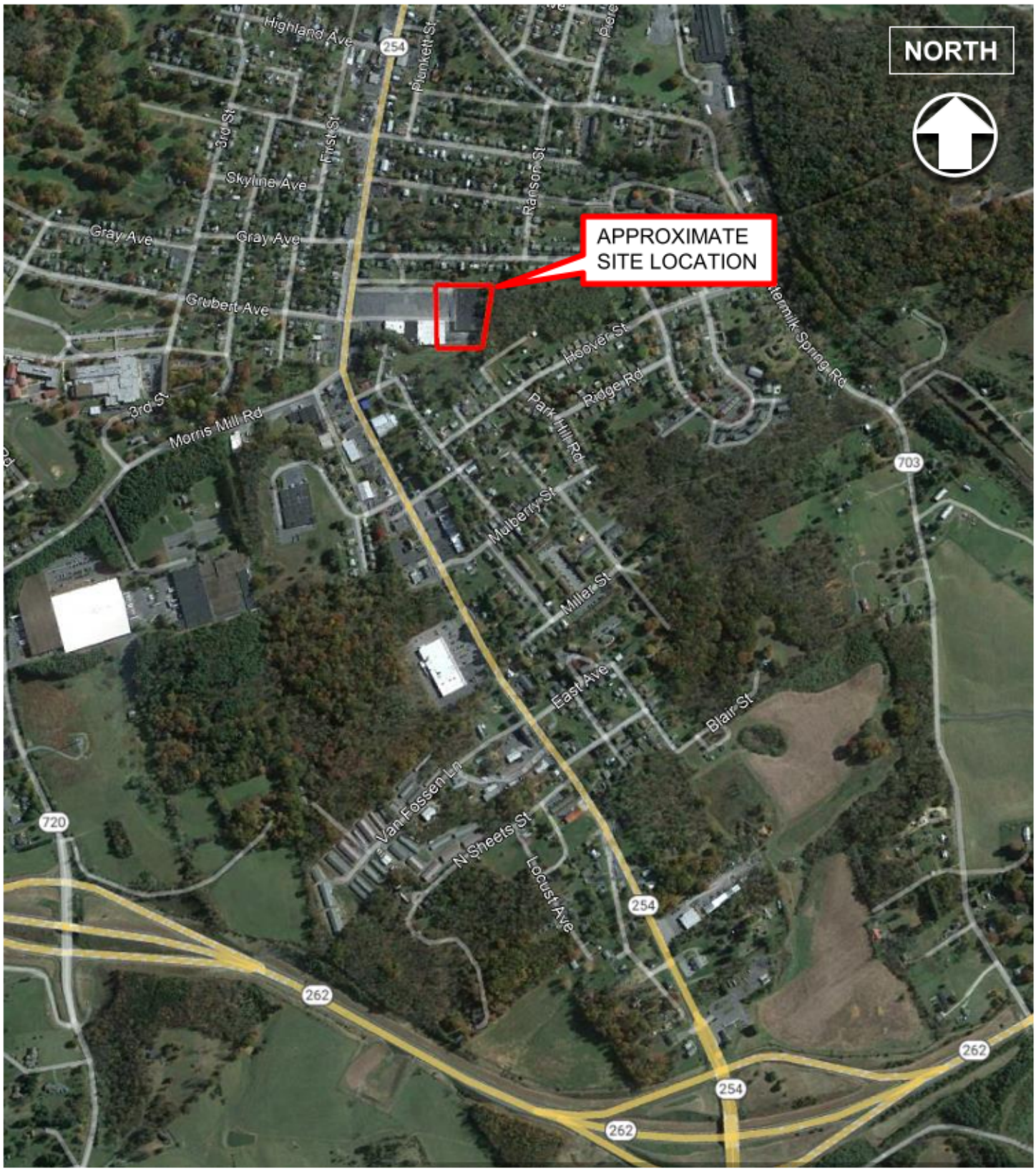
Respectfully submitted,
TIMMONS GROUP

Juan Carlos Losa-Solano, E.I.T.
Geotechnical Professional

J. Nathan Reeves, P.E.
Senior Geotechnical Engineer
VA Registration No. 049619

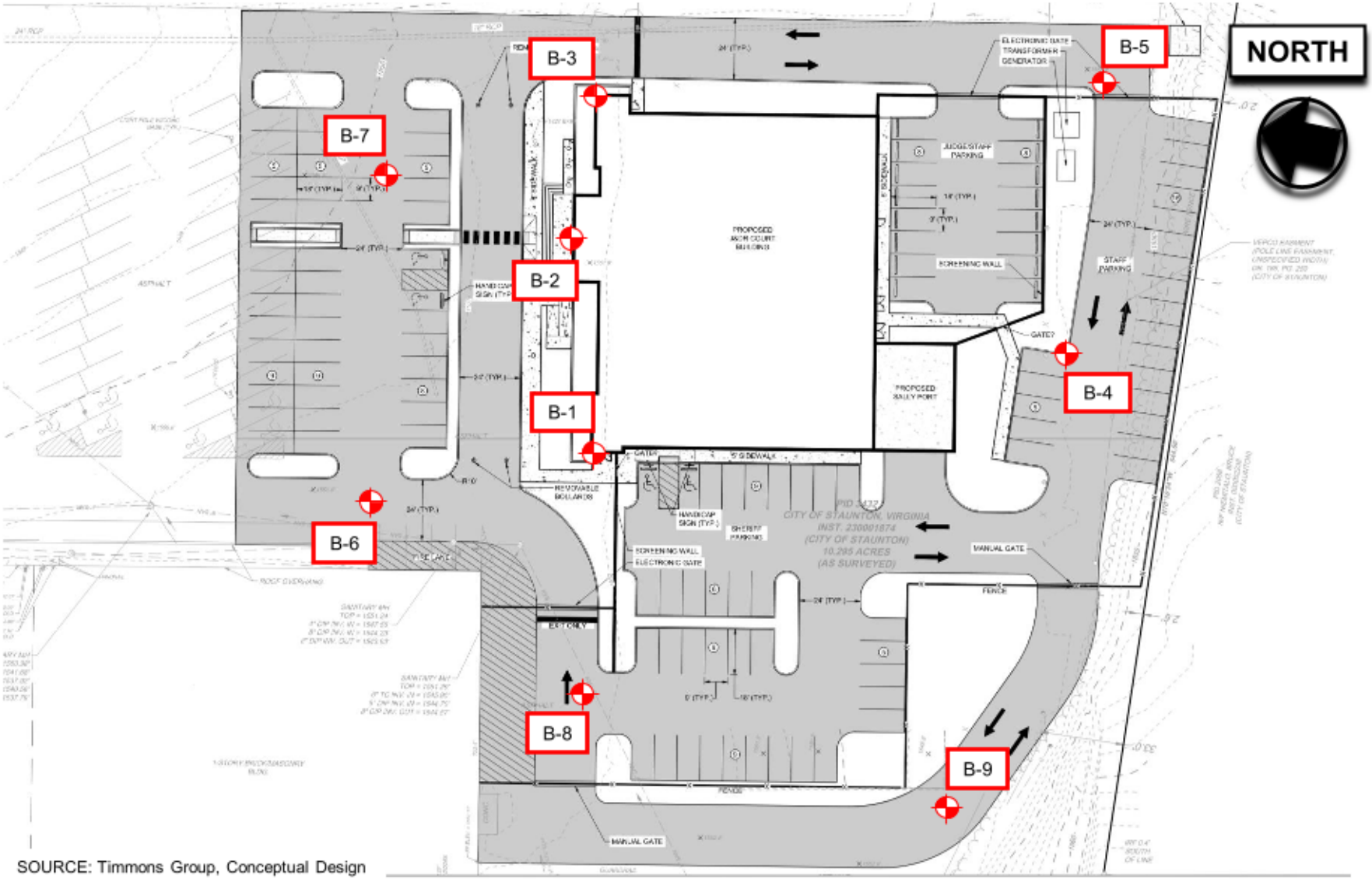
APPENDIX A

FIGURES



Source: Google Earth (2023)

SCALE: NTS	TIMMONS GROUP YOUR VISION ACHIEVED THROUGH OURS.	**SITE VICINITY MAP** JUVENILE & DOMESTIC RELATIONS DISTRICT COURT FACILITY 2030 WEST BEVERLY STREET CITY OF STAUNTON, VA	FIGURE 1
CHECKED BY: JNR			
PLOTTED BY: JCLS			
DATE: 10/12/23	PROJECT NUMBER: 60591		



SOURCE: Timmons Group, Conceptual Design
DATED: September 1, 2023

= APPROXIMATE LOCATION OF TEST BORING

SCALE:	NTS
DATE:	10/12/2023
Drawn By:	JCLS
Project No.:	60591

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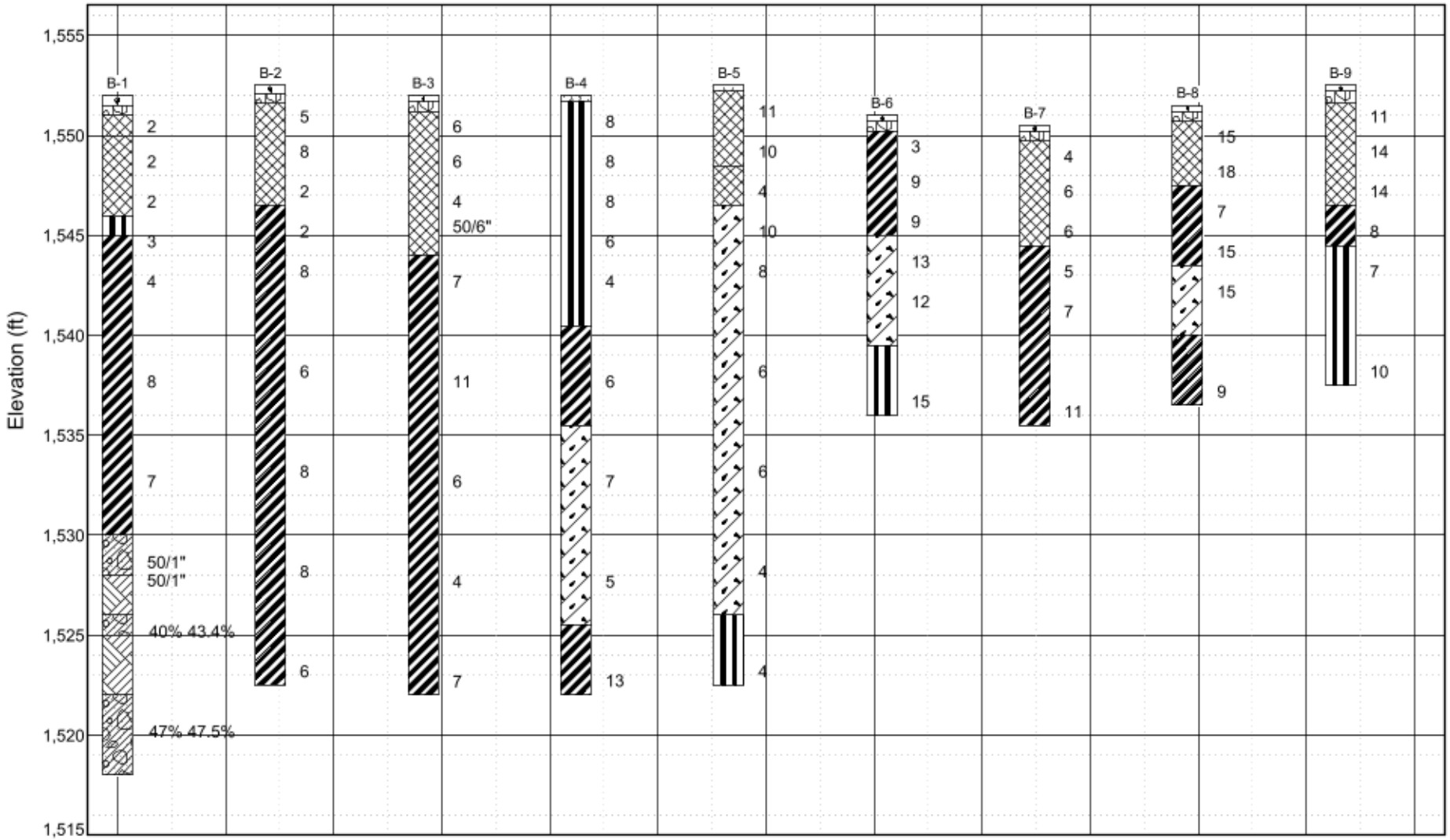
BORING LOCATION PLAN

JUVENILE & DOMESTIC RELATIONS DISTRICT COURT FACILITY
2030 WEST BEVERLY STREET
CITY OF STAUNTON, VA

FIGURE
2



Lithology Symbols

- Asphalt
- Fill (made ground)
- High Plasticity Clay
- Bedrock
- Silty Gravel
- Elastic Silt
- Weathered Rock
- Topsoil

Groundwater Symbols

At End of Drilling ▼ At 24 Hours

Exploration Symbols

B-01 (Exploration ID)

13 (N-Value)

53% 98%(RQD REC)

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Subsurface Profile

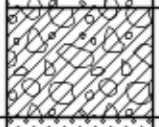
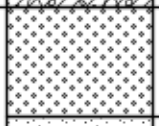
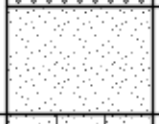
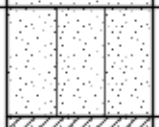
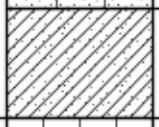
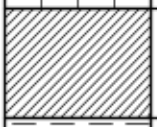
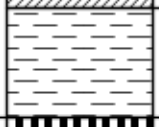
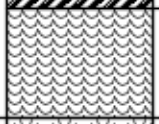
Juvenile & Domestic Relations District Court Facility
City of Staunton, VA

PROJECT NUMBER	DRAWN BY	DATE DRAWN
60591	JCLS	12/7/2023
HORIZONTAL SCALE NTS	APPROVED BY	FIGURE
VERTICAL SCALE NTS	JNR	3

APPENDIX B

BORING LOGS

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		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
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		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
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

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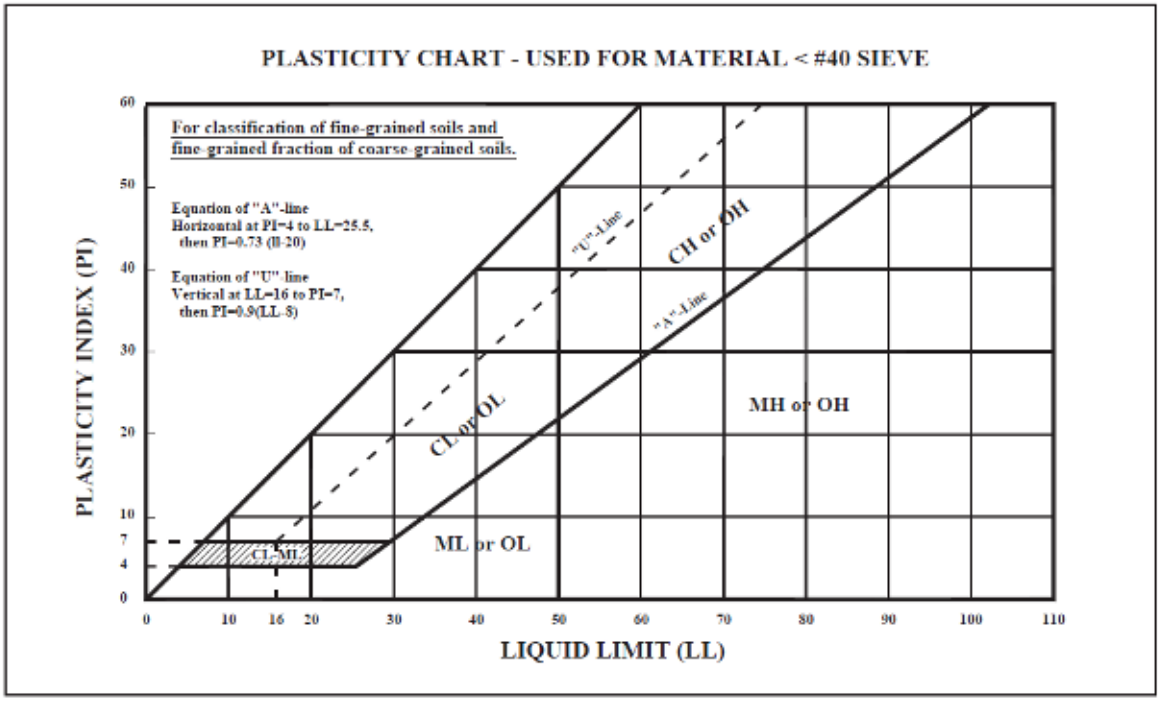
KEY TO BORING LOG TERMINOLOGY

Relative Density – Used for soils with less than 50% passing No. 200 sieve		Consistency – Used for soils with 50 percent or more passing No. 200 sieve	
Relative Density	**SPT N-Value (blows/ft)**	**Consistency**	**SPT N-Value (blows/foot)**
Very Loose	0 to 3	Very Soft	0 to 1
Loose	4 to 9	Soft	2 to 4
Medium Dense	10 to 29	Firm	5 to 8
Dense	30 to 50	Stiff	9 to 15
Very Dense	Greater than 50	Very Stiff	16 to 30
		Hard	31 to 50
		Very Hard	Greater than 50

Grain Size Terminology (U.S. Standard Sieves)		Natural Moisture Content	
Term	**Particle Size**		
Boulder	12 inches +	Dry	Very little apparent moisture, dusty
Cobble	3 to 12 inches		
Coarse Gravel	¾ to 3 inches	Moist	Damp, but no free water visible
Fine Gravel	#4 to ¾ inches		
Coarse Sand	#10 to #4		
Medium Sand	#40 to #10	Wet	Visible free water, or in cohesive soil, clearly saturated
Fine Sand	#200 to #40		
Silt and Clay	<#200		



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Telephone: (804) 200-6500

BORING B-1

PROJECT NUMBER 60591 **PROJECT NAME** Juvenile & Domestic Relations District Court Facility

CLIENT Moseley Architects **PROJECT LOCATION** City of Staunton, VA

DATE STARTED 9/28/2023 **COMPLETED** 9/28/2023 **GROUND ELEVATION** 1552 ft **HOLE DEPTH** 34 feet

DRILLING CONTRACTOR G-ES, LLC. **BOREHOLE WATER LEVELS:**

DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not encountered

LOGGED BY C. Losa-Solano, E.I.T. **CHECKED BY** N. Reeves, P.E. **AT 24 HOURS DRILLING** ---

NOTES **CAVE DEPTH**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0	1552	6-inches Aphalt					
		6-inches Aggregate Base Material		S-1, SPT 1-1-1-1 (2)			
	1550	FAT CLAY, (CH): orangeish brown, moist, soft, trace sand, "FILL"					
		ELASTIC SILT, (MH): orangeish brown, moist, soft, trace sand, trace gravel, "FILL"		S-2, SPT 1-1-1-1 (2)			
5				S-3, SPT 1-1-1-2 (2)			
	1545	ELASTIC SILT, (MH): orangeish brown, moist, soft, trace sand, trace rock fragments		S-4, SPT 1-1-2-2 (3)			
		FAT CLAY, (CH): orangeish brown, moist, soft to medium stiff, trace sand		S-5, SPT 2-2-2-3 (4)			
10							
	1540			S-6, SPT 2-3-5-5 (8)			
15							
	1535			S-7, SPT 3-3-4-5 (7)			
20							
	1530	FAT CLAY, (CH): gray, moist, very hard, trace sand, trace weathered rock fragments, "Weathered Rock"		S-8, SPT 50/1"			
25		DOLOMITE, Decomposed, soft to hard, massive, containing intensely to high spaced low to highly dipping joints, "possible boulder"		S-9, SPT 50/1"			
	1525	Severely Weathered Rock "soil seam"		C-1, RC RQD=40% Rec=43.4%			
		DOLOMITE, Slightly Weathered, very hard, containing highly to moderately spaced, steeply dipping, mineral filled joints, "possible boulder"					
30		Severely Weathered Rock "soil seam"		C-2, RC RQD=47% Rec=47.5%			
	1520						

Refusal at 24.0 feet.
Bottom of borehole at 34.0 feet.

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Richmond, VA, 23225
Telephone: (804) 200-6500

BORING B-2

PROJECT NUMBER 60591 **PROJECT NAME** Juvenile & Domestic Relations District Court Facility

CLIENT Moseley Architects **PROJECT LOCATION** City of Staunton, VA

DATE STARTED 9/28/2023 **COMPLETED** 9/28/2023 **GROUND ELEVATION** 1552.5 ft **HOLE DEPTH** 30 feet

DRILLING CONTRACTOR G-ES, LLC. **BOREHOLE WATER LEVELS:**

DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not encountered

LOGGED BY C. Losa-Solano, E.I.T. **CHECKED BY** N. Reeves, P.E. **AT 24 HOURS DRILLING** ---

NOTES **CAVE DEPTH**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0		5-inches Asphalt					
		6-inches Aggregate Base Material					
	1550	FAT CLAY, (CH): orangeish brown, moist, medium stiff, trace sand, "FILL"		S-1, SPT 2-2-3 (5)			
				S-2, SPT 4-4-4-4 (8)			
5		Soft, trace construction debris		S-3, SPT 1-1-1-1 (2)			
	1545	FAT CLAY, (CH): orangeish brown to grayish brown, moist, soft to medium stiff, trace sand		S-4, SPT 1-1-1-1 (2)			
				S-5, SPT 3-4-4-5 (8)			
10							
	1540			S-6, SPT 3-3-3-3 (6)			
15							
	1535			S-7, SPT 3-3-5-5 (8)			
20							
	1530			S-8, SPT 3-4-4-4 (8)			
25							
	1525			S-9, SPT 3-3-3-3 (6)			
30		Bottom of borehole at 30.0 feet.					

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Telephone: (804) 200-6500

BORING B-3

PROJECT NUMBER 60591 **PROJECT NAME** Juvenile & Domestic Relations District Court Facility

CLIENT Moseley Architects **PROJECT LOCATION** City of Staunton, VA

DATE STARTED 9/28/2023 **COMPLETED** 9/28/2023 **GROUND ELEVATION** 1552 ft **HOLE DEPTH** 30 feet

DRILLING CONTRACTOR G-ES, LLC. **BOREHOLE WATER LEVELS:**

DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not encountered

LOGGED BY C. Losa-Solano, E.I.T. **CHECKED BY** N. Reeves, P.E. **AT 24 HOURS DRILLING** ---

NOTES **CAVE DEPTH**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0		4-inches Asphalt					
		6-inches Aggregate Base Material					
	1550	LEAN CLAY, (CL): orangeish brown, moist, medium stiff, trace sand, "FILL" Trace construction debris		S-1, SPT 2-3-3 (6)			
				S-2, SPT 4-3-3-3 (6)			
5		Soft		S-3, SPT 2-2-2-2 (4)			
	1545	Very hard		S-4, SPT 50/6"			
		FAT CLAY, (CH): reddish brown to orangeish brown, moist, medium stiff to stiff, trace sand, trace rock fragments		S-5, SPT 3-3-4-5 (7)			
10							
	1540						
				S-6, SPT 4-5-6-6 (11)			
15							
	1535						
		Medium stiff		S-7, SPT 2-3-3-3 (6)			
20							
	1530						
		Soft		S-8, SPT 3-2-2-3 (4)			
25							
	1525						
		Medium stiff, trace rock fragments		S-9, SPT 2-3-4-4 (7)			
30							

Bottom of borehole at 30.0 feet.

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BORING B-4

PROJECT NUMBER 60591 **PROJECT NAME** Juvenile & Domestic Relations District Court Facility

CLIENT Moseley Architects **PROJECT LOCATION** City of Staunton, VA

DATE STARTED 9/28/2023 **COMPLETED** 9/28/2023 **GROUND ELEVATION** 1552 ft **HOLE DEPTH** 30 feet

DRILLING CONTRACTOR G-ES, LLC. **BOREHOLE WATER LEVELS:**

DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not encountered

LOGGED BY C. Losa-Solano, E.I.T. **CHECKED BY** N. Reeves, P.E. **AT 24 HOURS DRILLING** ---

NOTES **CAVE DEPTH**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0		3-inches Topsoil		S-1, SPT 3-3-5-9 (8)			
	1550	ELASTIC SILT, (MH): orangeish brown, moist, medium stiff, trace sand, trace rock fragments		S-2, SPT 4-4-4-5 (8)			
5				S-3, SPT 2-3-5-5 (8)			
	1545			S-4, SPT 2-3-3-3 (6)			
		Soft		S-5, SPT 2-2-2-3 (4)			
10							
	1540	FAT CLAY, (CH): orangeish brown, moist, medium stiff, trace sand		S-6, SPT 2-3-3-4 (6)			
15							
	1535	LEAN CLAY, (CL): orangeish brown, moist, medium stiff, trace sand		S-7, SPT 2-4-3-3 (7)			
20							
	1530			S-8, SPT 2-3-2-3 (5)			
25							
	1525	FAT CLAY, (CH): grayish brown, moist, stiff, trace sand		S-9, SPT 2-9-4-50 (13)			
30							

Bottom of borehole at 30.0 feet.

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Timmons Group
1001 Boulders Parkway, Suite 300
Richmond, VA, 23225
Telephone: (804) 200-6500

BORING B-5

PROJECT NUMBER 60591 **PROJECT NAME** Juvenile & Domestic Relations District Court Facility

CLIENT Moseley Architects **PROJECT LOCATION** City of Staunton, VA

DATE STARTED 9/28/2023 **COMPLETED** 9/28/2023 **GROUND ELEVATION** 1552.5 ft **HOLE DEPTH** 30 feet

DRILLING CONTRACTOR G-ES, LLC. **BOREHOLE WATER LEVELS:**

DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not encountered

LOGGED BY C. Losa-Solano, E.I.T. **CHECKED BY** N. Reeves, P.E. **AT 24 HOURS DRILLING** ---

NOTES **CAVE DEPTH**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0	1552.5	3-inches Topsoil		S-1, SPT 5-5-6-9 (11)			
		FAT CLAY, (CH): orangeish brown, moist, stiff, trace sand, trace gravel, "FILL"					
	1550			S-2, SPT 5-5-5-5 (10)			
5		ELASTIC SILT, (MH): orangeish brown, moist, soft, trace sand, "FILL"		S-3, SPT 2-2-2-2 (4)			
		LEAN CLAY, (CL): orangeish brown, moist, stiff, trace sand, trace rock fragments		S-4, SPT 3-5-5-6 (10)			
	1545			S-5, SPT 2-3-5-5 (8)			
		Medium stiff					
10							
	1540			S-6, SPT 2-3-3-3 (6)			
15							
	1535			S-7, SPT 3-3-3-2 (6)			
20							
	1530			S-8, SPT 2-2-2-2 (4)			
		Soft					
25							
	1525	ELASTIC SILT, (MH): orangeish brown, moist, soft, trace sand		S-9, SPT 2-2-2-2 (4)			
30							

Bottom of borehole at 30.0 feet.

TG GEOTECH BH LOG V2.0 - GINT STD US LAB.GDT - 12/1/23 17:52 - Y:\801\GEOTECH\NICAL\PROJECTS\2023 PROJECTS\60591 - STAUNTON COURTS SITE\LOGS\STAUNTON COURTS SITE - 60591.GPJ

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BORING B-6

PROJECT NUMBER 60591 **PROJECT NAME** Juvenile & Domestic Relations District Court Facility

CLIENT Moseley Architects **PROJECT LOCATION** City of Staunton, VA

DATE STARTED 9/29/2023 **COMPLETED** 9/29/2023 **GROUND ELEVATION** 1551 ft **HOLE DEPTH** 15 feet

DRILLING CONTRACTOR G-ES, LLC. **BOREHOLE WATER LEVELS:**

DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not encountered

LOGGED BY C. Losa-Solano, E.I.T. **CHECKED BY** N. Reeves, P.E. **AT 24 HOURS DRILLING** ---

NOTES **CAVE DEPTH**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0	1550	3-inches Asphalt 7-inches Aggregate Base Material FAT CLAY, (CH): orangeish brown, moist, soft to stiff, trace sand, trace weathered rock fragments		S-1, SPT 2-1-2 (3) S-2, SPT 4-5-4-7 (9) S-3, SPT 4-4-5-5 (9)			
5	1545	LEAN CLAY, (CL): orangeish brown, moist, stiff, trace sand		S-4, SPT 4-6-7-6 (13) S-5, SPT 5-5-7-8 (12)			
10	1540	ELASTIC SILT, (MH): orangeish brown, moist, stiff, trace sand		S-6, SPT 5-7-8-9 (15)			
15		Bottom of borehole at 15.0 feet.					

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Telephone: (804) 200-6500

BORING B-7

PROJECT NUMBER 60591 **PROJECT NAME** Juvenile & Domestic Relations District Court Facility

CLIENT Moseley Architects **PROJECT LOCATION** City of Staunton, VA

DATE STARTED 9/29/2023 **COMPLETED** 9/29/2023 **GROUND ELEVATION** 1550.5 ft **HOLE DEPTH** 15 feet

DRILLING CONTRACTOR G-ES, LLC. **BOREHOLE WATER LEVELS:**

DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not encountered

LOGGED BY C. Losa-Solano, E.I.T. **CHECKED BY** N. Reeves, P.E. **AT 24 HOURS DRILLING** ---

NOTES **CAVE DEPTH**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0	1550	4-inches Asphalt					
		6-inches Aggregate Base Material					
		FAT CLAY, (CH): orangeish brown to grayish brown, moist, soft to medium stiff, trace sand, "FILL"		S-1, SPT 2-2-2-3 (4)			
				S-2, SPT 3-3-3-4 (6)			
5	1545			S-3, SPT 3-3-3-4 (6)			
		FAT CLAY, (CH): orangeish brown, moist, medium stiff to stiff, trace sand		S-4, SPT 2-3-2-3 (5)			
				S-5, SPT 3-3-4-4 (7)			
10	1540						
				S-6, SPT 3-6-5-6 (11)			
15		Bottom of borehole at 15.0 feet.					

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BORING B-8

PROJECT NUMBER 60591 **PROJECT NAME** Juvenile & Domestic Relations District Court Facility

CLIENT Moseley Architects **PROJECT LOCATION** City of Staunton, VA

DATE STARTED 9/29/2023 **COMPLETED** 9/29/2023 **GROUND ELEVATION** 1551.5 ft **HOLE DEPTH** 15 feet

DRILLING CONTRACTOR G-ES, LLC. **BOREHOLE WATER LEVELS:**

DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not encountered

LOGGED BY C. Losa-Solano, E.I.T. **CHECKED BY** N. Reeves, P.E. **AT 24 HOURS DRILLING** ---

NOTES **CAVE DEPTH**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0	1550	4-inches Asphalt 6-inches Aggregate Base Material LEAN CLAY, (CL): orangeish brown, moist, stiff to very stiff, with sand, trace gravel, "FILL"		S-1, SPT 7-7-8 (15) S-2, SPT 8-8-10-11 (18)			
5	1545	FAT CLAY, (CH): orangeish brown, moist, medium stiff to stiff, trace sand, trace weathered rock fragments		S-3, SPT 4-4-3-5 (7) S-4, SPT 5-7-8-10 (15)			
10	1540	LEAN CLAY, (CL): orangeish brown, moist, stiff, trace sand		S-5, SPT 6-8-7-7 (15)			
15		FAT CLAY, (CH): orangeish brown, moist, stiff, trace sand		S-6, SPT 4-4-5-8 (9)			

Bottom of borehole at 15.0 feet.

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Richmond, VA, 23225
Telephone: (804) 200-6500

BORING B-9

PROJECT NUMBER 60591 **PROJECT NAME** Juvenile & Domestic Relations District Court Facility

CLIENT Moseley Architects **PROJECT LOCATION** City of Staunton, VA

DATE STARTED 9/29/2023 **COMPLETED** 9/29/2023 **GROUND ELEVATION** 1552.5 ft **HOLE DEPTH** 15 feet

DRILLING CONTRACTOR G-ES, LLC. **BOREHOLE WATER LEVELS:**

DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not encountered

LOGGED BY C. Losa-Solano, E.I.T. **CHECKED BY** N. Reeves, P.E. **AT 24 HOURS DRILLING** ---

NOTES **CAVE DEPTH**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	SYMBOL	SAMPLING BLOW COUNTS (N-VALUE)	POCKET PEN. (tsf)	LAB TESTS	REMARKS
0		4-inches Asphalt					
		7-inches Aggregate Base Material					
	1550	LEAN CLAY, (CL): orangeish brown, moist, stiff, trace sand, "FILL" Trace construction debris		S-1, SPT 5-5-6 (11)			
				S-2, SPT 8-7-7-8 (14)			
5				S-3, SPT 5-6-8-8 (14)			
	1545	FAT CLAY, (CH): orangeish brown, moist, medium stiff, trace sand		S-4, SPT 6-4-4-6 (8)			
		ELASTIC SILT, (MH): orangeish brown, moist, medium stiff to stiff, trace sand		S-5, SPT 3-4-3-3 (7)			
10							
	1540						
				S-6, SPT 4-5-5-7 (10)			
15							

Bottom of borehole at 15.0 feet.

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APPENDIX C

LABORATORY TEST RESULTS

TIMMONS GROUP
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LABORATORY CLASSIFICATION SUMMARY TABLE

Project Number: 60591
Project Name: Juvenile & Domestic Relations District Court Facility
Project Location: 2030 W. Beverly St., Staunton, VA
Client Name: Moseley Architects

Lab No.	Boring Number	Sample Number	Sample Depth (feet)	USCS	MC (%)	Grain Size Analysis			Atterberg Limits		
						G (%)	S (%)	F (%)	LL	PL	PI
9500	B-01	ST	5 to 7	MH	39.4	2.6	7.7	89.7	73	34	39
9501	B-01	S-4	6 to 8	CH	37.6	0.0	9.8	90.2	67	25	42
9502	B-02	S-4	6 to 8	CH	35.5	1.6	5.5	92.9	60	23	37
9503	B-03	S-5	8 to 10	CH	24.0	9.4	13.6	77.0	50	22	28
9504	B-04	S-2	2 to 4	MH	31.7	2.6	7.9	89.5	69	35	34
9505	B-04	S-6	13 to 15	CH	39.2	0.0	0.8	99.2	67	31	36
9507	B-05	S-4	6 to 8	CL	20.8	12.3	12.1	75.6	38	19	19
9508	B-06	S-2	2 to 4	CH	26.6	10.3	9.1	80.6	53	21	32
9510	B-08	S-3	4 to 6	CH	35.7	3.8	9.6	86.6	64	26	38

TIMMONS GROUP
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LABORATORY CBR SUMMARY TABLE

Project Number: 60591
Project Name: Juvenile & Domestic Relations District Court Facility
Project Location: 2030 W. Beverly St., Staunton, VA
Client Name: Moseley Architects

Lab No.	Boring Number	Sample Number	Sample Depth (feet)	USCS	MC (%)	Grain Size Analysis			Atterberg Limits			MDD (pcf)	OMC (%)	CBR				
						G (%)	S (%)	F (%)	LL	PL	PI			Uncorrected		Corrected		% Swell
														0.1"	0.2"	0.1"	0.2"	
9506	B-05	Bulk	0.5 to 5	CH	31.3	1.7	9.3	89.0	60	23	37	101.2	23.0	7.6	7.4	8.1	7.6	0.2
9509	B-06	Bulk	0.5 to 5	CH	27.2	4.7	11.0	84.3	51	20	31	105.5	20.0	5.7	6.1	6.3	6.4	0.0
9511	B-09	Bulk	0.5 to 5	CL	18.0	12.6	21.7	65.7	38	17	21	116.9	14.3	9.8	10.9	11.1	11.4	0.0

LABORATORY DETERMINATION OF WATER CONTENT

AASHTO T265 Method B

TIMMONS GROUP
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PROJECT INFORMATION

Project #: 60591 **Report Date:** 11/4/2023

Project Name: Juvenile & Domestic Relations District Court Facility **Test Date(s):**

Project Location: 2030 W. Beverly St., Staunton, VA **Tested By:** GE and KP

Client Name: Moseley Architects

SAMPLE INFORMATION

Sampled By: G-ES, LLC **Sample Date(s):** 9/28/23 to 9/29/23

Sampling Method: Split Barrel and Bulk Samples

Lab Number:	9500	9501	9502	9503	9504	9505	9506
Sample Locaton:	**B-01**	**B-01**	**B-02**	**B-03**	**B-04**	**B-04**	**B-05**
Sample Number:	ST	S-4	S-4	S-5	S-2	S-6	Bulk
Sample Depth (ft):	**5 to 7**	**6 to 8**	**6 to 8**	**8 to 10**	**2 to 4**	**13 to 15**	**0.5 to 5**
Tare Number:	0	500	506	507	508	512	534
Tare Weight (g):	0	125.82	126.18	126.35	126.48	125.82	123.93
Wet Soil + Tare (g):	0	241.13	299.02	262.95	244.42	241.11	444.78
Dry Soil + Tare (g):	0	209.62	253.77	236.54	216	208.62	368.28
Water Weight (g):	0	31.51	45.25	26.41	28.42	32.49	76.5
Dry Soil Weight (g):	0	83.8	127.59	110.19	89.52	82.8	244.35
***Water Content* (%):**	**N/A**	**37.6**	**35.5**	**24.0**	**31.7**	**39.2**	**31.3**
USCS (ASTM D 2487):	0	CH	CH	CH	MH	CH	CH
Approx. Max Grain Size:	---	#4	3/4"	3/4"	3/4"	#10	3/4"
Mass Less Than Minimum?	Yes	No	Yes	Yes	Yes	No	Yes
More than One Material?	No	No	No	No	No	No	No
Alternate Oven Temperature:	---	---	---	---	---	---	---
Describe Excluded Material:	---	---	---	---	---	---	---

References / Comments / Deviations:

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

Information included in this report relates only to material sampled at the time of testing.

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LABORATORY DETERMINATION OF WATER CONTENT

AASHTO T265 Method B

TIMMONS GROUP
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PROJECT INFORMATION

Project #: 60591 **Report Date:** 11/4/2023

Project Name: Juvenile & Domestic Relations District Court Facility **Test Date(s):**

Project Location: 2030 W. Beverly St., Staunton, VA **Tested By:** GE and KP

Client Name: Moseley Architects

SAMPLE INFORMATION

Sampled By: G-ES, LLC **Sample Date(s):** 9/28/23 to 9/29/23

Sampling Method: Split Barrel and Bulk Samples

Lab Number:	9507	9509	9508	9510	9511		
Sample Locaton:	**B-05**	**B-06**	**B-06**	**B-08**	**B-09**		
Sample Number:	S-4	Bulk	S-2	S-3	Bulk		
Sample Depth (ft):	**6 to 8**	**0.5 to 5**	**2 to 4**	**4 to 6**	**0.5 to 5**		
Tare Number:	517	519	521	547	531		
Tare Weight (g):	123.98	123.99	124.59	125.44	123.97		
Wet Soil + Tare (g):	250.16	365.71	268.47	236.04	352.25		
Dry Soil + Tare (g):	228.42	314	238.22	206.93	317.37		
Water Weight (g):	21.74	51.71	30.25	29.11	34.88		
Dry Soil Weight (g):	104.44	190.01	113.63	81.49	193.4		
***Water Content* (%):**	**20.8**	**27.2**	**26.6**	**35.7**	**18.0**		
USCS (ASTM D 2487):	CL	CH	CH	CH	CL		
Approx. Max Grain Size:	1"	1"	3/4"	3/8"	3/4"		
Mass Less Than Minimum?	Yes	Yes	Yes	Yes	Yes		
More than One Material?	No	No	No	No	No		
Alternate Oven Temperature:	---	---	---	---	---		
Describe Excluded Material:	---	---	---	---	---		

References / Comments / Deviations:

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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Material Classification

ASTM D2487

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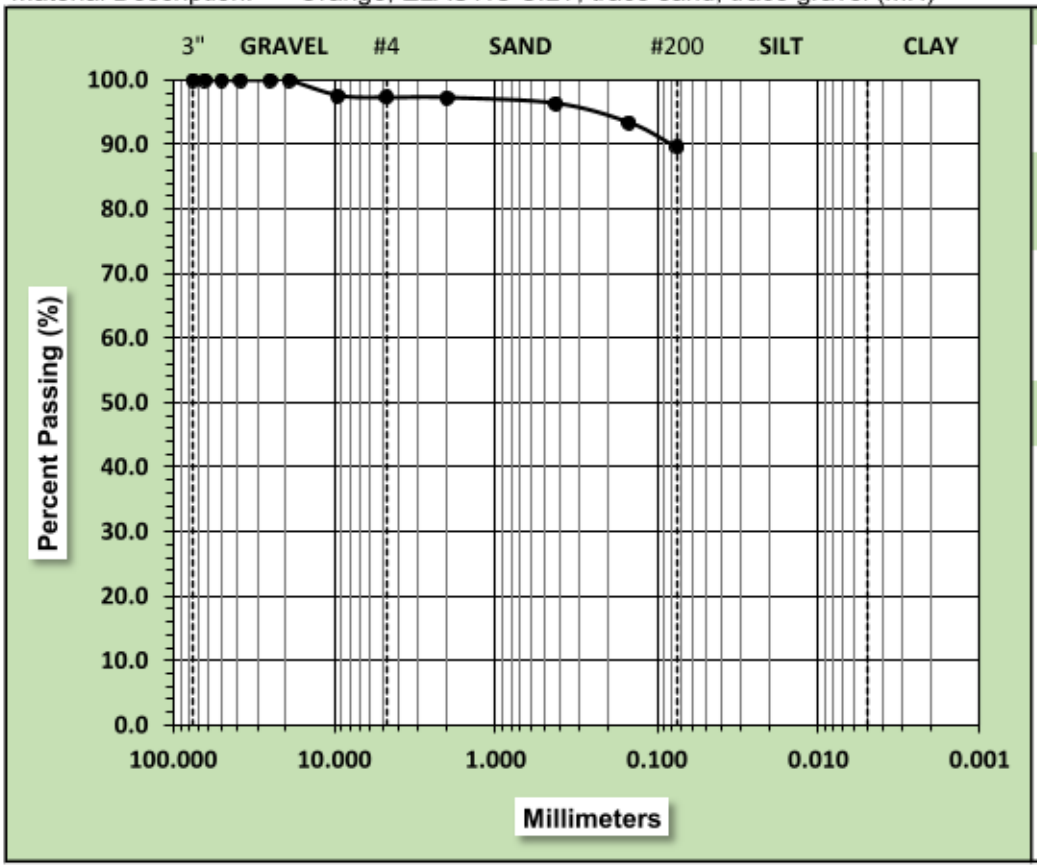
PROJECT INFORMATION

Project #:	60591	Report Date:	11/16/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-01	Sample #:	ST	Sample Date:	9/28/2023
Depth:	5 to 7 feet	Offset:	N/A	Lab Control #:	9500

Material Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)



Soil Properties	
Natural Moisture Content	39.4%
Specific Gravity	---
Liquid Limit	73
Plastic Limit	34
Plastic Index	39
Group Symbol	MH
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	
3/4"	100.0
3/8"	97.5
#4	97.4
#10	97.2
#40	96.3
#100	93.4
#200	89.7

Maximum Particle Size 3/4" **Gravel** 2.6% **Sand** 7.7% **Silt and Clay** 89.7%

C_u --- C_c ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 11/13/23 by Matthew Thornton
AASHTO T11 & T88 tested on 11/14/23 & 11/15/23 by Ken Pruner
AASHTO T89 Method B & T90 tested on 11/15/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/16/23
Technical Responsibility	*Signature*	*Position*	*Date*

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Specific Gravity of Soils

AASHTO T100

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PROJECT INFORMATION

Project #:	60591	Report Date:	11/18/2023
Project Name:	Juvenile & Domestic Relations District Court Facility	Test Date(s):	11/14/23 to 11/18/23
Project Location:	2030 W. Beverly St., Staunton, VA	Tested By:	Matthew Thornton
Client Name:	Moseley Architects		
Client Address:	3200 Norfolk Street Richmond, VA 23230		

SAMPLE INFORMATION

Location:	B-01	Sample #:	ST	Sample Date:	9/28/2023
Depth:	5 to 7 feet	Offset:	N/A	Lab Control #:	9500
Material Description:	Orange, ELASTIC SILT, trace sand, trace gravel (MH)				

Mass of clean, dry volumetric flask (g):	149	
Mass of oven-dried particles smaller than the 4.75-mm (No. 4) sieve (g):	58.46	Wo
Mass of volumetric flask and contents (g):	684.18	Wb
Temperature of volumetric flask and contents (°C):	22.6	Tx
Mass of volumetric flask filled with water at temperature Tx (g):	647.11	Wa
Specific gravity of soil based on water at temperature Tx:	2.733	Sx
Correction factor:	0.99943	K
Specific gravity of soil based on water at 20°C:	2.731	S20°C
Percent of particles retained on the 4.75-mm (No. 4) sieve:	---	R1
Percent of particles passing the 4.75-mm (No. 4) sieve:	---	P1
Apparent specific gravity of soil particles retained on the 4.75-mm (No. 4) sieve (T85):	---	G1
Specific gravity of soil particles passing the 4.75-mm (No. 4) sieve (T100):	---	G2
Weighted average specific gravity of total soil:	---	Gavg

References / Comments / Deviations: Material retained on the No. 4 sieve excluded from testing.

Matthew Thornton		Laboratory Manager	11/18/23
Technical Responsibility	*Signature*	*Position*	*Date*

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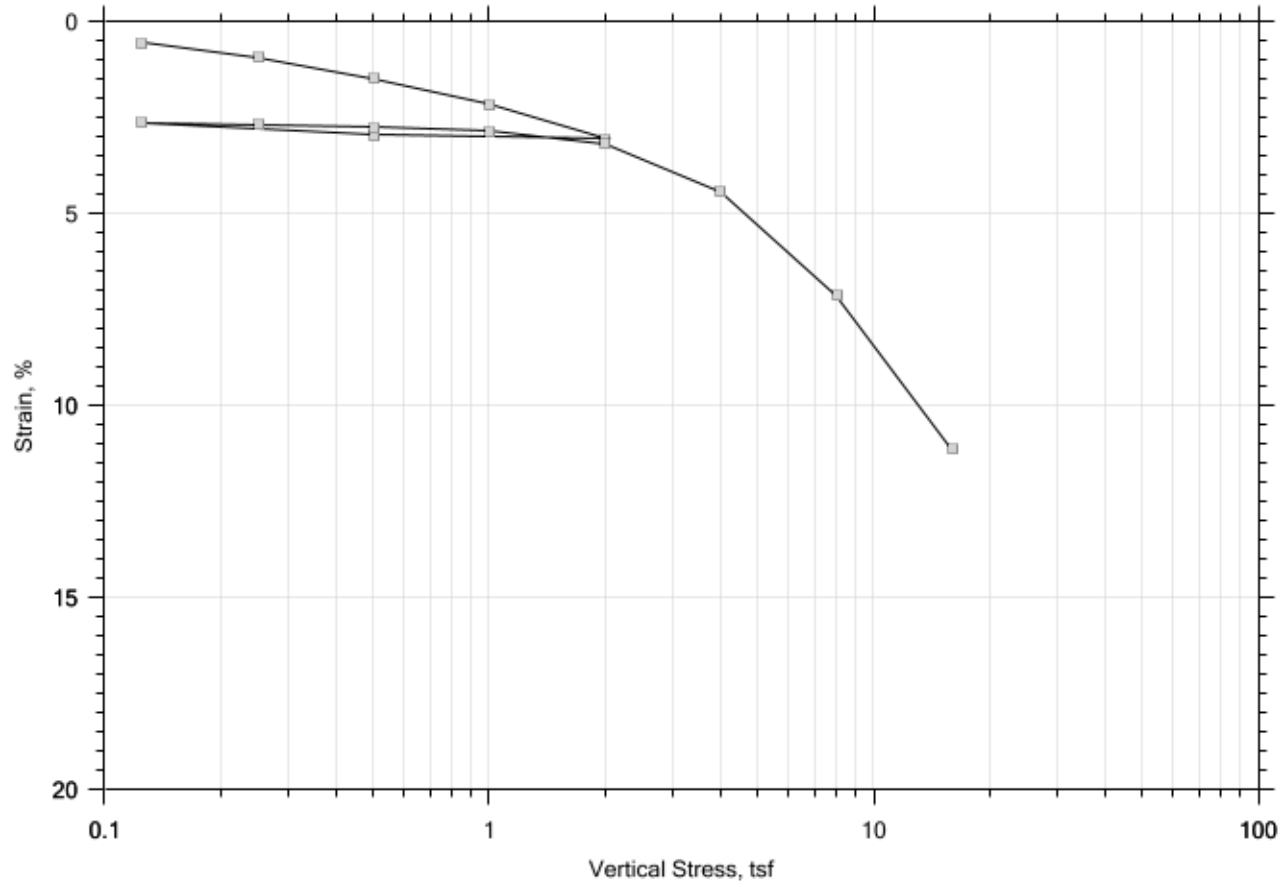
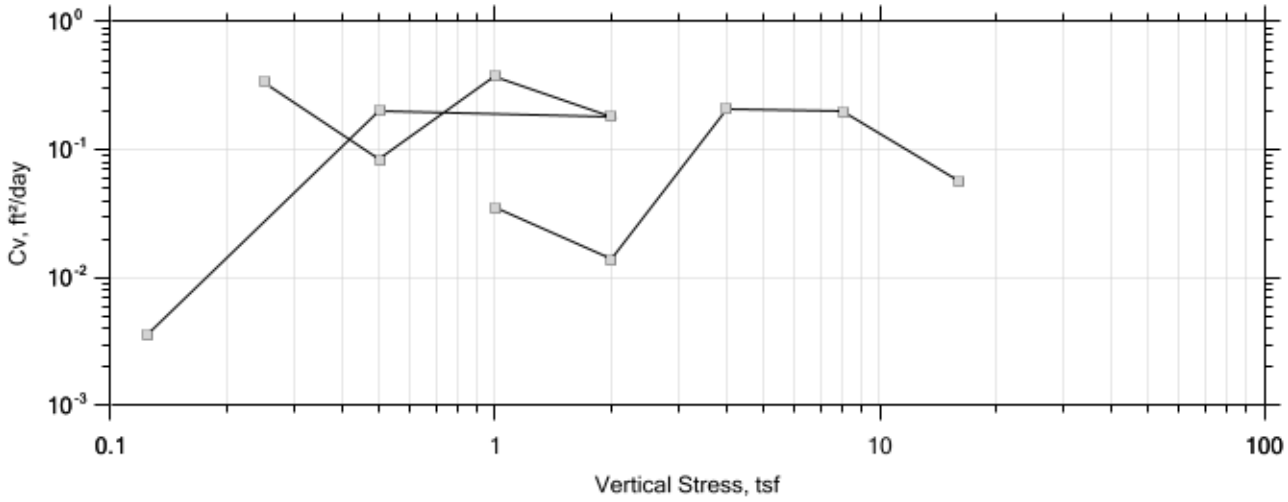
One-Dimensional Consolidation by ASTM D2435 - Method B

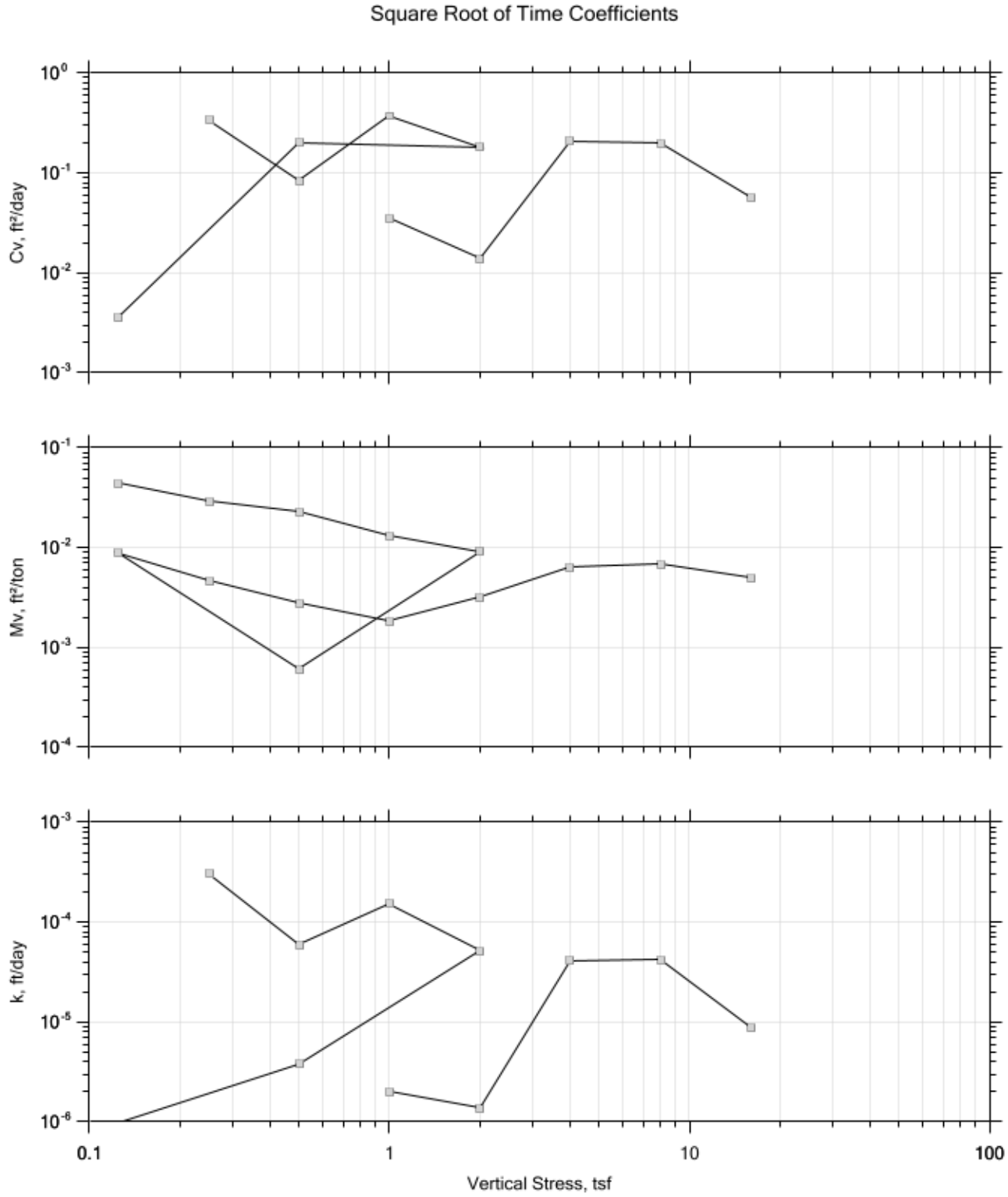
Summary Report





TIMMONS GROUP	Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
	Boring No.: B-01	Tested By: MLT	Checked By: JNR
	Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
	Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
	Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
	Remarks:		
	Displacement at End of Primary		

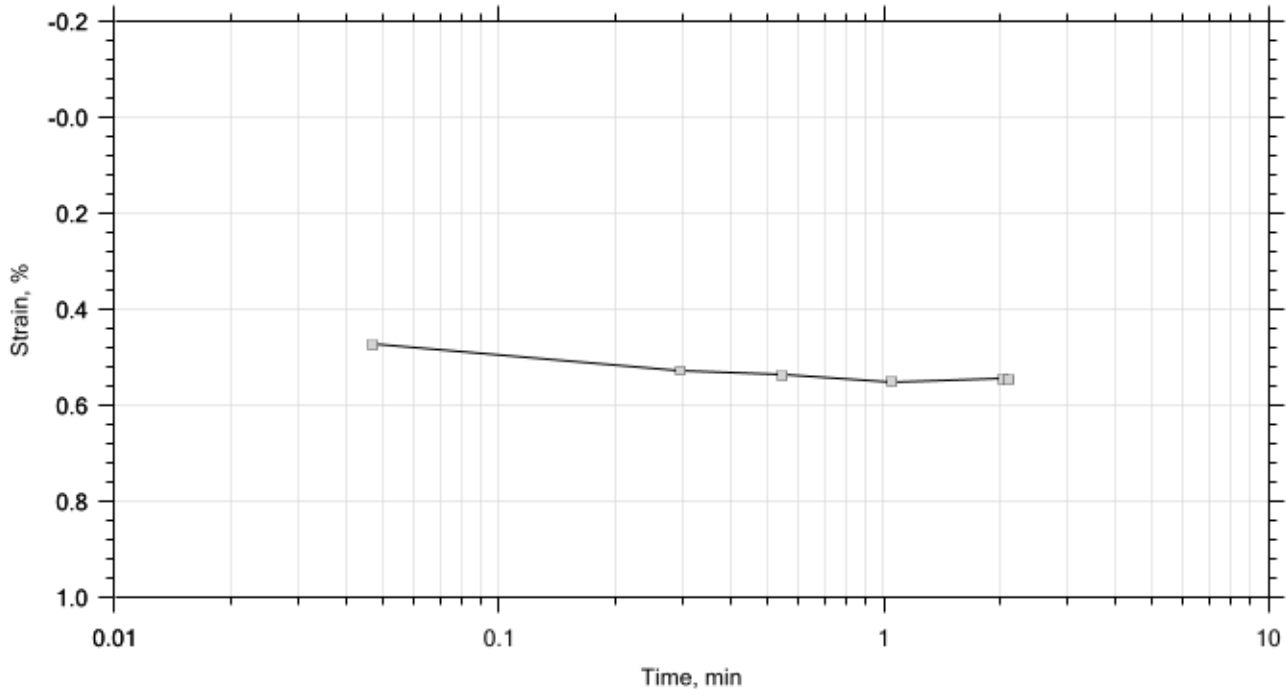
One-Dimensional Consolidation by ASTM D2435 - Method B

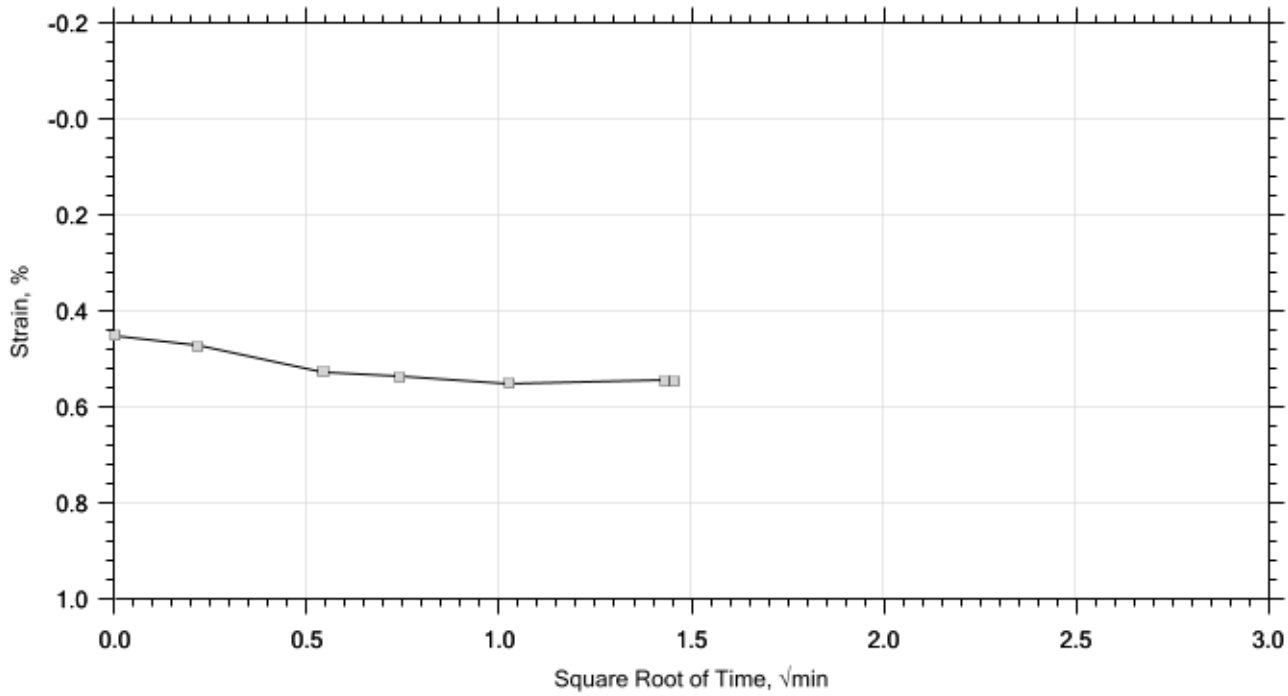


TIMMONS GROUP	Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
	Boring No.: B-01	Tested By: MLT	Checked By: JNR
	Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
	Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
	Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
	Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 1 of 14
Constant Load Step
Stress: 0.125 tsf



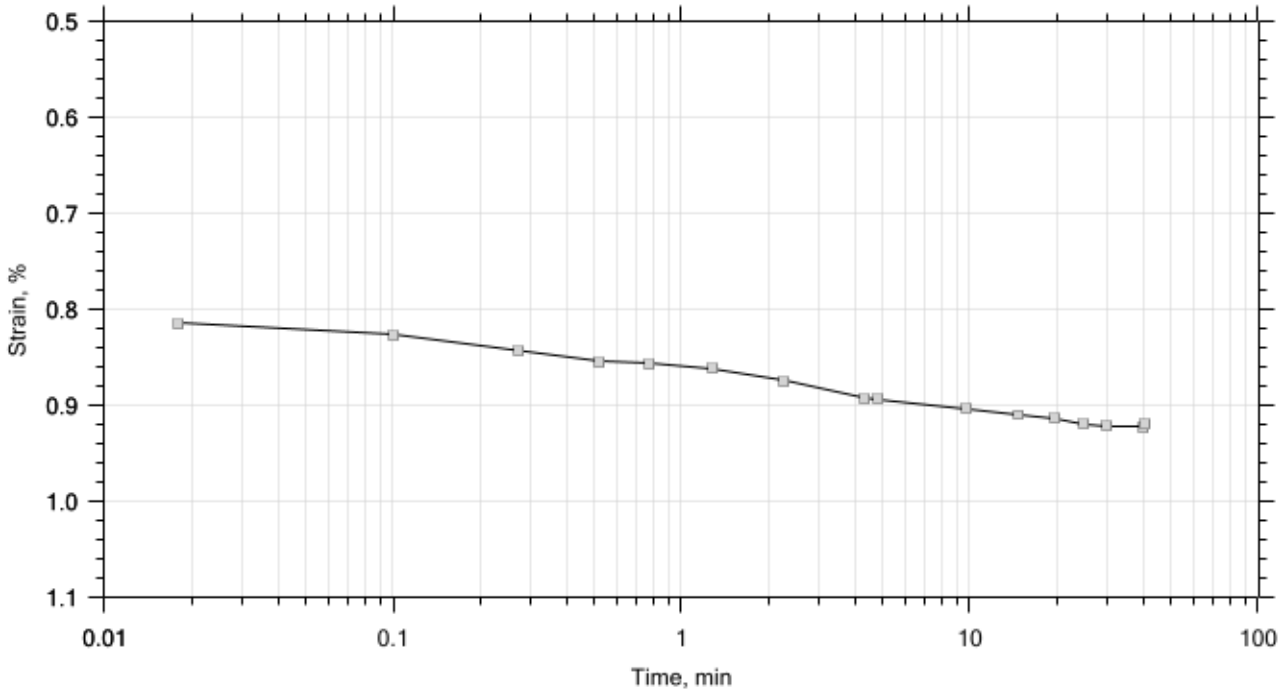


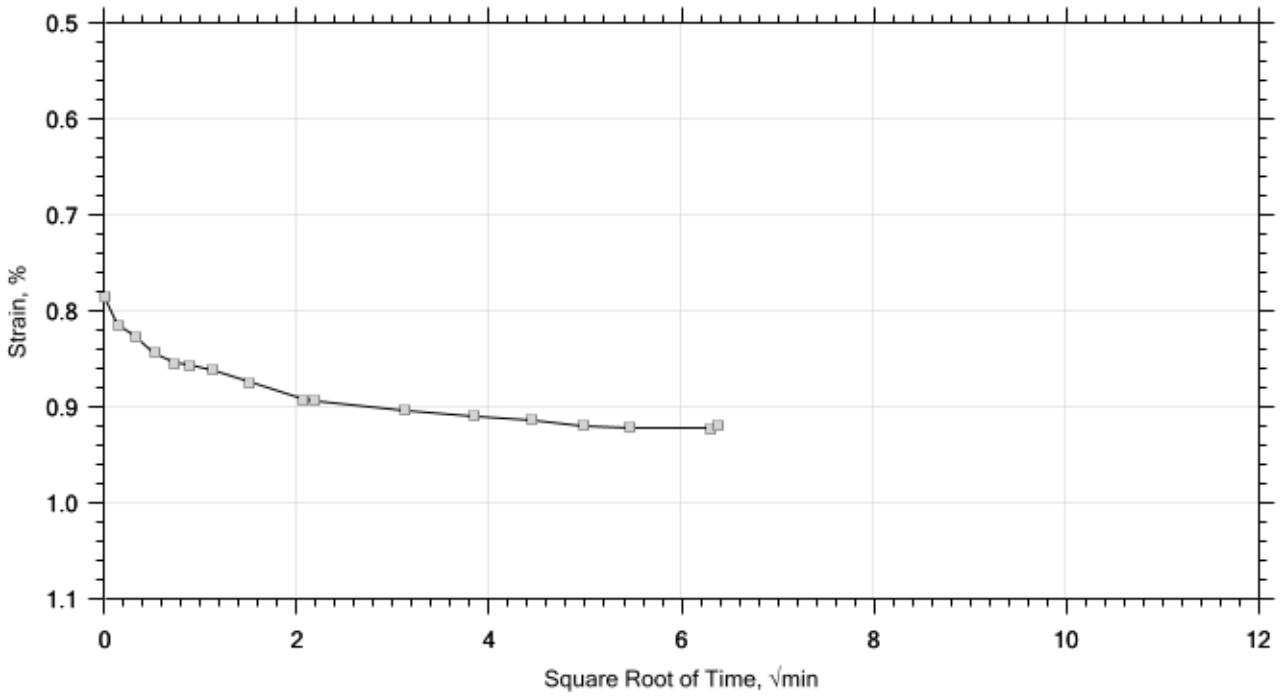
TIMMONS GROUP

Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 2 of 14
Constant Load Step
Stress: 0.25 tsf

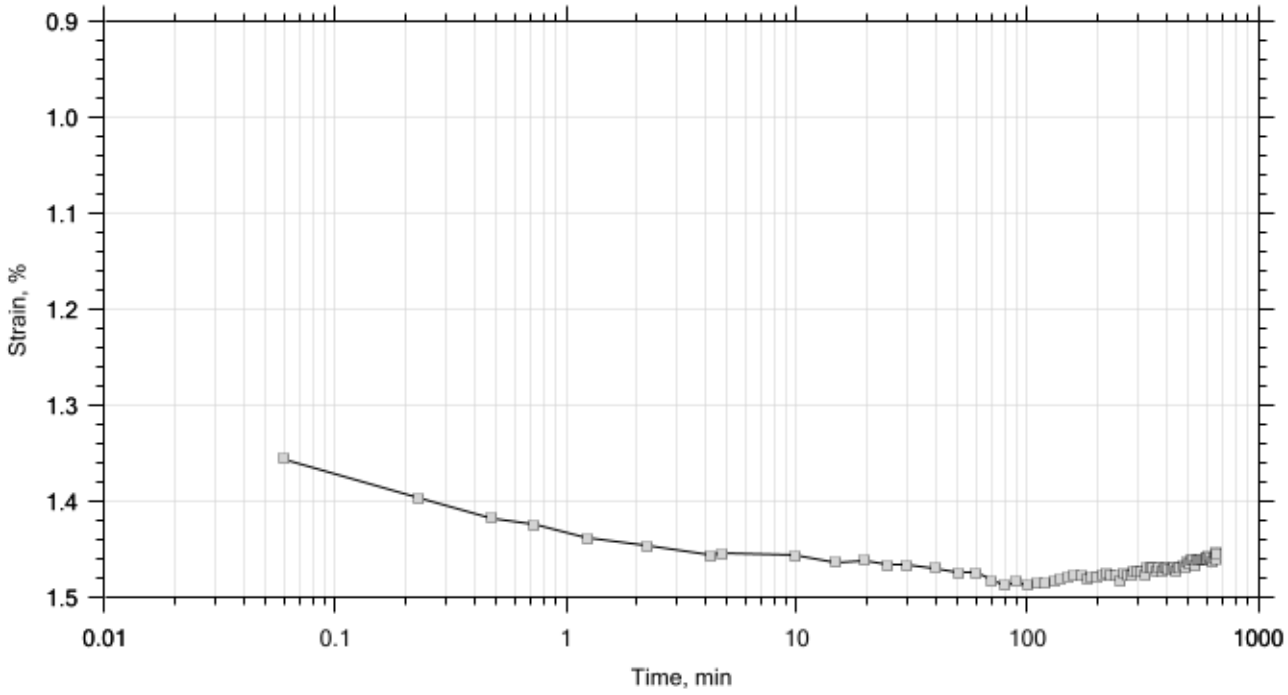


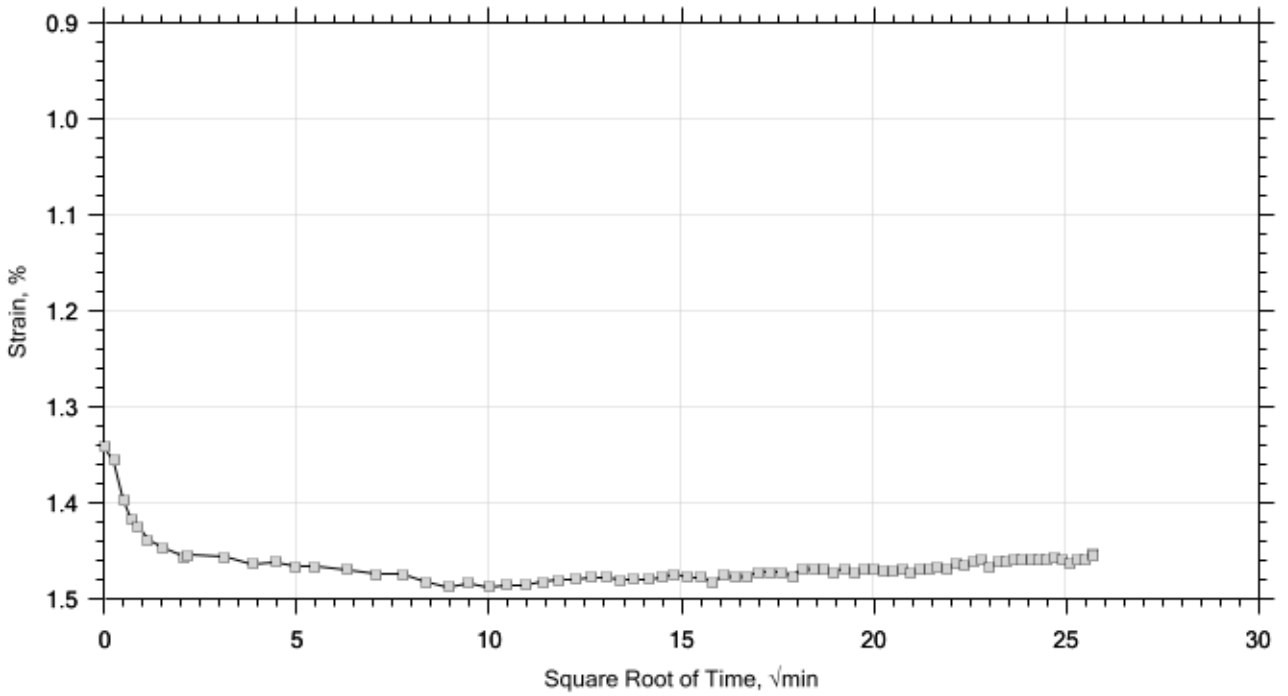


TIMMONS GROUP	Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
	Boring No.: B-01	Tested By: MLT	Checked By: JNR
	Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
	Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
	Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
	Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 3 of 14
Constant Load Step
Stress: 0.5 tsf

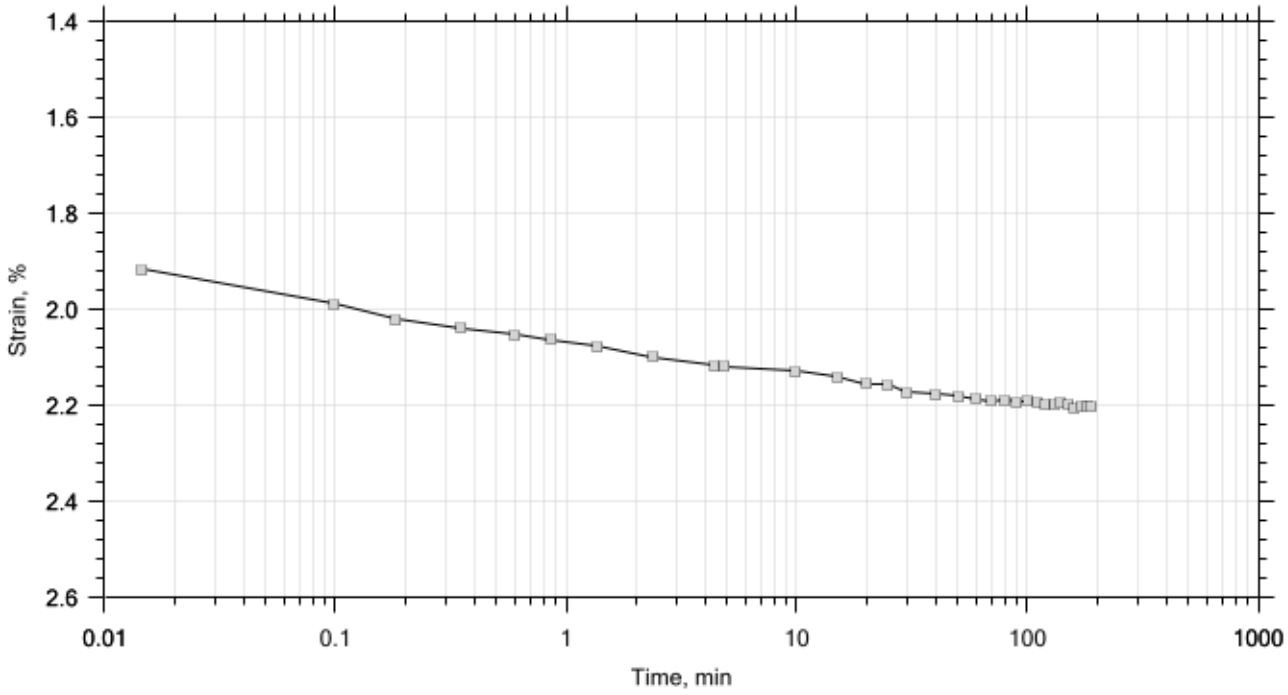


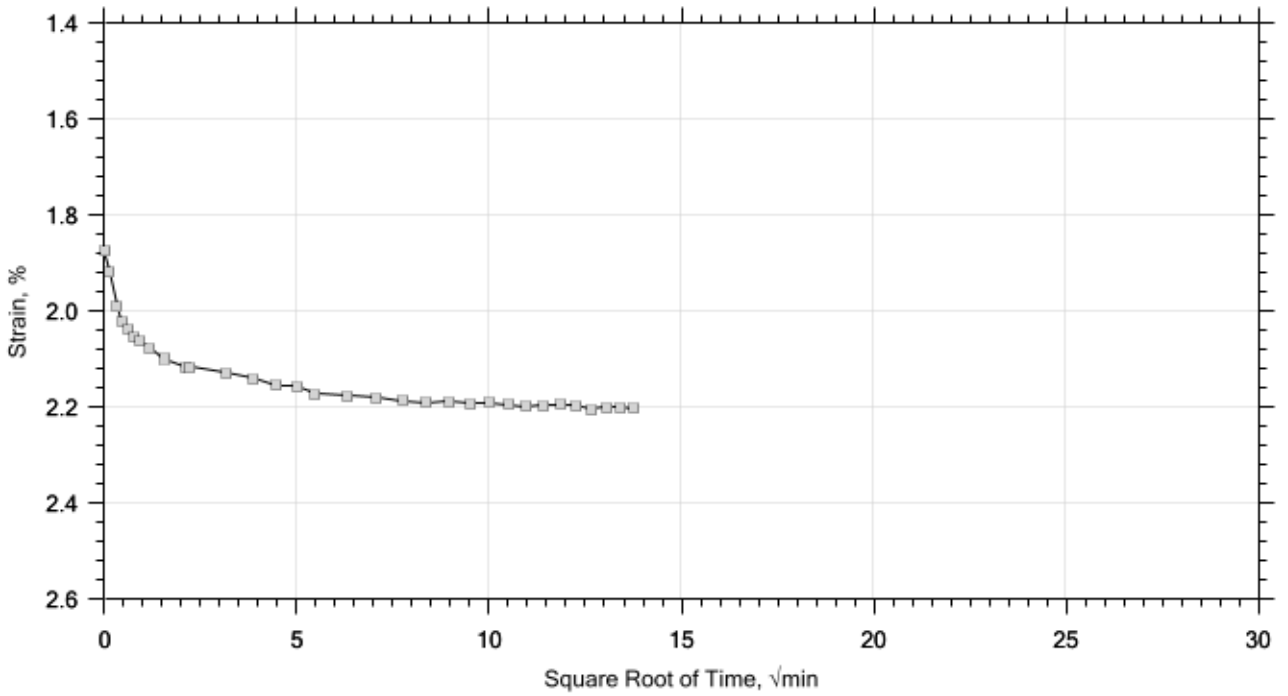


TIMMONS GROUP	Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
	Boring No.: B-01	Tested By: MLT	Checked By: JNR
	Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
	Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
	Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
	Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 4 of 14
Constant Load Step
Stress: 1 tsf

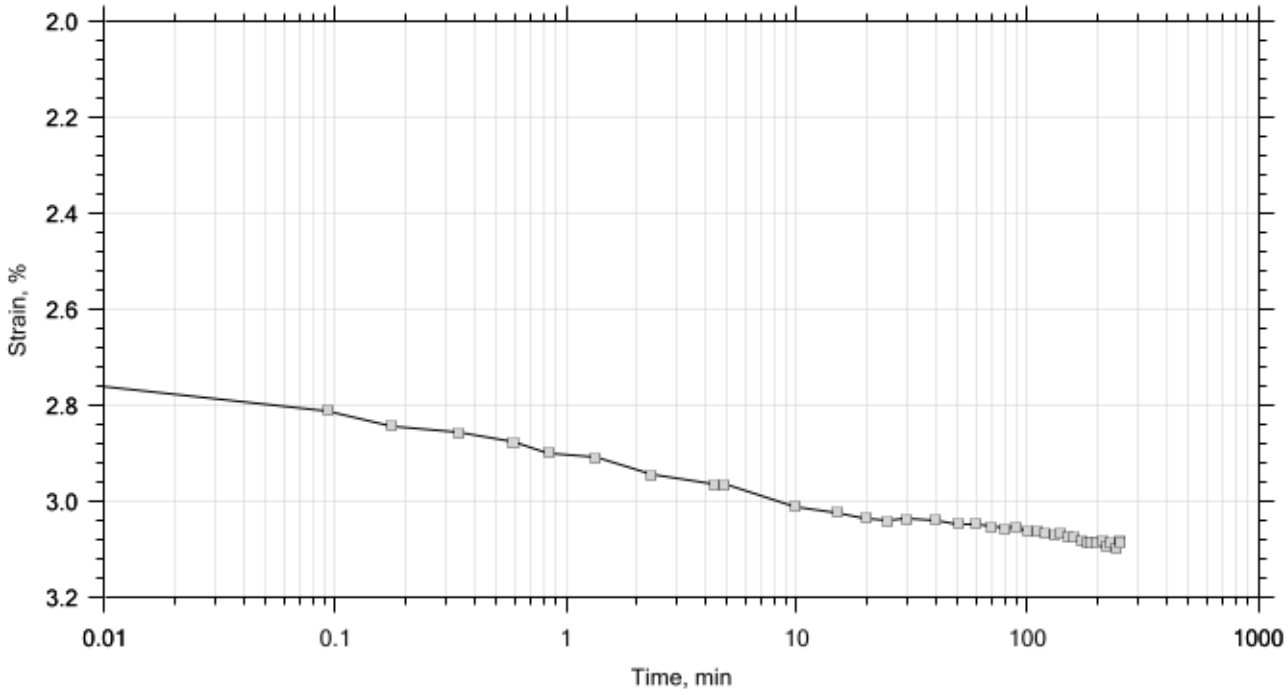


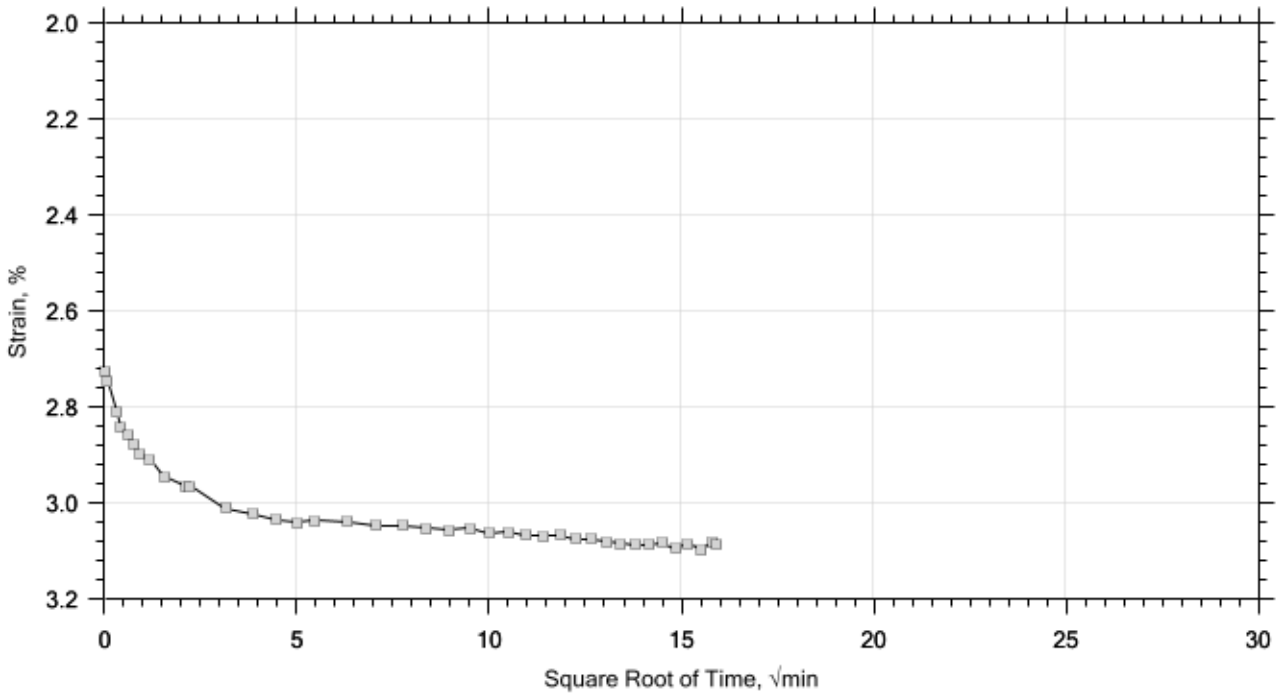


TIMMONS GROUP	Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
	Boring No.: B-01	Tested By: MLT	Checked By: JNR
	Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
	Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
	Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
	Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 5 of 14
Constant Load Step
Stress: 2 tsf

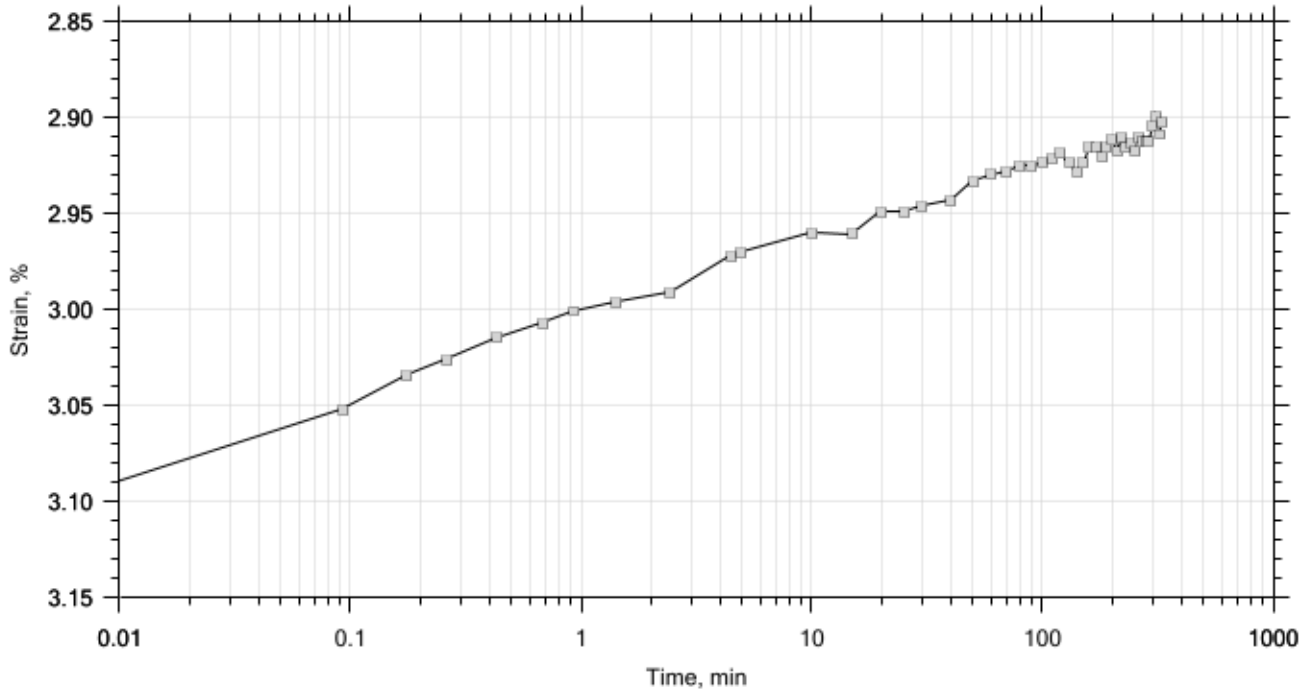


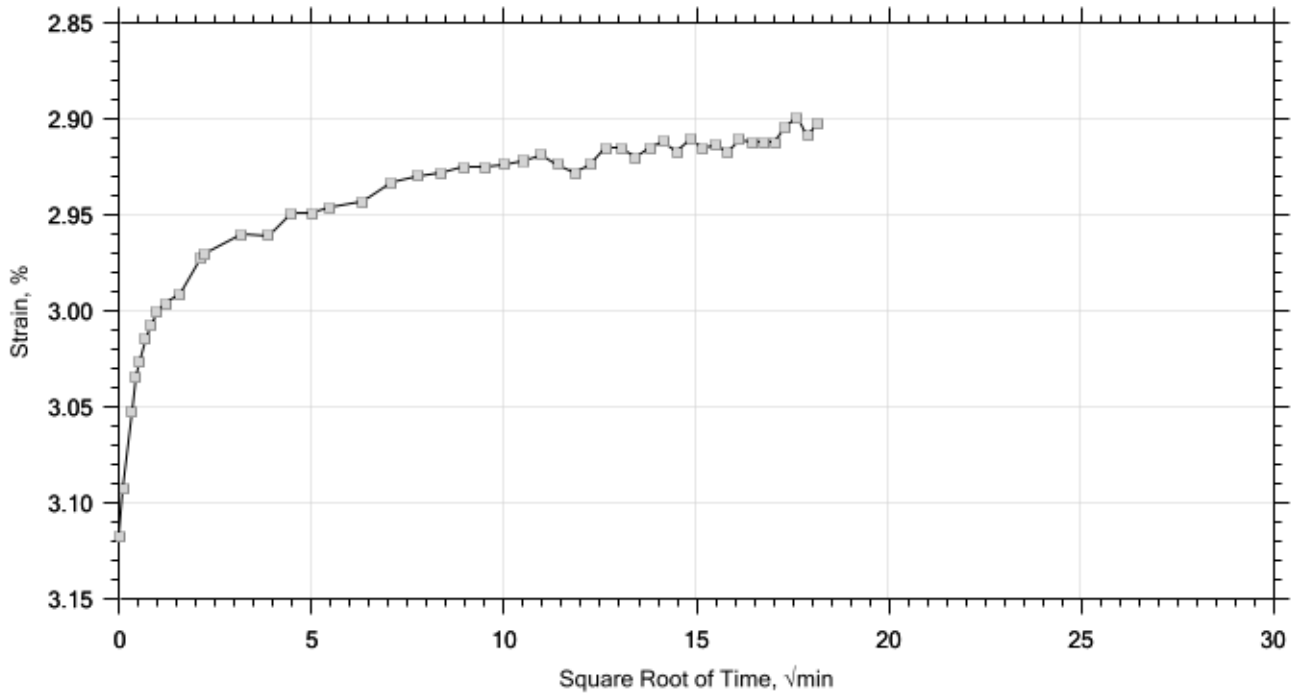


Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 6 of 14
Constant Load Step
Stress: 0.5 tsf

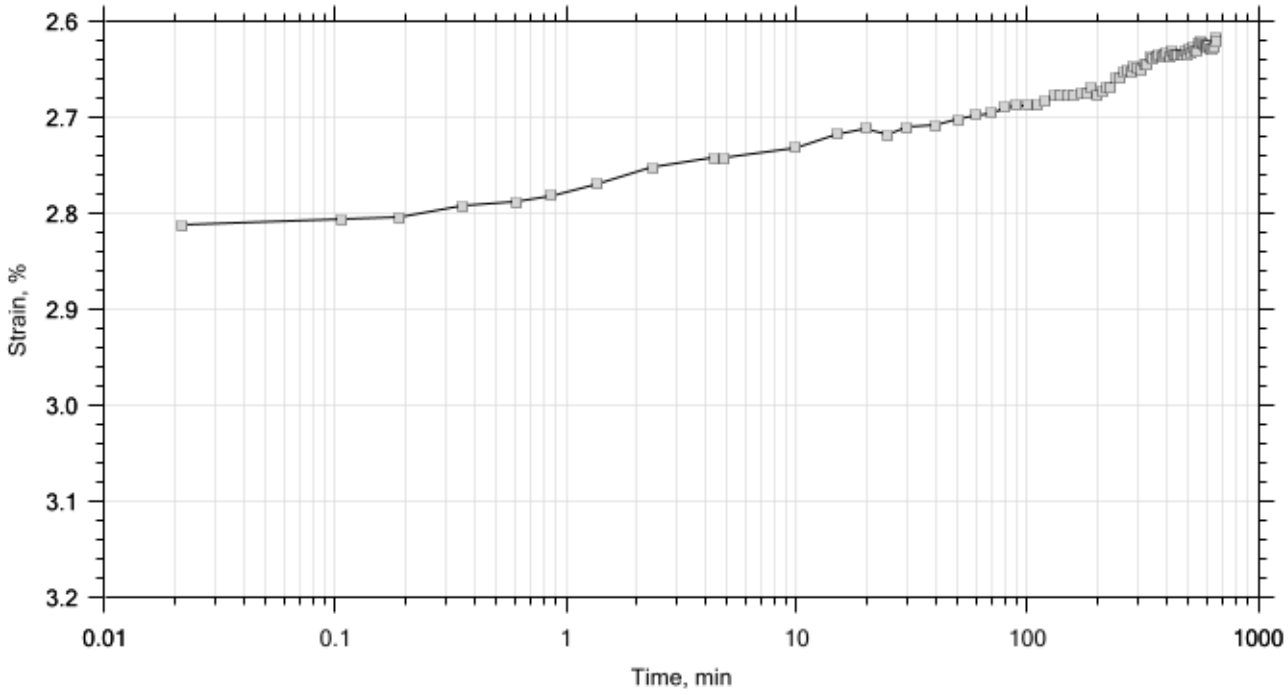


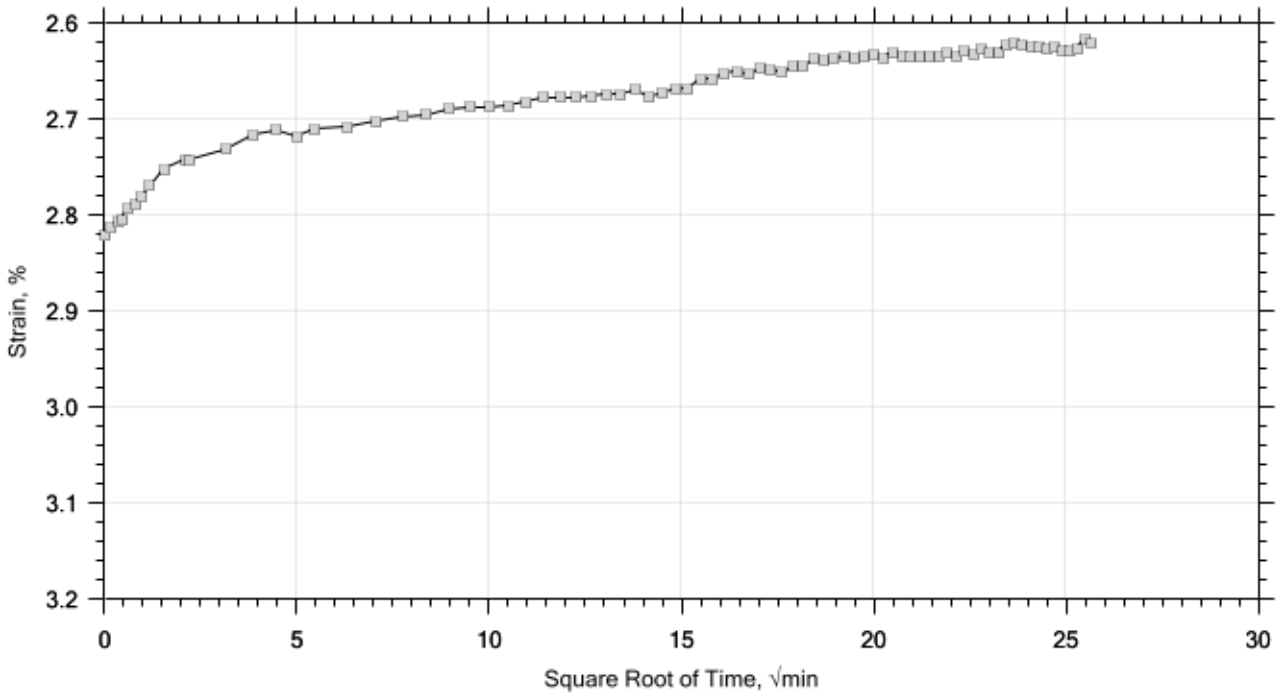


TIMMONS GROUP	Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
	Boring No.: B-01	Tested By: MLT	Checked By: JNR
	Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
	Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
	Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
	Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 7 of 14
Constant Load Step
Stress: 0.125 tsf

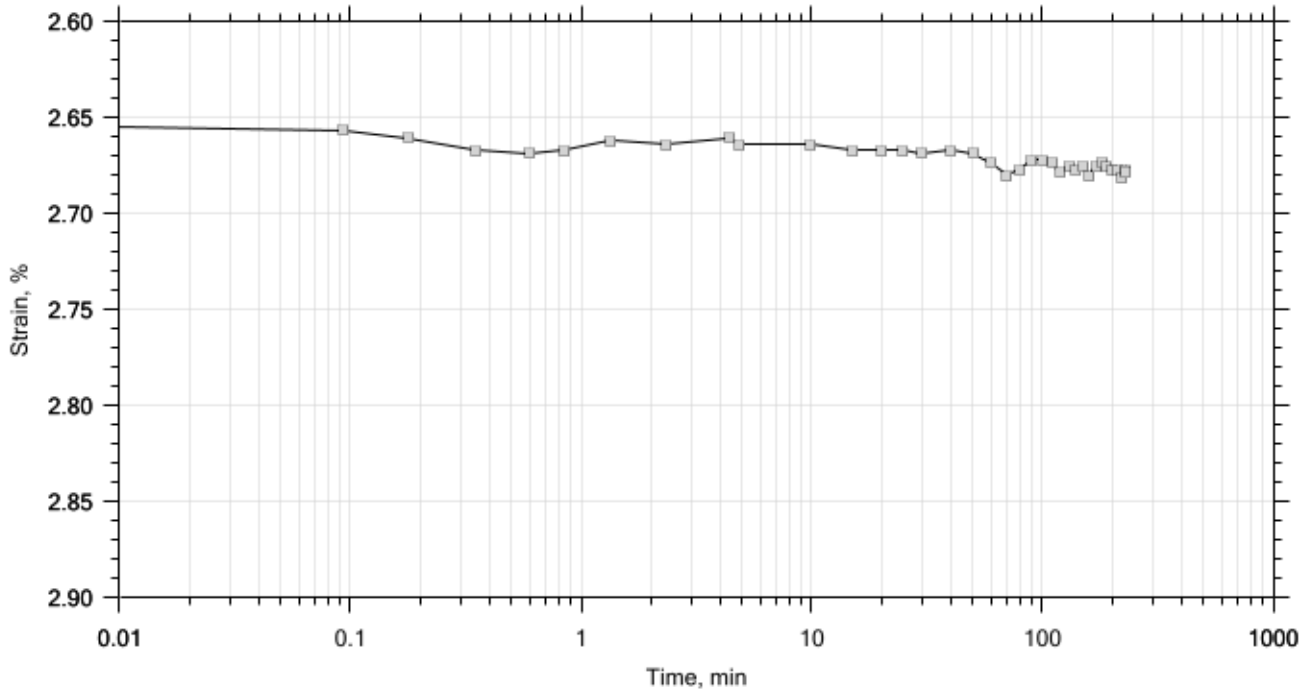


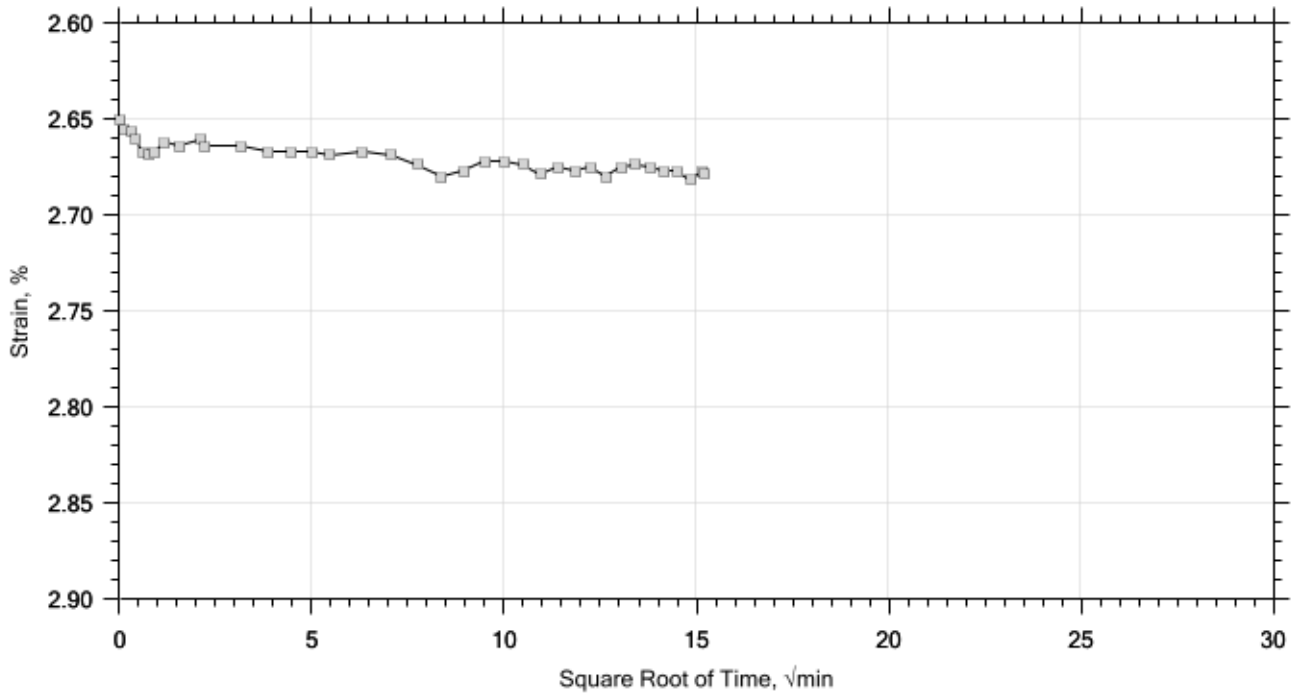


Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 8 of 14
Constant Load Step
Stress: 0.25 tsf

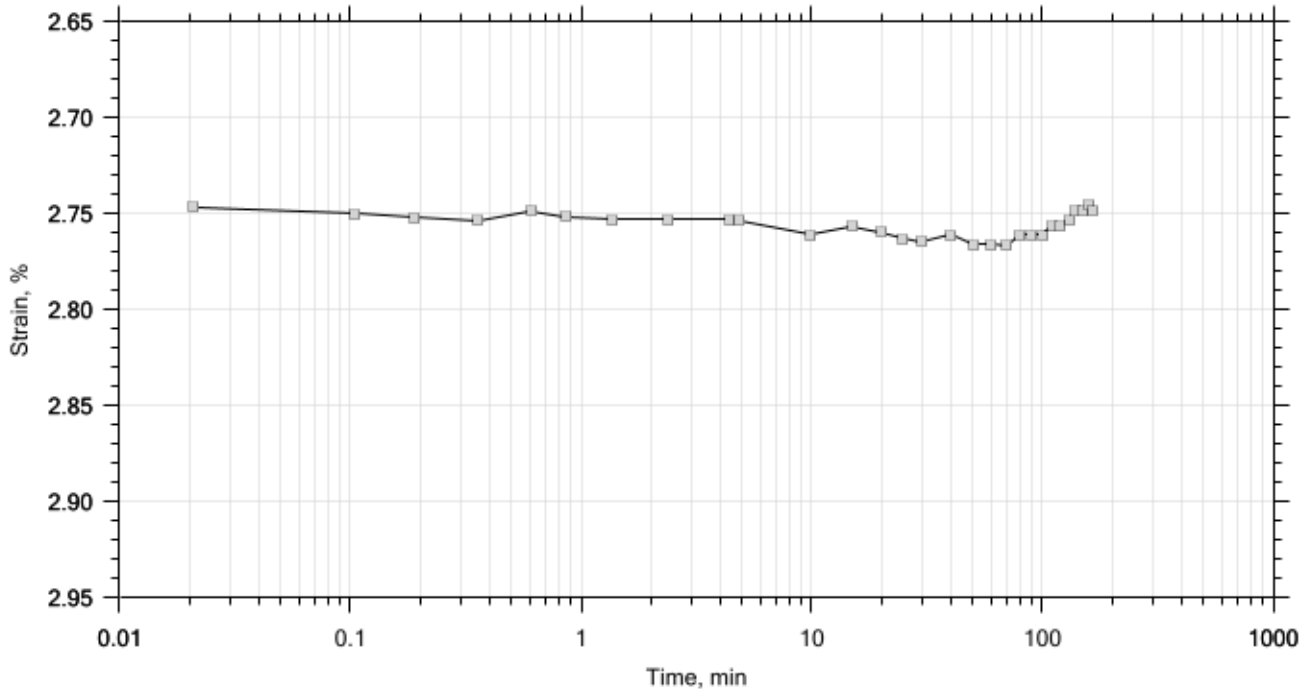


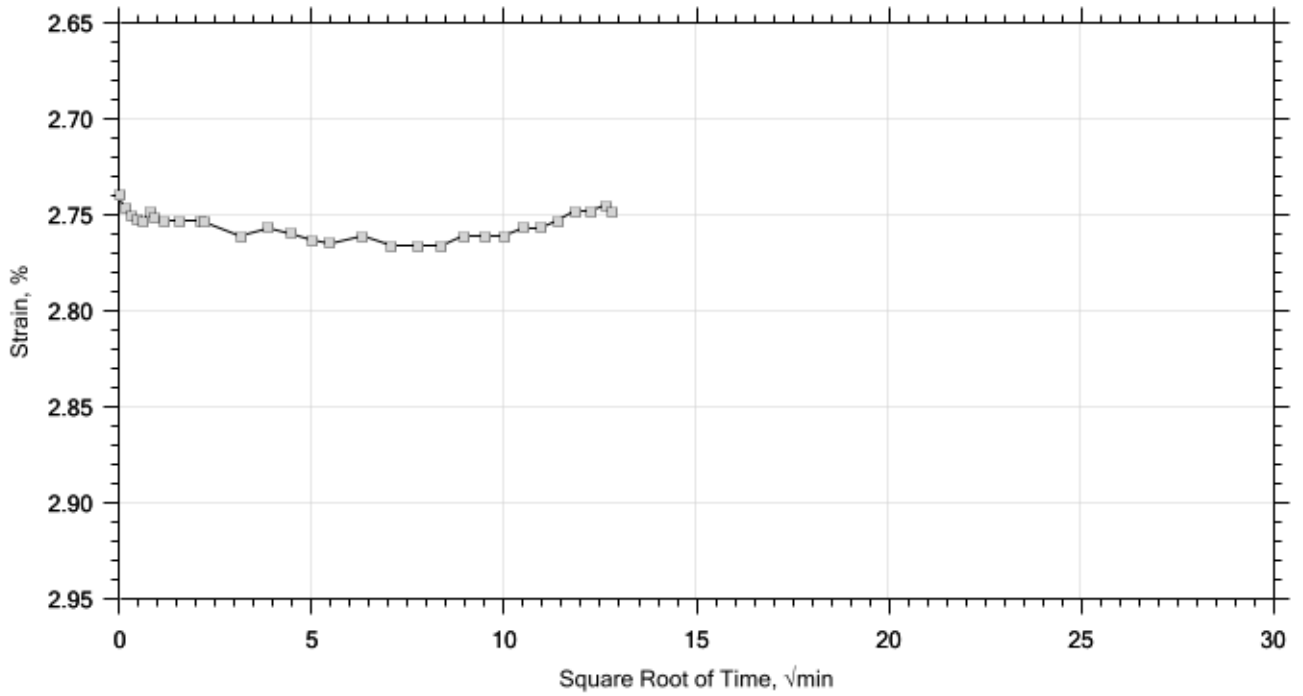


TIMMONS GROUP	Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
	Boring No.: B-01	Tested By: MLT	Checked By: JNR
	Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
	Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
	Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
	Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 9 of 14
Constant Load Step
Stress: 0.5 tsf

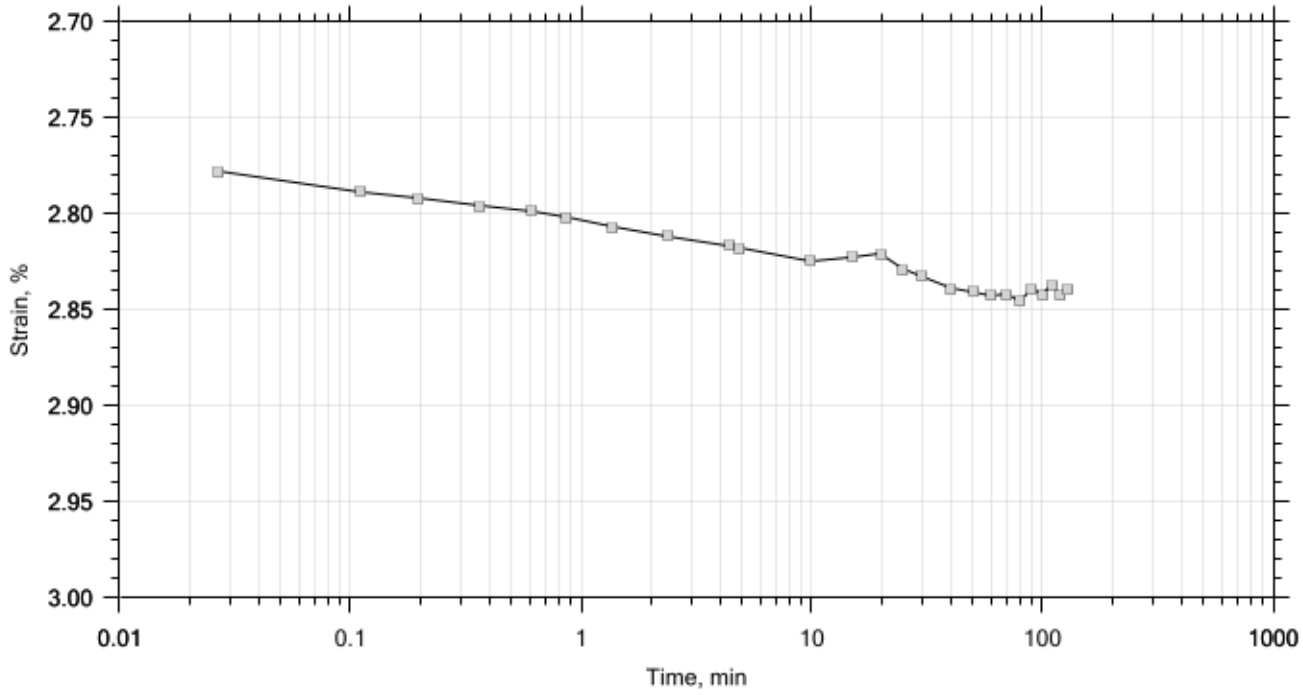


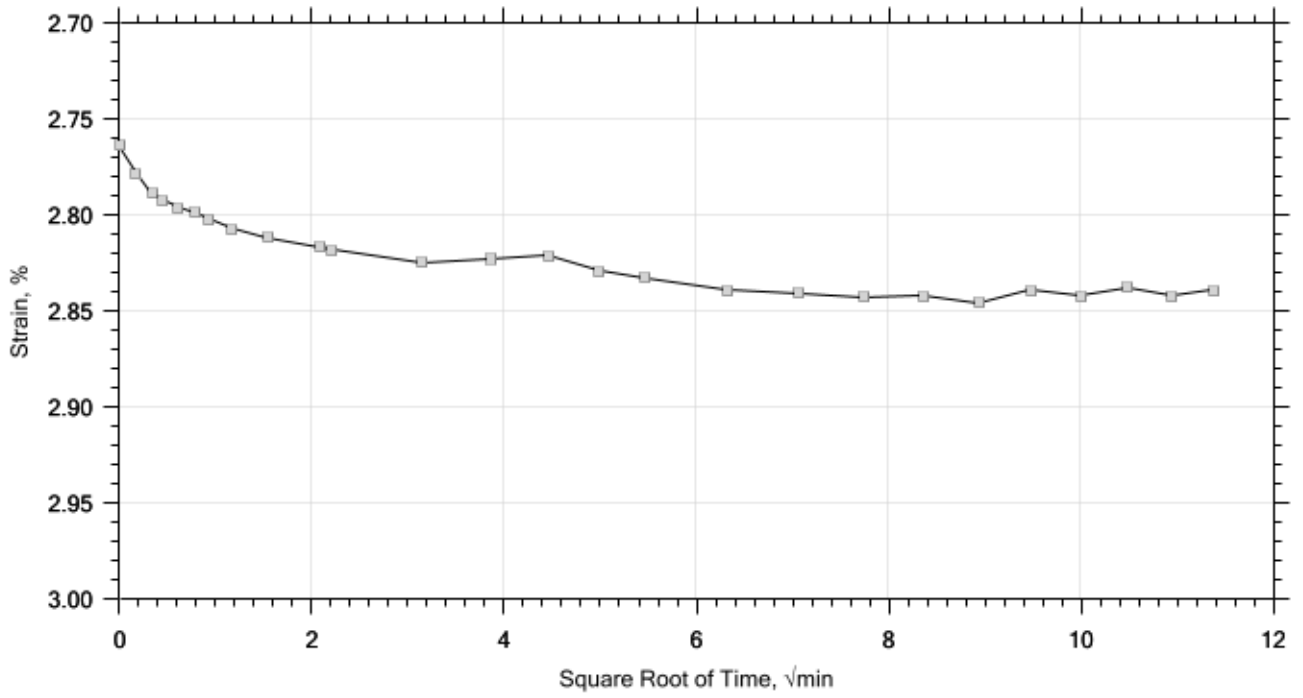


Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 10 of 14
Constant Load Step
Stress: 1 tsf

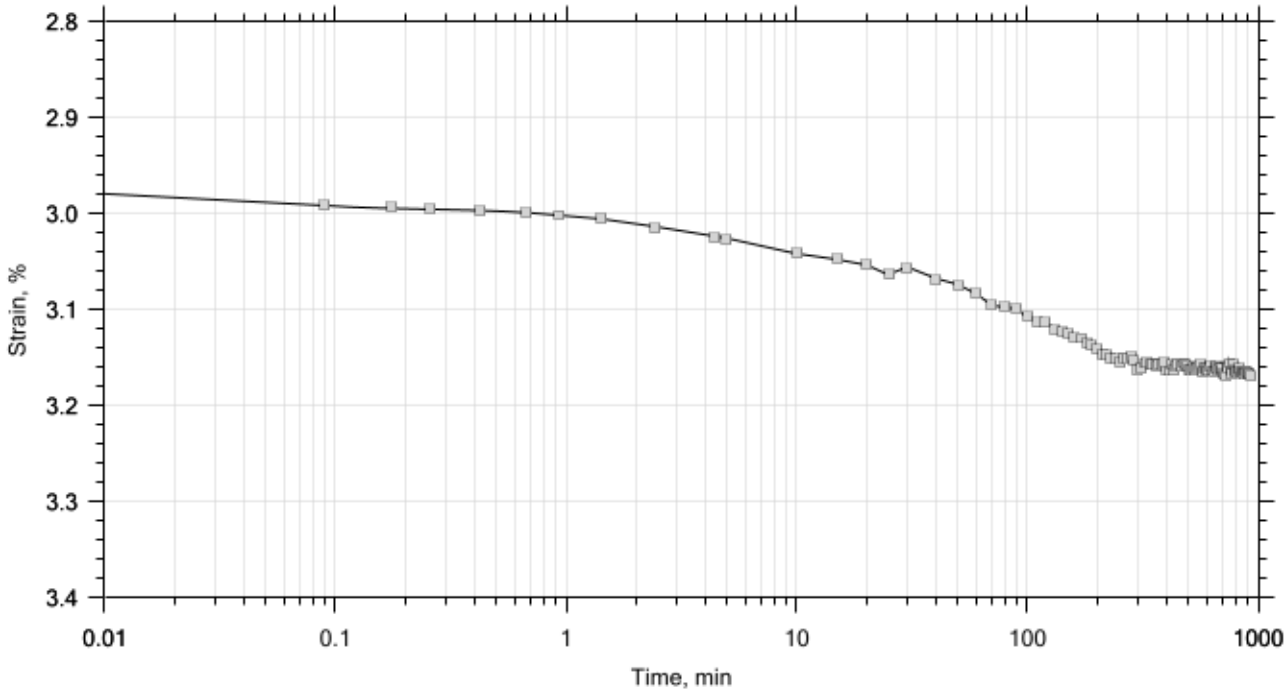


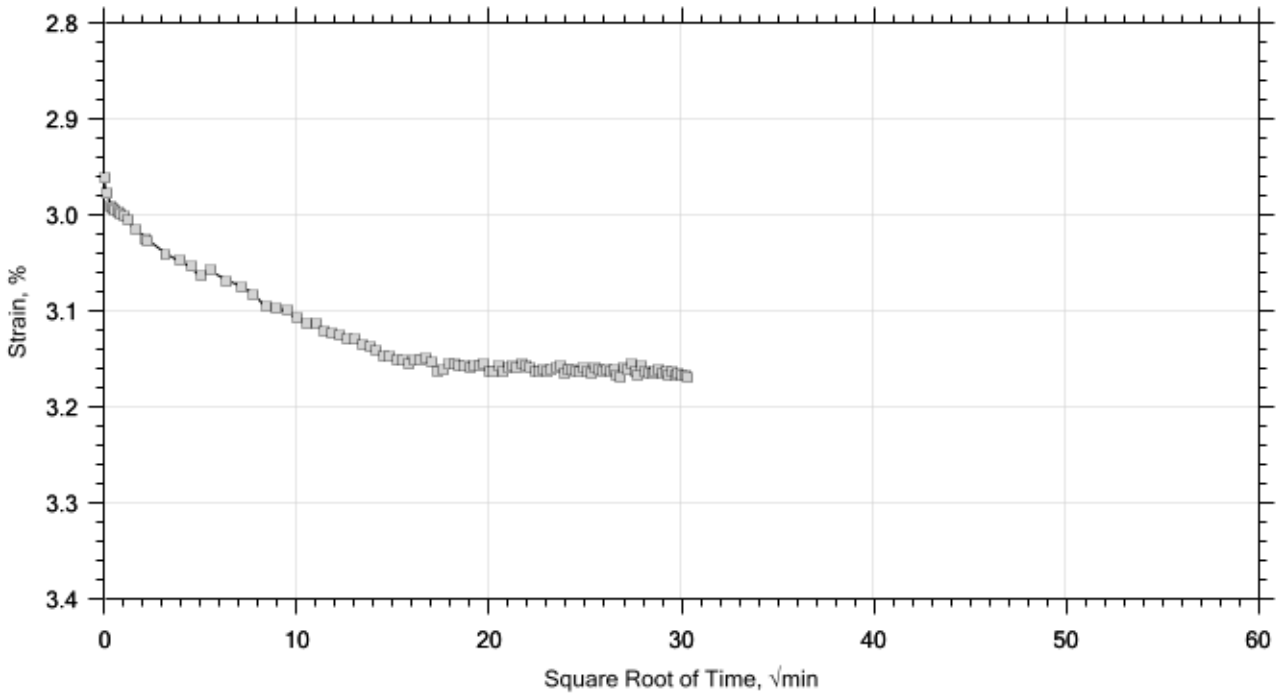


Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 11 of 14
Constant Load Step
Stress: 2 tsf

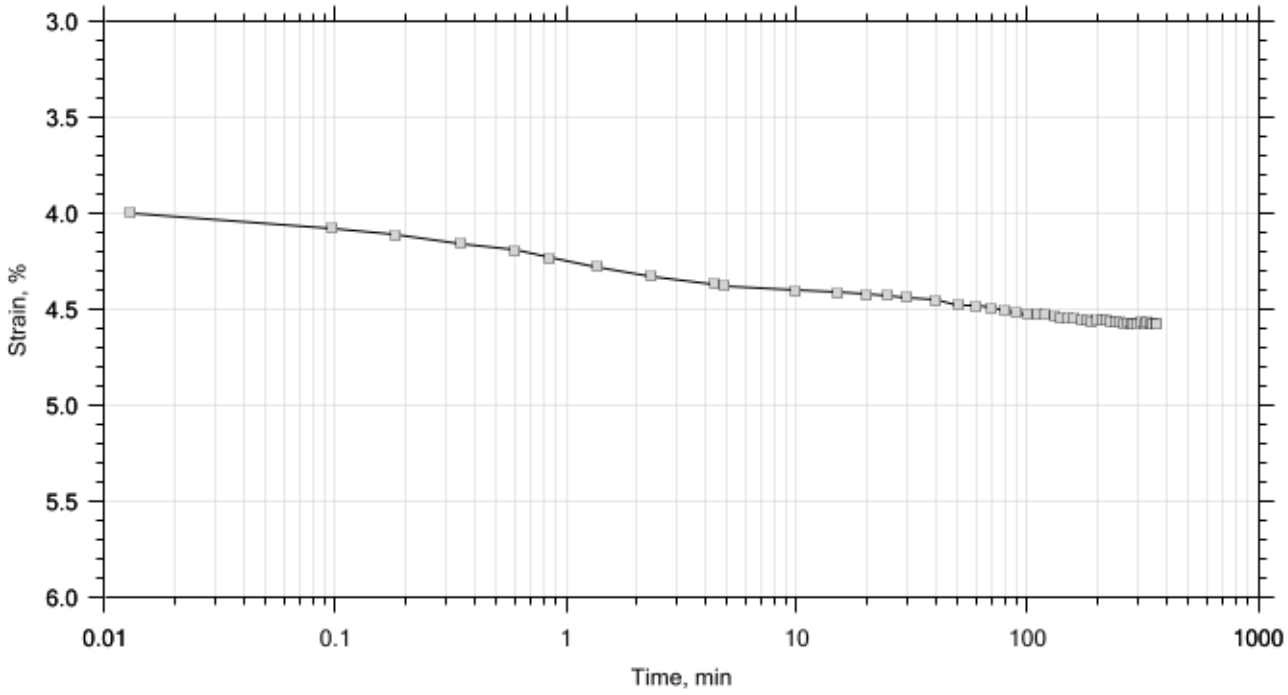


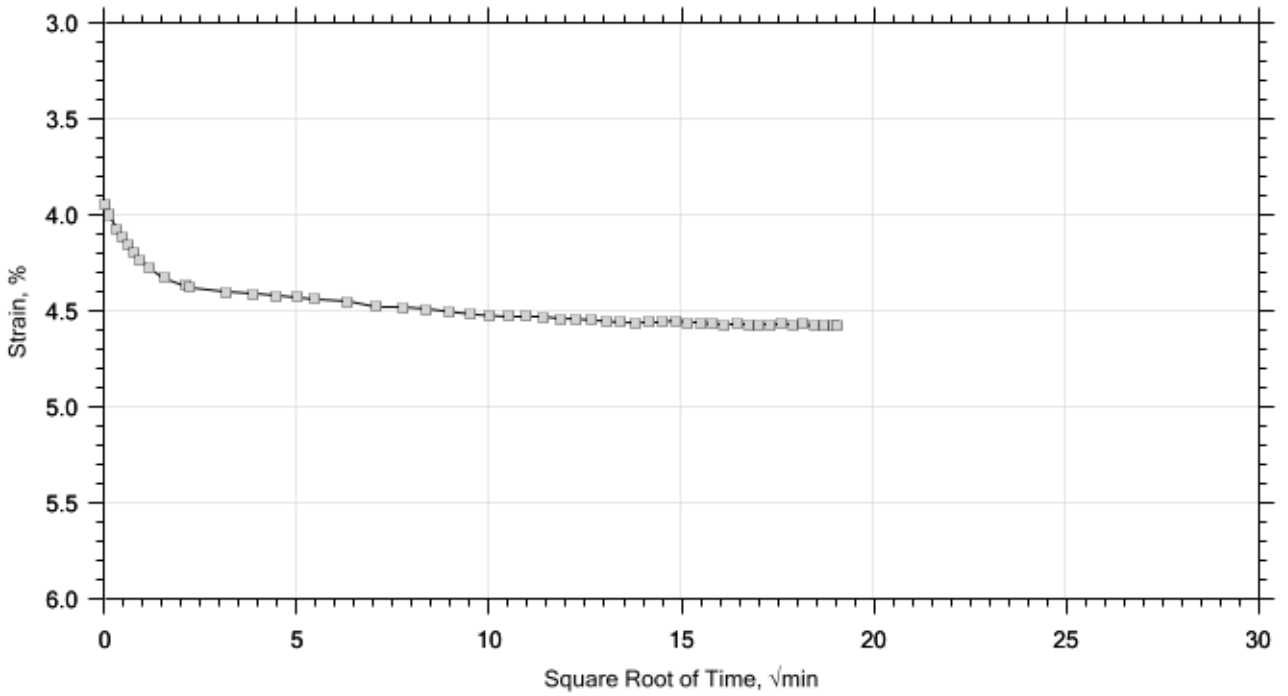


Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 12 of 14
Constant Load Step
Stress: 4 tsf



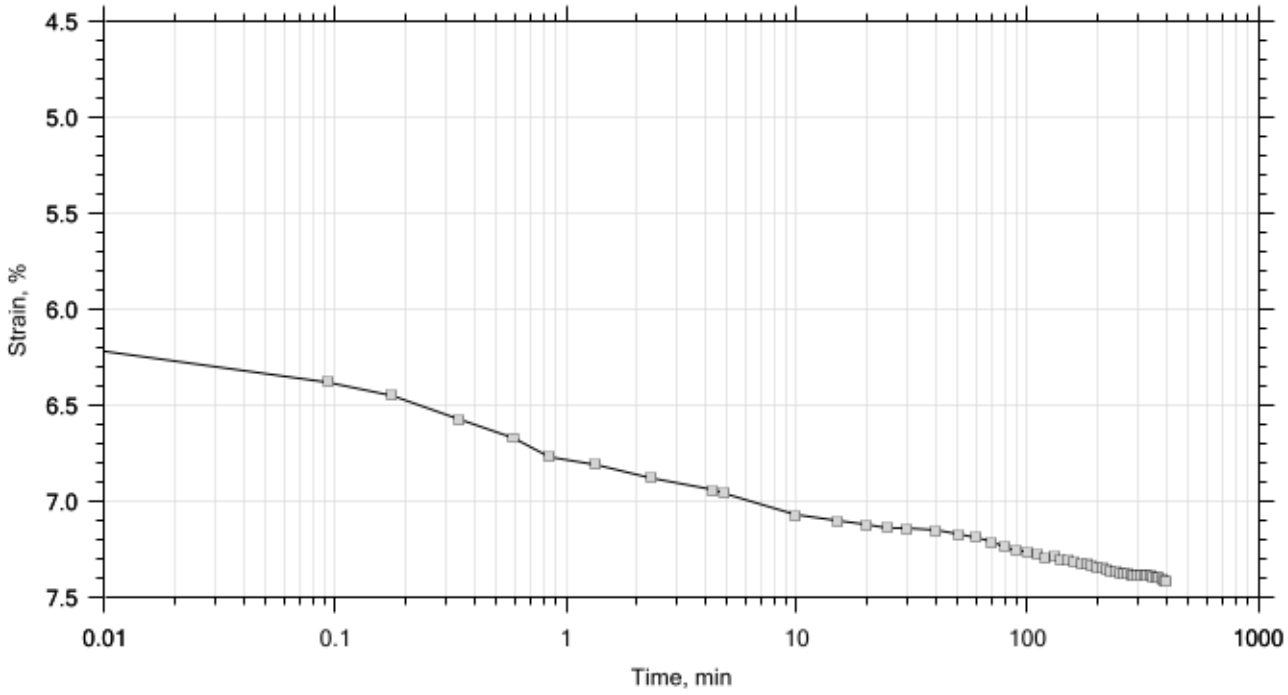


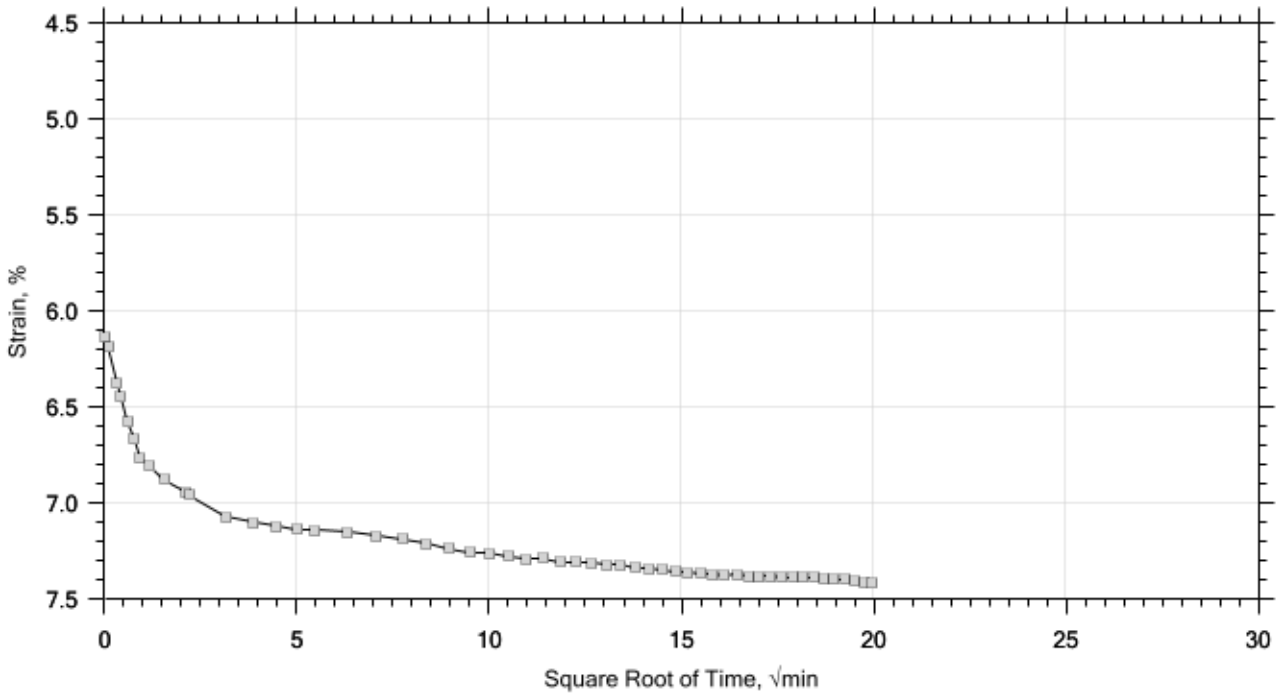
TIMMONS GROUP

Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 13 of 14
Constant Load Step
Stress: 8 tsf

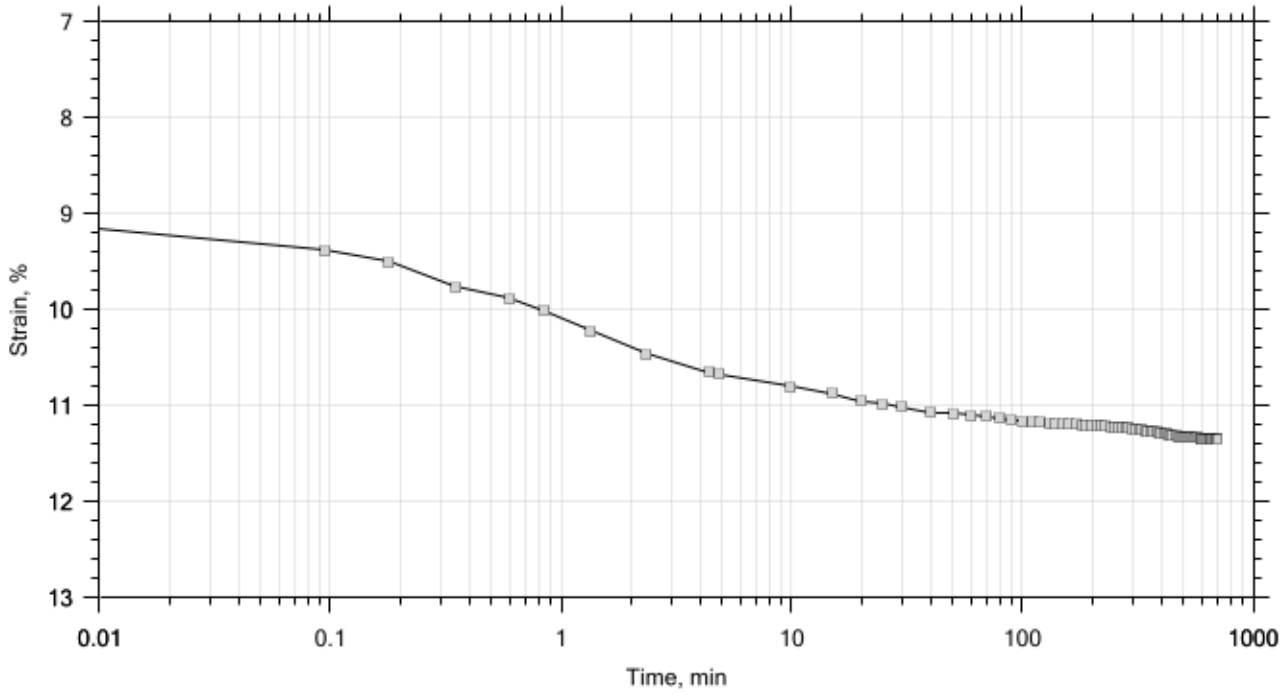


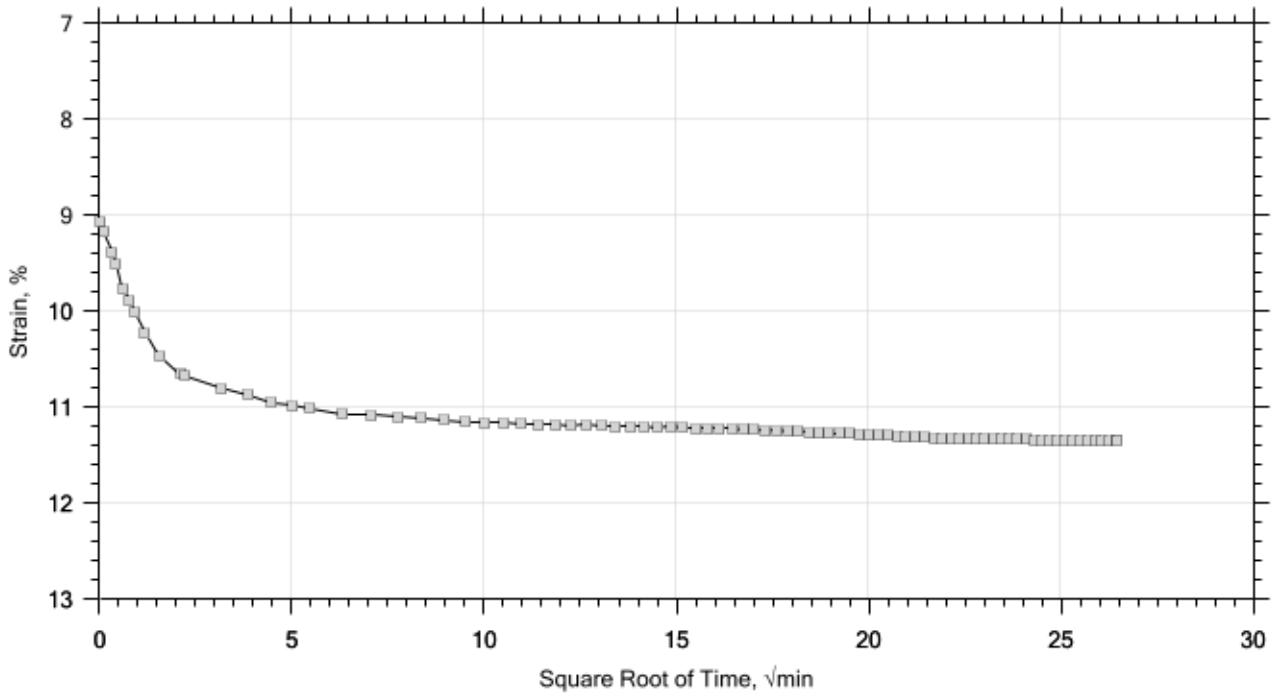


Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Time Curve 14 of 14
Constant Load Step
Stress: 16 tsf





TIMMONS GROUP

Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Specimen Diameter: 2.50 in	Measured Specific Gravity: 2.73	Liquid Limit: 73
Initial Height: 1.00 in	Initial Void Ratio: 1.26	Plastic Limit: 34
Final Height: 0.89 in	Final Void Ratio: 1.01	Plasticity Index: 39

	Before Test Trimmings	Before Test Specimen	After Test Specimen	After Test Trimmings
Container ID	625	RING	T217	T217
Mass Container, gm	124.75	125.18	125.18	125.18
Mass Container + Wet Soil, gm	353.86	260.56	259.99	259.99
Mass Container + Dry Soil, gm	289.08	222.23	222.23	222.23
Mass Dry Soil, gm	164.33	97.05	97.05	97.05
Water Content, %	39.42	39.50	38.91	38.91
Void Ratio	---	1.26	1.01	---
Degree of Saturation, %	---	85.36	105.43	---
Dry Unit Weight, pcf	---	75.319	84.914	---

TIMMONS GROUP

Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		

One-Dimensional Consolidation by ASTM D2435 - Method B

Square Root of Time Coefficients

Step	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	Sq.Rt. T90 min	Cv ft²/day	Mv 1/tsf	k ft/day
1	0.125	0.005443	1.25	0.544	0.000	0.00e+00	4.35e-02	0.00e+00
2	0.250	0.009080	1.24	0.908	6.211	3.36e-01	2.91e-02	3.06e-04
3	0.500	0.01473	1.23	1.47	24.725	8.37e-02	2.26e-02	5.91e-05
4	1.00	0.02133	1.22	2.13	5.482	3.73e-01	1.32e-02	1.53e-04
5	2.00	0.03040	1.19	3.04	11.034	1.82e-01	9.07e-03	5.16e-05
6	0.500	0.02949	1.20	2.95	9.871	2.02e-01	6.05e-04	3.82e-06
7	0.125	0.02620	1.20	2.62	551.343	3.63e-03	8.77e-03	9.94e-07
8	0.250	0.02678	1.20	2.68	0.000	0.00e+00	4.63e-03	0.00e+00
9	0.500	0.02748	1.20	2.75	0.000	0.00e+00	2.79e-03	0.00e+00
10	1.00	0.02839	1.20	2.84	56.794	3.53e-02	1.83e-03	2.01e-06
11	2.00	0.03155	1.19	3.15	142.632	1.40e-02	3.16e-03	1.38e-06
12	4.00	0.04419	1.16	4.42	9.320	2.11e-01	6.32e-03	4.15e-05
13	8.00	0.07122	1.10	7.12	9.484	1.98e-01	6.76e-03	4.19e-05
14	16.0	0.1111	1.01	11.1	30.784	5.69e-02	4.98e-03	8.85e-06

TIMMONS GROUP

Project: JDR District Court	Location: Staunton, VA	Project No.: 60591
Boring No.: B-01	Tested By: MLT	Checked By: JNR
Sample No.: ST	Test Date: 11/13-11/18/23	Depth: 5 to 7 feet
Test No.: 9500	Sample Type: Trimmed Tube Specimen	Elevation: 1547 feet
Description: Orange, ELASTIC SILT, trace sand, trace gravel (MH)		
Remarks:		
Displacement at End of Primary		

Material Classification

ASTM D2487

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

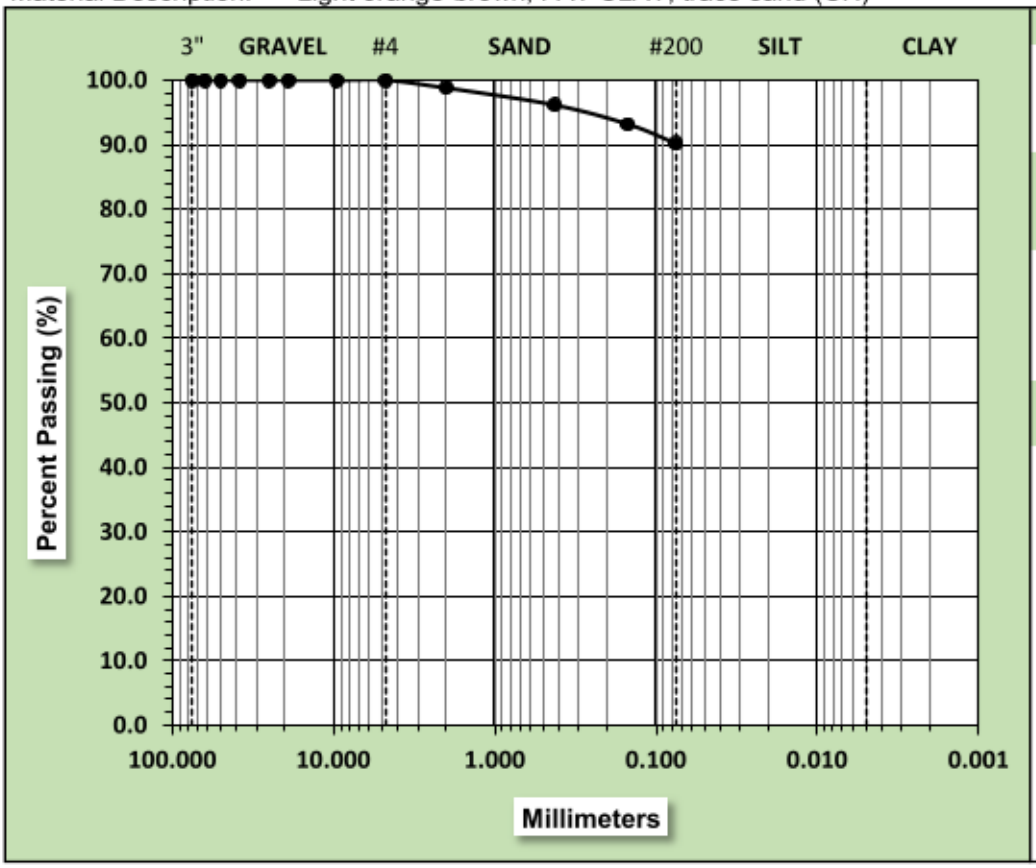
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-01	Sample #:	S-4	Sample Date:	9/28/2023
Depth:	6 to 8 feet	Offset:	N/A	Lab Control #:	9501

Material Description: Light orange-brown, FAT CLAY, trace sand (CH)



Soil Properties	
Natural Moisture Content	37.6%
Specific Gravity	---
Liquid Limit	67
Plastic Limit	25
Plastic Index	42
Group Symbol	CH
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	
3/4"	
3/8"	
#4	100.0
#10	98.9
#40	96.2
#100	93.2
#200	90.2

Maximum Particle Size #4 Gravel 0.0% Sand 9.8% Silt and Clay 90.2%

C_u --- **C_c** ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/12/23 by Gordan Ek
AASHTO T11 & T88 tested on 10/16/23 & 10/18/23 by Gordan Ek
AASHTO T89 Method B & T90 tested on 11/1/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

Information included in this report relates only to material sampled at the time of testing.
This report shall not be reproduced, except in full, without the written approval of Timmons Group

Material Classification

ASTM D2487

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

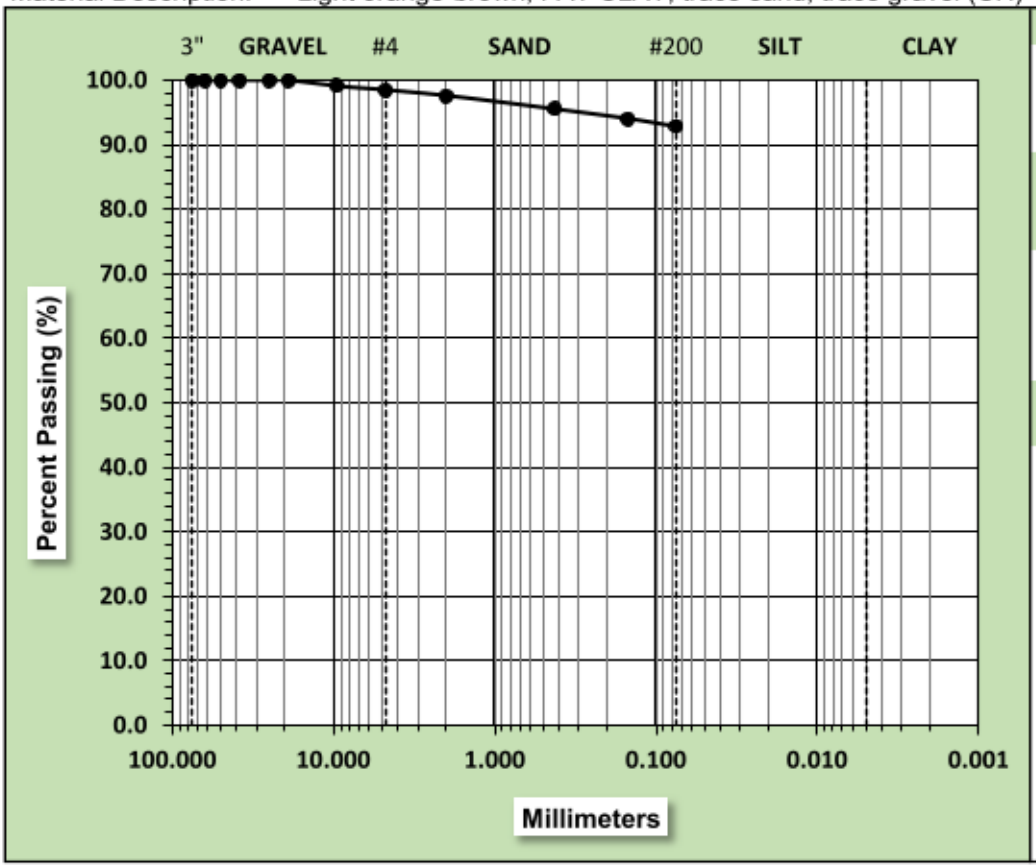
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-02	Sample #:	S-4	Sample Date:	9/28/2023
Depth:	6 to 8 feet	Offset:	N/A	Lab Control #:	9502

Material Description: Light orange-brown, FAT CLAY, trace sand, trace gravel (CH)



Soil Properties	
Natural Moisture Content	35.5%
Specific Gravity	---
Liquid Limit	60
Plastic Limit	23
Plastic Index	37
Group Symbol	CH
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	
3/4"	100.0
3/8"	99.2
#4	98.4
#10	97.5
#40	95.6
#100	94.0
#200	92.9

Maximum Particle Size 3/4" **Gravel** 1.6% **Sand** 5.5% **Silt and Clay** 92.9%

C_u --- C_c ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/12/23 by Gordan Ek
AASHTO T11 & T88 tested on 10/16/23 & 10/18/23 by Gordan Ek
AASHTO T89 Method B & T90 tested on 11/1/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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Material Classification

ASTM D2487

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

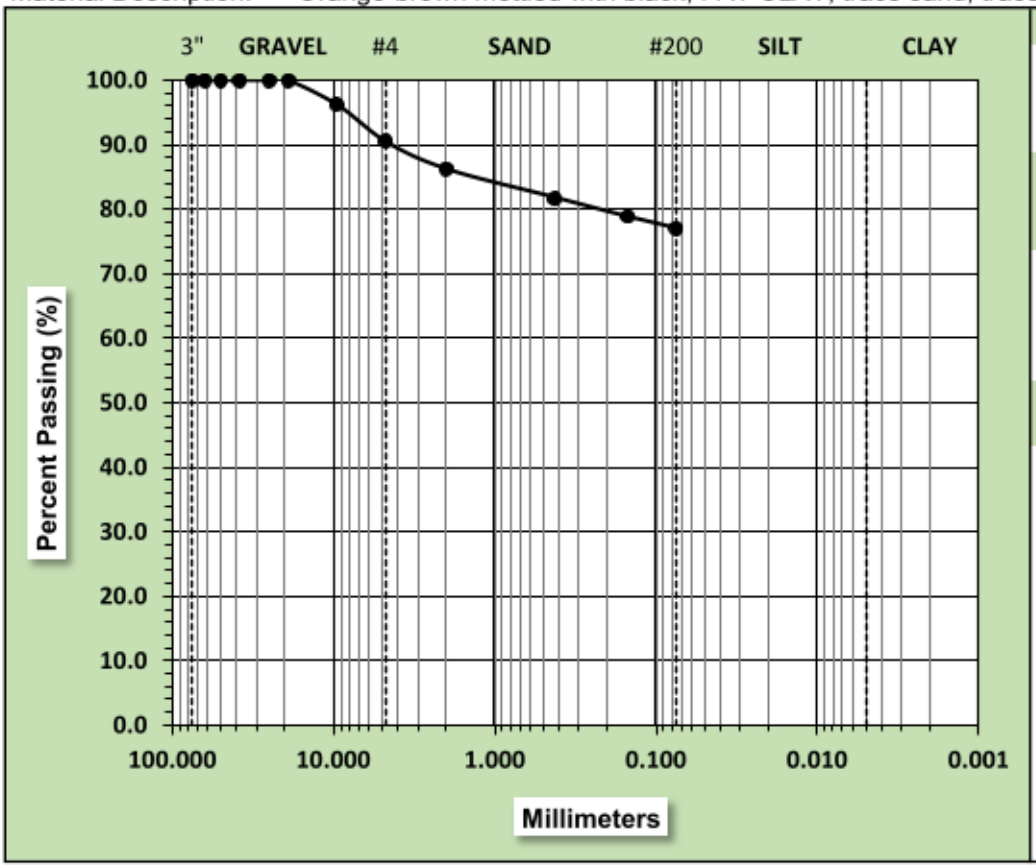
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-03	Sample #:	S-5	Sample Date:	9/28/2023
Depth:	8 to 10 feet	Offset:	N/A	Lab Control #:	9503

Material Description: Orange-brown mottled with black, FAT CLAY, trace sand, trace gravel (CH)



Soil Properties	
Natural Moisture Content	24.0%
Specific Gravity	---
Liquid Limit	50
Plastic Limit	22
Plastic Index	28
Group Symbol	CH
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	
3/4"	100.0
3/8"	96.3
#4	90.6
#10	86.3
#40	81.7
#100	78.9
#200	77.0

Maximum Particle Size 3/4" **Gravel 9.4%** **Sand 13.6%** **Silt and Clay 77.0%**

C_u --- **C_c** ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/12/23 by Gordan Ek
AASHTO T11 & T88 tested on 10/16/23 & 10/18/23 by Gordan Ek
AASHTO T89 Method B & T90 tested on 11/1/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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Material Classification

ASTM D2487

TIMMONS GROUP
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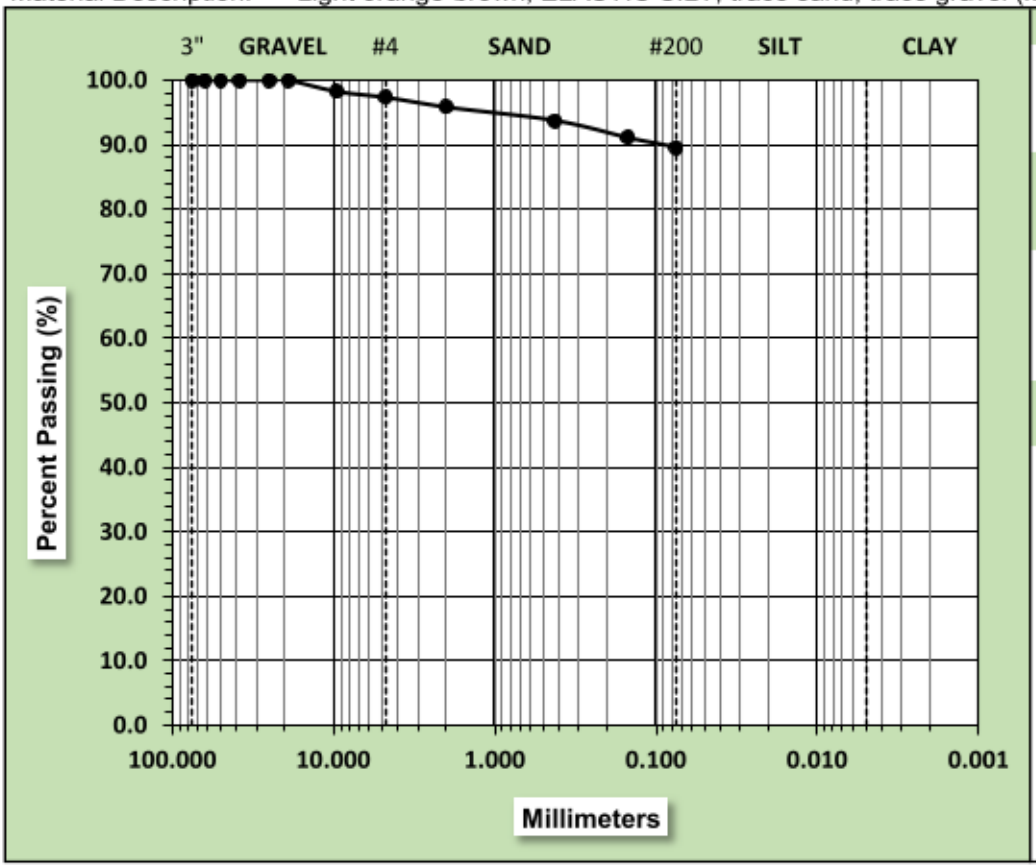
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-04	Sample #:	S-2	Sample Date:	9/28/2023
Depth:	2 to 4 feet	Offset:	N/A	Lab Control #:	9504

Material Description: Light orange-brown, ELASTIC SILT, trace sand, trace gravel (MH)



Soil Properties	
Natural Moisture Content	31.7%
Specific Gravity	---
Liquid Limit	69
Plastic Limit	35
Plastic Index	34
Group Symbol	MH
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	
3/4"	100.0
3/8"	98.3
#4	97.4
#10	95.9
#40	93.7
#100	91.2
#200	89.5

Maximum Particle Size 3/4" **Gravel** 2.6% **Sand** 7.9% **Silt and Clay** 89.5%

C_u --- C_c ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/12/23 by Gordan Ek
AASHTO T11 & T88 tested on 10/16/23 & 10/18/23 by Gordan Ek
AASHTO T89 Method B & T90 tested on 11/1/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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Material Classification

ASTM D2487

TIMMONS GROUP
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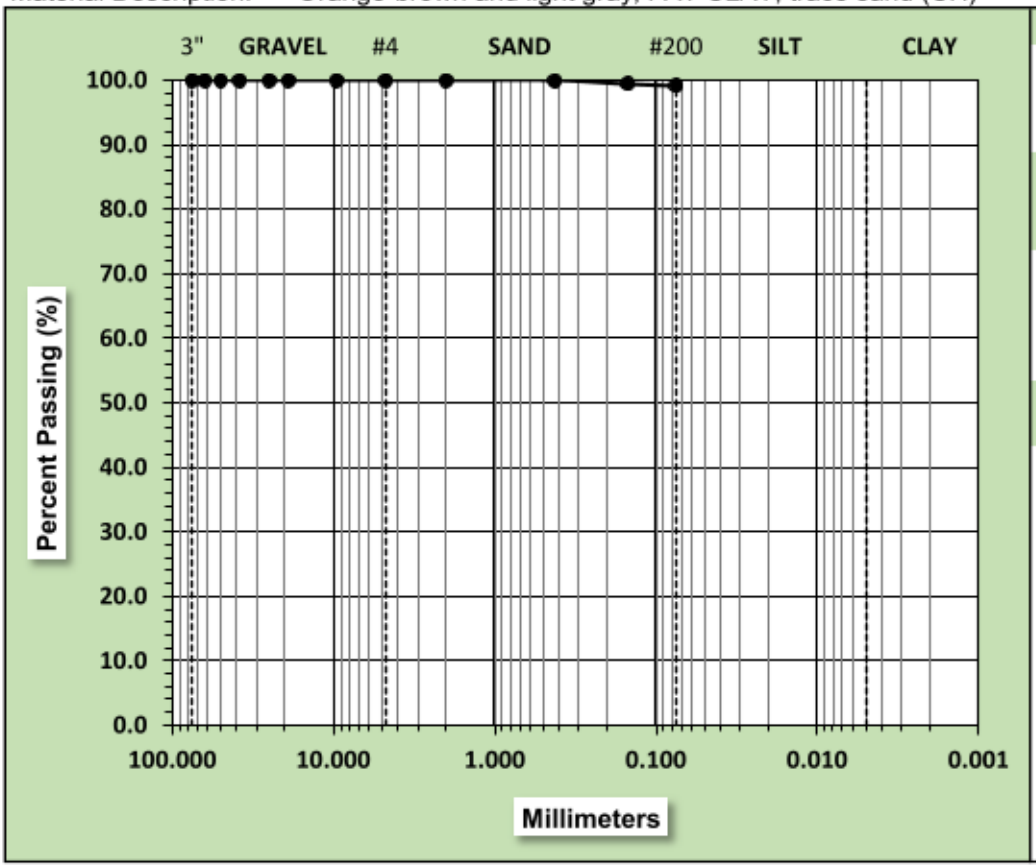
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-04	Sample #:	S-6	Sample Date:	9/28/2023
Depth:	13 to 15 feet	Offset:	N/A	Lab Control #:	9505

Material Description: Orange-brown and light gray, FAT CLAY, trace sand (CH)



Soil Properties	
Natural Moisture Content	39.2%
Specific Gravity	---
Liquid Limit	67
Plastic Limit	31
Plastic Index	36
Group Symbol	CH
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	
3/4"	
3/8"	
#4	
#10	100.0
#40	99.9
#100	99.5
#200	99.2

Maximum Particle Size #10 **Gravel 0.0%** **Sand 0.8%** **Silt and Clay 99.2%**

C_u --- **C_c** ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/12/23 by Gordan Ek
AASHTO T11 & T88 tested on 10/16/23 & 10/19/23 by Gordan Ek
AASHTO T89 Method B & T90 tested on 10/26/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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Material Classification

ASTM D2487

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

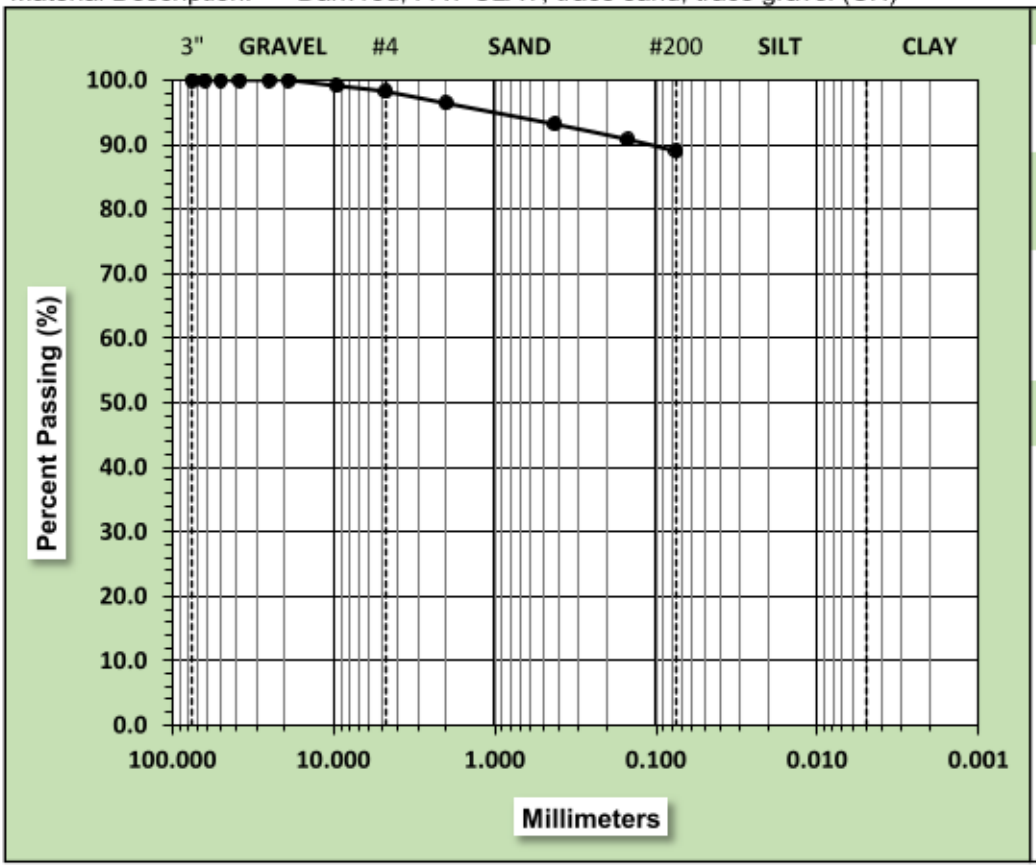
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-05	Sample #:	Bulk	Sample Date:	9/28/2023
Depth:	0.5 to 5 feet	Offset:	N/A	Lab Control #:	9506

Material Description: Dark red, FAT CLAY, trace sand, trace gravel (CH)



Soil Properties	
As-Received Moisture Content	31.3%
Specific Gravity	---
Liquid Limit	60
Plastic Limit	23
Plastic Index	37
Group Symbol	CH
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	
3/4"	100.0
3/8"	99.2
#4	98.3
#10	96.5
#40	93.3
#100	90.8
#200	89.0

Maximum Particle Size 3/4" **Gravel** 1.7% **Sand** 9.3% **Silt and Clay** 89.0%

C_u --- C_c ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/16/23 by Ken Pruner
AASHTO T11 & T88 tested on 10/17/23 & 10/18/23 by Gordan Ek
AASHTO T89 Method B & T90 tested on 11/2/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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MOISTURE-DENSITY RELATIONSHIP REPORT

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility	Test Date(s):	10/25/2023
Project Location:	2030 W. Beverly St., Staunton, VA	Tested By:	Ken Pruner
Client Name:	Moseley Architects		

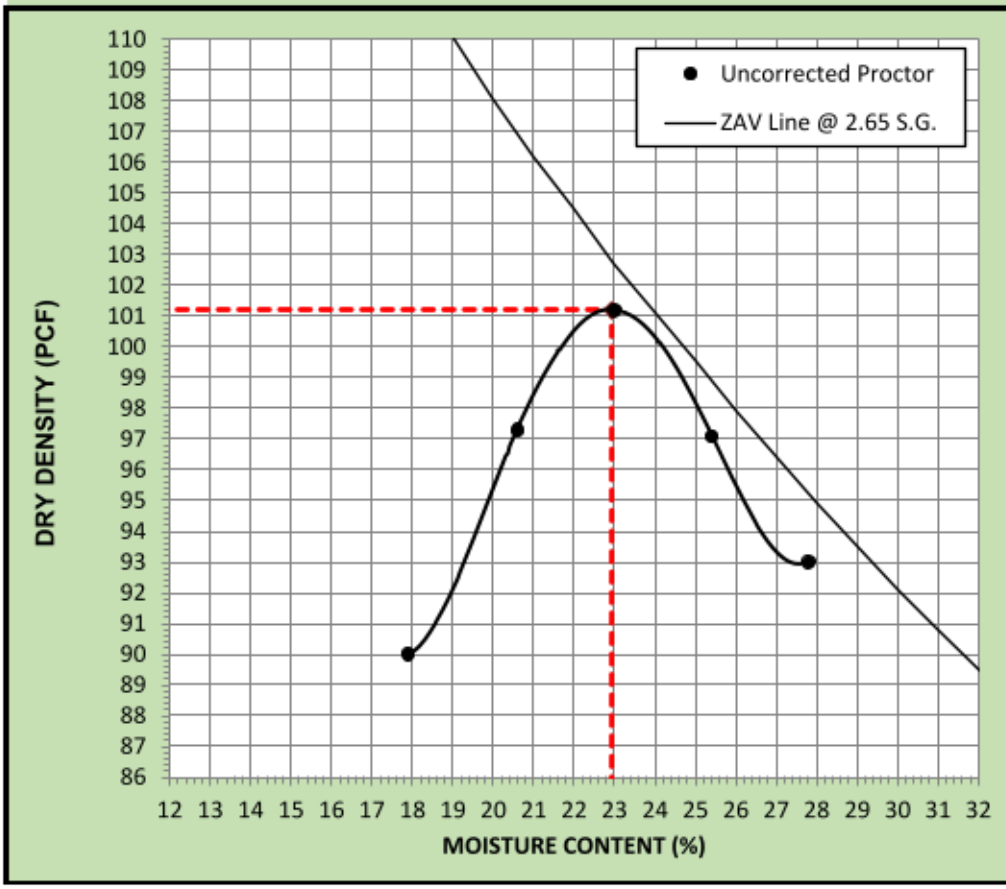
SAMPLE INFORMATION

Location:	B-05	Sample #:	Bulk	Sample Date:	9/28/2023
Depth:	0.5 to 5 feet	Offset:	N/A	Lab Control #:	9506

Material Description: Dark red, FAT CLAY, trace sand, trace gravel (CH)

Maximum Dry Density **101.2** **PCF** **Optimum Moisture Content** **23.0** **%**

AASHTO T-99 Method A



Soil Properties	
As-Received Moisture Content	31.3%
Assumed Specific Gravity	2.65
Liquid Limit	60
Plastic Limit	23
Plastic Index	37
%Passing	
1.5"	
3/4"	100.0
3/8"	99.2
No. 4	98.3
No. 10	96.5
No. 40	93.3
No. 200	89.0
Corrected Moisture-Density	
MDD (pcf)	---
OMC (%)	---
Assumed Properties of Oversize Fraction	
Sp.Gr.(OD)	---
Absorption	---

The Moisture-Density Curve Displayed relates only to material passing a No. 4 sieve.
Air-dried material passing a No. 4 sieve was prepared then compacted with a circular, manual rammer.

References / Comments / Deviations:

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

Information included in this report relates only to material sampled at the time of testing.
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Form No. TR-CBR
Revision No. 1
Revision Date: 05/18/18

CBR (California Bearing Ratio) of Laboratory Compacted Soil

AASHTO T193

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

PROJECT INFORMATION

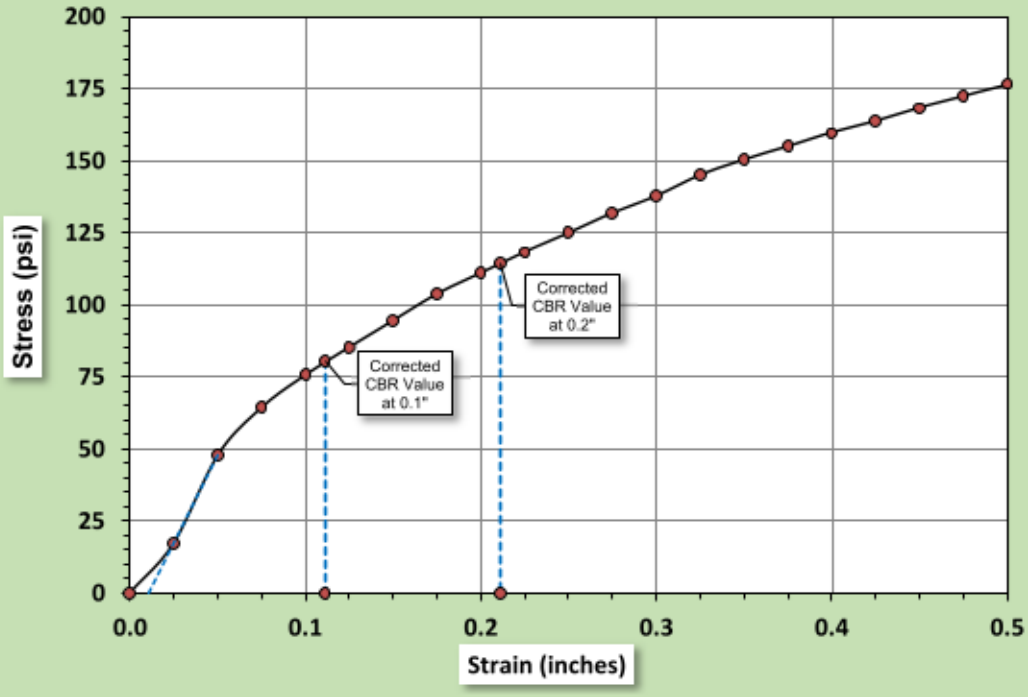
Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility	Test Date(s):	10/29/23 to 11/3/23
Project Location:	2030 W. Beverly St., Staunton, VA	Tested By:	Ken Pruner
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-05	Sample #:	Bulk	Sample Date:	9/28/2023
Depth:	0.5 to 5 feet	Offset:	N/A	Lab Control #:	9506

Material Description: Dark red, FAT CLAY, trace sand, trace gravel (CH)

Uncorrected CBR Values				Corrected CBR Values			
CBR at 0.1 in.	7.6	CBR at 0.2 in.	7.4	CBR at 0.1 in	8.1	CBR at 0.2 in	7.6



Soil Properties

As-Received Moisture Content	31.3%
Liquid Limit	60
Plastic Limit	23
Plastic Index	37

%Passing

1.5"	
3/4"	100.0
3/8"	99.2
No. 4	98.3
No. 10	96.5
No. 40	93.3
No. 100	90.8
No. 200	89.0

AASHTO T-99 Method A

MDD (pcf)	101.2
OMC (%)	23.0

Before Soaking		*After Soaking*	
Compactive Effort (Blows Per Layer)	56	Final Dry Density (pcf)	99.6
Initial Dry Density (pcf)	100.1	Average Final Moisture Content	24.3%
Moisture Content of Compacted Specimen	23.0%	Moisture Content (top 1" after soaking)	25.1%
Percent Compaction	98.9%	Percent Swell	0.2%

Soak Time (hours): 96 Surcharge Weight (lb): 20 Surcharge Stress (psf): 102

AASHTO T-99 Method A was performed on grading complying with CBR specification.

AASHTO T193 was performed on the entire gradation compacted in a 6" CBR mold.

% Retained on 3/4" sieve: 0.0

References / Comments / Deviations:

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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This report shall not be reproduced, except in full, without the written approval of Timmons Group

Material Classification

ASTM D2487

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

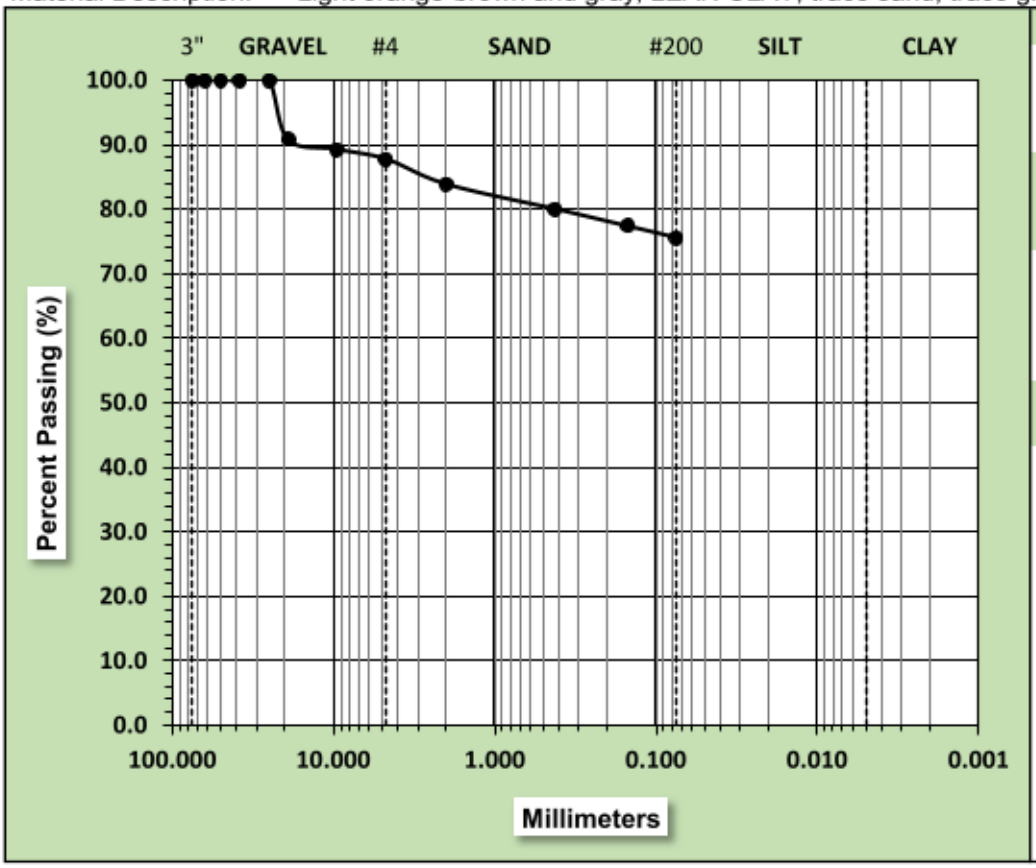
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-05	Sample #:	S-4	Sample Date:	9/28/2023
Depth:	6 to 8 feet	Offset:	N/A	Lab Control #:	9507

Material Description: Light orange-brown and gray, LEAN CLAY, trace sand, trace gravel (CL)



Soil Properties	
Natural Moisture Content	20.8%
Specific Gravity	---
Liquid Limit	38
Plastic Limit	19
Plastic Index	19
Group Symbol	CL
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	100.0
3/4"	90.9
3/8"	89.2
#4	87.7
#10	83.9
#40	80.0
#100	77.5
#200	75.6

Maximum Particle Size 1" **Gravel** 12.3% **Sand** 12.1% **Silt and Clay** 75.6%

C_u --- C_c ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/12/23 by Gordan Ek
AASHTO T11 & T88 tested on 10/16/23 & 10/19/23 by Gordan Ek
AASHTO T89 Method B & T90 tested on 10/31/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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Material Classification

ASTM D2487

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

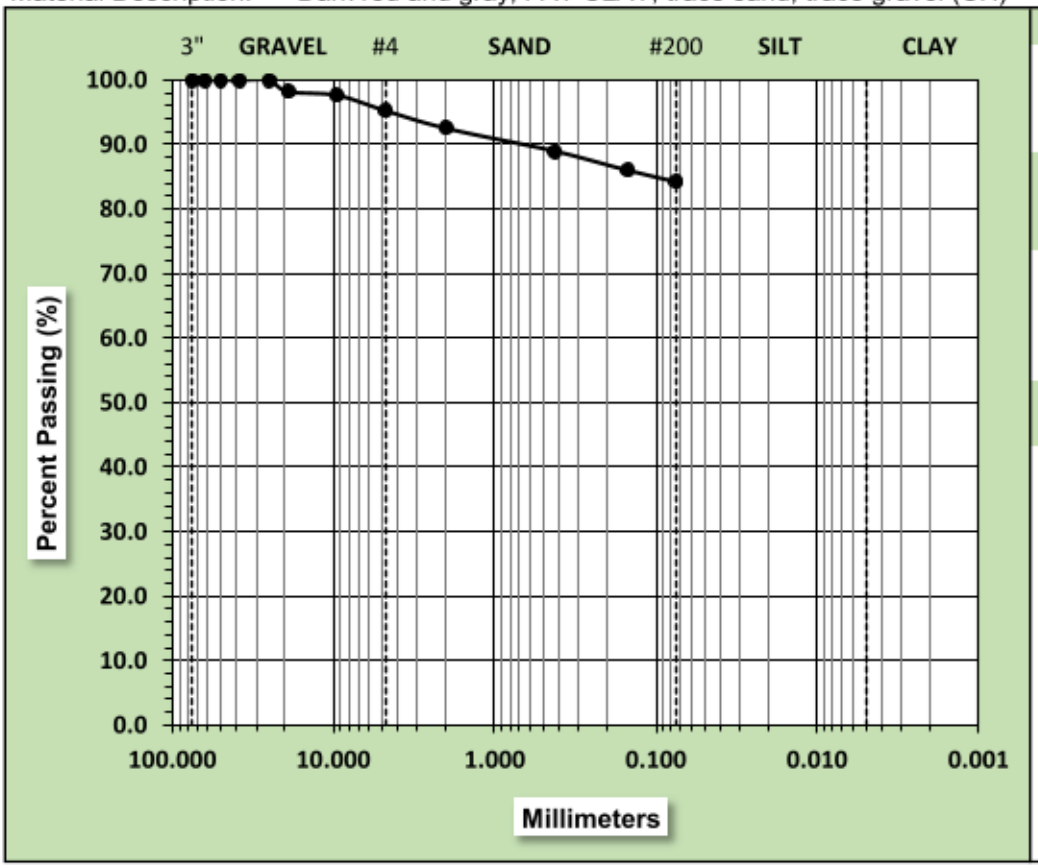
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-06	Sample #:	Bulk	Sample Date:	9/29/2023
Depth:	0.5 to 5 feet	Offset:	N/A	Lab Control #:	9509

Material Description: Dark red and gray, FAT CLAY, trace sand, trace gravel (CH)



Soil Properties	
As-Received Moisture Content	27.2%
Specific Gravity	---
Liquid Limit	51
Plastic Limit	20
Plastic Index	31
Group Symbol	CH
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	100.0
3/4"	98.3
3/8"	97.7
#4	95.3
#10	92.7
#40	88.9
#100	86.1
#200	84.3

Maximum Particle Size 1" **Gravel** 4.7% **Sand** 11.0% **Silt and Clay** 84.3%

C_u --- C_c ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/17/23 by Ken Pruner
AASHTO T11 & T88 tested on 10/18/23 & 10/19/23 by KP and GE
AASHTO T89 Method B & T90 tested on 10/31/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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MOISTURE-DENSITY RELATIONSHIP REPORT

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility	Test Date(s):	10/25/2023
Project Location:	2030 W. Beverly St., Staunton, VA	Tested By:	Ken Pruner
Client Name:	Moseley Architects		

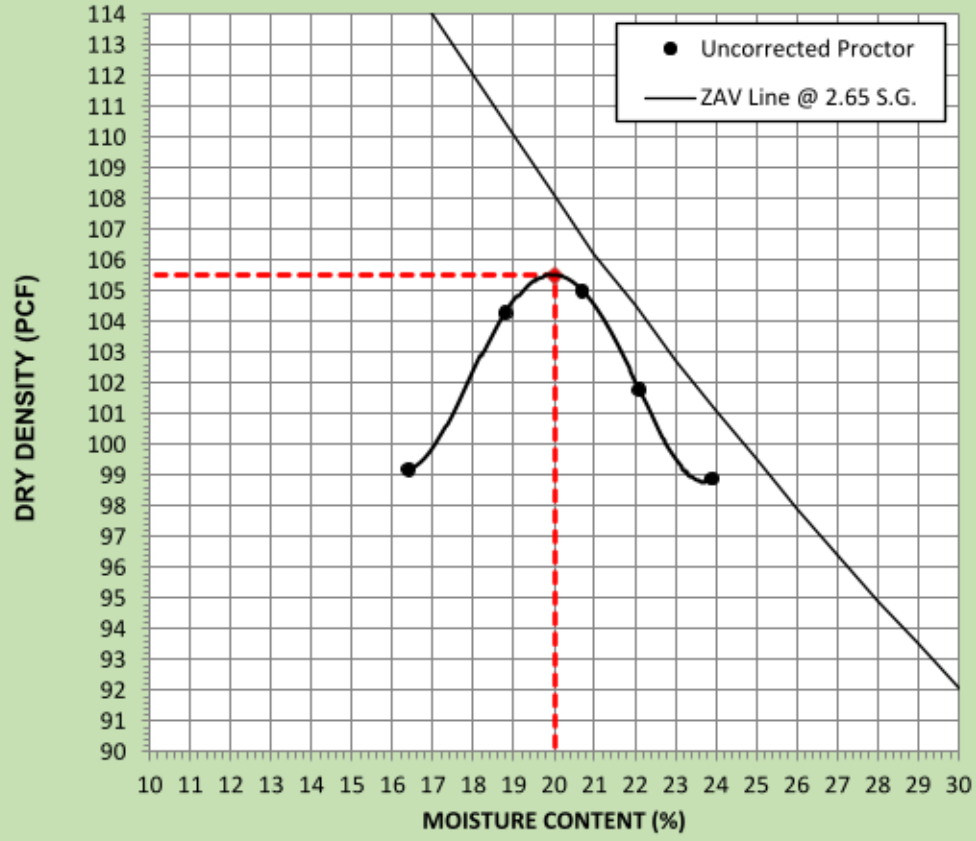
SAMPLE INFORMATION

Location:	B-06	Sample #:	Bulk	Sample Date:	9/29/2023
Depth:	0.5 to 5 feet	Offset:	N/A	Lab Control #:	9509

Material Description: Light orange-brown mottled with black and gray, FAT CLAY, trace sand, trace gravel (CH)

Maximum Dry Density **105.5** **PCF** **Optimum Moisture Content** **20.0** **%**

AASHTO T-99 Method A



Soil Properties	
Natural Moisture Content	26.6%
Assumed Specific Gravity	2.65
Liquid Limit	53
Plastic Limit	21
Plastic Index	32
%Passing	
1.5"	
3/4"	100.0
3/8"	92.4
No. 4	89.7
No. 10	87.3
No. 40	84.2
No. 200	80.6
Corrected Moisture-Density	
MDD (pcf)	---
OMC (%)	---
Assumed Properties of Oversize Fraction	
Sp.Gr.(OD)	---
Absorption	---

The Moisture-Density Curve Displayed relates only to material passing a No. 4 sieve.
Air-dried material passing a No. 4 sieve was prepared then compacted with a circular, manual rammer.

References / Comments / Deviations:

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

Information included in this report relates only to material sampled at the time of testing.
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CBR (California Bearing Ratio) of Laboratory Compacted Soil

AASHTO T193

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

PROJECT INFORMATION

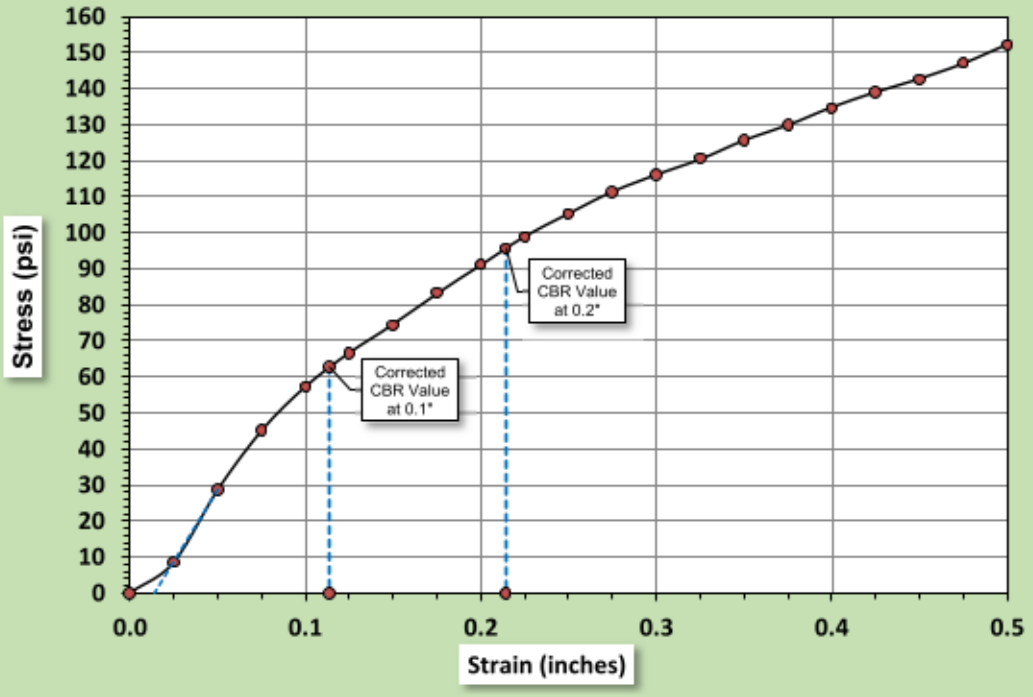
Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility	Test Date(s):	10/28/23 to 11/2/23
Project Location:	2030 W. Beverly St., Staunton, VA	Tested By:	Ken Pruner
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-06	Sample #:	Bulk	Sample Date:	9/29/2023
Depth:	0.5 to 5 feet	Offset:	N/A	Lab Control #:	9509

Material Description: Dark red and gray, FAT CLAY, trace sand, trace gravel (CH)

Uncorrected CBR Values				Corrected CBR Values			
CBR at 0.1 in.	5.7	CBR at 0.2 in.	6.1	CBR at 0.1 in	6.3	CBR at 0.2 in	6.4



Soil Properties

As-Received Moisture Content	27.2%
Liquid Limit	51
Plastic Limit	20
Plastic Index	31

%Passing	
1"	100.0
3/4"	98.3
3/8"	97.7
No. 4	95.3
No. 10	92.7
No. 40	88.9
No. 100	86.1
No. 200	84.3

AASHTO T-99 Method A

MDD (pcf)	105.5
OMC (%)	20.0

Before Soaking		*After Soaking*	
Compactive Effort (Blows Per Layer)	56	Final Dry Density (pcf)	103.8
Initial Dry Density (pcf)	104.4	Average Final Moisture Content	21.3%
Moisture Content of Compacted Specimen	20.3%	Moisture Content (top 1" after soaking)	21.7%
Percent Compaction	99.0%	Percent Swell	0.0%

Soak Time (hours): 96 Surcharge Weight (lb): 20 Surcharge Stress (psf): 102

AASHTO T-99 Method A was performed on grading complying with CBR specification.

AASHTO T193 was performed on the entire gradation compacted in a 6" CBR mold.

% Retained on 3/4" sieve: 1.7

References / Comments / Deviations:

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

Information included in this report relates only to material sampled at the time of testing.
This report shall not be reproduced, except in full, without the written approval of Timmons Group

Material Classification

ASTM D2487

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

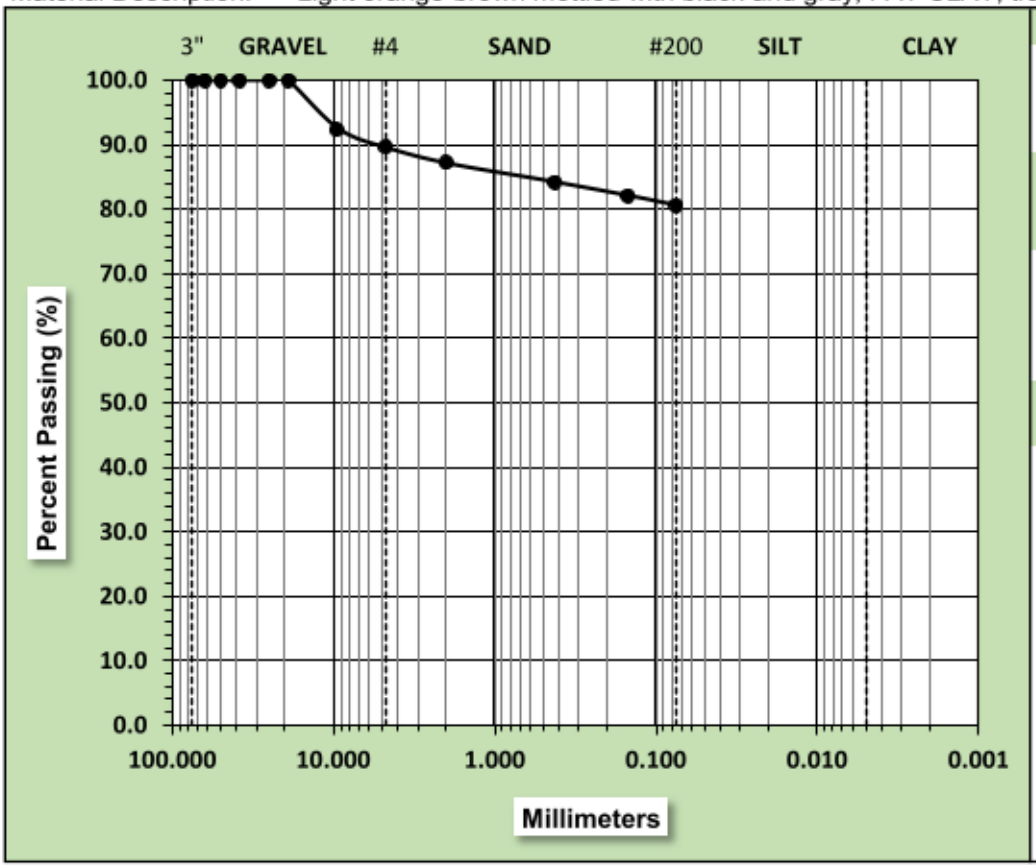
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-06	Sample #:	S-2	Sample Date:	9/29/2023
Depth:	2 to 4 feet	Offset:	N/A	Lab Control #:	9508

Material Description: Light orange-brown mottled with black and gray, FAT CLAY, trace sand, trace gravel (CH)



Soil Properties	
Natural Moisture Content	26.6%
Specific Gravity	---
Liquid Limit	53
Plastic Limit	21
Plastic Index	32
Group Symbol	CH
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	
3/4"	100.0
3/8"	92.4
#4	89.7
#10	87.3
#40	84.2
#100	82.1
#200	80.6

Maximum Particle Size 3/4" **Gravel 10.3%** **Sand 9.1%** **Silt and Clay 80.6%**

C_u --- **C_c** ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/12/23 by Gordan Ek
AASHTO T11 & T88 tested on 10/16/23 & 10/17/23 by Gordan Ek
AASHTO T89 Method B & T90 tested on 11/1/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

Information included in this report relates only to material sampled at the time of testing.
This report shall not be reproduced, except in full, without the written approval of Timmons Group

Material Classification

ASTM D2487

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

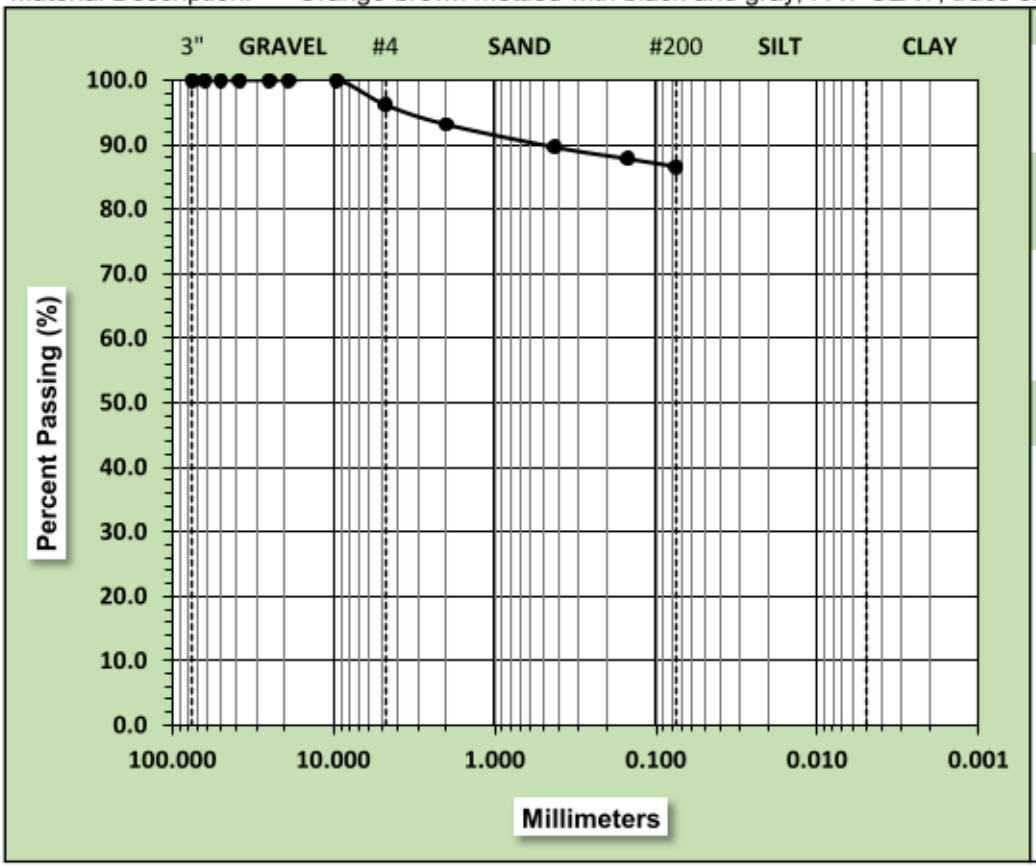
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-08	Sample #:	S-3	Sample Date:	9/29/2023
Depth:	4 to 6 feet	Offset:	N/A	Lab Control #:	9510

Material Description: Orange-brown mottled with black and gray, FAT CLAY, trace sand, trace gravel (CH)



Soil Properties	
Natural Moisture Content	35.7%
Specific Gravity	---
Liquid Limit	64
Plastic Limit	26
Plastic Index	38
Group Symbol	CH
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	
3/4"	
3/8"	100.0
#4	96.2
#10	93.2
#40	89.7
#100	87.9
#200	86.6

Maximum Particle Size 3/8" **Gravel** 3.8% **Sand** 9.6% **Silt and Clay** 86.6%

C_u --- C_c ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/12/23 by Gordan Ek
AASHTO T11 & T88 tested on 10/16/23 & 10/19/23 by Gordan Ek
AASHTO T89 Method B & T90 tested on 10/31/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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Material Classification

ASTM D2487

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

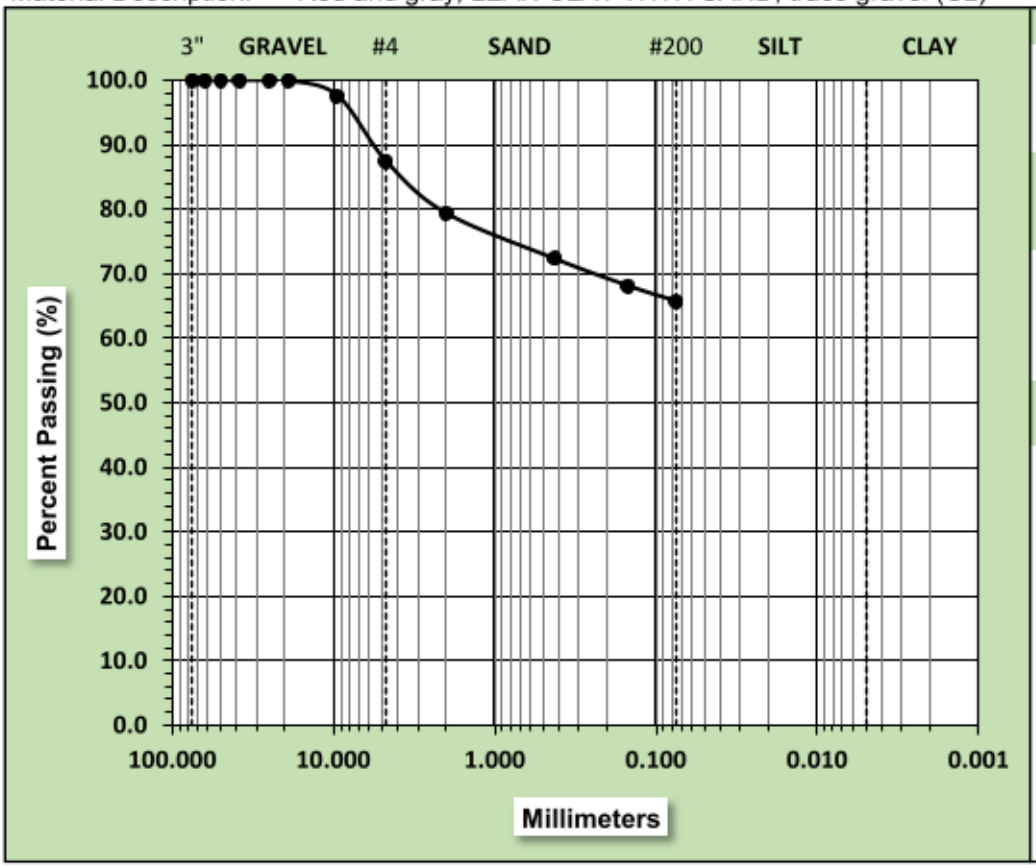
PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility		
Project Location:	2030 W. Beverly St., Staunton, VA		
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-09	Sample #:	Bulk	Sample Date:	9/29/2023
Depth:	0.5 to 5 feet	Offset:	N/A	Lab Control #:	9511

Material Description: Red and gray, LEAN CLAY WITH SAND, trace gravel (CL)



Soil Properties	
As-Received Moisture Content	18.0%
Specific Gravity	---
Liquid Limit	38
Plastic Limit	17
Plastic Index	21
Group Symbol	CL
%Passing	
3"	
2.5"	
2"	
1.5"	
1"	
3/4"	100.0
3/8"	97.5
#4	87.4
#10	79.4
#40	72.4
#100	68.1
#200	65.7

Maximum Particle Size 3/4" **Gravel 12.6%** **Sand 21.7%** **Silt and Clay 65.7%**

C_u --- **C_c** ---

Description of Sand & Gravel Particles: Rounded, Angular, Hard

Notes:

References: AASHTO T265 Method B tested on 10/16/23 by Ken Pruner
AASHTO T11 & T88 tested on 10/17/23 & 10/18/23 by KP and GE
AASHTO T89 Method B & T90 tested on 10/26/23 by Ken Pruner

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No. TR-T85 C127
Revision No. 0.1
Revision Date: 6/3/21

Specific Gravity and Absorption of Coarse Aggregate

☑ AASHTO T 85 ☐ ASTM C 127

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relastions Court Facility	Test Date(s):	10/26/23 to 10/29/23
Project Location:	2030 W. Beverly St., Staunton, VA	Tested By:	Ken Pruner
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-09	Sample #:	Bulk	Sample Date:	9/29/2023
Depth:	0.5 to 5 feet	Offset:	N/A	Lab Control #:	9511
Material Description:	Material retained on the No. 4 sieve				
Sampling Method:	Soil Boring			Reduction Method:	ASTM C 702 Quartering

TEST DATA

	Pan No. SSB2 =	235.1	grams
	Pan + oven-dry specimen =	2117.6	grams
A:	Mass of the oven-dry specimen =	1882.5	grams
B:	Mass of the saturated surface-dry specimen =	1946.7	grams
C:	Mass of specimen in water =	1183.8	grams

CALCULATIONS

Bulk Specific Gravity (Oven-Dry) =	2.468
Bulk Specific Gravity (Saturated Surface-Dry) =	2.552
Apparent Specific Gravity =	2.694
Absorption =	3.4%

☐ Specific gravity and absorption were determined without first drying the aggregate

References / Comments / Deviations:

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

Information included in this report relates only to material sampled at the time of testing.
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MOISTURE-DENSITY RELATIONSHIP REPORT

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

PROJECT INFORMATION

Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility	Test Date(s):	10/25/2023
Project Location:	2030 W. Beverly St., Staunton, VA	Tested By:	Ken Pruner
Client Name:	Moseley Architects		

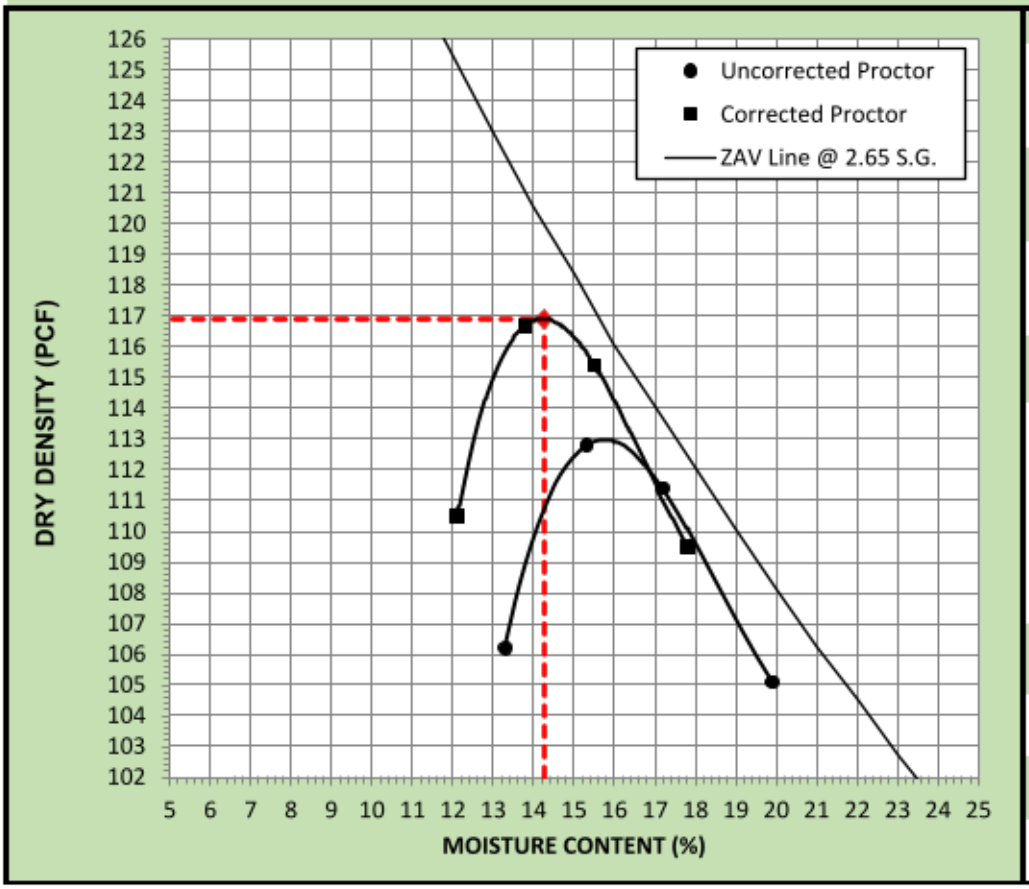
SAMPLE INFORMATION

Location:	B-09	Sample #:	Bulk	Sample Date:	9/29/2023
Depth:	0.5 to 5 feet	Offset:	N/A	Lab Control #:	9511

Material Description: Red and gray, LEAN CLAY WITH SAND, trace gravel (CL)

Corrected Maximum Dry Density	116.9 PCF	Corrected Optimum Moisture Content	14.3 %

AASHTO T-99 Method A



Soil Properties	
As-Received Moisture Content	18.0%
Assumed Specific Gravity	2.65
Liquid Limit	38
Plastic Limit	17
Plastic Index	21
%Passing	
1.5"	
3/4"	100.0
3/8"	97.5
No. 4	87.4
No. 10	79.4
No. 40	72.4
No. 200	65.7
Uncorrected Moisture-Density	
MDD (pcf)	113.0
OMC (%)	15.7
Oversize Fraction (AASHTO T85)	
Sp.Gr.(OD)	2.468
Absorption	3.4%

The Moisture-Density Curves Displayed represent the Fine Fraction with & without an Oversize Correction.
Air-dried material passing a No. 4 sieve was prepared then compacted with a circular, manual rammer.

References / Comments / Deviations:

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

Information included in this report relates only to material sampled at the time of testing.
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Form No. TR-CBR
Revision No. 1
Revision Date: 05/18/18

CBR (California Bearing Ratio) of Laboratory Compacted Soil

AASHTO T193

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

PROJECT INFORMATION

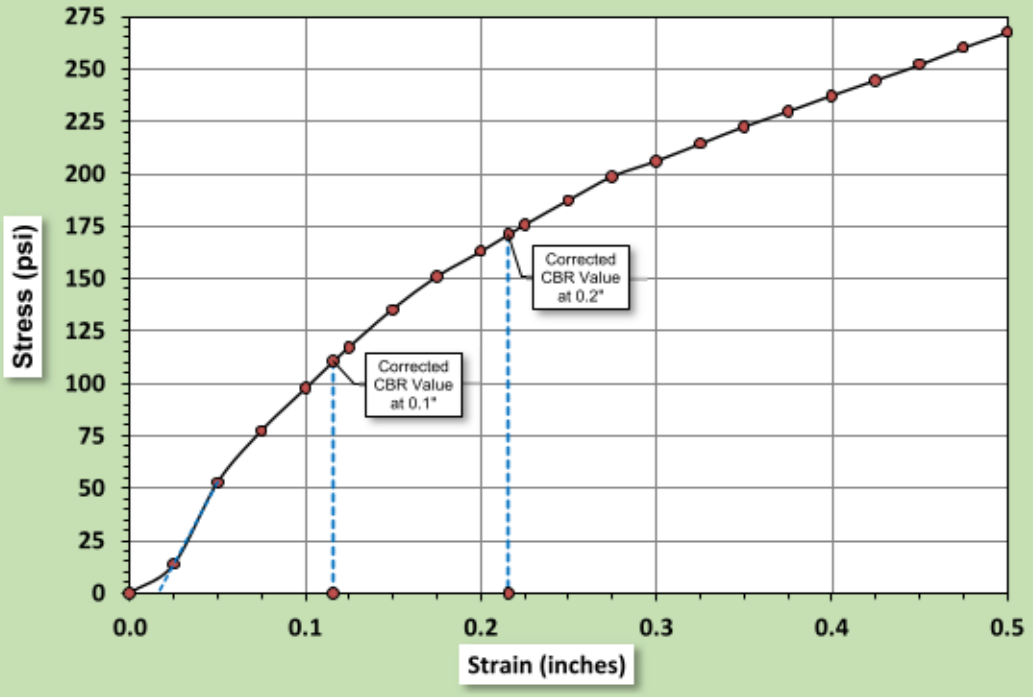
Project #:	60591	Report Date:	11/4/2023
Project Name:	Juvenile & Domestic Relations District Court Facility	Test Date(s):	10/30/23 to 11/4/23
Project Location:	2030 W. Beverly St., Staunton, VA	Tested By:	Ken Pruner
Client Name:	Moseley Architects		

SAMPLE INFORMATION

Location:	B-09	Sample #:	Bulk	Sample Date:	9/29/2023
Depth:	0.5 to 5 feet	Offset:	N/A	Lab Control #:	9511

Material Description: Red and gray, LEAN CLAY WITH SAND, trace gravel (CL)

Uncorrected CBR Values				Corrected CBR Values			
CBR at 0.1 in.	9.8	CBR at 0.2 in.	10.9	CBR at 0.1 in	11.1	CBR at 0.2 in	11.4



Soil Properties	
As-Received Moisture Content	18.0%
Liquid Limit	38
Plastic Limit	17
Plastic Index	21

%Passing	
1"	
3/4"	100.0
3/8"	97.5
No. 4	87.4
No. 10	79.4
No. 40	72.4
No. 100	68.1
No. 200	65.7

AASHTO T-99 Method A	
MDD (pcf)	116.9
OMC (%)	14.3

Before Soaking		*After Soaking*	
Compactive Effort (Blows Per Layer)	64	Final Dry Density (pcf)	116.3
Initial Dry Density (pcf)	116.1	Average Final Moisture Content	15.2%
Moisture Content of Compacted Specimen	14.7%	Moisture Content (top 1" after soaking)	15.7%
Percent Compaction	99.3%	Percent Swell	0.0%

Soak Time (hours): 96 Surcharge Weight (lb): 20 Surcharge Stress (psf): 102

AASHTO T-99 Method A was performed on grading complying with CBR specification.

AASHTO T193 was performed on the entire gradation compacted in a 6" CBR mold.

% Retained on 3/4" sieve: 0.0

References / Comments / Deviations:

Matthew Thornton		Laboratory Manager	11/4/23
Technical Responsibility	*Signature*	*Position*	*Date*

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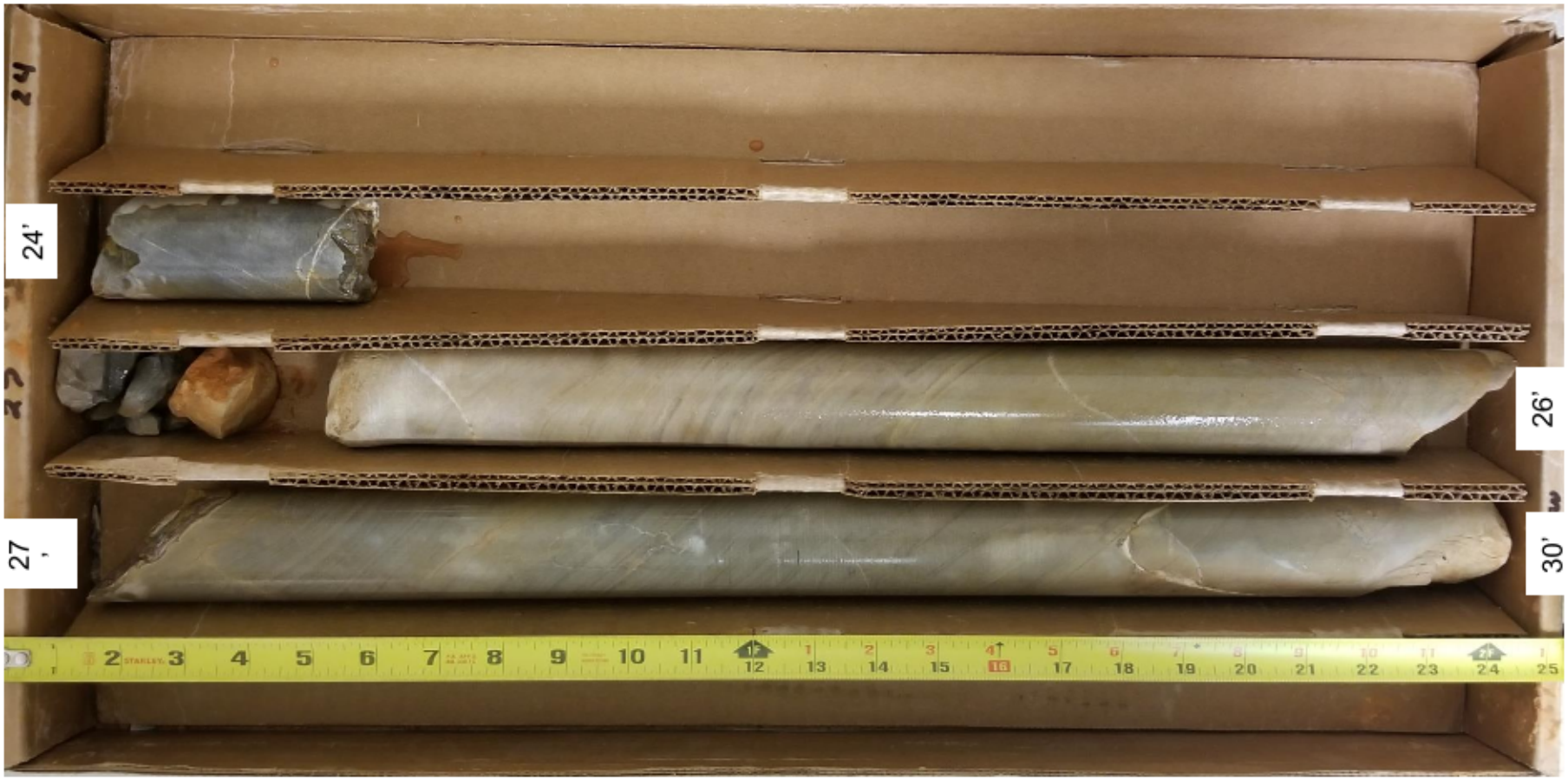
APPENDIX D

ROCK CORE PHOTOGRAPHS

Boring B-01
Run 1: 24' – 29' REC. 43.4% RQD 40.0%
Run 2: 29' – 34' REC. 47.5% RQD 47.0%



Scale:	NOT TO SCALE
Date:	12/1/2023
Drawn By:	JCLS
Project No.:	60591

TIMMONS GROUP
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ROCK CORE PHOTO LOG
JUVENILE & DOMESTIC RELATIONS DISTRICT COURT FACILITY
CITY OF STAUNTON, VIRGINIA

Figure No.
1

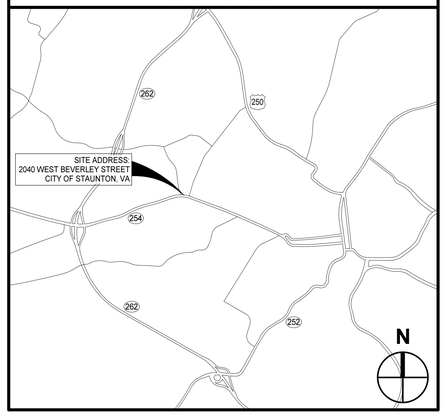
BID SET

STAUNTON J&DR COURTS FACILITY

CITY OF STAUNTON

VICINITY MAP

LOCATION MAP



MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690

MOSELEYARCHITECTS.COM

TIMMONS GROUP — CIVIL ENGINEERING
101 BOULDERS PARKWAY — RICHMOND, VIRGINIA

SHEN MILSOM & WILKE — AUDIOVISUAL AND INFORMATION TECHNOLOGY
1220 NORTH FILLMORE STREET, SUITE 360, ARLINGTON, VIRGINIA 22201 — (P) 703 243 6301

DRAWING INDEX

G0.1	COVER	ARCHITECTURAL		A7.1.1	TOILET ASSEMBLIES, SCHEDULES AND ENLARGED PLANS	S4.0.3	TYPICAL FRAMING DETAILS	ELECTRICAL	
		A0.1	GENERAL ARCHITECTURAL INFORMATION	A7.1.2	TOILET ASSEMBLIES, SCHEDULES AND ELEVATIONS	S4.1.1	FRAMING SECTIONS	E0.1	LEGENDS, ABBREVIATIONS AND GENERAL NOTES
GENERAL		A0.2	WALL/PARTITION TYPES, WALL JOINTS AND TERMINATIONS	A7.2.1	ENLARGED FIRST FLOOR COURTROOM AND ELEVATIONS	S4.2.1	FRAMING SECTIONS	E0.2	LIGHT FIXTURE SCHEDULE
G2.1	GENERAL INFORMATION - AIR BARRIER	A1.1.1	ARCHITECTURAL SITE PLAN	A7.2.2	ENLARGED SECOND FLOOR COURTROOM AND ELEVATIONS	S4.2.2	FRAMING SECTIONS	E1.0	SITE PLAN - ELECTRICAL
G2.2	INTEGRATED MOCKUP PANEL	A1.1.2	ARCHITECTURAL SITE DETAILS	A7.3.1	HOLDING AREA ENLARGED FLOOR PLANS & DETAILS			E1.1	SITE PLAN - LIGHTING PHOTOMETRICS
		A2.0.0	ADD ALTERNATE NO 1 - PARTIAL BUILDING DEMOLITION PLAN AND DETAILS	A7.3.2	DETENTION EQUIPMENT DETAILS	PLUMBING		E1.2	SITE PLAN - LIGHTING PHOTOMETRICS PROP. LINE
LIFE SAFETY		A2.1.0	FIRST FLOOR PLAN	A8.1.0	FIRST AND SECOND FLOOR LOBBY ELEVATIONS	P0.1	LEGENDS, ABBREVIATIONS AND GENERAL NOTES	E1.3	EXTERIOR LIGHT FIXTURE SCHEDULE
LS1.0	CODE SUMMARY	A2.1.1	FIRST FLOOR DIMENSION PLAN	A8.1.1	CASEWORK AND INTERIOR ELEVATIONS	P2.1	FOUNDATION PLAN - PLUMBING	E2.1.1	FIRST FLOOR PLAN - LIGHTING
LS1.1	LIFE SAFETY INFORMATION - FIRST FLOOR	A2.2.0	SECOND FLOOR PLAN	A8.1.2	CASEWORK ENLARGED PLANS AND SECTION DETAILS	P2.2	FIRST FLOOR PLAN - SANITARY	E2.1.2	FIRST FLOOR PLAN - POWER
LS1.2	LIFE SAFETY INFORMATION - SECOND FLOOR	A2.2.1	SECOND FLOOR DIMENSION PLAN	A8.1.3	CASEWORK SECTION DETAILS	P2.3	FIRST FLOOR PLAN - DOMESTIC	E2.1.3	FIRST FLOOR PLAN - COMMUNICATION
		A3.0	FINISH SCHEDULE	A8.2.1	SECURITY DESK SECTIONS AND DETAILS	P2.4	SECOND FLOOR PLAN - SANITARY	E2.1.4	FIRST FLOOR PLAN - MECH POWER
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C0.0	COVER	A3.0.2	SECOND FLOOR PATTERN AND FINISH PLAN	A8.2.3	COURTROOM CASEWORK DETAILS	P2.6	ROOF PLAN - PLUMBING	E2.2.2	SECOND FLOOR PLAN - POWER
C1.0	NOTES AND DETAILS	A3.0.3	WOOD TRIM DETAILS	A9.1	FIRST FLOOR REFLECTED CEILING PLAN	P3.1	ENLARGED PLANS - PLUMBING	E2.2.3	SECOND FLOOR PLAN - COMMUNICATION
C1.1	NOTES AND DETAILS	A3.0.4	SIGNAGE	A9.2	SECOND FLOOR REFLECTED CEILING PLAN	P3.2	ENLARGED PLANS - PLUMBING	E2.2.4	SECOND FLOOR PLAN - MECH POWER
C2.0	EXISTING CONDITIONS AND DEMOLITION	A3.1.1	DOOR AND FRAME SCHEDULE	A10.1	ROOF PLAN	P3.3	ENLARGED PLANS - PLUMBING	E2.3	ROOF PLAN - ELECTRICAL
C3.0	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	A3.1.2	DOOR, FRAME AND GLAZING TYPES			P5.1	PLUMBING DETAILS	E3.1	ENLARGED PLANS
C3.1	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	A3.2.1	DOOR, GLAZING, AND FRAME DETAILS	SECURITY		P5.2	PLUMBING DETAILS	E3.2	ENLARGED PLANS - ELEVATORS
C3.2	EROSION AND SEDIMENT CONTROL - PHASE I	A3.2.2	DOOR, GLAZING, AND FRAME DETAILS	SE1.1	SECURITY ELECTRONICS SITE PLAN	P6.1	SCHEDULES	E3.3	FIRE ALARM GRAPHIC ANNUNCIATOR PANEL
C3.3	EROSION AND SEDIMENT CONTROL - PHASE II	A3.2.3	DOOR, GLAZING, AND FRAME DETAILS	SE2.1	SECURITY ELECTRONICS FLOOR PLAN			E4.1	ELECTRICAL DETAILS
C4.0	LAYOUT PLAN	A3.3.1	DETENTION DOOR & WINDOW SCHEDULES & DETAILS	SE2.2	SECURITY ELECTRONICS FLOOR PLAN	FIRE PROTECTION		E4.2	ELECTRICAL DETAILS
C4.1	UTILITY PLAN	A4.1	BUILDING ELEVATIONS	SE3.1	CAMERA SCHEDULE AND DETAILS	FP0.1	LEGENDS, ABBREVIATIONS AND GENERAL NOTES	E4.3	ELECTRICAL DETAILS
C5.0	GRADING AND DRAINAGE PLAN	A4.2	BUILDING ELEVATIONS	SE4.0	SECURITY ELECTRONICS ONE LINE DIAGRAMS	FP2.1	FIRST FLOOR PLAN - FIRE PROTECTION	E4.4	ELECTRICAL DETAILS
C5.1	STORM PROFILES	A5.0.1	BUILDING SECTIONS			FP2.2	SECOND FLOOR PLAN - FIRE PROTECTION	E4.5	ELECTRICAL DETAILS
C5.2	UTILITY PROFILES	A5.1.1	WALL SECTIONS	FURNITURE				E5.1	POWER ONE-LINE DIAGRAM
C6.0	STORMWATER NARRATIVE	A5.1.2	WALL SECTIONS	FE2.1	FIRST FLOOR FURNITURE PLAN	MECHANICAL		E5.2	PANELBOARD SCHEDULES
C6.1	INLET DRAINAGE AREAS	A5.1.3	WALL SECTIONS	FE2.2	SECOND FLOOR FURNITURE PLAN	M0.1	LEGENDS, ABBREVIATIONS AND GENERAL NOTES	E5.3	PANELBOARD SCHEDULES
C6.2	PRE-DEVELOPED DRAINAGE MAP	A5.2.1	SECTION DETAILS			M0.2	SCHEDULES		
C6.3	POST-DEVELOPED DRAINAGE MAP	A5.2.2	SECTION DETAILS	STRUCTURAL		M2.1.1	FIRST FLOOR PLAN - DUCTWORK	AUDIOVISUAL	
C7.0	BUILDING DEMOLITION NOTES AND DETAILS	A5.2.3	SECTION DETAILS	S0.0.1	GENERAL NOTES AND LEGENDS	M2.1.2	FIRST FLOOR PLAN - PIPING	TA0.0	AUDIOVISUAL SYMBOLS, ABBREVIATIONS & NOTES
C8.0	BUILDING DEMOLITION INSET	A6.1.1	ENLARGED STAIR PLANS & SECTIONS	S1.1.1	FOUNDATION PLAN	M2.2.1	SECOND FLOOR PLAN - DUCTWORK	TA1.1	AUDIOVISUAL FIRST FLOOR PLAN
C9.0	BUILDING POST-DEMOLITION INSET	A6.1.2	ENLARGED STAIR PLANS, SECTIONS & DETAILS	S2.1.1	SECOND FLOOR FRAMING PLAN	M2.2.2	SECOND FLOOR PLAN - PIPING	TA1.2	AUDIOVISUAL SECOND FLOOR PLAN
L1.0	LANDSCAPE PLAN	A6.1.3	ENLARGED STAIR DETAILS	S2.2.1	ROOF FRAMING PLAN	M2.3	ROOF PLAN	TA2.1	AUDIOVISUAL FIRST REFLECTIVE CEILING PLAN
L2.0	LANDSCAPE NOTES AND DETAILS	A6.1.4	ENLARGED ELEVATOR PLANS, SECTIONS & DETAILS	S2.2.2	UPPER ROOF AND CANOPY FRAMING PLAN	M3.1	ENLARGED PLANS AND SECTIONS	TA2.2	AUDIOVISUAL SECOND REFLECTIVE CEILING PLAN
		A6.1.5	ENLARGED RAMP PLANS & DETAILS	S3.0.1	TYPICAL FOUNDATION DETAILS	M5.1	DETAILS		
				S3.0.2	TYPICAL SLAB DETAILS	M5.2	DETAILS		
				S3.1.1	FOUNDATION SECTIONS	M6.1	HOT WATER SYSTEM SCHEMATIC		
				S4.0.1	TYPICAL MASONRY WALL AND LINTEL DETAILS	M7.1	CONTROL DIAGRAMS		
				S4.0.2	TYPICAL FRAMING DETAILS				

AD-01R

AD-01R

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
ANTHONY J. BELL III
Lic. No. 009147
3/1/2024
ARCHITECT

STAUNTON J&DR COURTS FACILITY
2040 WEST BEVERLEY STREET
CITY OF STAUNTON, VA 24401

PROJECT NO: 630874
DATE: MARCH 1, 2024

REVISIONS

DATE	DESCRIPTION
03/14/24	AD-01R

COVER

G0.1

3/14/2024 11:38:08 AM

STAUNTON J&DR COURTS

FINAL SITE PLAN

CITY OF STAUNTON, VA

DECEMBER 4, 2023

SITE DATA:

SUBJECT PROPERTY:

OWNER:	CITY OF STAUNTON
REFERENCE:	DB. 200, PG. 470 (CITY OF STAUNTON) INST. 230001874
TAX MAP PARCEL:	TMP 3432
PROPERTY ADDRESS:	2040 W BEVERLEY ST, STAUNTON, VA 24401
PARCEL AREA:	10.295 ACRES (SURVEYED)
DISTURBED AREA:	6.56 ACRES
ZONING:	B2
OVERLAY:	ENTRANCE CORRIDOR OVERLAY DISTRICT

SETBACKS:

FRONT YARD:	5 MINIMUM
SIDE YARD:	NO MINIMUM
REAR YARD:	NO MINIMUM

SURVEY INFORMATION:

1. THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD SURVEY BY TIMMONS GROUP COMPLETED ON JULY 17, 2023.
2. SITE TOPOGRAPHICAL DATA HEREON IS BASED ON A FIELD TOPOGRAPHICAL SURVEY COMPLETED BY TIMMONS GROUP ON AUGUST 18TH 2023.
3. HORIZONTAL DATUM IS BASED ON NAD83 (NA2011), VIRGINIA STATE GRID, NORTH ZONE. DATUM ESTABLISHED THROUGH NETWORK GPS (LEICA SmartNET) OBSERVATIONS.

SURVEYOR OF RECORD
TIMMONS GROUP
28 IMPERIAL DRIVE
STAUNTON, VA 24401
JOSEPH C. MEDLEY, LS
JOE.MEDLEY@TIMMONS.COM
(540) 885-0920

LANDSCAPE ARCHITECT OF RECORD
TIMMONS GROUP
608 PRESTON AVENUE, SUITE 200
CHARLOTTESVILLE, VA 22903
SCOTT WILEY, LA
SCOTT.WILEY@TIMMONS.COM
(804) 200-6424

PARKING:

REQUIRED PARKING: 1 SPACE PER 300 SF OF USABLE FLOOR SPACE PLUS 1 PER 3 EMPLOYEES.
(34330 BUILDING SF ÷ 300SF PER SPACE)+(30 EMPLOYEES ÷ 3 EMPLOYEES PER SPACE) + 10 SHERIFF SPACES = 135 REQUIRED SPACES

PROVIDED PARKING: 141 SPACES (6 ADA SPACES)

WETLAND IMPACTS:

NO JURISDICTION DELINEATED WETLANDS ARE PROPOSED TO BE IMPACTED WITH THIS DEVELOPMENT.

SPECIAL FLOOD HAZARD INFORMATION:

BASED ON FEMA LETTER OF MAP REVISION (LOMR) CASE NO. 20-03-1605P, EFFECTIVE MARCH 30, 2021, PORTIONS OF THE SUBJECT PROPERTY SHOWN HEREON LIE IN:

- ZONE 'AE', SPECIAL FLOOD HAZARD AREA WITH BASE ELEVATION OR DEPTH;
- SHADED ZONE 'X', AREAS SUBJECT TO THE 0.2% ANNUAL CHANCE FLOOD HAZARD;
- AND UNSHADED ZONE 'X', AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

NO IMPACTS TO THE FLOODPLAIN ARE PROPOSED WITH THIS DEVELOPMENT.

BURIAL SITE INFORMATION:

NO EVIDENCE OF CEMETERY OR BURIAL GROUND WAS OBSERVED IN THE PROCESS OF CONDUCTING THE SURVEY FIELD-WORK AS SHOWN HEREON.

LAND USE:

2 STORY, 17,165 SF BUILDING:	0.394 ACRES	3.83%
PARKING ASSOCIATED DRIVE AISLES:	1.479 ACRES	14.37%
TOTAL LOT AREA:	10.295 ACRES	100.00%

RESPONSIBLE LAND DISTURBER:

THE PROFESSIONAL ENGINEER SEALING THIS PLAN SHALL ACT AS THE RESPONSIBLE LAND DISTURBER THROUGH THE PLAN APPROVAL PROCESS. ONCE A CONTRACTOR IS SELECTED, THE CONTRACTOR SHALL ASSIGN A RESPONSIBLE LAND DISTURBER PRIOR TO THE PRE-CONSTRUCTION MEETING.

FIRE FLOW DATA:

WATER MODELING WAS PERFORMED ON 11/03/2023 BY WILEY WILSON FOR THE CITY OF STAUNTON.

THE FOLLOWING RESULTS WERE DETERMINED BASED ON ASSUMED CONSTRUCTION OF PROPOSED WATER LINE IMPROVEMENTS SHOWN HEREIN.

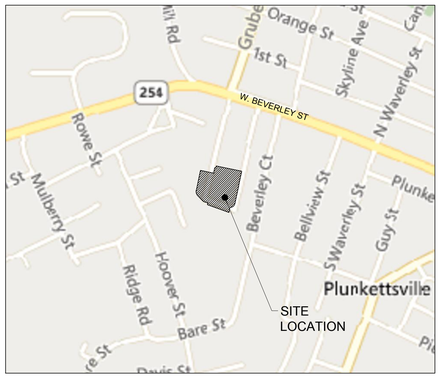
TARGET FLOW = 639 GPM @ 67 PSI RESIDUAL
84 PSI RESIDUAL AVAILABLE @ TARGET FLOW CONDITIONS; THUS TARGET FLOW EXCEEDED

CONSTRUCTION TYPE:

IIB - NON-COMBUSTIBLE CONSTRUCTION

FIRE PROTECTION:

SPRINKLED WITH AN NFPA-13 SPRINKLER SYSTEM



VICINITY MAP

SCALE: 1" = 1000'

OWNER:

CITY OF STAUNTON
116 WEST BEVERLEY STREET
STAUNTON, VA 24401
CONTACT: JOHN KEENE
TELEPHONE: (540) 332-3858
EMAIL: KEENEJS@CI.STAUNTON.VA.US

ENGINEER OF RECORD:

TIMMONS GROUP
28 IMPERIAL DRIVE
STAUNTON, VA 24401
CONTACT: JEREMY FOX, P.E.
TELEPHONE: (540) 290-0932
EMAIL: JEREMY.FOX@TIMMONS.COM

ARCHITECT OF RECORD:

MOSELEY ARCHITECTS
3200 NORFOLK STREET
RICHMOND, VA 23230
CONTACT: KATELYN GARAY, CID, IIDA
TELEPHONE: (804) 794-7555
EMAIL: KGARAY@MOSELEYARCHITECTS.COM

Sheet List Table

Sheet Number	Sheet Title
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C1.1	NOTES AND DETAILS
C2.0	EXISTING CONDITIONS AND DEMOLITION
C3.0	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C3.1	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C3.2	EROSION AND SEDIMENT CONTROL - PHASE I
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C4.0	LAYOUT PLAN
C4.1	UTILITY PLAN
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L1.0	LANDSCAPE PLAN
L2.0	LANDSCAPE NOTES AND DETAILS
C7.0	BUILDING DEMOLITION NOTES AND DETAILS
C8.0	BUILDING DEMOLITION INSET
C9.0	BUILDING POST-DEMOLITION INSET

*AD-01R

TOTAL: 26 SHEETS

SIGNATURE PANEL:

	APPROVAL	DATE
ZONING ADMINISTRATOR'S AGENT		

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3200 NORFOLK STREET, RICHMOND, VA 23230
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TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

COMMONWEALTH OF VIRGINIA
JEREMY L. FOX
Lic. No. 60786
02/ 21/ 2024
PROFESSIONAL ENGINEER

STAUNTON J&DR COURTS FACILITY

City of Staunton
2040 West Beverley Street, Staunton, VA 24401

PROJECT NO: 603874
DATE: DECEMBER 4, 2023

REVISIONS

DATE	DESCRIPTION
01/22/24	PER CITY COMMENTS
02/13/24	PER CITY COMMENTS
02/21/24	PER CITY COMMENTS
03/14/24	*AD-01R

*AD-01R

COVER

C0.0

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STAUNTON J&DR COURTS FACILITY

City of Staunton
2040 West Beverley Street, Staunton, VA 24401

PROJECT NO. 603874
DATE: DECEMBER 4, 2023

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01/22/24	PER CITY COMMENTS
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02/21/24	PER CITY COMMENTS
03/14/24	*AD-01R

*AD-01R

EXISTING CONDITIONS AND DEMOLITION

C2.0

SCALE 1"=30'

LEGEND

ASPHALT MILL/OVERLAY

BUILDING TO BE DEMOLISHED BY SEPARATE CONTRACT

CONTRACTOR TO COORDINATE WITH CITY OF STAUNTON IN AREAS WHERE FULL DEPTH REMOVAL IS NEEDED.

1-STORY BRICK/MASONRY BLDG. TO BE DEMOLISHED

PID 3432
CITY OF STAUNTON, VIRGINIA
INST. 230001874
10.295 ACRES
(AS SURVEYED)

1-STORY BRICK/MASONRY "BLDG. TO BE DEMOLISHED UNDER SEPARATE CONTRACT WITH STAUNTON CITY"

DEMOLISH 1-STORY BRICK/MASONRY BLDG - ADDITIVE ALTERNATE NO. 1

AD-01R

WEST BEVERLEY STREET
ROUTE 254
(VARIABLE WIDTH R/W)

CHESTNUT STREET
(30' R/W)

MOSELEY ARCHITECTS
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12/21/2023

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

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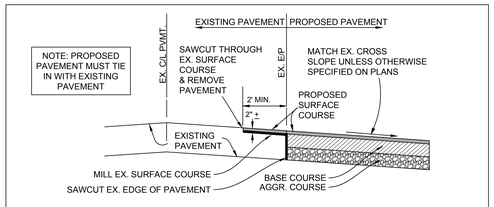
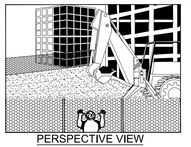
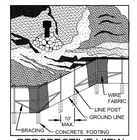


PAVEMENT REPLACEMENT JOINT DETAIL

No Scale



PERSPECTIVE VIEW



PERSPECTIVE VIEW
METAL FENCE

3.1-1

SAF

SAFETY FENCE

No Scale

GENERAL DEMOLITION NOTES:

UTILITIES

1. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY CONTRACTOR OR ITS SUBCONTRACTORS SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY AND REPAIRED AT CONTRACTOR'S EXPENSE.
2. THE CONTRACT DOCUMENTS DO NOT GUARANTEE THE EXISTENCE, NON-EXISTENCE OR LOCATION OF UTILITIES. CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OR THE NON-EXISTENCE OF UTILITIES. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION, CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-552-7001) AND/OR THE RESPECTIVE UTILITY COMPANIES FOR GAS, WATER, SEWER, POWER, PHONE AND CABLE. CONTRACTOR SHALL TIMELY ARRANGE TO HAVE THE VARIOUS UTILITIES LOCATED, AND TO HAVE THEM REMOVED OR RELOCATED, OR TO DETERMINE THE METHOD OF PROTECTION ACCEPTABLE TO THE RESPECTIVE OWNER, IF THE METHOD OF PROTECTION IS NOT OTHERWISE SPECIFIED. CONTRACTOR SHALL CONDUCT ITS WORK IN THE VICINITY OF EXISTING UTILITIES IN ACCORDANCE WITH THE RESPECTIVE UTILITY'S RULES AND REGULATIONS. ANY COST INCURRED FOR REMOVING, RELOCATING OR PROTECTING UTILITIES SHALL BE BORNE BY CONTRACTOR UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL EXCAVATE TO LOCATE BURIED UTILITIES FAR ENOUGH IN ADVANCE OF ITS WORK TO ALLOW FOR HORIZONTAL AND /OR VERTICAL ADJUSTMENTS TO ITS WORK AND/OR THE UTILITIES. NO ADJUSTMENT IN COMPENSATION OR SCHEDULE WILL BE ALLOWED FOR DELAYS RESULTING FROM CONTRACTOR'S FAILURE TO CONTACT AND COORDINATE WITH UTILITIES.
3. WHEN THE WORK CROSSES EXISTING UTILITIES, THE EXISTING UTILITIES SHALL BE ADEQUATELY SUPPORTED AND PROTECTED FROM DAMAGE DUE TO THE WORK. ALL METHODS FOR SUPPORTING AND MAINTAINING THE EXISTING UTILITIES SHALL BE APPROVED BY THE RESPECTIVE UTILITY COMPANY AND/OR THE ENGINEER. CONTRACTOR SHALL EXERCISE CARE TO INSURE THAT THE GRADE AND ALIGNMENT OF EXISTING UTILITIES ARE MAINTAINED AND THAT NO JOINTS OR CONNECTIONS ARE DISPLACED. BACKFILL SHALL BE CAREFULLY PLACED AND COMPACTED TO PREVENT FUTURE DAMAGE OR SETTLEMENT TO EXISTING UTILITIES. ANY UTILITIES REMOVED AS PART OF THE WORK, AND NOT INDICATED TO BE REMOVED OR ABANDONED, SHALL BE RESTORED USING MATERIALS AND INSTALLATION EQUAL TO THE UTILITY'S STANDARDS.
4. CONTRACTOR SHALL NOTIFY LANDOWNERS, TENANTS, STUANTON CITY PERSONNEL, AND THE ENGINEER PRIOR TO THE INTERRUPTION OF ANY SERVICES. SERVICE INTERRUPTIONS SHALL BE KEPT TO A MINIMUM.

EARTHWORK AND SITE CONDITIONS

1. ALL GRADING AND IMPROVEMENTS TO BE CONFINED TO THE PROJECT AREA UNLESS OTHERWISE INDICATED.
2. ALL MATERIALS AND DEMOLITION DETAILS SHALL CONFORM TO THE CITY OF STAUNTON ENGINEERING DIVISION STANDARDS AND ALL OTHER APPLICABLE STAUNTON CITY ORDINANCES.
3. ANY UNUSUAL OR UNANTICIPATED SUBSURFACE CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO BEGINNING WORK, AND IMMEDIATELY NOTIFY THE ENGINEER IN THE EVENT THERE ARE ANY DISCREPANCIES BETWEEN SUCH CONDITIONS AND THOSE SHOWN ON THE PLANS AND SPECIFICATIONS.

ASPHALT

1. EXISTING ASPHALT PAVEMENT SHALL BE SAW CUT AND REMOVED AS PER THE SPECIFICATIONS. REMOVAL SHALL BE DONE IN SUCH A MANNER AS TO NOT TEAR, BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL. ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAFFIC.
2. DISPOSAL OF ALL EXCESS MATERIAL IS THE RESPONSIBILITY OF CONTRACTOR.

DRAINAGE

1. CONTRACTOR SHALL EXERCISE CARE TO PROVIDE POSITIVE DRAINAGE. ANY AREAS WHERE WATER IS IMPOUNDED SHALL BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL COST. POSITIVE DRAINAGE OF ALL ROADWAY AREAS TO THE STORM DRAIN INLETS OR OTHER ACCEPTABLE DRAINAGE CHANNELS AS NOTED ON THE PLANS IS REQUIRED.
2. CONTRACTOR SHALL PAY FOR ALL PERSONAL INJURY AND PROPERTY DAMAGE WHICH MAY OCCUR AS A RESULT OF FAILING TO MAINTAIN ADEQUATE DRAINAGE.
3. ANY STRUCTURES IMPACTED BY DEMOLITION SHALL BE INSPECTED BY THE ENGINEERING INSPECTOR BEFORE BEING BACKFILLED OR BURIED. THE ENGINEERING INSPECTOR MAY REQUIRE CONTRACTOR, AT NO ADDITIONAL COST, TO UNCOVER AND RE-COVER SUCH STRUCTURES IF THEY HAVE BEEN BACKFILLED OR BURIED WITHOUT SUCH INSPECTION.
4. ANY REMOVED STRUCTURES SHALL BE THE PROPERTY OF CONTRACTOR AND IF NOT SALVAGED FOR RE-USE, SHALL BE DISPOSED OF LAWFULLY.
5. CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS DURING LOCALIZED DEMOLITION AND ENSURE SUCH PATTERNS REMAIN UNALTERED POST-DEMOLITION AND REPAIR.

TRAFFIC AND SIGNAGE

1. ALL TEMPORARY NO PARKING REQUIREMENTS SHALL BE PROVIDED BY CONTRACTOR WITH APPROVAL OF THE CITY ENGINEER.
2. CONTRACTOR SHALL PROVIDE NECESSARY REFLECTORS, BARRICADES, TRAFFIC CONTROL DEVICES AND/OR FLAG PERSONS TO INSURE THE SAFETY OF ITS WORKERS AND THE PUBLIC.
3. CONTRACTOR SHALL MAINTAIN SAFE AND PASSABLE PUBLIC ACCESS TO PROPERTIES AND THE PUBLIC RIGHT-OF-WAY DURING CONSTRUCTION. EXCEPT AS APPROVED IN ADVANCE IN WRITING BY THE ENGINEER, TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGH WORK AREAS WITHIN THE PUBLIC RIGHT-OF-WAY. THESE TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT MUTCD MANUAL. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
4. EXCEPT AS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE WORK SHALL BE COORDINATED AND PERFORMED IN A MANNER SO THAT ALL EXISTING FIRE HYDRANTS SHALL BE ACCESSIBLE AT ALL TIMES DURING THE WORK.
5. CONTRACTOR SHALL NOTIFY PROPERTY OWNER(S) TWENTY-FOUR (24) HOURS IN ADVANCE OF BLOCKING ANY ENTRANCE. NO ENTRANCE SHALL BE BLOCKED FOR MORE THAN TWELVE (12) HOURS IN ANY 24 HOUR PERIOD WITHOUT APPROVAL OF THE PROPERTY OWNER, EXCEPT WHERE NEW ENTRANCES ARE CONSTRUCTED.
6. WITHIN 24 HOURS OF THEIR REMOVAL, CONTRACTOR SHALL REPLACE MAILBOXES, STREET SIGNS, TRAFFIC SIGNS, AND THE LIKE THAT ARE REMOVED FOR CONSTRUCTION. PERMANENT OR SUITABLE TEMPORARY ITEMS WILL BE USED AS THE STATUS OF WORK PERMITS. PERMANENT OR TEMPORARY STOP SIGNS MUST BE IN PLACE AT ALL TIMES.

EROSION CONTROL & WORK AREA PROTECTION AND MAINTENANCE

1. ALL FENCES REQUIRED TO BE REMOVED OR DISTURBED BY CONSTRUCTION SHALL BE SALVAGED, STORED, PROTECTED AND RE-INSTALLED BY CONTRACTOR. IF SUCH FENCE MATERIAL CANNOT BE REUSED DUE TO DAMAGE CAUSED BY CONTRACTOR, CONTRACTOR SHALL INSTALL NEW FENCE OF THE SAME TYPE OF MATERIAL. TEMPORARY FENCING REQUIRED BY PRIVATE PROPERTY OWNERS SHALL BE PROVIDED BY CONTRACTOR. CONTRACTOR IS ADVISED TO CONTACT PROPERTY OWNERS AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF REMOVING ANY FENCE IN ORDER TO COORDINATE RELOCATION AND/OR PROTECTION OF ANY ANIMALS, AND TO ESTABLISH AND CONFIRM WITH THE OWNER THE PRE-CONSTRUCTION CONDITION OF ANY FENCE TO BE REMOVED, DISTURBED OR REPLACED.
2. CONTRACTOR SHALL OBTAIN A PERMIT TO WORK IN PUBLIC RIGHT-OF-WAY. CONTRACTOR IS PERMITTED TO WORK IN TEMPORARY OR PERMANENT EASEMENTS OBTAINED BY OWNER. NOTIFY PROPERTY OWNER(S) FORTY-EIGHT (48) HOURS PRIOR TO WORKING ON ANY PRIVATE PROPERTY TO COORDINATE ACCESS.
3. CONTRACTOR SHALL, AT HIS EXPENSE, MAINTAIN THE WORK SITE IN A CLEAN AND ORDERLY APPEARANCE AT ALL TIMES. ALL DEBRIS AND SURPLUS MATERIAL COLLECTED SHALL BE DISPOSED OF OFF THE WORK SITE BY CONTRACTOR, AT HIS EXPENSE.
4. EXISTING LAWNS, TREES, SHRUBS, FENCES, UTILITIES, CULVERTS, WALLS, WALKS, DRIVEWAYS, POLES, SIGNS, RIGHT-OF-WAY MONUMENTS, MAILBOXES AND THE LIKE SHALL BE PROTECTED FROM DAMAGE DURING THE WORK. ANY DAMAGE CAUSED TO SUCH ITEMS SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST. PROPERTY PINS DISTURBED BY CONTRACTOR THAT ARE NOT SHOWN ON THE PLANS TO BE DISTURBED SHALL BE RESTORED BY A LICENSED SURVEYOR AT CONTRACTOR'S EXPENSE.
5. CONTRACTOR SHALL EMPLOY EROSION CONTROL DEVICES AND METHODS AS REQUIRED TO MEET THE REQUIREMENTS AND INTENT OF THE CITY OF STAUNTON EROSION CONTROL ORDINANCE. CONTRACTOR SHALL PROVIDE THE NECESSARY DIVERSION DITCHES, DIKES OR TEMPORARY CULVERTS REQUIRED TO PREVENT MUD AND DEBRIS FROM BEING WASHED ONTO THE STREETS OR PROPERTY. CONTRACTOR'S VEHICLES SHALL BE KEPT CLEAN TO PREVENT MUD OR DUST FROM BEING DEPOSITED ON STREETS. NO AREA SHALL BE LEFT DENUDED FOR MORE THAN SEVEN (7) CALENDAR DAYS.
6. CONTRACTOR SHALL CLEAN UP, RESTORE, PERMANENTLY SEED AND MAINTAIN ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF WORK ON EACH SITE. TOPSOIL, SEED, FERTILIZER AND MULCH SHALL BE PLACED IN ACCORDANCE WITH CITY OF STAUNTON STANDARDS ON ALL DISTURBED AREAS. A PERMANENT STAND OF GRASS ADEQUATE TO PREVENT EROSION SHALL BE ESTABLISHED PRIOR TO FINAL ACCEPTANCE.
7. AS DETERMINED BY THE ENGINEER, ANY DEFECTIVE, FAULTY, CRACKED, BROKEN OR GRAFFITIED SIDEWALKS, DRIVEWAYS, HANDICAP RAMPS OR CURB & GUTTER SHALL BE REMOVED AND REPLACED PRIOR TO FINAL ACCEPTANCE. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH WORK.

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COMMONWEALTH OF VIRGINIA
JEREMY L. FOX
Lic. No. 60786
05/14/2024
PROFESSIONAL ENGINEER

STAUNTON J&DR COURTS FACILITY

City of Staunton
2040 West Beverley Street, Staunton, VA 24401

PROJECT NO: 603874
DATE: MARCH 14, 2024

REVISIONS

DATE	DESCRIPTION
03/14/24	*AD-01R

*AD-01R

*AD-01R

BUILDING DEMOLITION NOTES AND DETAILS

C7.0

SIDEWALK BENEATH ROOF OVERHANG TO REMAIN FOR FACILITATION OF PEDESTRIANS FROM WEST BEVERLEY STREET TO NEW J&DR COURTS FACILITY.

REFER TO STRUCTURAL PLANS FOR LIMITS OF ROOF OVERHANG DEMOLITION.

SANITARY MH
TOP = 1551.29'
6" TC INV. IN = 1545.90'
8" DIP INV. IN = 1544.70'
8" DIP INV. OUT = 1544.57'

ROOF OVERHANG

FIRE DEPT. CONNECTION

LEGEND

LIMITS OF DEMOLITION

PID 3432
CITY OF STAUNTON, VIRGINIA
INST. 230001874
(CITY OF STAUNTON)
10.295 ACRES
(AS SURVEYED)

FF ELEV. = 1552.11'
THRESHOLD

FF ELEV. = 1552.07'

FF ELEV. = 1552.09'
THRESHOLD

FF ELEV. = 1552.06'

FF ELEV. = 1552.10'
THRESHOLD

HANDRAIL TO BE DEMOLISHED

SANITARY MH
TOP = 1550.98'
6" TC INV. IN =1541.68'
8" TC INV. IN = 1537.92'
8" DIP INV. IN = 1540.56'
8" DIP INV. OUT = 1537.79'

ABANDON BUILDING LATERAL AND PLUG AT SANITARY MANHOLE

ROOF OVERHANG TO BE DEMOLISHED

SANITARY MH
TOP = 1551.24'
4" DIP INV. IN = 1547.56'
8" DIP INV. IN = 1544.23'
8" DIP INV. OUT = 1543.93'

ABANDON BUILDING LATERAL AND PLUG AT SANITARY MANHOLE

EXISTING BUILDING WALL TO REMAIN. CONTRACTOR TO COORDINATE WITH ARCHITECT, STRUCTURAL, AND CITY OF STAUNTON FOR CONSTRUCTION OF NEW CMU WALL TO ACCOMPANY EXISTING WALL.

1-STORY BRICK/MASONRY BLDG.

DEMOLISH
1-STORY BRICK/MASONRY BLDG.
ADDITIVE ALTERNATE NO. 1

CONTRACTOR TO WORK WITH THE CITY OF STAUNTON FOR DESIRED PLACEMENT OF SAFETY FENCE OR OTHER PROPOSED MEANS OF SITE SECURITY MEASURES DURING DEMOLITION.

ASPHALT

CONC. TO REMAIN

FF ELEV. = 1552.06'
THRESHOLD

FF ELEV. = 1552.08'
THRESHOLD

FF ELEV. = 1552.11'

GUARDRAIL TO REMAIN

FF ELEV. = 1552.23'
LOADING DOCK DOORS
TO BE DEMOLISHED

STORM INLET AND PORTION OF PIPE TO REMAIN FOR SITE DRAINAGE. REFER TO "STAUNTON J&DR COURTS FACILITY" FINAL SITE PLAN FOR NEW STORM TIE-IN DOWNSTREAM.

CONC. TO REMAIN

WALL
1.0' WIDE
TO REMAIN

FF ELEV. = 1552.25'

GUARDRAIL TO REMAIN

DISCONNECT FDC

COORDINATE GAS METER ABANDONMENT WITH GAS COMPANY AND CITY OF STAUNTON.

STORM DRAINS TO BE REMOVED (TYP.)

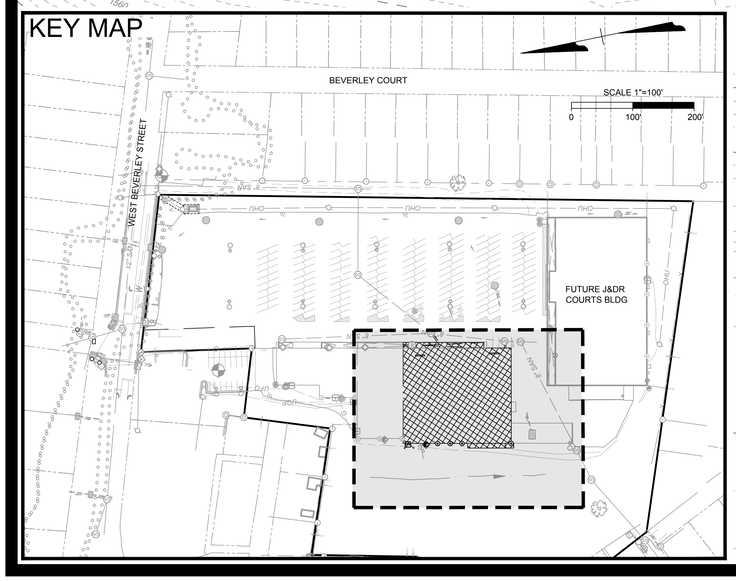
SANITARY MH
TOP = 1554.91'
8" DIP INV. IN = 1548.51'
8" DIP INV. OUT = 1548.46'

GRATE INLET
TOP = 1547.95'
8" TC INV. OUT = 1546.52'

DITCH

SANITARY MH
TOP = 1560.59'
8" TC INV. IN = 1554.73'
8" DIP INV. OUT = 1554.69'

KEY MAP



NOTE:
CONTRACTOR SHALL COORDINATE WITH THE CITY OF STAUNTON ON THE PROPOSED DEMOLITION OF THE 1-STORY BRICK/MASONRY BUILDING (OLD BIG LOTS) SHOWN HEREIN. DEMOLITION PARAMETERS SHOULD GENERALLY OCCUR IN CONJUNCTION WITH THE PROPOSED DEMOLITION SHOWN ON THE APPROVED FINAL SITE PLAN "STAUNTON J&DR COURTS FACILITY" DATED DECEMBER 4, 2023, LAST REVISED ON FEBRUARY 21, 2024.

SCALE 1"=10'
0
10'
20'

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DATE	DESCRIPTION
03/14/24	*AD-01R

AD-01R

AD-01R

BUILDING DEMOLITION INSET

C8.0

LEGEND

LIMITS OF INTERIOR SLAB TO REMAIN

LIMITS OF EXTERIOR CONCRETE TO REMAIN

PID 3432
CITY OF STAUNTON, VIRGINIA
INST. 230001874
(CITY OF STAUNTON)
10.295 ACRES
(AS SURVEYED)

1-STORY BRICK/MASONRY BLDG.

ROOF OVERHANG

FIRE DEPT. CONNECTION

CONC.

ASPHALT

WALL 0.65' WIDE

WALL 1.0' WIDE

GUARDRAIL

FF ELEV. = 1552.11' THRESHOLD

FF ELEV. = 1552.07'

FF ELEV. = 1552.09' THRESHOLD

FF ELEV. = 1552.06' THRESHOLD

FF ELEV. = 1552.08' THRESHOLD

CONTRACTOR TO ENSURE EXISTING GRADES REMAIN UNALTERED DURING AND AFTER DEMOLITION TO ENSURE POSITIVE SITE DRAINAGE.

CONTRACTOR TO INSTALL GUARDRAIL OR OTHER FALL PROTECTION ON SLAB APPROVED BY THE CITY OF STAUNTON.

DITCH

GRATE INLET
TOP = 1547.95'
8" TC INV. OUT = 1546.52'

1551.8'

1551.5'

1552.4'

1555

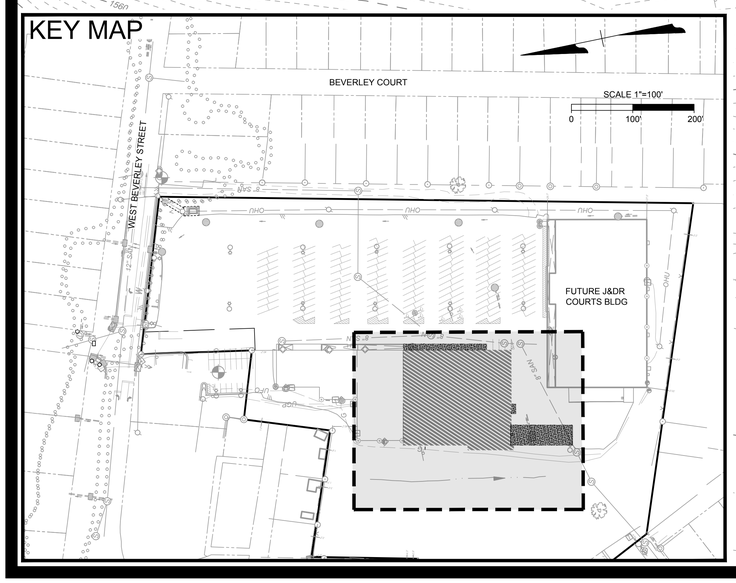
1560

1565

1570

SCALE 1"=10'
0 10' 20'

KEY MAP



NOTE:
CONTRACTOR SHALL COORDINATE WITH THE CITY OF STAUNTON ON THE PROPOSED DEMOLITION OF THE 1-STORY BRICK/MASONRY BUILDING (OLD BIG LOTS) SHOWN HEREIN. DEMOLITION PARAMETERS SHOULD GENERALLY OCCUR IN CONJUNCTION WITH THE PROPOSED DEMOLITION SHOWN ON THE APPROVED FINAL SITE PLAN "STAUNTON J&DR COURTS FACILITY" DATED DECEMBER 4, 2023, LAST REVISED ON FEBRUARY 21, 2024.

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COMMONWEALTH OF VIRGINIA
JEREMY L. FOX
Lic. No. 60786
05/14/2024
PROFESSIONAL ENGINEER

STAUNTON J&DR COURTS FACILITY

City of Staunton
2040 West Beverley Street, Staunton, VA 24401

PROJECT NO: 603874
DATE: MARCH 14, 2024

REVISIONS

DATE	DESCRIPTION
03/14/24	*AD-01R

AD-01R

AD-01R

BUILDING POST-DEMOLITION INSET

C9.0

KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A2.0.0

1	PARTIAL DEMOLITION OF EXISTING BUILDING. REMOVE ROOF, ROOF STRUCTURE, INTERIOR WALLS, AND THREE EXTERIOR WALLS DOWN TO THE TOP OF SLAB. EXISTING WALL COMPONENTS BELOW TOP OF SLAB TO REMAIN.
2	EXISTING EXTERIOR WALL TO REMAIN
3	PROTECTIVE COVER CANOPY TO BE REMOVED. OPENINGS IN VENEER AT DEMOED CANOPY TO BUILDING CONNECTIONS TO BE INFILLED, TOOTH IN WITH SALVAGED BRICK.
4	NEW CMU WALL ASSEMBLY, REFER TO DETAILS ON THIS SHEET

GENERAL NOTES

1. THE SCOPE OF WORK INDICATED ON THIS SHEET IS TO BE INCLUDED IN BID ADD ALTERNATE NO 1.
2. REFER TO HAZARDOUS MATERIALS REPORT AND SECTION 028000 HAZARDOUS MATERIALS REMEDIATION.
3. FILL ANY EXPOSED OPEN CMU CELL AFTER WALL DEMOLITION AND OPEN HOLES IN CONCRETE SLAB AFTER COLUMN DEMOLITION WITH GRAVEL.

GENERAL DEMOLITION NOTES AND STRUCTURAL SCOPE

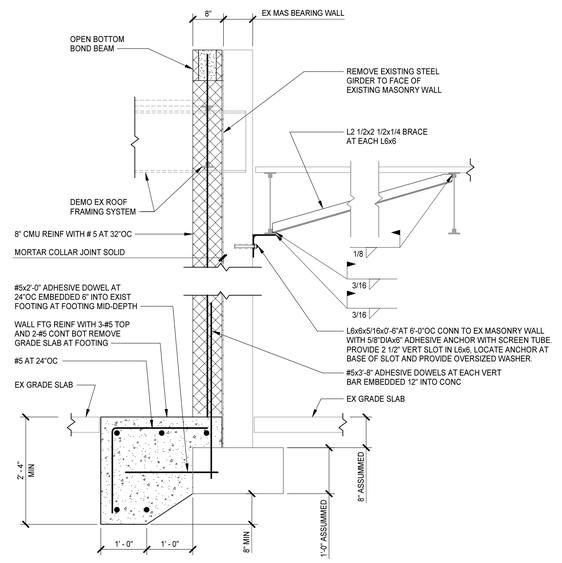
DESCRIPTION OF THE EXISTING STRUCTURE TO BE DEMOLISHED IS BASED ON A LIMITED OBSERVATION CONSISTING OF A SINGLE SITE VISIT. EXISTING BUILDING DRAWINGS WERE NOT PROVIDED TO MOSELEY.

THE STRUCTURE IS A SINGLE-LEVEL STEEL-FRAMED BUILDING CONSISTING OF STEEL ROOF DECK SUPPORTED BY STEEL ROOF JOISTS AND STEEL BEAM GIRDERS WHICH IN TURN ARE SUPPORTED BY INTERIOR STEEL COLUMNS, ONE INTERIOR CMU BEARING WALL, AND THE EXTERIOR BEARING MASONRY WALLS. A MEZZANINE CONSISTING OF A SLAB SUPPORTED BY JOISTS AND CMU BEARING WALLS IS LOCATED AT THE BACK RIGHT CORNER OF THE BUILDING TO BE DEMOLISHED. WE ANTICIPATE THE FLOOR IS A GRADE SLAB 4 TO 6" IN THICKNESS. WE ANTICIPATE THE EXTERIOR WALLS AND ANY INTERIOR MASONRY PARTITIONS ARE SUPPORTED BY SHALLOW STRIP FOOTINGS. WE ALSO ANTICIPATE STEEL COLUMNS ARE SUPPORTED BY SHALLOW ISOLATED COLUMN FOOTINGS.

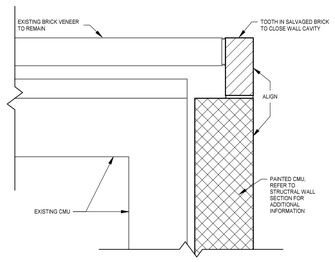
THE FOLLOWING BUILDING ELEMENTS (OF THE BIG LOTS BUILDING) SHALL BE REMOVED.

1. THE ROOF STRUCTURE.
2. THE STEEL COLUMNS TO GRADE SLAB ELEVATION. FRAME CUT STEEL AT GRADE ELEVATION.
3. EXTERIOR AND INTERIOR WALLS TO GRADE SLAB ELEVATION.
4. THE INTERIOR GRADE SLAB SHALL REMAIN EXCEPT FOR THE PORTION AT THE WALL FOOTING ADJACENT TO THE EXISTING PARTY WALL.
5. REFER TO THE WALL SECTION LOCATED ON THIS DRAWING FOR DETAILS AT THE EXISTING PARTY WALL.
6. THE 11 COLUMN LONG PRECAST CONCRETE CANOPY ELEMENT AT THE FRONT ELEVATION.

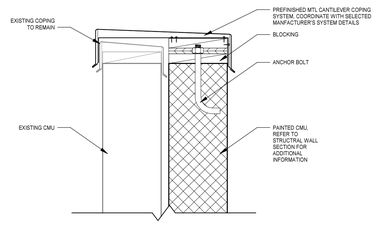
THE EXISTING MASONRY PARTY WALL. THE WALL THAT ABUTS AT THE EXTENTS OF BUILDING DEMOLITION, IS A BEARING WALL AND SHALL REMAIN. THE STEEL ROOF STRUCTURE SHALL BE REMOVED IN A MANNER AS TO NOT DAMAGE THIS WALL. AFTER BUILDING DEMOLITION, A SECONDARY REINFORCED CMU WALL, ABUTTING THE EXISTING WALL, SHALL BE CONSTRUCTED. THIS WALL IS DESIGNED TO RESIST LOADING AS IT IS NOW A PERMANENT EXTERIOR WALL AND A CONTINUOUS CONCRETE STRIP FOOTING SHALL BE PLACED TO A DEPTH TO PROTECT THIS WALL FROM FROST HEAVE. REFER TO THE WALL SECTION BELOW FOR ADDITIONAL DETAILS. THIS WALL AND WALL FOOTING SHALL BE INSPECTED BY THE OWNER'S SPECIAL INSPECTOR.



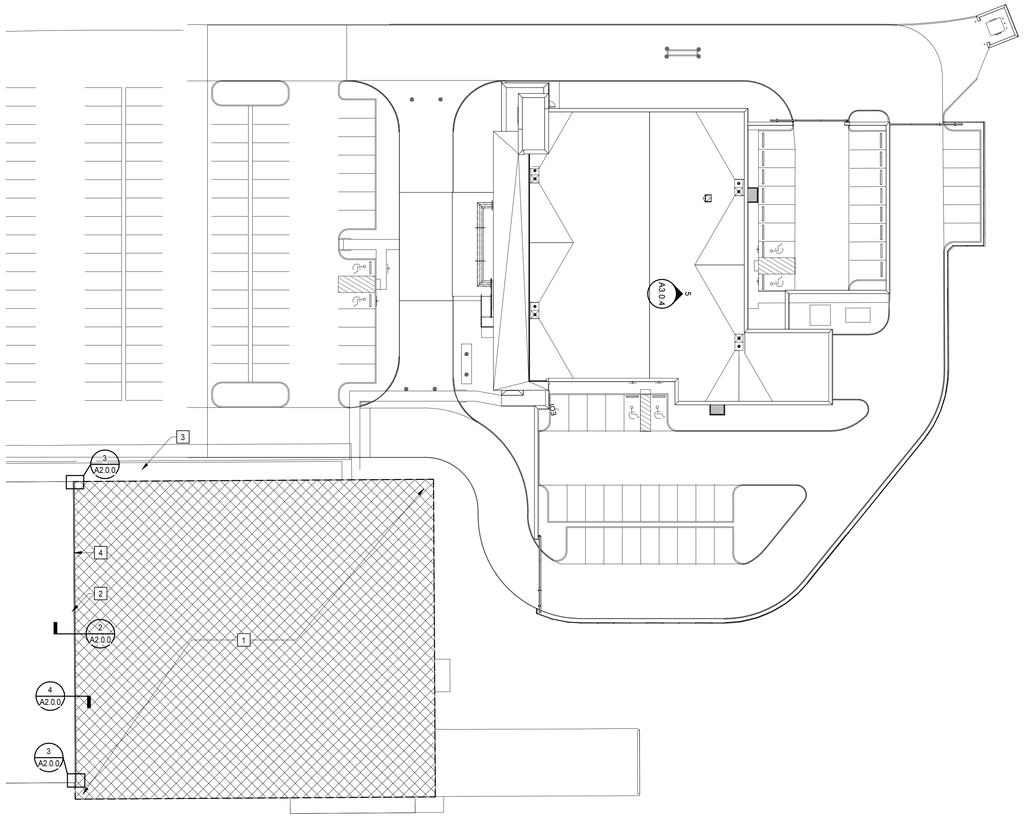
4 A2.0.0 **NEW/EXISTING CMU WALL**
3/4" = 1'-0"



3 A2.0.0 **WALL TERMINATION DETAIL**
1 1/2" = 1'-0"



2 A2.0.0 **TOP OF WALL CONDITION**
1 1/2" = 1'-0"



SITE PLAN
1" =1'-0"

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STAUNTON J&DR COURTS FACILITY

2040 WEST BEVERLEY STREET
CITY OF STAUNTON, VA 24401

PROJECT NO: 630874
DATE: MARCH 1, 2024

REVISIONS

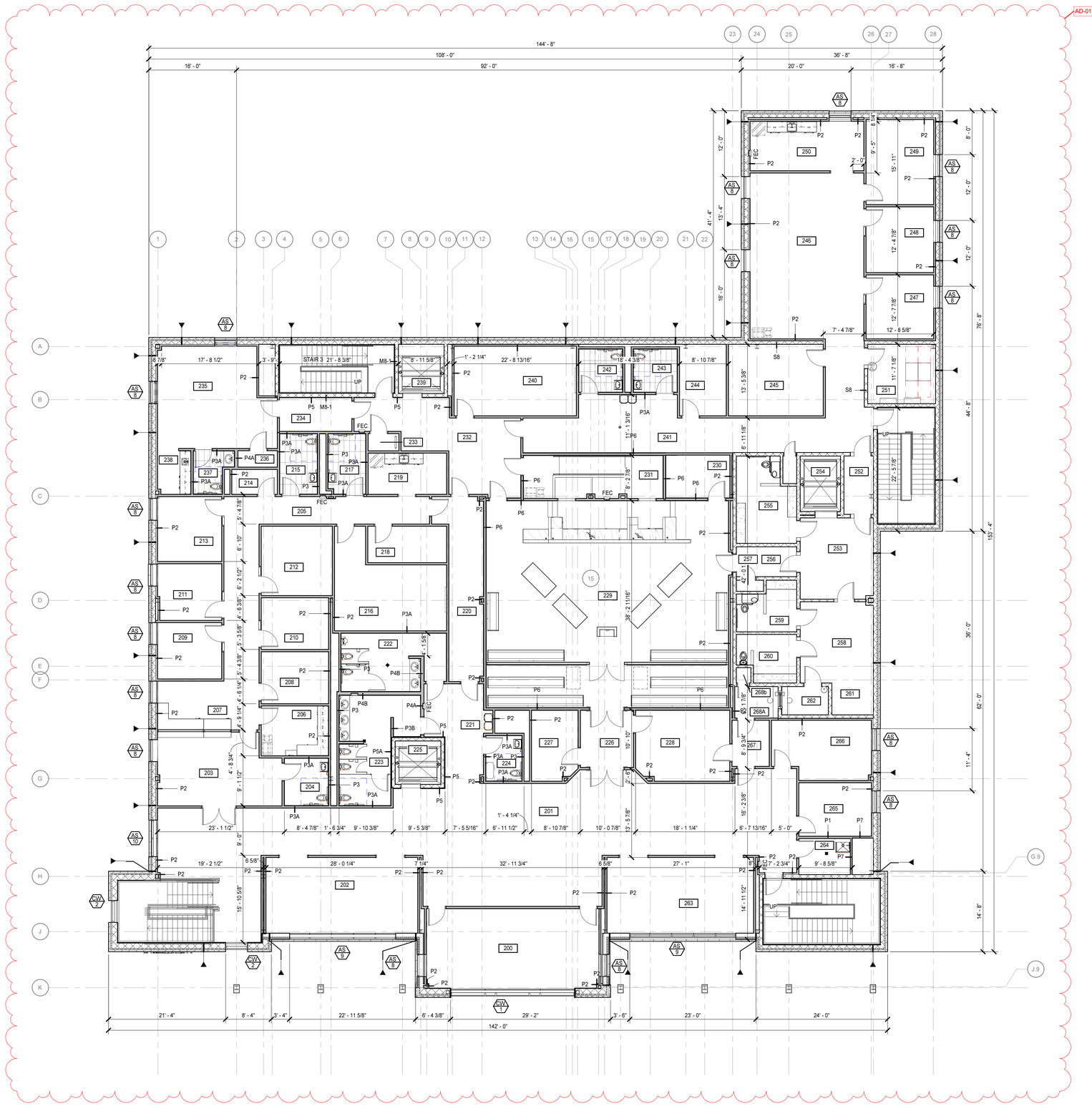
DATE	DESCRIPTION
03/14/24	AD-01R

AD-01R

ADD ALTERNATE NO 1 - PARTIAL BUILDING DEMOLITION PLAN AND DETAILS

A2.0.0

3/14/2024 11:45:17 AM



SECOND FLOOR DIMENSION PLAN
1/8" = 1'-0"

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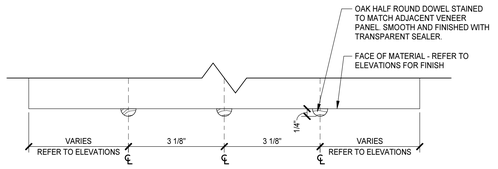
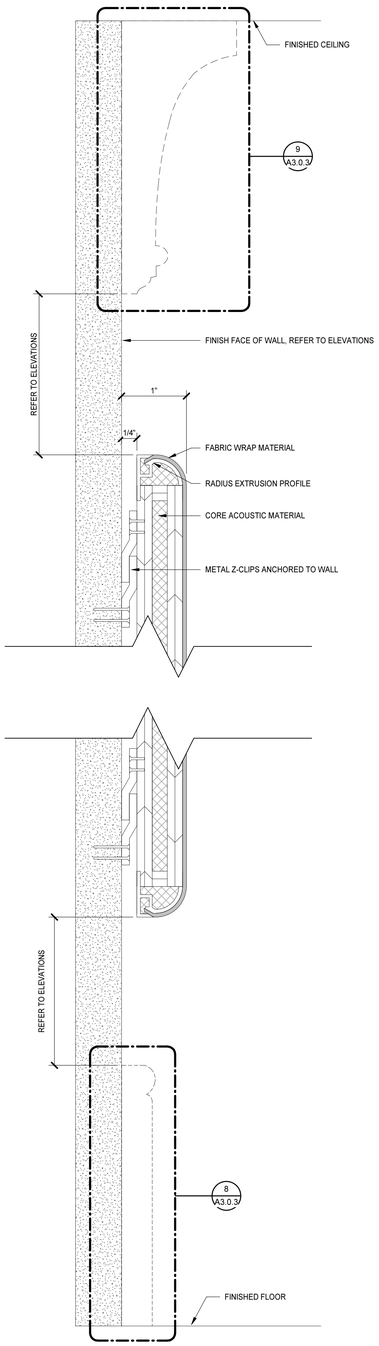
SECOND FLOOR DIMENSION PLAN

A2.2.1

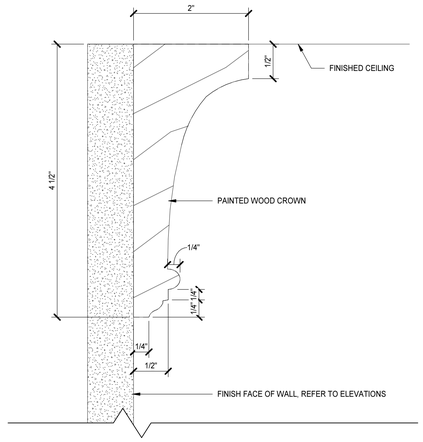
3/14/2024 11:38:11 AM



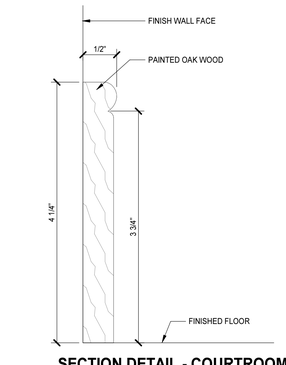
11 TYP A3.0.3 — SECTION DETAIL - HALF ROUND COURTROOM PANEL TRIM
6" = 1'-0"



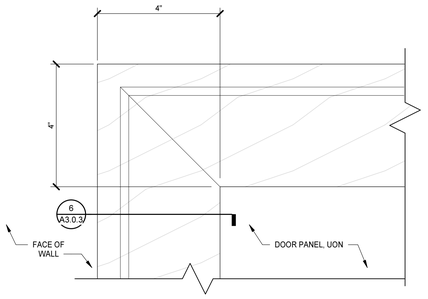
10 TYP A3.0.3 — SECTION DETAIL - ACOUSTIC WALL PANEL
12" = 1'-0"



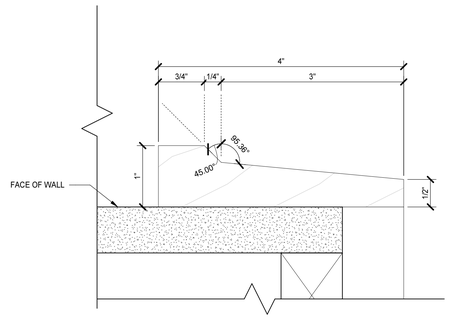
9 TYP A3.0.3 — SECTION DETAIL - COURTROOM CROWN
12" = 1'-0"



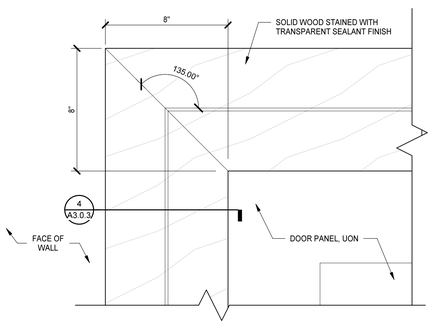
8 TYP A3.0.3 — SECTION DETAIL - COURTROOM WOOD BASE
12" = 1'-0"



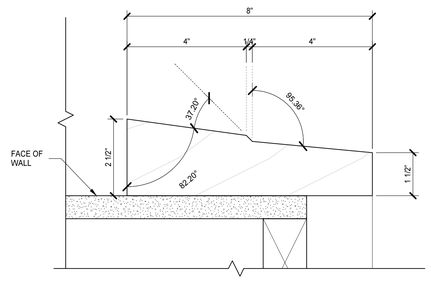
7 TYP A3.0.3 — ELEVATION - PUBLIC DOOR TRIM
6" = 1'-0"



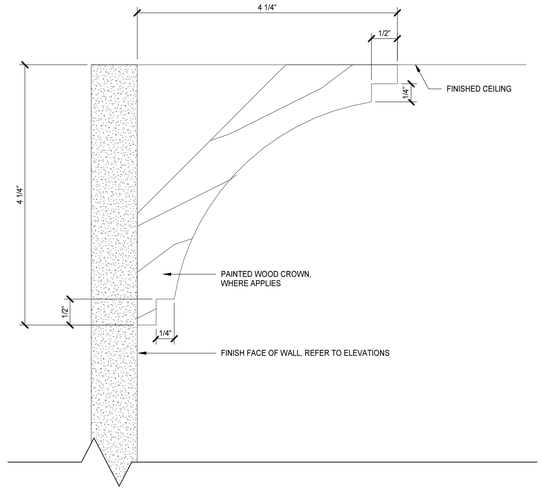
6 TYP A3.0.3 — SECTION PLAN DETAIL - PUBLIC DOOR TRIM
12" = 1'-0"



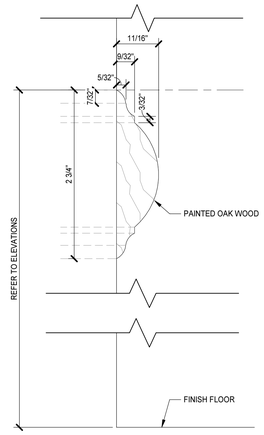
5 TYP A3.0.3 — ELEVATION - COURTROOM DOOR TRIM
3" = 1'-0"



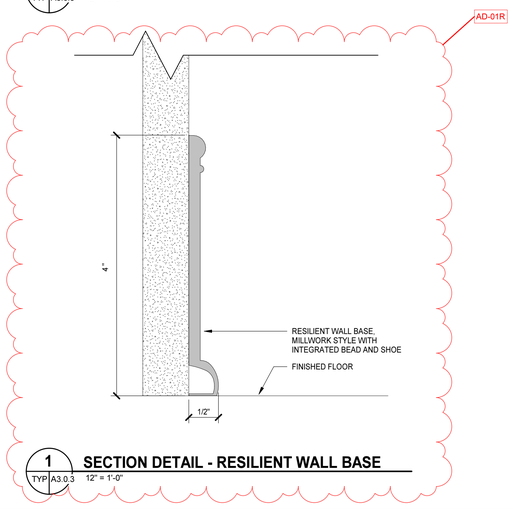
4 TYP A3.0.3 — SECTION PLAN DETAIL - COURTROOM DOOR TRIM
6" = 1'-0"



3 TYP A3.0.3 — SECTION DETAIL - TYPICAL CROWN
12" = 1'-0"



2 TYP A3.0.3 — SECTION DETAIL - TYPICAL CHAIR RAIL
12" = 1'-0"



1 TYP A3.0.3 — SECTION DETAIL - RESILIENT WALL BASE
12" = 1'-0"

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STAUNTON J&DR COURTS FACILITY

2040 WEST BEVERLEY STREET
CITY OF STAUNTON, VA 24401

PROJECT NO: 630874
DATE: MARCH 1, 2024

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DATE	DESCRIPTION
03/14/24	AD-01R

WOOD TRIM DETAILS

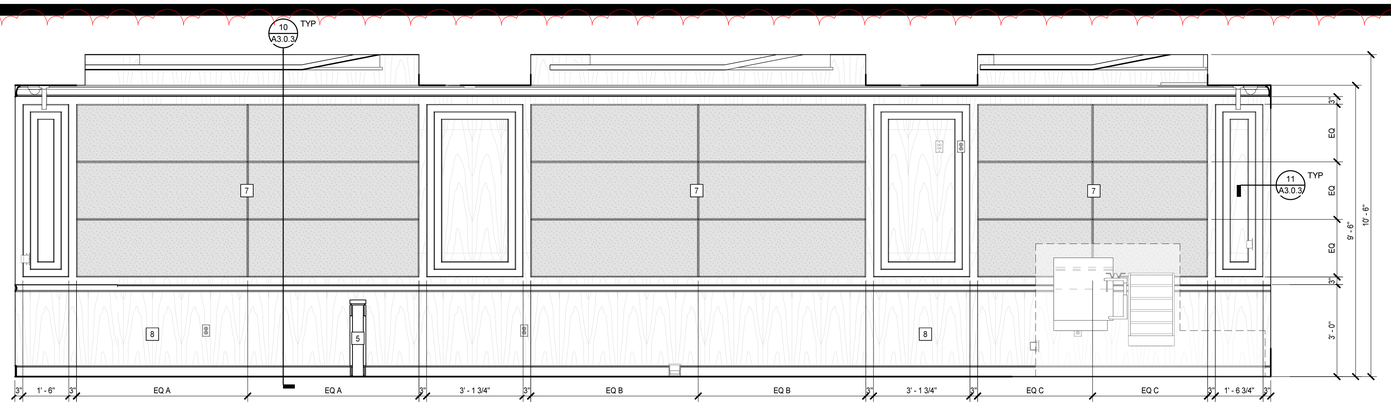
A3.0.3

3/14/2024 12:00:44 PM

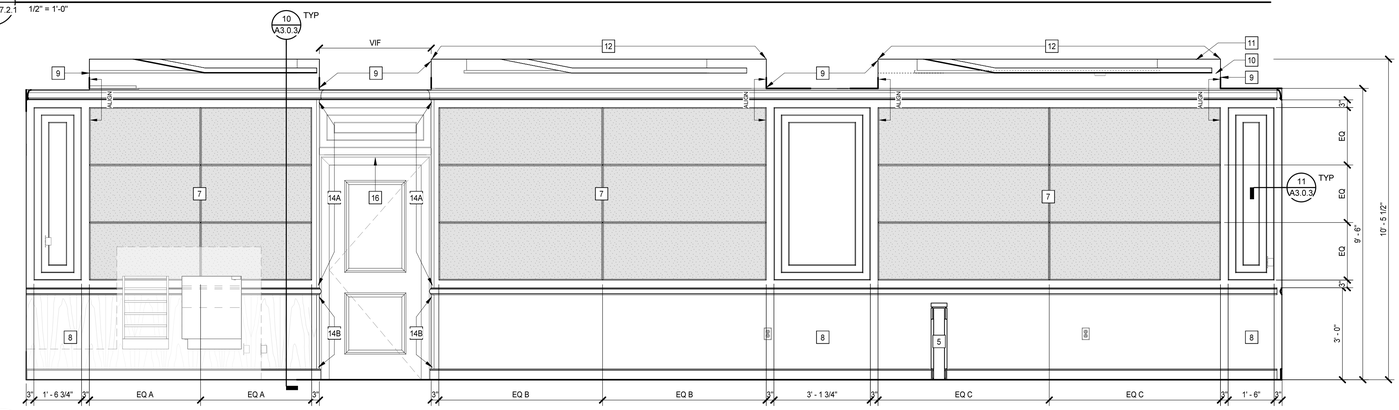
KEYNOTES

APPLIES TO DRAWINGS A7.2.n

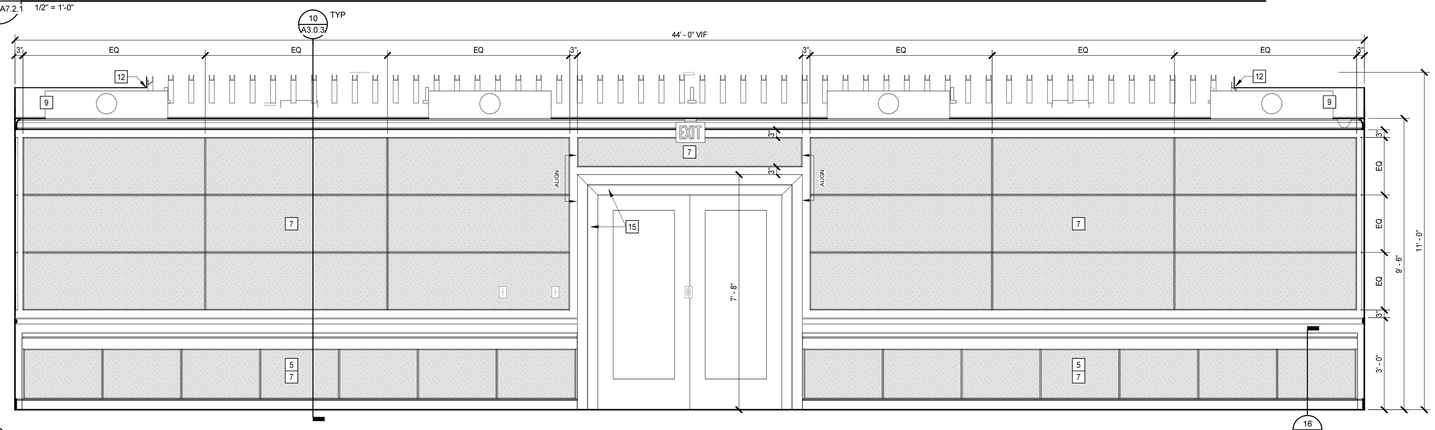
1	ACCESSIBLE RAMP
2	LITIGANT'S TABLE
3	WITNESS PODIUM
4	FIXED BENCH
5	SPECTATOR RAILING FIXED TO FLOOR
6	NEOPRENE PAD RECESSED DEEP IN TO CONC SLAB UNDERNEATH CARPET FINISH
7	FABRIC STRETCHED ACOUSTIC PANELS
8	BOOK MATCH PLYWOOD VENEER PANEL WITH TRANSPARENT FINISH
9	GYP BULKHEAD, REFER TO RCP
10	DASHED LINES INDICATE ACOUSTIC BAFFLE GRID SYSTEM, EXPOSED
11	BLACK ACP BEYOND OPEN ACOUSTIC BAFFLE SYSTEM
12	ANGLED CEILING SHAPE ON 10'-6" AFF PLANE, REFER TO RCP FOR FURTHER DETAILS
13	BENCH LANDING, REFER TO PLAN FOR DIMENSIONS
14A	PVC CORNERGUARD, MATCH WALL PAINT COLOR
14B	PVC CORNERGUARD, MATCH WD VENEER COLOR
15	WOOD DOOR TRIM, TYP. REFER TO 5/A3.0.3
16	WOOD DOOR TRIM, TYP. REFER TO 7/A3.0.3
17	CITY SEAL, DIRECT MOUNT ON STANDOFFS



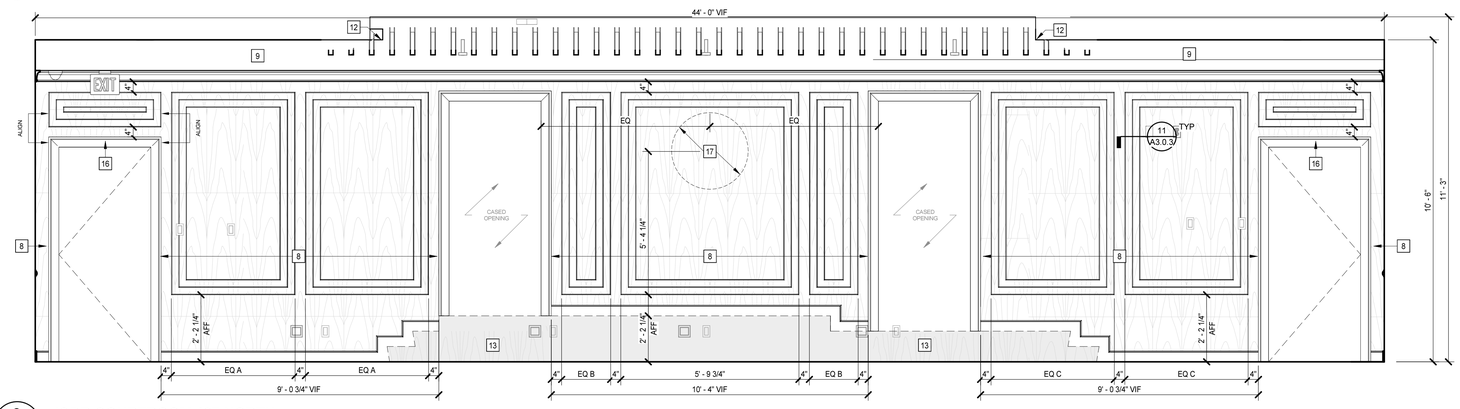
5 J&DR COURTROOM 127 WEST
A3.0.1 | A7.2.1 — 1/2" = 1'-0"



4 J&DR COUTROOM 127 EAST
A3.0.1 | A7.2.1 — 1/2" = 1'-0"

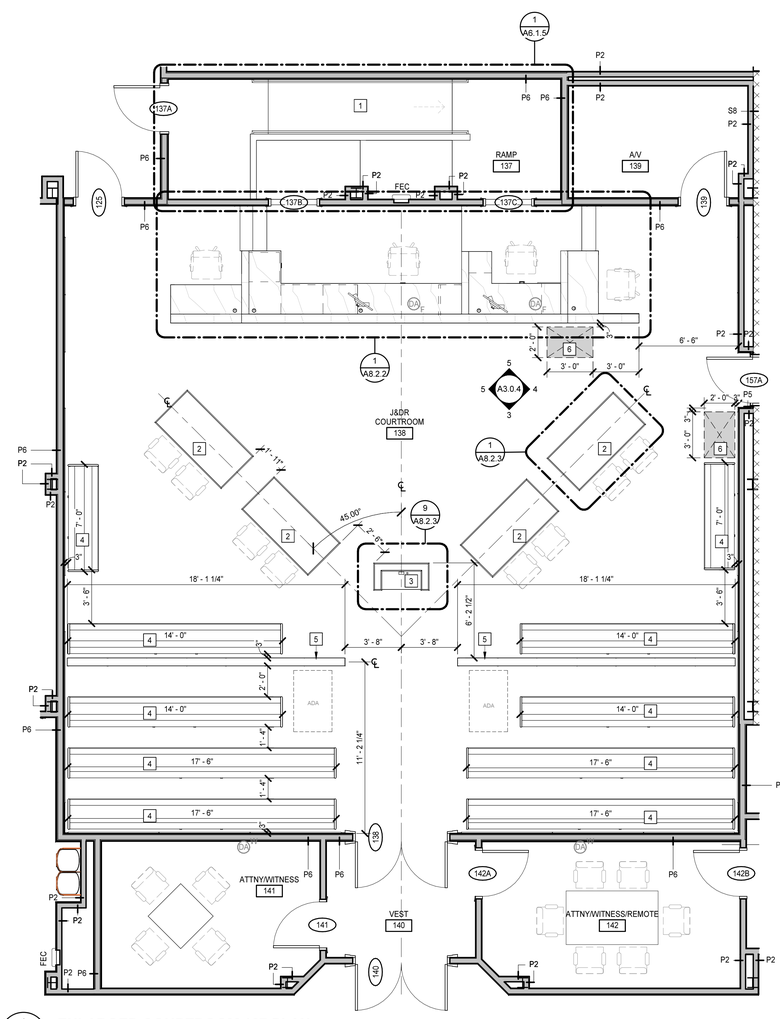


3 J&DR COURTROOM 127 SOUTH
A3.0.1 | A7.2.1 — 1/2" = 1'-0"



2 J&DR COURTROOM 127 NORTH
A3.0.1 | A7.2.1 — 1/2" = 1'-0"

AD-01R



1 ENLARGED COURTROOM 127 PLAN
A2.1.0 | A7.2.1 — 1/4" = 1'-0"

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3/1/2024
ARCHITECT

STAUNTON J&DR COURTS FACILITY

2040 WEST BEVERLEY STREET
CITY OF STAUNTON, VA 24401

PROJECT NO: 630874
DATE: MARCH 1, 2024

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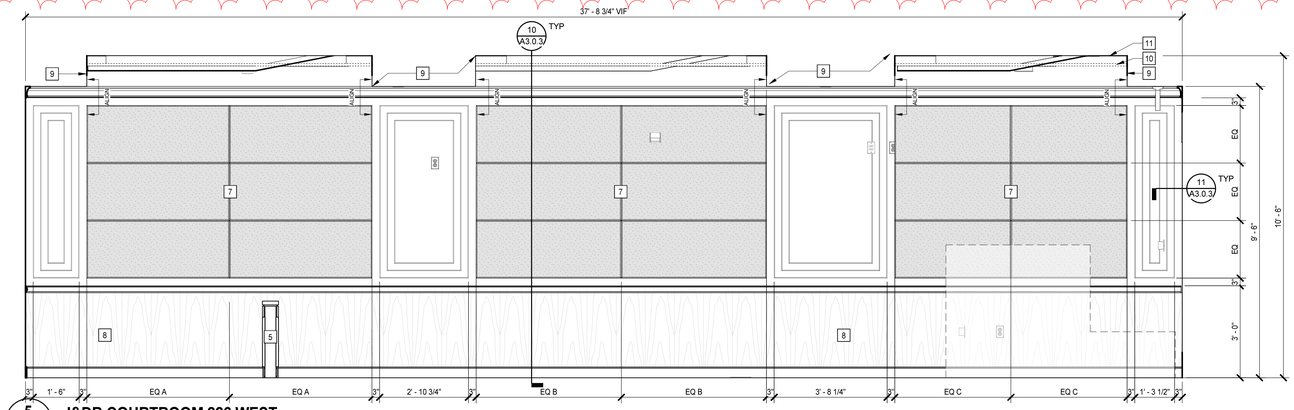
DATE	DESCRIPTION
03/14/24	AD-01R

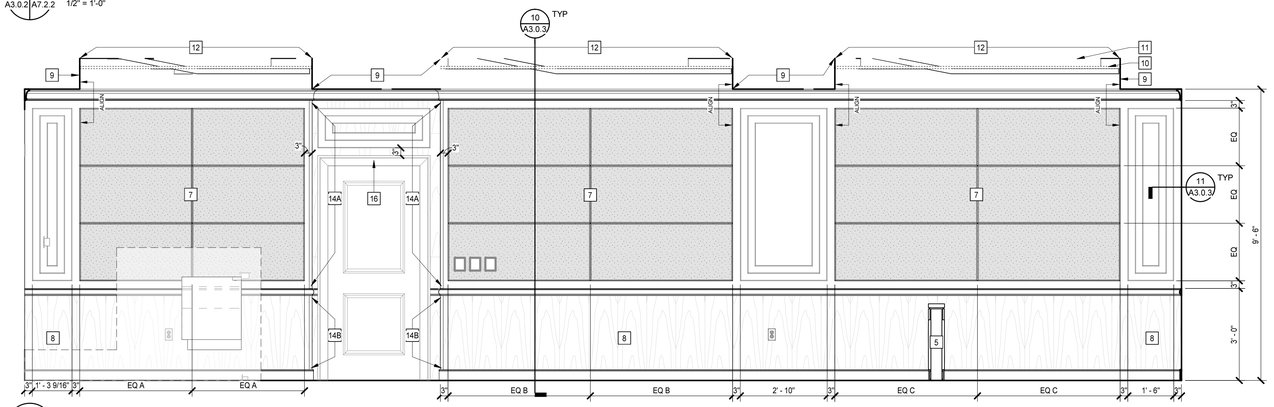
ENLARGED FIRST FLOOR COURTROOM AND ELEVATIONS

A7.2.1

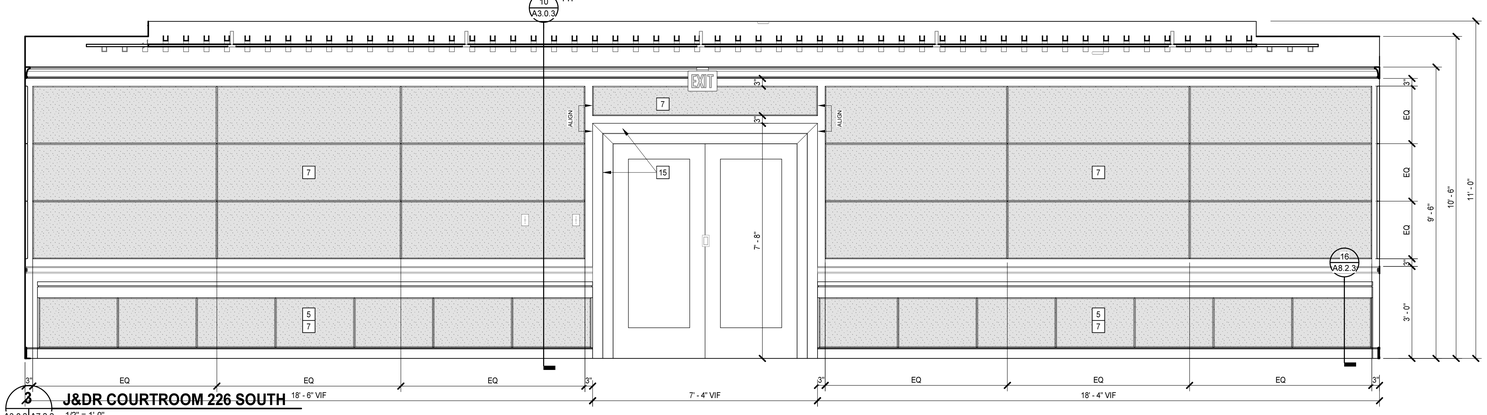
3/14/2024 12:00:11 PM



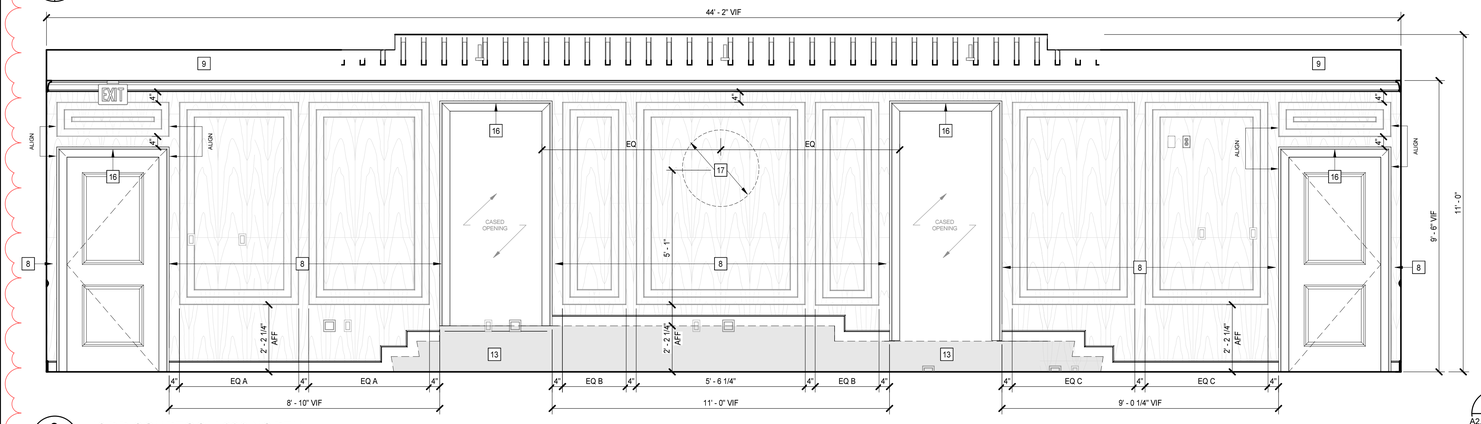
5 J&DR COURTROOM 226 WEST
A3.0.2 A7.2.2 1/2" = 1'-0"



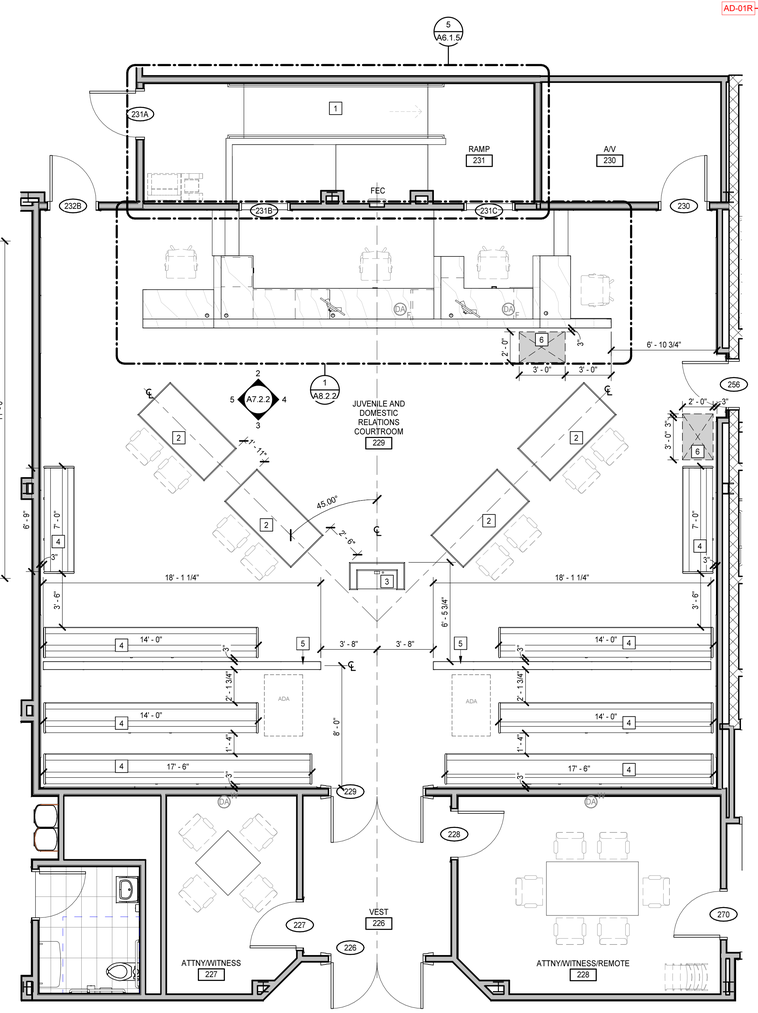
4 J&DR COURTROOM 226 EAST
A3.0.2 A7.2.2 1/2" = 1'-0"



3 J&DR COURTROOM 226 SOUTH
A3.0.2 A7.2.2 1/2" = 1'-0"



2 J&DR COURTOOM 226 NORTH
A3.0.2 A7.2.2 1/2" = 1'-0"



1 ENLARGED COURTROOM 226 PLAN
A2.2.0 A7.2.2 1/4" = 1'-0"

KEYNOTES

APPLIES TO DRAWINGS A7.2.n

1	ACCESSIBLE RAMP
2	LITIGANT'S TABLE
3	WITNESS PODIUM
4	FIXED BENCH
5	SPECTATOR RAILING FIXED TO FLOOR
6	NEOPRENE PAD RECESSED DEEP IN TO CONC SLAB UNDERNEATH CARPET FINISH
7	FABRIC STRETCHED ACOUSTIC PANELS
8	BOOK MATCH PLYWOOD VENEER PANEL WITH TRANSPARENT FINISH
9	GYP BULKHEAD, REFER TO RCP
10	DASHED LINES INDICATE ACOUSTIC BAFFLE GRID SYSTEM, EXPOSED
11	BLACK ACP BEYOND OPEN ACOUSTIC BAFFLE SYSTEM
12	ANGLED CEILING SHAPE ON 10'-6" AFF PLANE, REFER TO RCP FOR FURTHER DETAILS
13	BENCH LANDING, REFER TO PLAN FOR DIMENSIONS
14A	PVC CORNERGUARD, MATCH WALL PAINT COLOR
14B	PVC CORNERGUARD, MATCH WD VENEER COLOR
15	WOOD DOOR TRIM, TYP. REFER TO 5/A3.0.3
16	WOOD DOOR TRIM, TYP. REFER TO 7/A3.0.3
17	CITY SEAL, DIRECT MOUNT ON STANDOFFS

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STAUNTON J&DR COURTS FACILITY

2040 WEST BEVERLEY STREET
CITY OF STAUNTON, VA 24401

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DATE: MARCH 1, 2024

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03/14/24	AD-01R

AD-01R

ENLARGED SECOND FLOOR COURTROOM AND ELEVATIONS

A7.2.2

3/14/2024 11:59:42 AM

GENERAL INTERIOR ELEVATION NOTES

APPLICABLE TO ALL INTERIOR ELEVATIONS, UNLESS OTHERWISE NOTED:

A. THE FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT ROOM FINISHES. FINISH KEYNOTES (IF ANY) MAY INDICATE INDICATE A DIFFERENT FINISH FROM THE SCHEDULE AND ARE DEFINED IN THE AREA(S) SPECIFICALLY NOTED.

B. WALLS SHOWN WITHOUT FINISH KEYNOTE, SHALL BE PAINTED AS SCHEDULED.

C. WHERE SHOWN, IMPACT RESISTANT WALL PANELS [IRWP] INDICATE TWO DIFFERENT PATTERN STYLES NOTED IN THE INTERIOR FINISH LEGEND.

CASEWORK GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
- 2'-10" AFF MAX OR 2'-10" MAX TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
- 2'-1" DEEP
- BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK
- EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS
- COUNTERTOPS INDICATED WITH SURFACE GROMMETS TO HAVE UNDERMOUNT WIRE MANAGEMENT TROUGHS.
- FINISH: **[SOLID SURFACE]**

B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
- 2'-0" DEEP NOMINAL
- TOE KICKS: 4" NOMINAL HIGH (REDUCE AS NEEDED FOR TOLERANCES) AND 3" DEEP
- SINK LOCATIONS: FOR BARRIER FREE ACCESS, MINIMUM 2'-0" WIDE CLEAR KNEE SPACE REQUIRED INCLUDING INTERIOR WIDTH OF BASE CABINET WITH ATTACHED TOE KICK, IF SHOWN.
- ALL CABINET DRAWERS FABRICATED WITH SOFT-CLOSE FULL EXTENTION GLIDES.
- FINISH: **[PLAM]**

C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
- 1'-0 1/2" DEEP NOMINAL
- 2'-6" HIGH
- TOP AT 7'-0" AFF
- MINIMUM 11" CLEAR INTERIOR DEPTH
- ALL CABINET DOORS FABRICATED WITH SOFT-CLOSE HINGES
- SHALL HAVE SUFFICIENT BLOCKING SUPPORT AS REQUIRED.
- FINISH: **[PLAM]**

D. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.

E. ALL SHELVES: ADJUSTABLE WITH METAL PINS UNLESS INDICATED OTHERWISE.

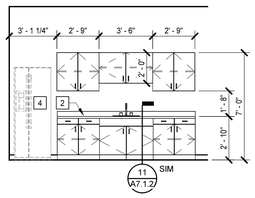
F. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.

G. LOCKS WHERE NOTED; IF ANY.

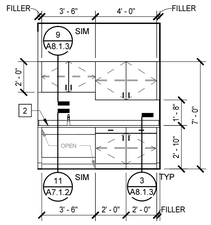
INTERIOR ELEVATIONS KEYNOTES

APPLIES TO DRAWINGS A8.1.1

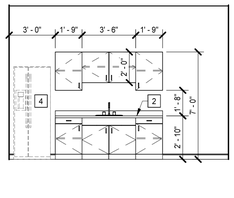
1	RECESSED EPOXY TERRAZZO WALL BASE, REFER TO SECTION DETAIL 4/A5.2.2
2	SOLID SURFACE COUNTERTOP AND BACK SPLASH / SIDE SPLASH
3	TRASH GROMMET COUNTERTOP OPENING
4	<varies>
5	ADA MINI REFRIGERATOR, NIC
6	MANUAL ROLLER SHADE MOUNTED TO RECESSED CEILING POCKET, REFER TO DETAIL 12/A5.2.3
7	RECESSED CELL PHONE LOCKER
8	RECESSED SPECIMEN PASS-THRU CABINET
9	EQUIPMENT, NIC
10	OPEN SLOT PASS-THRU
11	<varies>
12	PROVIDE LOCK
13	CPU HOLDER, NIC
14	SOLID STEEL UNDERCOUNTER METAL SUPPPORT
15	WOOD CHAIR RAIL, REFER TO 2/A3.0.3
16	WOOD CROWN, REFER TO 3/A3.0.3



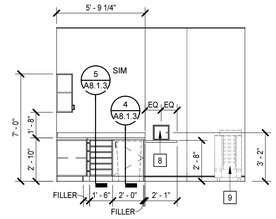
18 KITCHENETTE 250 NORTH
A2.2.0 A8.1.1 1/4" = 1'-0"



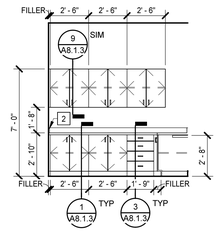
17 COFFEE 238 EAST
A8.1.2 A8.1.1 1/4" = 1'-0"



16 KITCHENETTE 219 NORTH
A2.2.0 A8.1.1 1/4" = 1'-0"

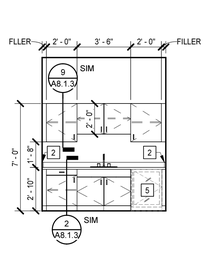


15 WORKROOM 206 SOUTH
A8.1.2 A8.1.1 1/4" = 1'-0"

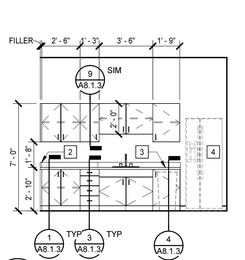


14 WORKROOM 206 EAST
A8.1.2 A8.1.1 1/4" = 1'-0"

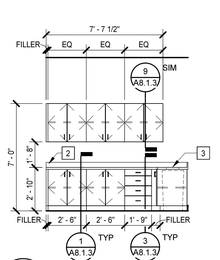
13 COFFEE 128b EAST
A2.1.0 A8.1.1 1/4" = 1'-0"



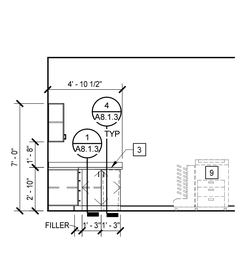
12 WELLNESS ROOM 126 WEST
A2.1.0 A8.1.1 1/4" = 1'-0"



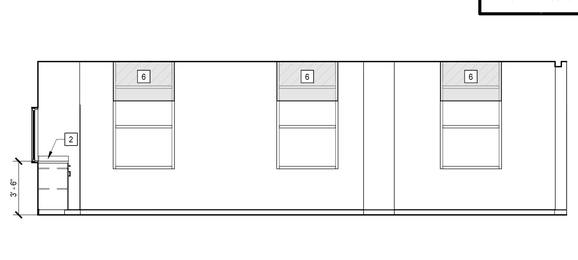
11 SHARED BREAK 127 EAST
A2.1.0 A8.1.1 1/4" = 1'-0"



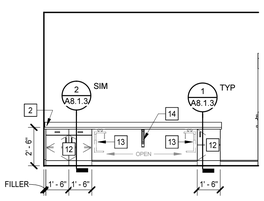
10 WORKROOM 113 NORTH
A2.1.0 A8.1.1 1/4" = 1'-0"



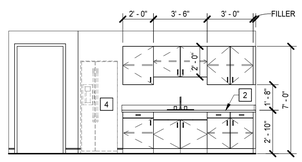
9 WORKROOM 113 EAST
A2.1.0 A8.1.1 1/4" = 1'-0"



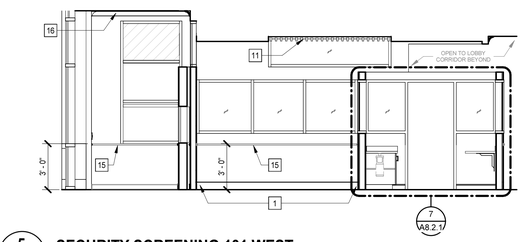
8 OPEN OFFICE 108 WEST
A2.1.0 A8.1.1 1/4" = 1'-0"



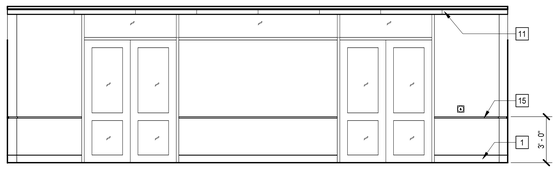
7 CONTROL ROOM 164 EAST
A2.1.0 A8.1.1 1/4" = 1'-0"



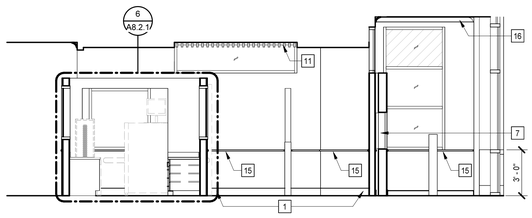
6 KITCHENETTE 116 NORTH
A2.1.0 A8.1.1 1/4" = 1'-0"



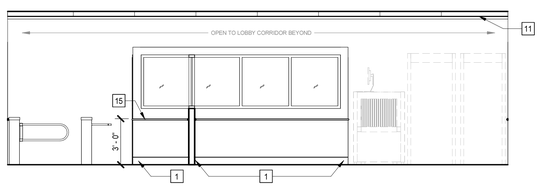
5 SECURITY SCREENING 101 WEST
A1.1.2 A8.1.1 1/4" = 1'-0"



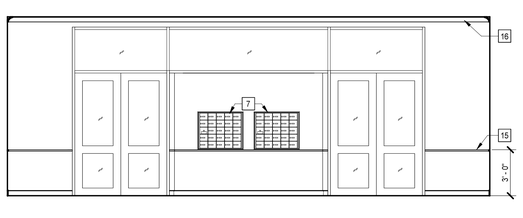
4 SECURITY SCREENING 101 SOUTH
A3.0.1 A8.1.1 1/4" = 1'-0"



3 SECURITY SCREENING 101 EAST
A1.1.2 A8.1.1 1/4" = 1'-0"



2 SECURITY SCREENING 101 NORTH
A3.0.1 A8.1.1 1/4" = 1'-0"



1 ENTRY VESTIBULE 100 NORTH
A2.1.0 A8.1.1 1/4" = 1'-0"

AD-01R

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
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MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
ANTHONY J. BELL III
Lic. No. 009147
3/1/2024
ARCHITECT

STAUNTON J&DR COURTS FACILITY

2040 WEST BEVERLEY STREET
CITY OF STAUNTON, VA 24401

PROJECT NO: 630874
DATE: MARCH 1, 2024

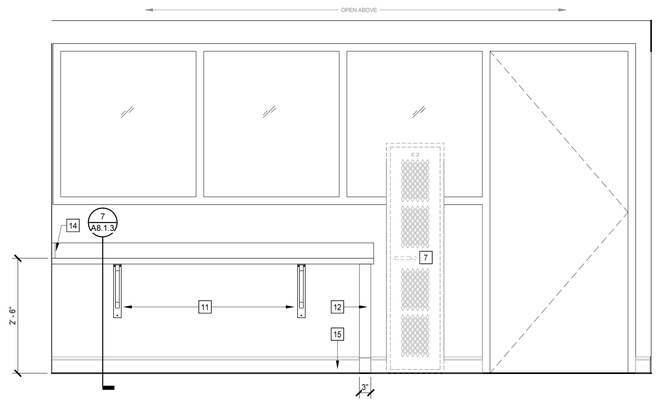
REVISIONS

DATE	DESCRIPTION
03/14/24	AD-01R

CASEWORK AND INTERIOR ELEVATIONS

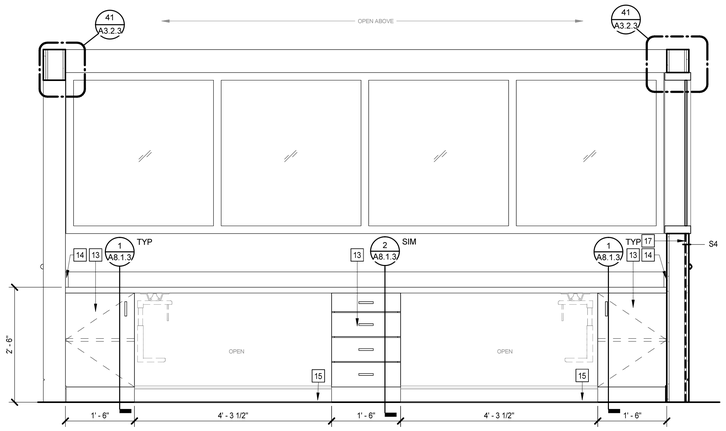
A8.1.1

3/14/2024 11:57:06 AM



8 A8.2.1 A8.2.1 **ELEVATION - SECURITY DESK INTERIOR NORTH**

3/4" = 1'-0"



5 A8.2.1 A8.2.1 **SECTION - SECURITY DESK INTERIOR SOUTH**

3/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. FURNITURE DASHED IN GREY INDICATED AS NIC, UNO.

CASEWORK GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
- 2'-10" AFF MAX OR 2'-10" MAX TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
- 2'-1" DEEP
- BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK
- EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS
- COUNTERTOPS INDICATED WITH SURFACE GROMMETS TO HAVE UNDERMOUNT WIRE MANAGEMENT TROUGHS.
- FINISH: **[SOLID SURFACE]**

B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
- 2'-0" DEEP NOMINAL
- TOE KICKS: 4" NOMINAL HIGH (REDUCE AS NEEDED FOR TOLERANCES) AND 3" DEEP
- SINK LOCATIONS: FOR BARRIER FREE ACCESS, MINIMUM 3'-0" WIDE CLEAR KNEE SPACE REQUIRED INCLUDING INTERIOR WIDTH OF BASE CABINET WITH ATTACHED TOE KICK, IF SHOWN.
- ALL CABINET DRAWERS FABRICATED WITH SOFT-CLOSE FULL EXTENTION GLIDES.
- FINISH: **[PLAM]**

C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
- 1'-0 1/2" DEEP NOMINAL
- 2'-6" HIGH
- TOP AT 7'-0" AFF
- MINIMUM 11" CLEAR INTERIOR DEPTH
- ALL CABINET DOORS FABRICATED WITH SOFT-CLOSE HINGES
- SHALL HAVE SUFFICIENT BLOCKING SUPPORT AS REQUIRED.
- FINISH: **[PLAM]**

D. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.

E. ALL SHELVES: ADJUSTABLE WITH METAL PINS UNLESS INDICATED OTHERWISE.

F. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.

G. LOCKS WHERE NOTED; IF ANY.

AD-01R

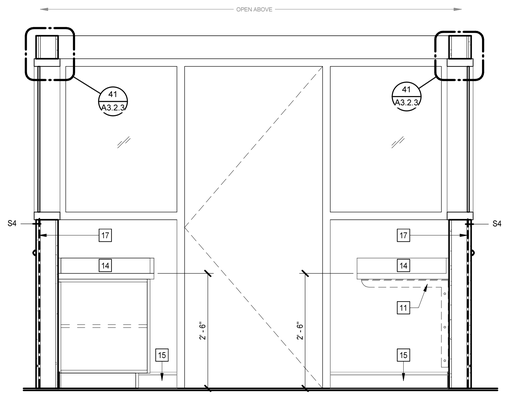
CASEWORK KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A8.2.1

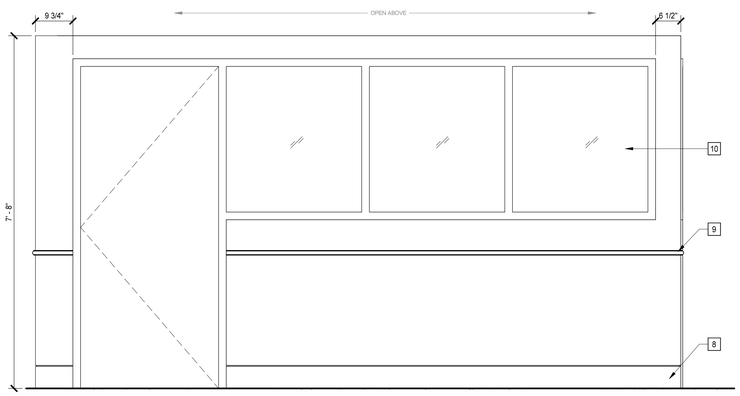
1	CELL PHONE LOCKER
2	X-RAY MACHINE AND ACCESSORY TABLE
3	MAGNETOMETER
4	ACCESSIBLE TURNSTILE
5	TURNSTILE
6	WIRE MANAGER WITH HINGED LID AND BRUSH LINER
7	RIFLE STORAGE, NIC
8	RECESSED EPOXY TERRAZZO WALL BASE, REFER TO SECTION DETAIL 4/A5.2.2
9	WOOD CHAIR RAIL, REFER TO 2/A3.0.4
10	SECURITY WINDOW. REFER TO A3.1.2
11	SOLID STEEL UNDERCOUNTER METAL SUPPPORT
12	FINISHED END PANEL SUPPORT
13	PROVIDE KEY LOCKS
14	SOLID SURFACE COUNTERTOP AND SIDE SPLASH
15	RESILIENT WALL BASE
16	4" X 4" X 1/4" STEEL TUBE POST REFER TO STRUCTURAL AND DETAIL ON THIS SHEET
17	BOLD DASHED LINE INDICATES 1/2" LIGHTWEIGHT BALLISTIC ARMOR

AD-01R



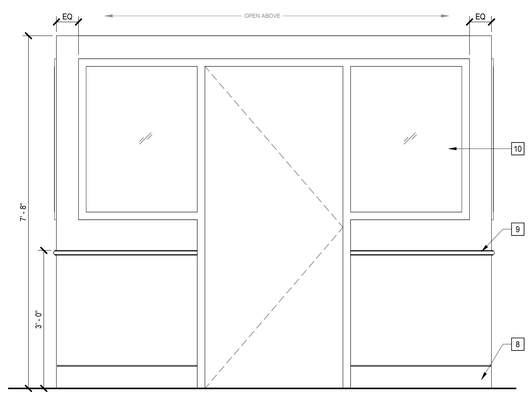
7 A8.1.1 A8.2.1 **SECTION - SECURITY DESK INTERIOR EAST**

3/4" = 1'-0"



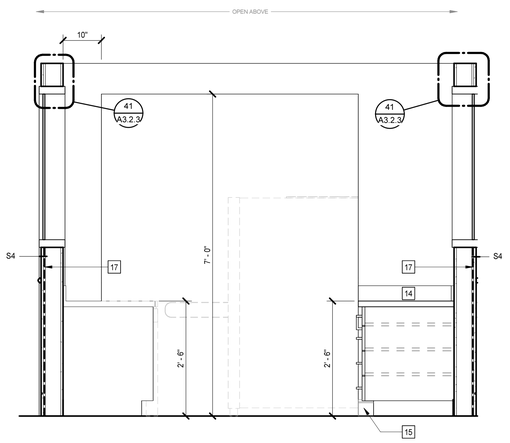
4 A3.0.1 A8.2.1 **ELEVATION - SECURITY DESK SOUTH**

3/4" = 1'-0"



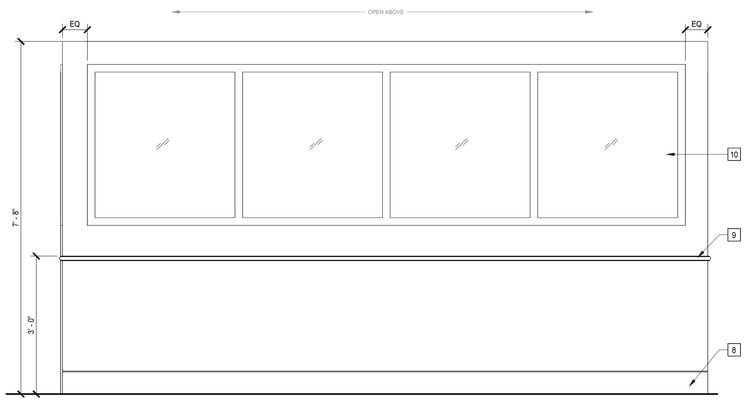
3 A3.0.1 A8.2.1 **ELEVATION - SECURITY DESK EAST**

3/4" = 1'-0"



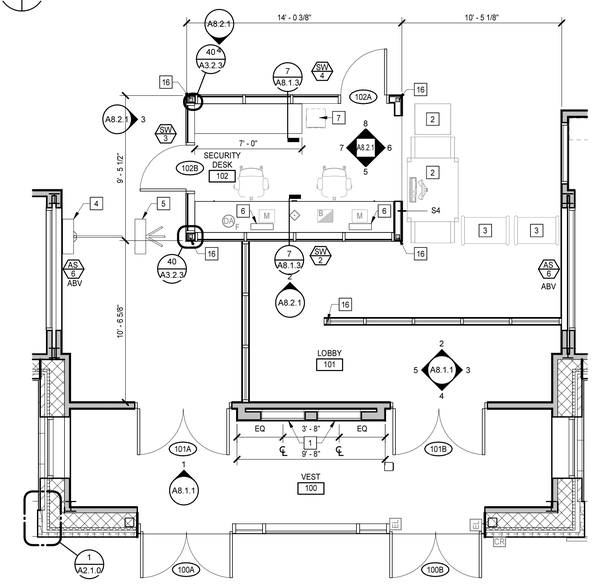
6 A8.1.1 A8.2.1 **SECTION - SECURITY DESK INTERIOR EAST**

3/4" = 1'-0"



2 A3.0.1 A8.2.1 **ELEVATION - SECURITY DESK NORTH**

3/4" = 1'-0"



1 A2.1.0 A8.2.1 **ENLARGED PLAN - SECURITY DESK**

1/4" = 1'-0"

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2040 WEST BEVERLEY STREET
CITY OF STAUNTON, VA 24401

PROJECT NO: 830874
DATE: MARCH 1, 2024

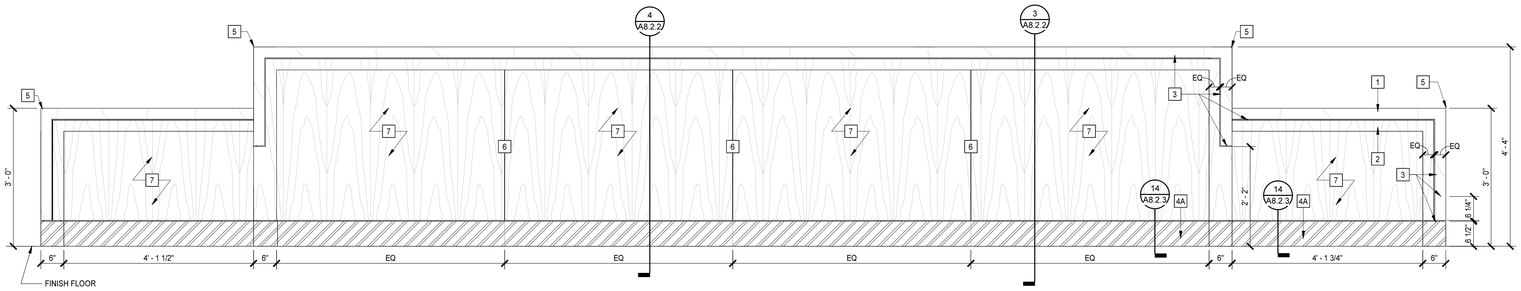
REVISIONS

DATE	DESCRIPTION
03/14/24	AD-01R

SECURITY DESK
SECTIONS AND DETAILS

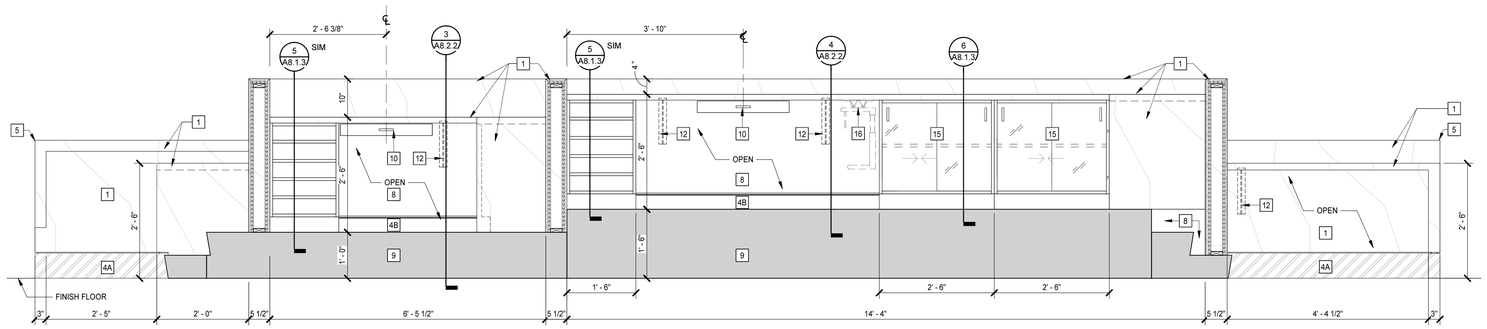
A8.2.1

3/14/2024 11:54:29 AM



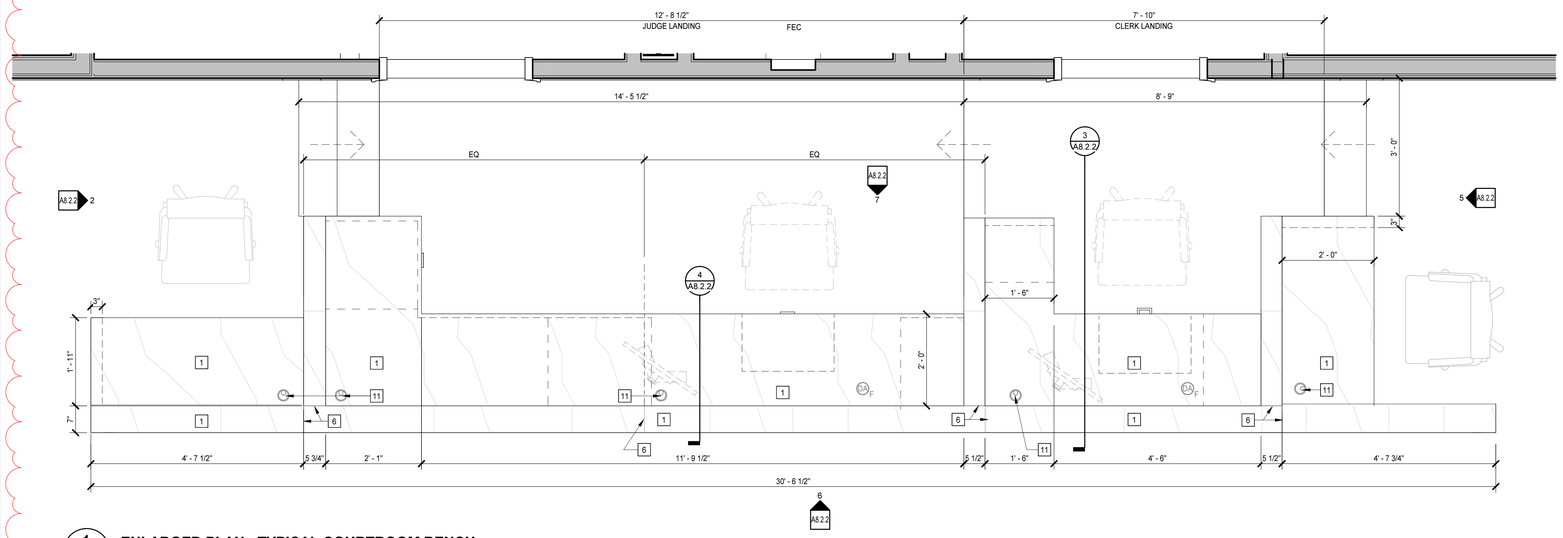
6 A8.2.2 A8.2.2 ELEVATION - TYPICAL COURTROOM BENCH FRONT

3/4" = 1'-0"



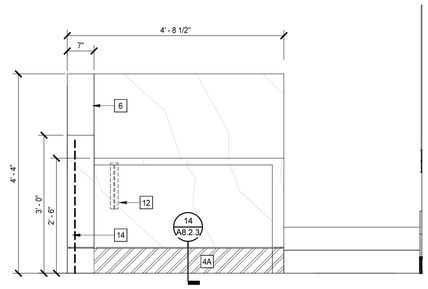
7 A8.2.2 A8.2.2 ELEVATION - TYPICAL COURTROOM BENCH BACK

3/4" = 1'-0"



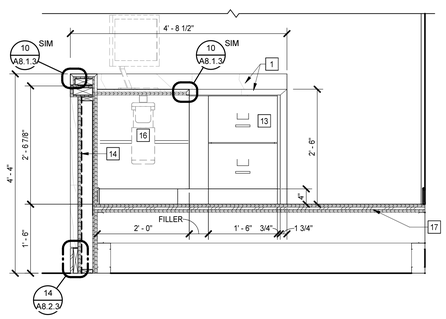
1 A7.2.1 A8.2.2 ENLARGED PLAN - TYPICAL COURTROOM BENCH

3/4" = 1'-0"



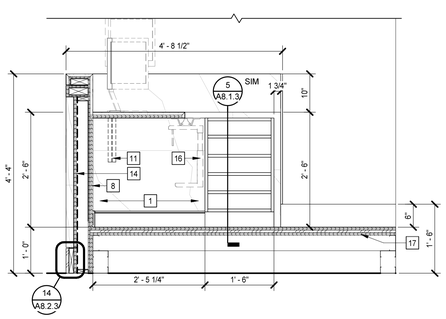
5 A8.2.2 A8.2.2 ELEVATION - TYPICAL COURT REPORTER - EAST

3/4" = 1'-0"



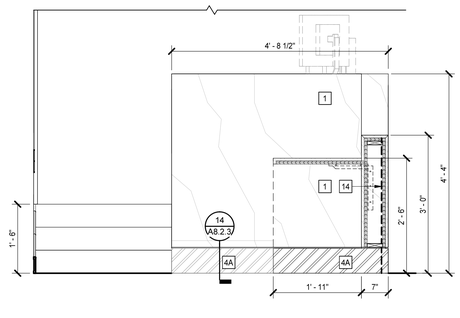
4 A8.2.2 A8.2.2 SECTION - JUDGE'S LANDING

3/4" = 1'-0"



3 A8.2.2 A8.2.2 SECTION - CLERK LANDING

3/4" = 1'-0"



2 A8.2.2 A8.2.2 ELEVATION - TYPICAL WITNESS - WEST

3/4" = 1'-0"

CASEWORK GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
- 2'-10" AFF MAX OR 2'-10" MAX TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
- 2'-1" DEEP
- BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK
- EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS
- COUNTERTOPS INDICATED WITH SURFACE GROMMETS TO HAVE UNDERMOUNT WIRE MANAGEMENT TROUGHS.
- FINISH **[SOLID SURFACE]**

B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
- 2'-0" DEEP NOMINAL
- TOE KICKS: 4" NOMINAL HIGH (REDUCE AS NEEDED FOR TOLERANCES) AND 3" DEEP
- SINK LOCATIONS: FOR BARRIER FREE ACCESS, MINIMUM 3'-0" WIDE CLEAR KNEE SPACE REQUIRED INCLUDING INTERIOR WIDTH OF BASE CABINET WITH ATTACHED TOE KICK, IF SHOWN.
- ALL CABINET DRAWERS FABRICATED WITH SOFT-CLOSE FULL EXTENTION GLIDES.
- FINISH **[PLAM]**

A. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.

B. ALL SHELVES: ADJUSTABLE WITH METAL PINS UNLESS INDICATED OTHERWISE.

C. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.

D. LOCKS WHERE NOTED; IF ANY.

CASEWORK KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A8.2.2

1	SOLID SURFACE MATERIAL
2	VENEER PLYWOOD WITH TRANSPARENT FINISH
3	1/4" REVEAL
4A	METAL FLUSH BASE WITH REVEAL
4B	WOOD BASE REFER TO 8/A3.0.3
5	MITERED AND EASED EDGE
6	SEAM LINE
7	VERTICAL BOOK MATCH WOOD VENEER PANEL WITH TRANSPARENT FINISH
8	<varies>
9	3/4" UNDERLAYMENT ON 5/8" SOUND DEADENING BOARD ON 3/4" PLYWOOD SUBFLOOR ON CFSF-S
10	PENCIL DRAWER
11	<varies>
12	CONCEALED, IN-WALL STUD MOUNTED UNDER COUNTER STEEL SUPPORT BRACKET.
13	LOCKING FILING CABINET
14	BOLD DASHED LINE INDICATES 1/2" LIGHTWEIGHT BALLISTIC ARMOR
15	BASE CABINETS WITH TEMPERED SLIDING GLASS DOORS WITH ROUTED/ETCHED FINGER PULLS
16	CPU HOLDER. NIC
17	3/4" UNDERLAYMENT ON 5/8" SOUND DEADENING BOARD ON 3/4" PLYWD SUBFLOOR, ON CFSF-S

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STAUNTON J&DR COURTS FACILITY

2040 WEST BEVERLEY STREET
CITY OF STAUNTON, VA 24401

AD-01R

PROJECT NO: 830874
DATE: MARCH 1, 2024

REVISIONS

DATE	DESCRIPTION
03/14/24	AD-01R

COURTROOM BENCH PLAN, SECTION & DETAILS

A8.2.2

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REFLECTED CEILING PLAN LEGEND

APPLIES TO DRAWINGS A9.1 - A9.2

REFER TO M, E & FP DRAWINGS FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

- A101 / nn'-nn" — SPACE NUMBER / CEILING HEIGHT, AFF UNO
- INTERIOR APPLICATIONS: GYPSUM BOARD CEILING
- EXTERIOR APPLICATIONS: GYPSUM SOFFIT BOARD OR GYPSUM SHEATHING
- 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- 2'-0" x 2'-0" SECURITY GRID SECURITY CEILING SYSTEM
- 1'-6" WIDE SECURITY PLANK SECURITY CEILING SYSTEM
- ACOUSTIC BAFFLES, SEMI-OPEN ON GRID SYSTEM [ACP-B] [ACP-C]
- AP — ACCESS PANEL
- WITH OPENING — EXTERIOR WALL
- WITH OPENING — INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK
- WITH OPENING — INTERIOR WALL/PARTITION TO CAP ABOVE OR TERMINATES ADJACENT TO A RATED HORIZONTAL ASSEMBLY
- WITH OPENING — INTERIOR WALL/PARTITION 4" MIN ABOVE HIGHEST ADJACENT CEILING. IF NECESSARY TO ACHIEVE RESULTS DESIRED, EXTEND WALL HEIGHT SO WALL BRACING IS NOT EXPOSED TO VIEW IN FINISHED SPACES
- INTERIOR WALL/PARTITION TO UNDERSIDE OF CEILING
- EXISTING TO REMAIN. VERIFY VERTICAL EXTENTS WHERE THE HEIGHT IMPACTS THE WORK

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

A. ALL CEILING HEIGHTS SHALL BE 10'-0" AFF UNLESS INDICATED OTHERWISE.

B. DRAWINGS INDICATE GRID LAYOUT DIAGRAMMATICALLY. REFER TO SPECIFICATIONS FOR SPECIFIC GRID LAYOUT CRITERIA AT PERIMETER CONDITIONS THAT MAY DIFFER FROM GRID LAYOUT INDICATED ON DRAWINGS.

C. CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.

D. IF ADDITIONAL SPRINKLER HEADS ARE REQUIRED TO SATISFY CODE OR COVERAGE DENSITIES (OTHER THAN THOSE THAT MAY BE INDICATED), PROVIDE ADDITIONAL SPRINKLER HEADS AT NO ADDITIONAL COST AND OBTAIN APPROVAL OF ARCHITECT FOR LOCATION OF SUCH HEADS, IF ANY.

REFLECTED CEILING PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A9.1 - A9.2

1	CFSF-S
2	5/8" GYP BD, TERMINATE 4" ABV FIN CLG
3	FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
4	GYP BD: EXTEND FULL HEIGHT, UNLESS INDICATED OTHERWISE
5	ACOUSTIC LINEAR PLANK CEILING ON TYPICAL GRID SYSTEM, 24x48
6	ACOUSTIC ANGLED LINEAR BAFFLE MOUNTED TO OPEN GRID SYSTEM. BAFFLES ARE WIDELY SPACED, OPEN AND EXPOSED TO ACP ABOVE
7	BLACK ACP AND GRID BEYOND OPEN ACOUSTIC ANGLED BAFFLE SYSTEM
8	PAINTED GYPSUM SOFFIT/BULKHEAD
9	PAINTED GYPSUM DROP CEILING
10	BULKHEAD; REFER TO BULKHEAD DETAILS A9.1

SECOND FLOOR
1/8" = 1'-0"

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03/14/24	AD-01R

SECOND FLOOR REFLECTED CEILING PLAN

A9.2

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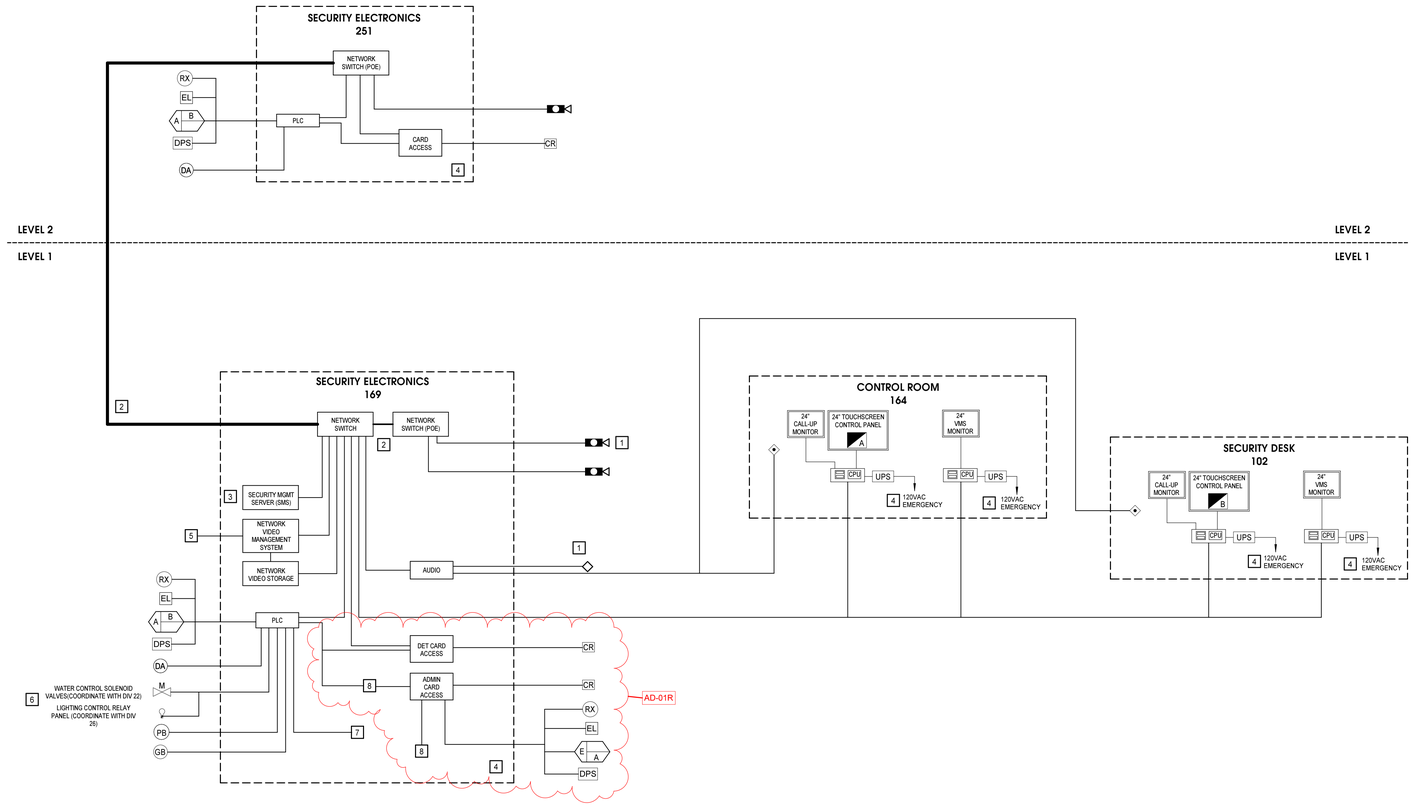

SECURITY TYPICAL ONE-LINE DIAGRAM

KEYNOTES

APPLIES TO SINGLE LINE DIAGRAM
REPRESENTED BY (n)

1. EXTERIOR POLE MOUNTED CAMERAS/INTERCOM SHALL USE FIBER OPTIC CABLE FOR VIDEO, AUDIO, AND DATA TRANSMISSION.
2. ALL FIBER OPTIC CABLING FOR SECURITY NETWORK, CATEGORY 6 CABLING FOR CAMERAS, AND SECURITY SERVERS/WORKSTATIONS SHALL BE INSTALLED, TERMINATED, AND TESTED PRIOR TO USE. PROVIDE FIBER BACKBONE FOR NETWORK INFRASTRUCTURE BETWEEN BUILDINGS.
3. PROVIDE SMS SERVER IN SECURITY ELECTRONICS ROOM 0016. CONNECT TO KVM IN RACK FOR CCTV SERVERS.
4. ALL POWER TO SECURITY HEADEND EQUIPMENT AND ASSOCIATED FIELD COMPONENTS SHALL BE CONNECTED TO EMERGENCY / GENERATOR POWER (THROUGH AN SCSC PROVIDED UPS).
5. PROVIDE A SECOND NETWORK CARD ON ALL CCTV SERVERS AND SMS/ACS SERVER FOR USE BY THE COUNTY.
6. PROVIDE CAPABILITY TO CUT OFF WATER AND LIGHTING VIA TOUCHSCREEN.
7. PROVIDE AN ALARM DIALER TO SEND ALL SECURITY ALARMS TO 911 FOR AFTER HOURS WHEN TOUCHSCREENS ARE NOT LOGGED IN.
8. INTEGRATE WITH OWNERS EXISTING CITY-WIDE ISONAS SYSTEM. INTEGRATE WITH DETENTION SYSTEM FOR ANNOUNCATION OF ADMIN DOOR ALARMS.

AD-01R

ONE-LINE DIAGRAM GENERAL NOTES

A. SECURITY CONTROL SYSTEM CABLING AND WIRING INDICATED IS DIAGRAMMATIC ONLY. IT IS INTENDED TO SHOW PROPOSED LOCATIONS OF MAJOR COMPONENTS OF THE SECURITY CONTROL SYSTEM AND THEIR INTERCONNECTION.

B. NO CONDUIT SIZES OR QUANTITIES NOR CONDUCTOR TYPES OR QUANTITIES ARE INDICATED. THE SECURITY CONTROL SYSTEM CONTRACTOR'S (SCSC) INDIVIDUAL CONTROL SOLUTION WILL DETERMINE THE EXACT CONDUIT AND CONDUCTOR REQUIREMENTS. REFER TO DRAWINGS FOR QUANTITIES AND LOCATIONS OF INDIVIDUAL SECURITY CONTROL SYSTEM EQUIPMENT AND DEVICES. REFER TO DIVISION 26 ELECTRICAL FOR POWER.

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03/08/2024	AD-01

SECURITY ELECTRONICS ONE LINE DIAGRAMS

SE4.0

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STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	HSS	HOLLOW STRUCTURAL SECTION
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	HT	HEIGHT
AFF	ABOVE FINISHED FLOOR	ID	INSIDE DIAMETER
ALUM	ALUMINUM	IN	INCH
APPROX	APPROXIMATE	INFO	INFORMATION
ARCH	ARCHITECTURAL, ARCHITECT	INT	INTERIOR
AVG	AVERAGE	JBE	JOIST BEARING ELEVATION
BLDG	BUILDING	JS	JOIST SUBSTITUTE
BM	BEAM	JST	JOIST
BMC	BUILDING MOUNTED CANOPIES	JT	JOINT
BOT	BOTTOM	K	KIP
BRG	BEARING	LBS	POUNDS
BTWN	BETWEEN	LF	LINEAR FEET (FOOT)
CANT	CANTILEVER	LLH	LONG LEG HORIZONTAL
CFSF	COLD FORMED STEEL FRAMING	LLV	LONG LEG VERTICAL
CIP	CAST IN PLACE	M	METER(S)
CJ	CONTROL JOINT	MAS	MASONRY
CLG	CEILING	MATL	MATERIAL
CLR	CLEAR	MAX	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MBMA	METAL BUILDING MANUFACTURER'S ASSOC
COL	COLUMN	MBS	METAL BULIDNG SYSTEM
CONC	CONCRETE	MECH	MECHANICAL
CONN	CONNECTION	MFR	MANUFACTURER
CONSTR	CONSTRUCTION	MIN	MINIMUM
CONT	CONTINUOUS	MM	MILLIMETER(S)
CTR	CENTER	NOM	NOMINAL
DBA	DEFORMED BAR ANCHOR	NS	NON SHRINK
DBL	DOUBLE	OC	ON CENTER
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DIAG	DIAGONAL	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
DIM	DIMENSION	OPNG	OPENING
DN	DOWN	OPP	OPPOSITE
DWG	DRAWING	PAF	POWDER-ACTUATED FASTENERS
EA	EACH	PC CONC	PRECAST CONCRETE
EF	EACH FACE	PFBC	PRE-FABRICATED BUILDING COLUMN
EJ	EXPANSION JOINT	PLF	POUNDS PER LINEAR FOOT
EL	ELEVATION	POLY	POLYETHYLENE
ELECT	ELECTRICAL	PPT	PRESSURE PRESERVATIVE TREATED
ELEV	ELEVATOR	PSF	POUNDS PER SQUARE FOOT
EOD	EDGE OF DECK	PTFE	POLYTETRAFLUOROETHYLENE
EOS	EDGE OF SLAB	R	RADIUS
EQ	EQUAL	RD	ROOF DRAIN
EW	EACH WAY	REF	REFERENCE
EX	EXISTING	REINF	REINFORCING, REINFORCED
EXP	EXPANSION	REQ'D	REQUIRED
EXT	EXTERIOR	SIM	SIMILAR
FB	FIXED BASE	SL	SLOPE
FD	FLOOR DRAIN	SOG	SLAB ON GRADE
FDN	FOUNDATION	SPA	SPACES
FF	FINISHED FLOOR	SS	STAINLESS STEEL
FIN	FINISHED	STD	STANDARD
FLR	FLOOR	STIFF	STIFFENER
FOB	FACE OF BRICK	STRUCT	STRUCTURAL
FOC	FACE OF CONCRETE	SUSP	SUSPENDED
FOM	FACE OF MASONRY	SYM	SYMMETRY(RICAL)
FRMG	FRAMING	T&B	TOP AND BOTTOM
FRT	FIRE RETARDANT TREATED	T&G	TONGUE AND GROOVE
FT	FOOT	TF	TRANSFER FORCE
FTG	FOOTING	TOC	TOP OF CONCRETE
GA	GAGE	TOS	TOP OF STEEL
GALV	GALVANIZED	TOSL	TOP OF SLAB
GB	GRADE BEAM	TOW	TOP OF WALL
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GRD	GRADE	UNO	UNLESS NOTED OTHERWISE
HD	HEADED	VB	VAPOR BARRIER
HK	HOOK	VERT	VERTICAL
HORIZ	HORIZONTAL	VR	VAPOR RETARDER
HS	HIGH STRENGTH	WP	WORK POINT
		WWF	WELDED WIRE FABRIC

PLAN LEGEND

℄	CENTERLINE
JBE (+X'-X")	JOIST BEARING ELEVATION
BP1, BP2 ...	BEAM BEARING PLATE
BP-A, BP-B ...	COLUMN BASE PLATE
H1, H2 ...	WOOD HEADER
J1, J2 ...	WOOD JOIST
T-1, T-2 ...	TRUSS
WP1, WP2 ...	WOOD POST
P-1, P-2 ...	CONCRETE PIER
JS	JOIST SUBSTITUTE
KCS	CONSTANT SHEAR JOIST
SP	SPECIAL JOIST
	WALL FOOTING STEP
-X'-X"	TOP OF FOOTING ELEVATION
WP	WORK POINT
(X'-X")	TOP OF SLAB ELEVATION
L1, L2 ...	LINTEL
X.X	COLUMN FOOTING
(+X'-X")	TOP OF STEEL BEAM ELEVATION
(J)	INDICATES TOP OF STRUCTURAL MEMBER SHALL BE IN SAME PLANE AS TOP OF JOIST
(SL)	INDICATES TOP OF STRUCTURAL MEMBER SHALL BE SLOPED
WFX.X	WALL FOOTING
	THICKENED SLAB
★	STEEL JOIST BOTTOM CHORD EXTENSION, WELDED
	STEEL BEAM MOMENT CONNECTION
(EX)	EXISTING
TF	TRANSFER FORCE
#5@48"	CMU WALL REINFORCING SIZE AND SPACING
	CHANGE IN SLAB ELEVATION
TCX	TOP CHORD EXTENSION

DESIGN LOAD DATA

1. CLASSIFICATION OF BUILDING
   RISK CATEGORY (IBC TABLE 1604.5) — III

2. FLOOR LIVE LOADS — UNIFORM / CONCENTRATED

OFFICES	50 PSF	2000 LB
PARTITION ALLOWANCE	15 PSF	WHERE UNIFORM LIVE LOAD IS LESS THAN 80 PSF
LOBBIES, COURTROOMS, STAIRS AND CORRIDORS	100 PSF	2000 LB
LIGHT STORAGE	125 PSF	
MECHANICAL ROOMS	150 PSF	
CELLS	40 PSF	
HANDRAILS AND GUARDS	50 PLF	200 LB

   LOADS ARE NOT CONCURRENT AND ARE TO BE APPLIED IN ANY DIRECTION

   CONCENTRATED LOAD APPLIED OVER 2'-6" x 2'-6" AREA.

   REDUCTION OF FLOOR LIVE LOAD HAS NOT BEEN UTILIZED.

3. ROOF LIVE LOADS

MINIMUM ROOF LIVE LOAD	20 PSF	300 LB

   CONCENTRATED LOAD APPLIED OVER 2'-6" x 2'-6" AREA.

   REDUCTION OF MINIMUM ROOF LIVE LOAD HAS NOT BEEN UTILIZED.

4. SUPERIMPOSED DEAD LOADS

ROOF	28 PSF
ALL FRAMED FLOORS, U.N.O.	13 PSF
PHOTOVOLTAIC PANEL SYSTEMS	5 PSF (AD-01R)

5. ROOF SNOW LOAD

GROUND SNOW LOAD (Pg)	43 PSF
IMPORTANCE FACTOR (Is)	1.1
EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	1.0
FLAT ROOF SNOW LOAD (Pf = 0.7 x Ce x Ct x Is x Pg)	33 PSF
MINIMUM Pf FOR Pg > 20 PSF	
Pf min = 20 x I	22 PSF
SNOW DRIFTING LOADS	PER ASCE 7

6. WIND DESIGN DATA

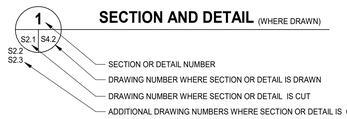
DESIGN WIND SPEED	120 MPH
EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT (GCpi)	±0.18 (ENCLOSED)
COMPONENTS AND CLADDING WIND PRESSURE	REFER TO TABLE BELOW (PER IBC & ASCE7)

7. SEISMIC DESIGN DATA

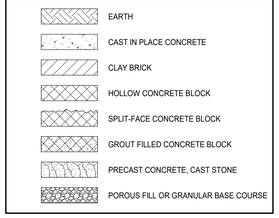
SEISMIC DESIGN CATEGORY	B
SEISMIC IMPORTANCE FACTOR (Ie)	1.25
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
(Ss)	0.15
(S1)	0.06
DESIGN SPECTRAL RESPONSE ACCELERATIONS	
(Sds)	0.16
(Sd1)	0.09
BASIC SEISMIC FORCE RESISTING SYSTEM:	B. BUILDING FRAME SYSTEM INTERMEDIATE REINFORCED MASONRY SHEAR WALLS

ALL STEEL SYSTEMS ARE:	H. SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
RESPONSE MODIFICATION COEFFICIENT (R)	3.0
SYSTEM OVERSTRENGTH FACTOR	2.5
DEFLECTION AMPLIFICATION FACTOR	3.0
SEISMIC RESPONSE COEFFICIENT (Cs)	0.07
DESIGN BASE SHEAR (V = Cs x W)	0.07W
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

LEGEND FOR SECTION AND DETAIL MARKS



STRUCTURAL MATERIALS LEGEND



GENERAL

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC), 2018 EDITION.
1. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF THE OTHER ENGINEERING DISCIPLINES.
2. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUANTITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
3. VERIFY AND COORDINATE MECHANICAL UNIT SUPPORTS AND OPENINGS WITH EQUIPMENT PURCHASED FOR THE PROJECT. COORDINATE REQUIREMENTS FOR SLEEVES, HANGERS, INSERTS, ANCHORS AND ALL OTHER ITEMS TO BE SET IN STRUCTURAL WORK.
4. SPECIAL INSPECTIONS ARE REQUIRED BY THE USBC (SECTION 1704).
   REFER TO THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THIS PROJECT AND THE PROJECT SPECIFICATIONS FOR SPECIFIC INSPECTION REQUIREMENTS.
   REFER TO SPECIFICATION SECTION 014000 FOR GENERAL INSPECTION REQUIREMENTS. SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS IN COMPLIANCE WITH IBC SECTION 1704.2.4. USE OF "GENERAL CONFORMANCE" OR "GENERAL ACCORDANCE" IS UNACCEPTABLE.
6. CONTRACTOR SHALL CONDUCT PRE-INSTALL MEETINGS ON PROJECT SITE PRIOR TO COMMENCEMENT OF WORK. REFER TO PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. GENERAL CONTRACTOR WILL CONDUCT THE MEETING AND SHALL BE RESPONSIBLE FOR THE ATTENDANCE OF ALL REQUIRED TRADES AND SUBCONTRACTORS INCLUDING THE SPECIAL INSPECTOR.

FOUNDATIONS

1. FOUNDATIONS ARE DESIGNED TO BEAR ON ORIGINAL UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL WITH AN ALLOWABLE BEARING CAPACITY OF 2,000 PSF, IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY TIMMONS DATED 12-07-23. REFER TO THIS REPORT FOR UNDER CUT OF SOILS BELOW BUILDING PAD AND FOR REPLACEMENT WITH IMPORTED GRANULAR FILL MATERIALS.
2. THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY SHALL VERIFY BEARING CAPACITY AND SUITABILITY OF SUBGRADE PRIOR TO PLACING FOUNDATIONS AND GRADE SLABS.
3. SELECT AND PLACE CONTROLLED COMPACTED FILL UNDER DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY.
4. FOOTING STEPS FOR UNDERSLAB UTILITIES INDICATED ON FOUNDATION PLANS SHALL BE CONSIDERED APPROXIMATE. COORDINATE FOOTINGS WITH ACTUAL LOCATION, SIZE AND INVERT OF ALL UNDERGROUND PIPE (AND CONDUIT). REFER TO "FOOTING STEP" DETAIL TO STEP WALL FOOTING DOWN TO ALLOW UNDERSLAB PIPING TO PASS ABOVE THE FOOTING. ALTERNATELY, REFER TO "FOOTING SLEEVE" AND "PIPE TRENCH BACKFILL AT FOOTING" DETAILS TO ALLOW UNDERSLAB PIPING TO PASS BELOW THE TOP OF THE WALL FOOTING.
5. AVOID INFLUENCE OF PIPE TRENCH PARALLEL TO WALL FOOTING AND / OR ADJACENT TO COLUMN FOOTING. REFER TO "FOOTING EXCAVATION LIMITS".
6. PROTECT FOOTINGS AND GRADE SLABS FROM FROST HEAVE UNTIL BUILDING IS PERMANENTLY ENCLOSED.
7. BRACE WALLS PLUMB WHICH ARE SUBJECTED TO UNBALANCED BACKFILL UNTIL PERMANENTLY STABILIZED BY STRUCTURE.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".
2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN ULTIMATE 28 DAY COMPRESSIVE STRENGTHS (F'c), AS FOLLOWS:

CONCRETE MATERIAL SCHEDULE (NOTE 11)

BUILDING ELEMENT	DURABILITY REQUIREMENTS CATEGORIES AND CLASSES (NOTE 3) (F)	(S)	(W)	(C)	f'c (psi) 28 DAY STRENGTH	MAX W/C (NOTE 4)	AIR ENTRAINMENT (NOTE 5)	UNIT WEIGHT PCF (NOTE 6)	MAX AGGREGATE (NOTE 7 & 9)	CEMENT (ASTM C150)	CL % (NOTE 10)
SPREAD FOOTINGS AND WALL FOOTINGS	F0	S0	W0	C1	3,500	0.55	4.5	145	1 1/2"	II	0.30
INTERIOR SLABS ON GRADE	F0	S0	W0	C0	3,500	0.50	N/A	145	3/4"	I / II	0.30
INTERIOR COLUMNS, WALLS AND PIERS	F1	S0	W0	C1	4,000	0.50	5.0	145	3/4"	I / II	0.30
EXTERIOR SLABS ON GRADE	F1	S0	W1	C1	3,500	0.55	5.0	145	3/4"	I / II	0.30
EXTERIOR COLUMNS, WALLS AND PIERS	F1	S0	W1	C1	4,000	0.50	6.0	145	3/4"	I / II	0.30
INTERIOR SLABS ON METAL DECK	F0	S0	W0	C0	3,500	0.55	NOTE 8	115	3/4"	I / II	1.0
INTERIOR SLABS ON METAL DECK (NORMAL WT. CONC)	F0	S0	W0	C0	3,500	0.55	NOTE 8	145	3/4"	I / II	1.0
ELEVATED SLABS AND BEAMS	F0	S0	W0	C0	4,000	0.50	NOTE 8	145	3/4"	I / II	1.0
GRADE BEAMS	F1	S0	W0	C1	4,000	0.50	N/A	145	3/4"	I / II	0.30

3. THE DURABILITY EXPOSURE CLASS IDENTIFIED BY THE ENGINEER OF RECORD, IN ACCORDANCE WITH ACI 318, FOR EACH MIX DESIGN/BUILDING ELEMENT AND EXPOSURE CLASS, IS BASED ON ASSUMED SEVERITY OF THE ANTICIPATED EXPOSURE. IF THE CONCRETE IS TO BE INSTALLED IN A LOCATION OR CONDITION THAT IS MORE SEVERE THAN THE EXPOSURE IDENTIFIED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR ADJUST THE CONCRETE MIX REQUIREMENTS AS REQUIRED PER ACI 318.

   A. EXPOSURE CATEGORIES:
   - (F) FREEZE/THAW
   - (S) SULFATE
   - (W) WATER/PERMEABILITY
   - (C) CORROSION PROTECTION

4. MAX W/C REFERS TO MAXIMUM WATER TO CEMENTITIOUS MATERIALS RATIO. MIXING WATER SHALL CONFORM TO ASTM C1602.
5. TARGET AIR ENTRAINMENT, ±1.5%. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED. AIR ENTRAINMENT IS OPTIONAL FOR FOOTINGS AND GRADE BEAMS NOT EXPOSED TO FREEZING.
6. AGGREGATES TO CONFORM TO ASTM C33 FOR NORMAL WEIGHT CONCRETE.
7. CONCRETE BUILDING ELEMENTS IDENTIFIED WITH EXPOSURE CATEGORY F3 REQUIRE LIMITATIONS ON CEMENTITIOUS MATERIALS AS FOLLOWS:

CEMENTITIOUS MATERIAL	MAX % OF TOTAL CEMENTITIOUS MATERIALS BY MASS
FLY ASH (ASTM C618)	25
SLAG CEMENT (ASTM C989)	50
SILICA FUME (ASTM C1240)	10
TOTAL FLY ASH, OTHER POZZOLANS AND SILICA FUME	35
TOTAL FLY ASH, OTHER POZZOLANS, SILICA FUME AND SLAG	50

8. SLABS NOT RECEIVING A HARD TROWEL FINISH MAY BE AIR-ENTRAINED. SLABS RECEIVING A HARD TROWEL FINISH SHALL NOT BE AIR-ENTRAINED AND SHALL HAVE A TOTAL AIR CONTENT OF NOT MORE THAN 3%.
9. COMBINED AGGREGATE GRADING SHALL BE AS FOLLOWS:
   - FOR COARSE AGGREGATE WITH 1 1/2" NOMINAL MAXIMUM AGGREGATE SIZE, 8% TO 18% (BY WEIGHT) OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.
   - FOR COARSE AGGREGATE WITH 3/4" OR 1" NOMINAL MAXIMUM AGGREGATE SIZE, 8% TO 22% (BY WEIGHT) OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.
10. MAX WATER SOLUBLE CHLORIDE ION CONTENT PERCENTAGE, BY WEIGHT OF CEMENT.
11. CONCRETE MIXTURE PROPORTIONS SHALL BE ESTABLISHED IN ACCORDANCE WITH ARTICLE 4.2.3 OF ACI 301 OR BY AN ALTERNATIVE METHOD ACCEPTABLE TO THE ENGINEER OF RECORD. EACH MIX DESIGN SHALL IDENTIFY THE INTENDED LOCATION OF USE.
12. REINFORCING STEEL SHALL BE AS FOLLOWS:
   - REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED
   - WELDED WIRE FABRIC: ASTM A1064, SHEET TYPE ONLY
   - WELDABLE REINFORCING BARS: ASTM A706 LOW ALLOW STEEL REINFORCING BARS, DEFORMED
   - DEFORMED BAR ANCHORS (DBA) ASTM A1064, DEFORMED
   - WELDING PER AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL
13. MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE UNO:

A. UNFORMED SURFACE CAST AGAINST EARTH	3 IN
B. FORMED SURFACE EXPOSED TO EARTH/WEATHER	2 IN
C. FORMED SLABS AND WALLS NOT EXPOSED TO EARTH/WEATHER FOR #11 AND SMALLER BAR	3/4 IN
D. ALL OTHER FORMED ELEMENTS NOT EXPOSED TO EARTH/WEATHER	1 1/2 IN

14. REQUIRED COMPRESSIVE STRENGTH OF STRUCTURAL PRECAST CONCRETE SHALL BE DETERMINED BY THE PRECAST CONCRETE MANUFACTURER'S ENGINEER, WITH THE MINIMUM COMPRESSIVE STRENGTH AS NOTED IN THE TABLE.

ACI 318 LAP LENGTHS

SPLICES IN THE REINFORCING STEEL SHALL BE ONLY AT THE LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS. LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 CHAPTER 25 AS INDICATED BELOW. TOP BAR LAPS (HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR) SHALL BE MODIFIED BY A MULTIPLICATION OF 1.3 TIMES THE LENGTHS LISTED IN THE TABLE BELOW. LENGTHS INDICATED IN INCHES.

NORMAL-WEIGHT (145 PCF)

f'c (psi)	#3	#4	#5	#6	#7	#8	#9
3500	20	26	33	40	58	66	74
4000	18	25	31	37	54	62	69

FLOWABLE FILL

1. CONTROLLED LOW STRENGTH MATERIAL (CLSM). ALSO REFERRED TO AS FLOWABLE FILL. MAY BE SUBMITTED FOR APPROVAL AS A SUBSTITUTE FOR COMPACTED FILL AT FOUNDATION UNDERCUT LOCATIONS. THE CLSM MIXTURE SHALL BE PROPORTIONED TO PRODUCE AN UNCONFINED COMPRESSIVE STRENGTH OF 100 PSI MINIMUM TO 300 PSI MAXIMUM.

COMPOSITE BEAMS

1. COMPOSITE BEAMS AND GIRDERS DO NOT REQUIRE TEMPORARY SHORING FOR CONSTRUCTION LOADS (WET CONCRETE + 20 PSF) UNO ON THE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR LIMITING THE CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE.
2. STUDS SHALL BE 3/4" DIAMETER AND SHALL EXTEND NOT LESS THAN 1 1/2" ABOVE THE TOP OF THE STEEL DECK AND SHALL NOT HAVE LESS THAN 1/2" CONCRETE COVER ABOVE THE TOP OF STUD AFTER WELDING.
3. THE NUMBER STUDS ON A BEAM OR BETWEEN ANY TWO CONNECTIONS ALONG A BEAM IS SHOWN ON THE DRAWINGS. SPACING OF STUDS WITHIN THE LENGTH SHOWN SHALL BE AS UNIFORM AS POSSIBLE.
4. NO SHOP PAINT SHALL BE APPLIED TO ANY STUDS NOR TO TOP FLANGES OR SURFACES OF MEMBERS RECEIVING FIELD WELDED STUDS.
5. BREAK CERAMIC FERRULES (ARC SHIELDS) LOOSE AND REMOVE FROM DECK.
6. A STUD SHEAR CONNECTOR WELDED THROUGH THE METAL DECK MAY TAKE THE PLACE OF A 3/4" PLUG WELD IN ORDER TO SECURE THE DECK TO THE STEEL FRAMING. DO NOT WELD SHEAR CONNECTORS THROUGH TWO LAYERS (LAPPED ENDS) OF DECK UNITS.
7. PLACE CONCRETE MONOLITHICALLY ON STEEL FLOOR DECK. CONSTRUCTION JOINTS MAY BE PERMITTED ONLY AFTER APPROVAL OF THE ARCHITECT/STRUCTURAL ENGINEER.
8. CONCRETE THICKNESS SHALL BE OF A UNIFORM THICKNESS WHERE INDICATED ON METAL FLOOR DECK.

STEEL JOISTS

1. ALL STEEL JOIST WORK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS.
2. STEEL JOISTS SHALL BE DESIGNED USING ALLOWABLE STRENGTH DESIGN (ASD), AND SHALL BE MANUFACTURED WITH STEEL HAVING A MINIMUM YIELD STRENGTH OF 50 KSI.
3. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS, OSHA REQUIREMENTS, AND AS REQUIRED BY JOIST DESIGN.
4. ROOF JOISTS AND BRIDGING SHALL BE DESIGNED FOR A NET UPLIFT OF 20 PSF.
5. SPECIAL JOISTS, INDICATED "SP" ON FRAMING PLANS, SHALL BE DESIGNED FOR CRITERIA INDICATED.
6. DETAILING AND ERECTION OF OPEN WEB STEEL JOISTS SHALL COMPLY WITH OSHA REQUIREMENTS.
7. STEEL ROOF JOISTS SHALL BE PROVIDED WITH NO CAMBER.
8. DESIGN ALL JOISTS (K, KCS, LH) FOR A 500 LB CONCENTRATED LOAD (SERVICE LOAD) AT ANY ONE PANEL POINT ALONG THE JOIST, UNLESS NOTED OTHERWISE. THIS IS REFERRED TO AS AN "ADD-LOAD."
9. K-SERIES JOISTS SHALL BE DESIGNED FOR ADDITIONAL BENDING STRESSES RESULTING FROM A 200 POUND CONCENTRATED DEAD LOAD LOCATED AT ANY LOCATION ALONG TOP AND BOTTOM CHORD IN ADDITION TO ALL OTHER LOADS. THIS IS REFERRED TO AS A "BEND CHECK."
10. KCS AND LH SERIES JOISTS SHALL BE DESIGNED FOR ADDITIONAL BENDING STRESSES RESULTING FROM A 500 POUND CONCENTRATED DEAD LOAD LOCATED AT ANY LOCATION ALONG TOP AND BOTTOM CHORD IN ADDITION TO ALL OTHER LOADS. THIS IS REFERRED TO AS A "BEND-CHECK".
11. REFER TO "TYPICAL CONCENTRATED LOAD ON STEEL JOIST" DETAIL FOR REQUIREMENTS REGARDING PIPE HANGERS AND OTHER EQUIPMENT LOADS.

STEEL DECK

1. ALL STEEL DECK WORK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE (SDI) "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS", AND AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
2. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL".
3. PERMANENT LOADS SHALL NOT BE SUSPENDED FROM STEEL ROOF DECK UNLESS APPROVED BY ENGINEER OF RECORD.
4. STEEL DECK UP TO 2" DEEP SHALL BE INSTALLED WITH A MINIMUM OF 3 CONTINUOUS SPANS, UNLESS NOTED. STEEL DECK SHALL BE INSTALLED WITH A MINIMUM OF 2 CONTINUOUS SPANS, UNLESS NOTED OTHERWISE. ANY LOCATIONS NOT MEETING THESE CONDITIONS SHALL BE SPECIFICALLY IDENTIFIED ON THE STEEL DECK SHOP DRAWINGS.
5. REFER TO "STEEL DECK SCHEDULE" FOR DECK TYPES AND FASTENING REQUIREMENTS.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING AISC DOCUMENTS:
   AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
   AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

WIDE FLANGE SHAPES AND ANGLES	ASTM A992 (FY=50 KSI)
MISCELLANEOUS SHAPES, PLATES & BARS (TO 8" THICK)	ASTM A36 (FY=36 KSI)
HOLLOW STRUCTURAL SECTIONS (HSS)	
SQUARE & RECTANGLE	ASTM A500, GRADE C (FY=50 KSI)
ROUND	ASTM A500 GRADE C (FY=46 KSI)
HIGH STRENGTH BOLTS (CONVENTIONAL)	ASTM F3125 GRADE A325 OR A490 (TYPE 1)
WASHERS	ASTM F436 (FLAT AND BEVELED)
HEAVY HEX NUTS	ASTM A563
TWIST OFF TENSION CONTROL BOLTS	ASTM F3125 GRADE F1852 OR F2280 (TYPE 1)
COMPRESSIBLE-WASHER DIRECT-TENSION INDICATORS	ASTM F959 (TYPE 325 OR 490)
ANCHOR RODS	ASTM F1554, GRADE 55 INCLUDE SUPPLEMENT S1
WELDING ELECTRODES	E70 (LOW HYDROGEN)
HEADED SHEAR STUDS	AWS D1.1 CLAUSE 9, TYPE B (FY=51 KSI)
THREADED ROD	ASTM A36

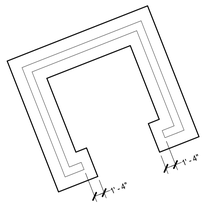
3. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, AS SIMPLE CONNECTIONS USING ALLOWABLE STRENGTH DESIGN (ASD). CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL BE DESIGNED FOR THE UNIFORM LOAD CAPACITY INDICATED IN THE ALLOWABLE UNIFORM LOAD TABLES, PART 3, OF THE AISC MANUAL. CONNECTIONS FOR COMPOSITE STEEL BEAMS SHALL BE DESIGNED FOR THE REACTIONS INDICATED ON THE PLANS.
4. UNLESS NOTED OTHERWISE, THE TOP OF ALL STEEL COLUMNS SHALL HAVE A STEEL CAP PLATE WITH A MINIMUM THICKNESS OF 1/2". CAP PLATE DIMENSIONS SHALL MATCH COLUMN WIDTH AND DEPTH MINIMUM. WHERE JOISTS BEAR ON COLUMN, COORDINATE BEARING REQUIREMENTS WITH JOIST MANUFACTURER.
5. BOLTED JOINTS SHALL BE "SNUG TIGHTENED", UNLESS OTHERWISE INDICATED.
6. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
7. WHERE STRUCTURAL STEEL IS EXPOSED BELOW GRADE, PROVIDE MINIMUM 3" CONCRETE COVER OR COAT WITH BITUMINOUS MASTIC.
8. STRUCTURAL STEEL EXPOSED TO WEATHER IN THE FINISHED WORK SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS NOTED OTHERWISE.

CONCRETE MASONRY (CMU)

1. ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES WITH COMMENTARY" AND TMS 602 "SPECIFICATIONS FOR MASONRY STRUCTURES WITH COMMENTARY".
2. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY(F'm), SHALL BE 2000 PSI, DETERMINED IN ACCORDANCE WITH THE UNIT STRENGTH METHOD PER TMS 602, UNLESS NOTED OTHERWISE.
3. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, AND SHALL BE MADE WITH LIGHTWEIGHT AGGREGATE.
4. MORTAR FOR CMU SHALL CONFORM TO ASTM C270, TYPE S, AND PROVIDE TYPE M MORTOR AT SECURITY WALLS.
5. GROUT SHALL CONFORM TO ASTM C476 AND SHALL BE PROPORTIONED TO OBTAIN MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
6. PLACE GROUT IN ACCORDANCE WITH TMS 402. ALLOW A MINIMUM OF 24 HOURS FOR MASONRY TO SET PRIOR TO PLACING GROUT. HIGH LIFT GROUTING IS PROHIBITED.
7. FILL COLLAR JOINTS OF COMPOSITE WALLS SOLID WITH MORTAR AS THE WALLS PROGRESS. BOND WYTHES OF COMPOSITE WALLS TOGETHER USING HORIZONTAL JOINT REINFORCING @ 16" ON CENTER, UNLESS NOTED OTHERWISE.
8. PROVIDE VERTICAL REINFORCING STEEL OF SIZE AND SPACING INDICATED. LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:

#4 BAR AND SMALLER	26 INCHES
#5 BAR	34 INCHES
#6 BAR	38 INCHES

9. PROVIDE POSITIONERS TO HOLD VERTICAL WALL REINFORCING STEEL IN PROPER ALIGNMENT.
10. REINFORCING STEEL SHALL COMPLY WITH ASTM A615,

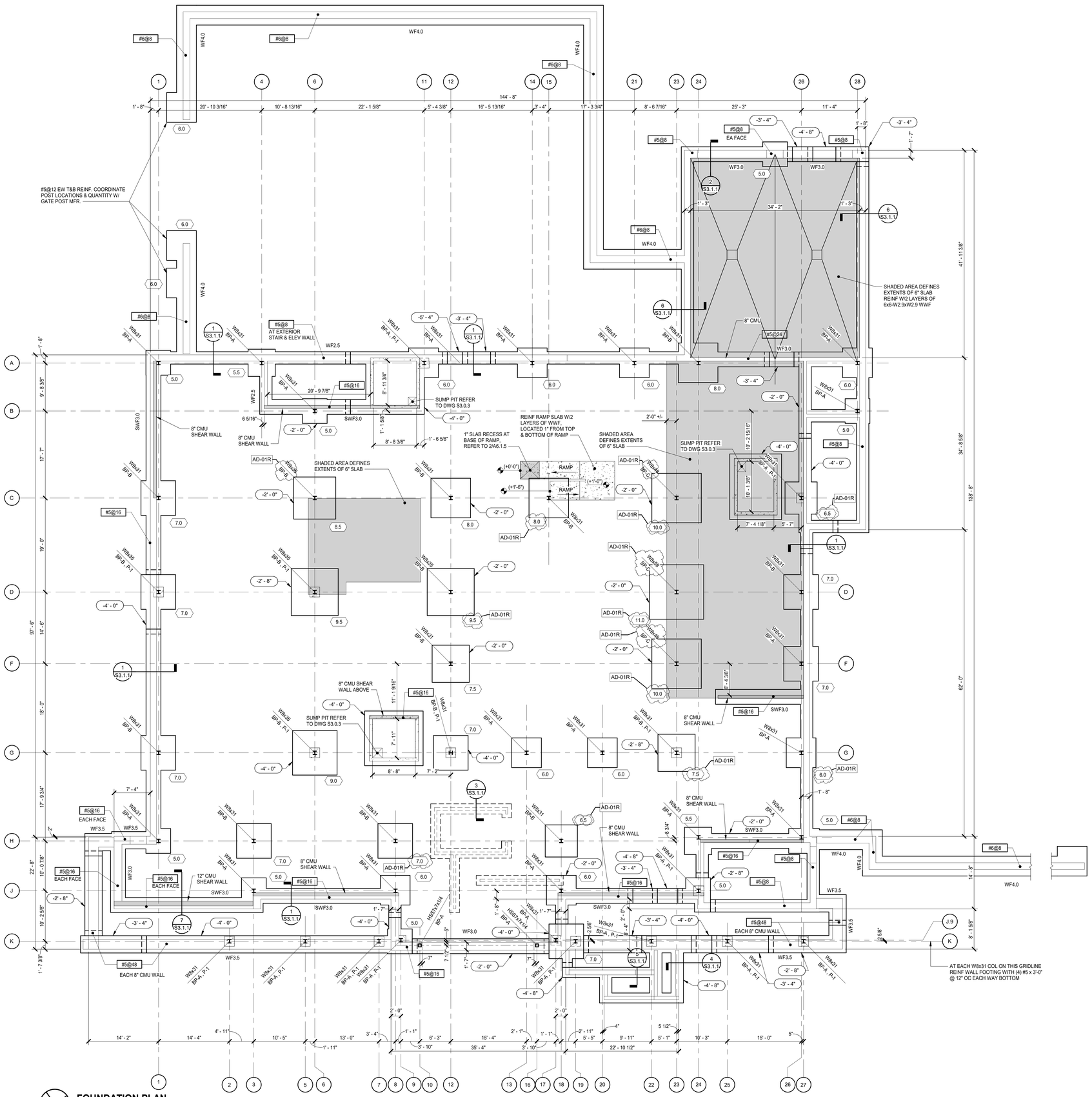


FOUNDATION PLAN - DUMPSTER ENCLOSURE

1/8" = 1'-0"

FOUNDATION PLAN NOTES - DUMPSTER ENCLOSURE:

1. REINFORCE 8" CMU WALLS WITH #5@8" OC.
2. PROVIDE WF4.0 WALL FOOTING.
3. PROVIDE BP-A AT GATE POSTS W/ (4) 5/8" DIAMETER x 8" SCREW ANCHORS.



FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FINISHED FIRST FLOOR ELEVATION = 1553.75' = REFERENCE DATUM EL (+0'-0"). ALL STRUCTURAL ELEVATIONS INDICATED ARE REFERENCED FROM THIS ELEVATION, UNO.
2. LOWER LEVEL FLOOR CONSTRUCTION SHALL BE 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH 6x6-W2.9xW2.9 WWF (AT 1" FROM TOP OF SLAB) OVER VAPOR BARRIER OVER 6" GRANULAR BASE COURSE, UNO. FLOOR CONSTRUCTION INDICATED AS 6" SLAB ON GRADE SHALL BE NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6-W2.9xW2.9 WWF (LOCATED AT 2" FROM TOP OF SLAB) OVER VAPOR BARRIER OVER 6" GRANULAR BASE COURSE.
3. REINFORCE EXTERIOR CMU WALLS, STAIR WALLS AND ELEVATOR WALLS WITH #5@24" OC, UNO.
4. BASE COURSE SHALL BE A CLEAN, DENSELY-GRADED "CRUSHER RUN" MATERIAL WITH A BALANCED FINE CONTENT, SUCH AS ***VDOT 21A OR 21B STONE.*** THE BASE COURSE SHALL BE COMPACTED AND SHALL BE FINISHED TO A FLAT, SMOOTH, LOW-FRICTION SURFACE. COMPACTION SHALL BE MONITORED BY THE ON-SITE TESTING AGENCY.
5. TOP OF ALL INTERIOR FOOTINGS SHALL BE (-0'-8"), UNO. TOP OF ALL EXTERIOR FOOTINGS SHALL BE (-2'-0"), UNO. SET BOTTOM OF ALL SITE WALL FOOTINGS A MINIMUM OF 2'-6" BELOW GRADE CONTRACTOR TO STEP FOOTINGS ACCORDINGLY. AD-01R
6. ALL INTERIOR WALL FOOTINGS SHALL BE WF2.0, UNO. ALL EXTERIOR WALL FOOTINGS SHALL BE WF2.5, UNO.
7. COORDINATE FOOTING STEPS WITH ALL UNDERSLAB UTILITIES. REFER TO FOUNDATION NOTE #4 ON DRAWING S0.0.1.
8. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
9. REFER TO DRAWINGS S3.0.1 AND S3.0.2 FOR TYPICAL FOUNDATION DETAILS AND SCHEDULES.
10. AT OPENINGS IN SITE WALLS, PROVIDE LINTEL L1 AND L FOR BRICK SHELF PER NOTE #2 IN LINTEL SCHEDULE.
11. IF STEEL SUPPORT IS REQUIRED BY THE STAIR MANUFACTURER, POST SHALL BE HSS4x4x1/4 WITH FOOTING AS INDICATED PER THE THICKENED SLAB DETAILS ON DRAWING S0.0.2.
12. WALLS INDICATED AS ▭ ARE SHEAR WALLS. SHEAR WALLS SHALL BE GROUTED SOLID (UNO) WITH CONTROL JOINTS AS INDICATED AND NO CLOSER THAN 30'-0" OC. NO REINFORCING IN THESE WALLS IS ALLOWED TO BE CUT. LOCATE ALL PIPING AND CONDUIT OUTSIDE OF REINFORCED CELLS. TWO VERTICAL REINFORCING BARS, SPACED 8" APART, SHALL BE LOCATED AT EACH END OF THE SHEAR WALL. ALL VERTICAL REINFORCEMENT IS FULL WALL HEIGHT, UNO. BELOW GRADE SHEAR WALL PENETRATIONS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SHEAR WALL LENGTH.
13. PROVIDE HSS4x4x1/4 POSTS FOR STAIR LANDING SUPPORT. AD-01R

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STAUNTON J&DR COURTS FACILITY

2040 WEST BEVERLY STREET
CITY OF STAUNTON, VA 24401

PROJECT NO:	630874
DATE:	MARCH 14, 2024

REVISIONS

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03/14/24	AD-01R

FOUNDATION PLAN

S1.1.1

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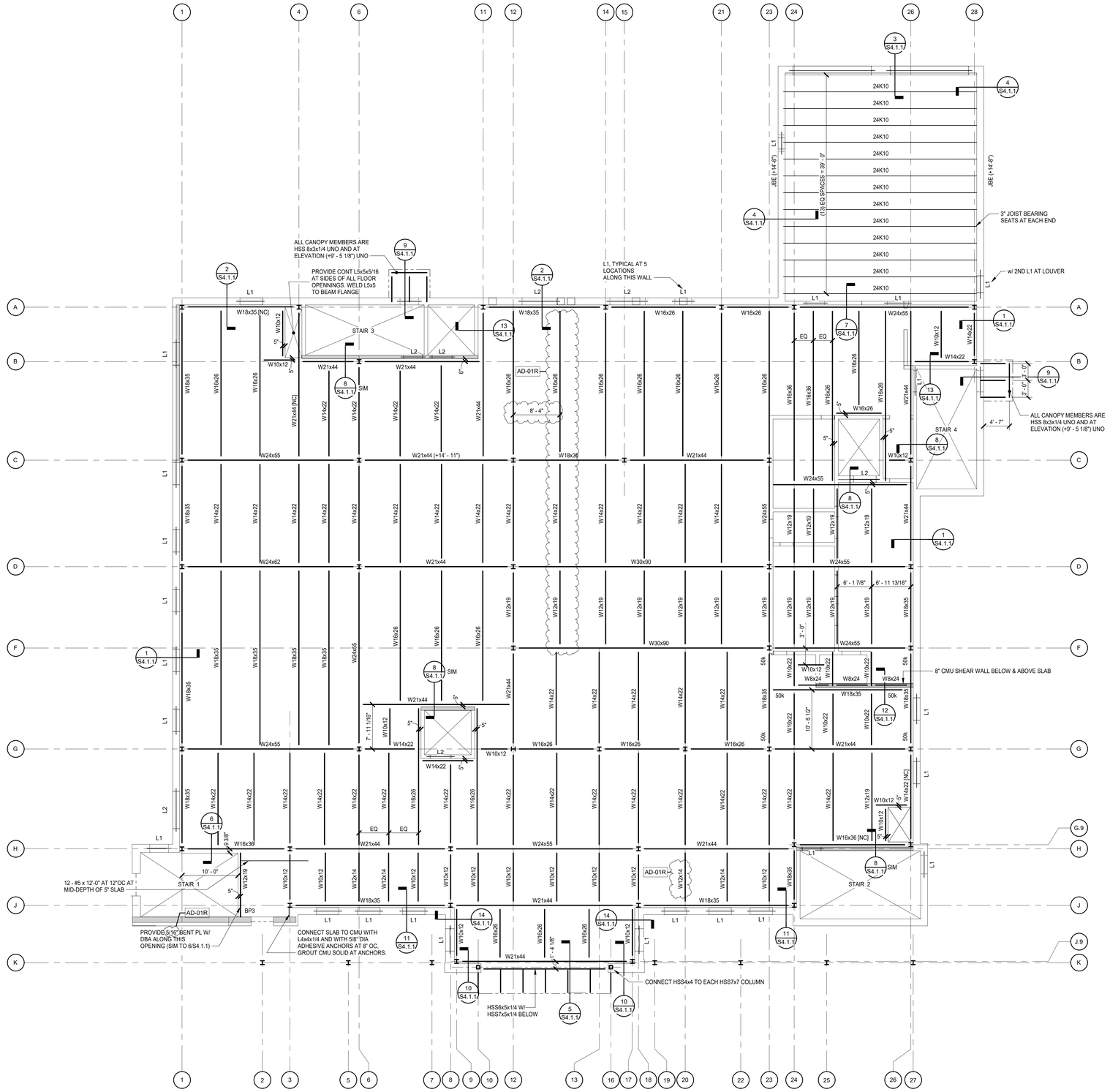

SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING PLAN NOTES:

1. TOP OF SECOND FLOOR SLAB (+15'-4") RELATIVE TO FINISHED FIRST FLOOR.
2. TOP OF STEEL BEAMS SHALL BE (-0'-5") RELATIVE TO FINISHED SECOND FLOOR, UNO.
3. TOP OF STEEL BEAMS INDICATED THUS (+X-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
4. FLOOR CONSTRUCTION SHALL BE 3" NORMAL WEIGHT CONCRETE SLAB ON 2" COMPOSITE FLOOR DECK TYPE 2 (5" TOTAL SLAB THICKNESS). REINFORCE SLAB WITH 6x6-W2.9xW2.9 WWF AT MID-DEPTH. REFER TO DRAWING S4.0.1 FOR STEEL DECK SCHEDULE.
5. PLACE CONCRETE MONOLITHICALLY ON STEEL FLOOR DECK. CONSTRUCTION JOINTS MAY BE PERMITTED ONLY AFTER APPROVAL OF THE ARCHITECT / STRUCTURAL ENGINEER.
6. CONCRETE THICKNESS INDICATED ON FLOOR DECK SHALL BE OF A UNIFORM THICKNESS.
7. ALL FLOOR BEAMS SHALL RECEIVE 3/4" DIAMETER x 4" LONG HEADED SHEAR STUDS AT 12" OC, UNO.
   ALL BEAMS NOTED (NC) SHALL BE NON-COMPOSITE (SHEAR STUDS NOT REQUIRED).
   AT ALL FLOOR BEAMS AT OR LIGHTER THAN A W14x22, DESIGN END OF BEAM CONNECTION FOR A 20K REACTION, UNO.
   AT ALL W16 FLOOR BEAMS, DESIGN END OF BEAM CONNECTIONS FOR A 30K REACTION, UNO.
   AT ALL W18 FLOOR BEAMS, DESIGN END OF BEAM CONNECTIONS FOR A 40K REACTION, UNO.
   AT ALL W21 FLOOR BEAMS, DESIGN END OF BEAM CONNECTIONS FOR A 50K REACTION, UNO.
   AT ALL W24 FLOOR BEAMS, DESIGN END OF BEAM CONNECTIONS FOR A 70K REACTION, UNO.
   AT ALL W30 FLOOR BEAMS, DESIGN END OF BEAM CONNECTIONS FOR A 70K REACTION, UNO.
8. COMPOSITE BEAMS ARE DESIGNED UNSHORED.
9. ALL BEAMS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES, UNO.
10. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
11. REFER TO DRAWINGS S4.0.1 AND S4.0.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.
12. COMPOSITE SLABS (3" CONCRETE ON 2" DECK (5" TOTAL)) HAVE BEEN DESIGNED TO ACCOMMODATE A LIFT SIMILAR TO SKYJACK SJ3213 MICRO. LIFTS SHALL NOT EXCEED THIS TOTAL WEIGHT, WEIGHT PER SQUARE FOOT OF LIFT FOOTPRINT AREA OR INDIVIDUAL WHEEL LOAD. NO TWO LIFTS SHALL BE WITHIN 20 FEET OF EACH OTHER IN ANY DIRECTION AT ANY TIME. LIFTS SHALL NOT BE LOCATED ADJACENT TO STOCKPILES OF MATERIAL. FLOOR SLABS SHALL HAVE REACHED THEIR 28 DAY DESIGN STRENGTH PRIOR TO PLACING ANY LIFT ON THE SLAB.

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SECOND FLOOR FRAMING PLAN

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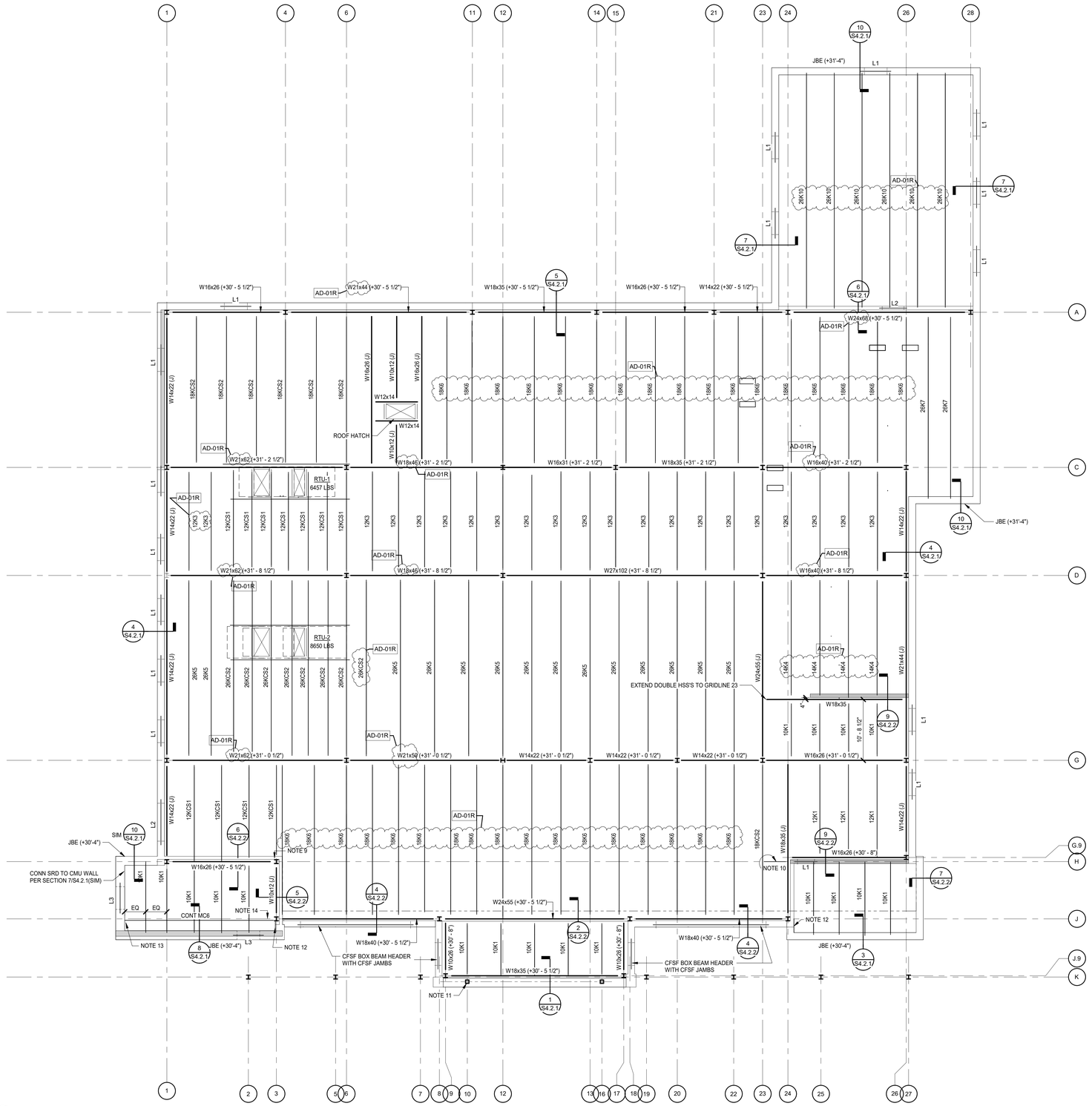

ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. TOP OF STEEL BEAMS INDICATED THUS (+X'-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
2. STEEL ROOF DECK SHALL BE 1 1/2" WIDE RIB ROOF DECK (DECK TYPE 1), UNO. REFER TO STEEL DECK SCHEDULE ON DRAWING S4.0.1 FOR DECK TYPES INDICATED ON PLAN. REFER TO FRAMING PLAN AND ARCHITECTURAL AND STRUCTURAL SECTIONS FOR EXTENT OF DECK TYPES.
3. ALL BEAMS AND JOISTS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES, UNO.
4. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
5. REFER TO DRAWINGS S4.0.1 AND S4.0.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.
6. WHERE JOISTS BEAR ON TOP OF COLUMN, PROVIDE 1/2" CAP PLATE. COORDINATE SIZE TO ALLOW FOR JOIST BOLTS WHERE REQUIRED.
7. ELEVATOR HOIST BEAMS SHALL BE W6x25 (+28'-4") AND BEAR ON CMU ELEVATOR WALLS WITH BP1. COORDINATE HOIST BEAM LOCATION WITH APPROVED ELEVATOR SHOP DRAWINGS.
8. PROVIDE LINTEL AT L1 STAIR AND ELEVATOR DOOR OPENINGS, UNO.
9. BEAR JOIST ON STIFFENED L5x5x3/8 x 1'-0" SEAT WELDED TO COLUMN WITH 3/16" FILLET WELD ALL AROUND. COPE BEAM FLANGE IF NEEDED.
10. DOUBLE HSS2 1/2x2 1/2x1/4 WITH L4x4x1/4 x 0'-4" SEAT AT EACH END. WELD SEAT TO TOP CHORD OF JOIST AND BEAM FLANGE.
11. CONNECT EACH HSS7x7 COLUMN TO W18 TOP FLANGE WITH DOUBLE L CONNECTION TO ALLOW FOR 1" VERTICAL BEAM DEFLECTION.
12. L4x4x1/4 FOR STEEL ROOF DECK SUPPORT CONN L TO CMU PER 7/S4.2.2.
13. EXTEND MC6 TO CMU AND CONNECT TO CMU WITH L3x3x1/4x1'-4" SEAT AND (2) 5/8" DIAMETER SCREW ANCHORS SPACED 12" APART.
14. WELD MC6 WEB TO COLUMN WEB WITH L4x4x3/8 x 0'-5 1/2".
15. PROVIDE L FRAMING AT ROOF DRAINS. FOR DRAIN LOCATIONS, REFER TO DRAWING A10.1.

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ROOF FRAMING PLAN

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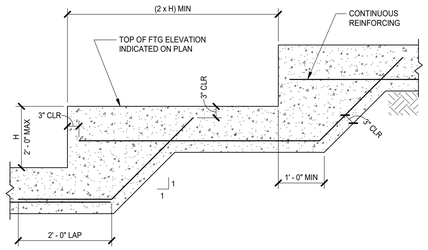
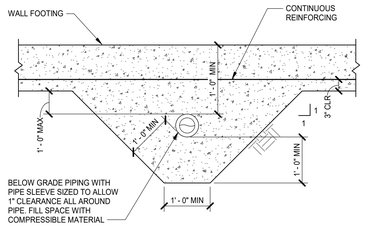
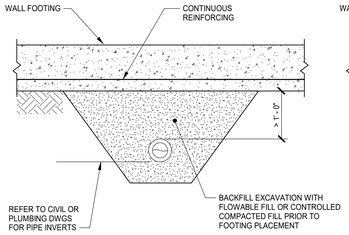


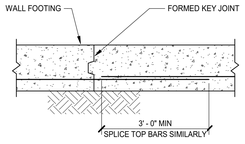
FOOTING STEP



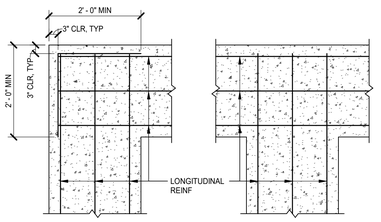
FOOTING SLEEVE



PIPE TRENCH BACKFILL AT FOOTING
(PIPE PLACED PRIOR TO FOOTING)



CONSTRUCTION JOINT

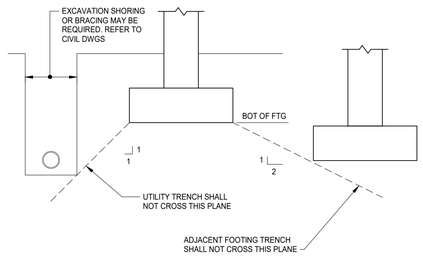


PLAN AT CORNER

PLAN AT INTERSECTION

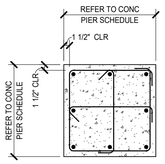
WALL FOOTING DETAILS

NO SCALE

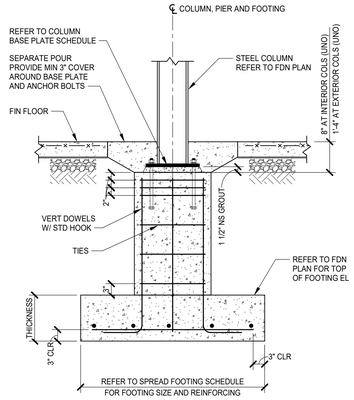


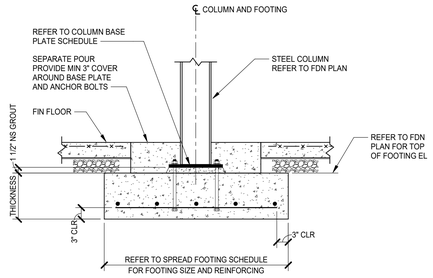
FOOTING EXCAVATION LIMITS

NO SCALE



(8) BARS



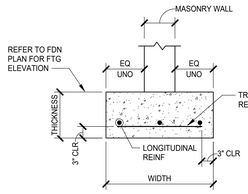


CONCRETE PIER SCHEDULE

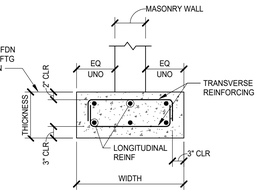
	SIZE		REINFORCING	
P-1	2'-0"	2'-0"	8 - #6 DOWELS	#4 @ 10"OC
No Pier	2' - 0"	2' - 0"	(8) #6 DOWELS	#4 @ 12" OC

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING (BOT, UNO)	
			LONGITUDINAL	TRANSVERSE
SWF3.0	3' - 0"	1' - 0"	#5@12 TOP & BOTTOM	#5@12 TOP & BOTTOM
WF2.0	2' - 0"	1' - 0"	(3) #5 CONT	#5 @ 48" OC
WF2.5	2' - 6"	1' - 0"	(3) #5 CONT	#5 @ 48" OC
WF3.0	3' - 0"	1' - 0"	(3) #5 CONT	#5 @ 48" OC
WF3.5	3' - 6"	1' - 0"	(4) #5 CONT	#5 @ 24" OC
WF4.0	4' - 0"	1' - 0"	#5 @12 TOP & BOTTOM	#5@12 TOP & BOTTOM



WITH BOT REINFORCING



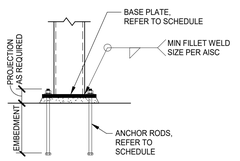
WITH TOP & BOT REINFORCING

STEEL COLUMN FOOTING DETAILS

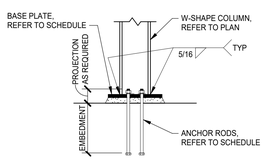
NO SCALE

WALL FOOTING DETAILS

NO SCALE



STANDARD BASE (HSS)



STANDARD BASE (W-SHAPE)

COLUMN BASE PLATE SCHEDULE

MARK	BASE PLATE SIZE			HEADED ANCHOR RODS			
	L	W	T	SIZE	EMBED	GAGE	BASE PLATE TYPE
BP-A	1' - 4"	1' - 4"	0' - 0 3/4"	(4) 3/4" DIAM	9"	12"	
BP-B	1' - 4"	1' - 4"	0' - 1"	(4) 3/4" DIAM	9"	12"	
BP-C	1' - 4"	1' - 4"	0' - 1 1/4"	(4) 3/4" DIAM	9"	12"	

COLUMN BASE PLATE DETAILS

NO SCALE

SPREAD FOOTING SCHEDULE

MARK	SIZE			REINFORCING
	LENGTH	WIDTH	THICKNESS	
5.0	5' - 0"	5' - 0"	1' - 0"	(5) #5 EA WAY BOT
5.5	5' - 6"	5' - 6"	1' - 1"	(6) #5 EA WAY BOT
6.0	6' - 0"	6' - 0"	1' - 2"	(7) #5 EA WAY BOT
6.5	6' - 6"	6' - 6"	1' - 4"	(6) #6 EA WAY BOT
7.0	7' - 0"	7' - 0"	1' - 5"	(6) #6 EA WAY BOT
7.5	7' - 6"	7' - 6"	1' - 6"	(7) #6 EA WAY BOT
8.0	8' - 0"	8' - 0"	1' - 7"	(9) #6 EA WAY BOT
8.5	8' - 6"	8' - 6"	1' - 8"	(10) #6 EA WAY BOT
9.0	9' - 0"	9' - 0"	1' - 10"	(10) #6 EA WAY BOT
9.5	9' - 6"	9' - 6"	1' - 11"	(11) #6 EA WAY BOT
10.0	10' - 0"	10' - 0"	2' - 0"	(9) #7 EA WAY BOT
11.0	11' - 0"	11' - 0"	2' - 2"	(11) #7 EA WAY BOT

AD-01R

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STAUNTON J&DR COURTS FACILITY

2040 WEST BEVERLY STREET
CITY OF STAUNTON, VA 24401

PROJECT NO: 630874
DATE: MARCH 14, 2024

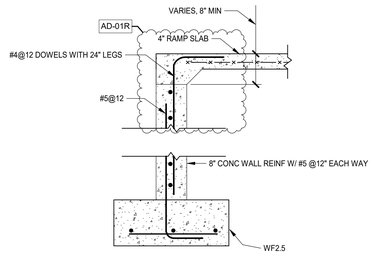
REVISIONS

DATE	DESCRIPTION
03/14/24	AD-01R

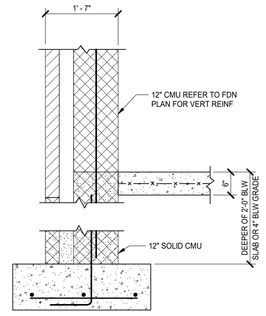
TYPICAL FOUNDATION DETAILS

S3.0.1

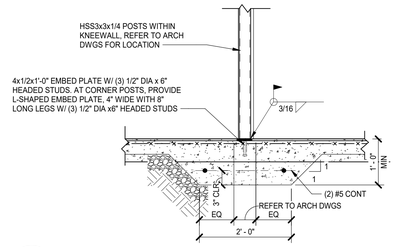
3/13/2024 4:29:38 PM



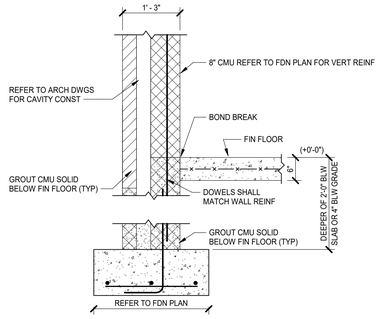
4 S1.1.1 S3.1.1 **SECTION** 3/4" = 1'-0"



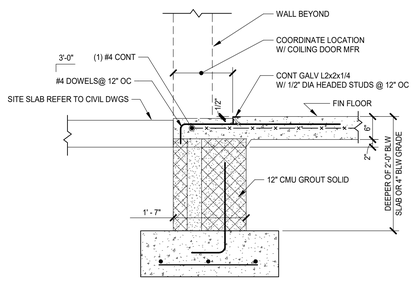
7 S1.1.1 S3.1.1 **SECTION** 3/4" = 1'-0"



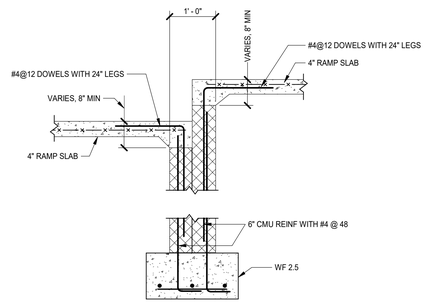
3 S1.1.1 S3.1.1 **SECTION** 3/4" = 1'-0"



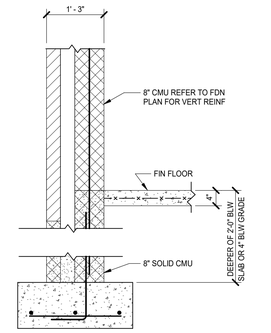
6 S1.1.1 S3.1.1 **SECTION** 3/4" = 1'-0"



2 S1.1.1 S3.1.1 **SECTION** 3/4" = 1'-0"



5 S1.1.1 S3.1.1 **SECTION** 3/4" = 1'-0"



1 S1.1.1 S3.1.1 **SECTION** 3/4" = 1'-0"

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2040 WEST BEVERLY STREET
CITY OF STAUNTON, VA 24401

PROJECT NO: 630874
DATE: MARCH 14, 2024

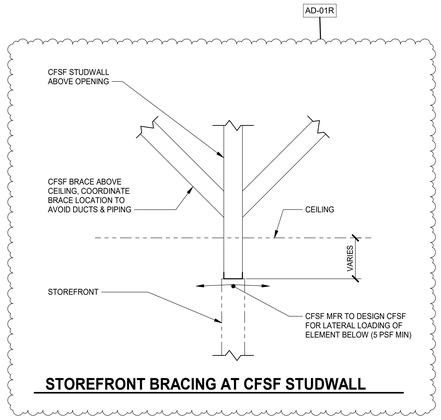
REVISIONS

DATE	DESCRIPTION
03/14/24	AD-01R

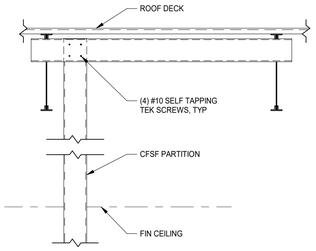
FOUNDATION SECTIONS

S3.1.1

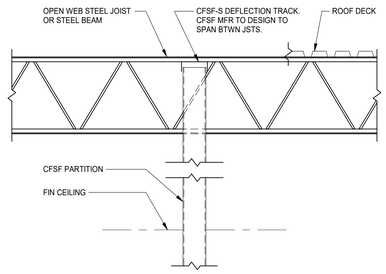
3/13/2024 4:30:36 PM



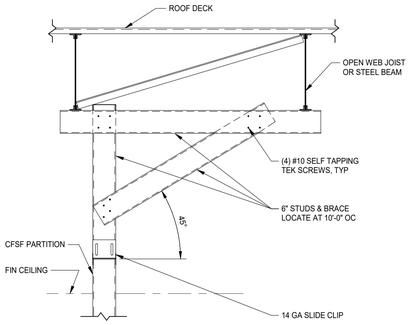
STOREFRONT BRACING AT CFSF STUDWALL



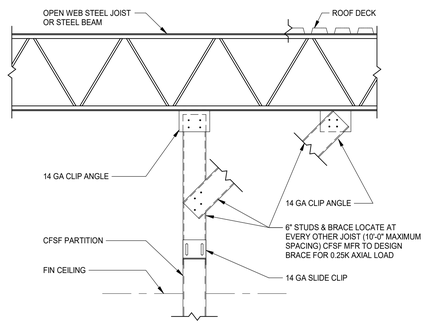
WALL TO DECK - PARALLEL TO JOISTS



WALL TO DECK - PERPENDICULAR TO JOISTS



LOW WALL PARALLEL TO JOISTS



LOW WALL PERPENDICULAR TO JOISTS

NOTES:
1. BRACE INTERIOR CFSF WALLS THAT DO NOT EXTEND TO DECK IN ACCORDANCE WITH THESE DETAILS UNLESS OTHERWISE INDICATED.
2. IN LIEU OF BRACING AT TOPS OF WALLS, BRACING MAY BE PROVIDED BY INTERSECTING WALLS WHEN THE DESITANCE BETWEEN THE INTERSECTING WALLS DOES NOT EXCEED 10'-0".
3. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR PARTITION TYPES AND LOCATIONS.
4. INSTALL BRACING AFTER ALL ROOF DEAD LOAD IS IN PLACE.
5. DETAILS ABOVE ARE ALSO APPLICABLE AT FLOOR AND ROOF BEAMS.

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CITY OF STAUNTON, VA 24401

PROJECT NO: 630874
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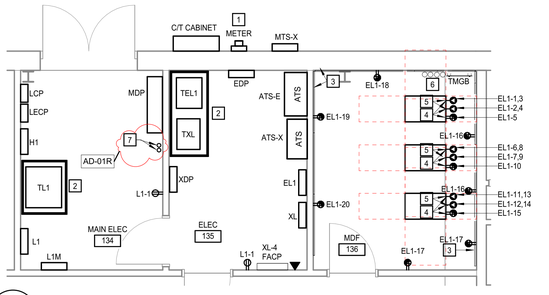
REVISIONS	
DATE	DESCRIPTION
03/14/24	AD-01R

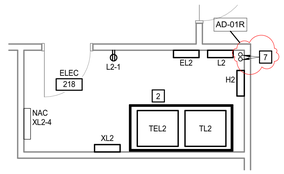
TYPICAL FRAMING DETAILS

S4.0.3

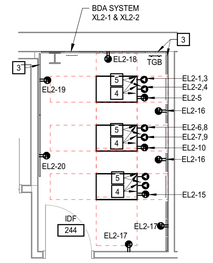
3/13/2024 4:32:31 PM



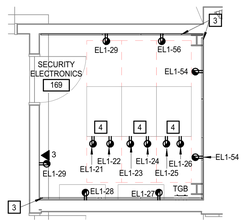
1 E2.1.2 E3.1 **MAIN ELEC RM #134 , ELEC RM #135, & MDF RM #136**
1/4" = 1'-0"



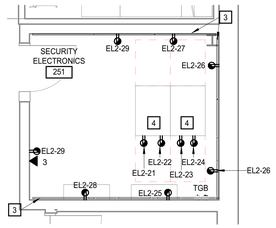
2 E2.2.2 E3.1 **ELEC RM #218**
1/4" = 1'-0"



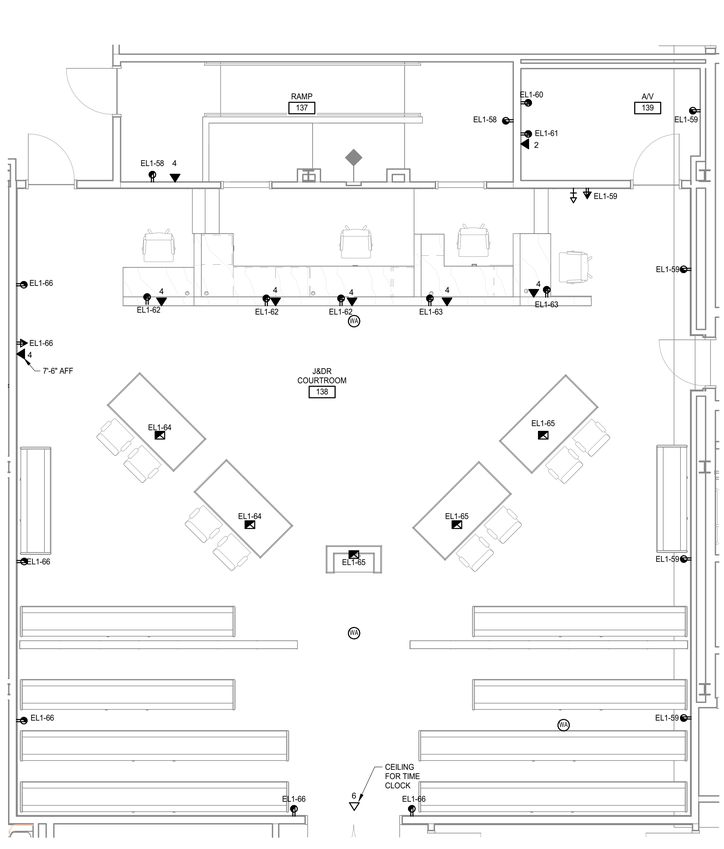
3 E2.2.2 E3.1 **IDF RM #244**
1/4" = 1'-0"



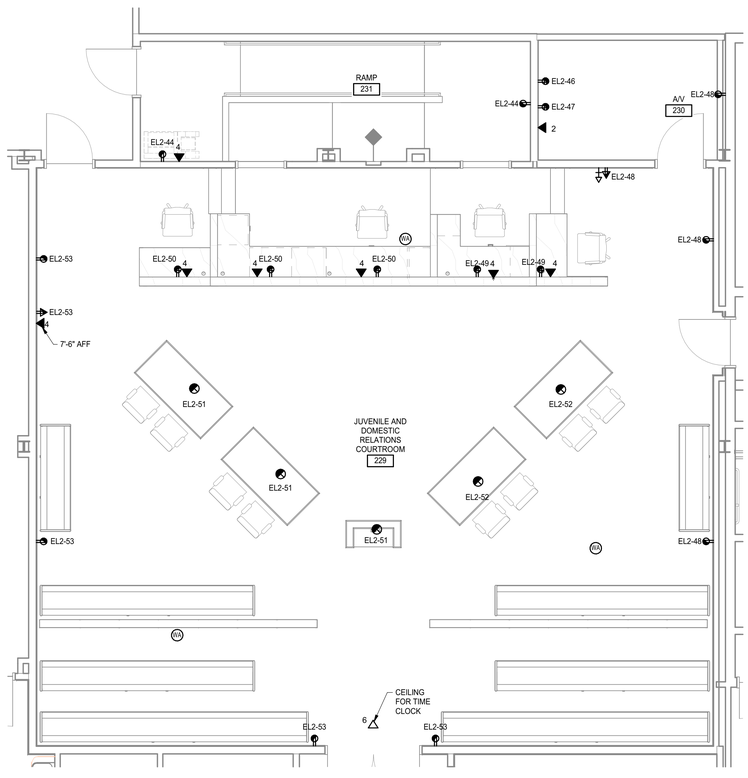
7 E2.1.2 E3.1 **SECURITY ELECTRONICS #169**
1/4" = 1'-0"



6 E2.2.2 E3.1 **SECURITY ELECTRONICS #251**
1/4" = 1'-0"



4 E2.1.2 E3.1 **J & DR COURTROOM/138**
1/4" = 1'-0"



5 E2.2.2 E3.1 **JUVENILE AND DOMESTIC RELATIONS COURTROOM/229**
1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SECURITY/CAMERA DRAWINGS FOR ADDITIONAL INFORMATION.

B. REFER TO TA (AV SYSTEM & PAGING) DRAWINGS FOR ADDITIONAL INFORMATION.

KEYNOTES

APPLIES TO DRAWINGS E3.1
REPRESENTED BY n

1. CONTRACTOR INSTALLED UTILITY CO. KWH METER. PROVIDE 1-1/4" RGS CONCEALED CONDUIT FROM CT COMPARTMENT FOR UTILITY WIRING. FINAL LOCATION OF KWH METER SHALL BE DETERMINED BY POWER UTILITY COMPANY.
2. TRANSFORMER SHALL BE CONCRETE PAD MOUNTED.
3. PROVIDE 4'X8'X3/4" FIRE RATED PLYWOOD. PAINT WHITE.
4. MOUNT DEVICE TO EQUIPMENT RACK AT TOP OF RACK. DO NOT OBSTRUCT RACK SPACE. ROUTE FLEXIBLE METALLIC CABLE STRAPPED TO RACK UP TO JUNCTION BOX ABOVE CEILING FOR HOMERUN IN EMT CONDUIT.
5. RECEPTACLE SHALL BE L6-30R VIA 2#10,#10,3/4"C.
6. PROVIDE FOUR 4" CONDUITS FROM THE MDF UP TO IDF/224 FOR TELE/DATA CABLING. ROUTE CAN BE DETERMINED IN THE FIELD.
7. PROVIDE (2) 3" CONDUITS FROM MAIN ELECTRICAL ROOM 134 TO ELECTRIC ROOM 216 FOR FUTURE PV SYSTEM. ACTUAL TERMINATION POINTS IN THOSE ROOMS TO BE FIELD DETERMINED BY OWNER. — AD-01R

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STAUNTON J&DR COURTS FACILITY

City of Staunton
2040 West Beverley Street, Staunton, VA 24401

PROJECT NO: 630874
DATE: MARCH 1, 2024

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DATE	DESCRIPTION
03-14-24	AD-01R

ENLARGED PLANS

E3.1

3/13/2024 9:55:34 AM

PANELBOARD SCHEDULE — MDP

LOCATION: MAIN ELEC 134 | FED FROM: C/T CABINET

800 A MCB SE RATED | 480/277 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 42 KAIC

CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT
1				8.0	36.5					2
3	100 A	3	ATS-X			5.9	37.1	ATS-E	3	225 A	4
5							6.1	39.4			6
7				30.4	40.4						8
9	225 A	3	H1			27.0	38.9	H2	3	225 A	10
11							26.1	35.4			12
13				11.1	14.4						14
15	90 A	3	STAFF ELEVATOR			11.1	14.4	PUBLIC ELEVATOR	3	125 A	16
17							11.1	14.4			18
19	--	1	SPACE ONLY	--	--			SPACE ONLY	1	--	20
21	--	1	SPACE ONLY			--	--	SPACE ONLY	1	--	22
23	--	1	SPACE ONLY					SPACE ONLY	1	--	24
25				--	--						26
27	--	3	SPACE ONLY			--	--	SPACE ONLY	3	--	28
29							--	--			30
31				--	--						32
33	--	3	SPACE ONLY			--	--	SPACE ONLY	3	--	34
35							--	--			36
37				--	0.0						38
39	--	3	SPACE ONLY			--	0.0	SPD	3	60 A	40
41								--	0.0		42
				141 kVA	134 kVA	132 kVA					
				509 A	486 A	477 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	23424 VA	125.00%	29280 VA
EXTERIOR LIGHTING	6977 VA	125.00%	8721 VA
RECEPTACLES	84060 VA	55.95%	47030 VA
AC / HEAT PUMP	105676 VA	100.00%	105676 VA
ELECTRIC HEAT	3300 VA	100.00%	3300 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	181620 VA	100.00%	181620 VA

Panel Totals

Total Conn. Load: 407.2 kVA
Total Est. Demand: 377.7 kVA
Total Conn. Current: 490 A
Total Est. Demand... 454 A

COPPER FEEDER SCHEDULE

FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE	FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30	1	3#10,#10 G	3/4"	30Y	1	4#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"	35Y	1	4#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"	40Y	1	4#8,#10 G	3/4"
45	1	3#6,#10 G	1"	45Y	1	4#6,#10 G	1"
50	1	3#6,#10 G	1"	50Y	1	4#6,#10 G	1"
60	1	3#4,#10 G	1"	60Y	1	4#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"	70Y	1	4#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"	80Y	1	4#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"	90Y	1	4#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"	100Y	1	4#1,#8 G	1 1/4"
110	1	3#2,#6 G	1 1/2"	110Y	1	4#2,#6 G	1 1/2"
125	1	3#1,#6 G	1 1/2"	125Y	1	4#1,#6 G	1 1/2"
150	1	3#1/0,#6 G	2"	150Y	1	4#1/0,#6 G	2"
175	1	3#2/0,#6 G	2"	175Y	1	4#2/0,#6 G	2"
200	1	3#3/0,#6 G	2"	200Y	1	4#3/0,#6 G	2"
225	1	3#4/0,#4 G	2 1/2"	225Y	1	4#4/0,#4 G	2 1/2"
250	1	3-250kCM,#4 G	2 1/2"	250Y	1	4-250kCM,#4 G	2 1/2"
300	1	3-350kCM,#4 G	2 1/2"	300Y	1	4-350kCM,#4 G	2 1/2"
350	2	3#2/0,#3 G	3"	350Y	2	4#2/0,#3 G	3"
400	2	3#3/0,#3 G	2"	400Y	2	4#3/0,#3 G	2"
450	2	3#4/0,#2 G	2 1/2"	450Y	2	4#4/0,#2 G	2 1/2"
500	2	3-250kCM,#2 G	2 1/2"	500Y	2	4-250kCM,#2 G	2 1/2"
600	2	3-350kCM,#1 G	3"	600Y	2	4-350kCM,#1 G	3"
700	2	3-500kCM,#1/0 G	4"	700Y	2	4-500kCM,#1/0 G	4"
800	3	3-350kCM,#1/0 G	3"	800Y	3	4-350kCM,#1/0 G	3"
1000	3	3-500kCM,#2/0 G	4"	1000Y	3	4-500kCM,#2/0 G	4"
1200	4	3-350kCM,#3/0 G	3"	1200Y	4	4-350kCM,#3/0 G	3"
1600	5	3-500kCM,#4/0 G	4"	1600Y	5	4-500kCM,#4/0 G	4"
2000	6	3-500kCM,#250 G	4"	2000Y	6	4-500kCM,#250 G	4"
800S	3	4-350kCM	4"	2500Y	7	4-500kCM,#350 G	4"

NOTES:
1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
2. FEEDER SIZES BASED ON TABLE 310.15(B)(16), 75° C.
3. SIZES ADJUSTED PER NEC 110.14.

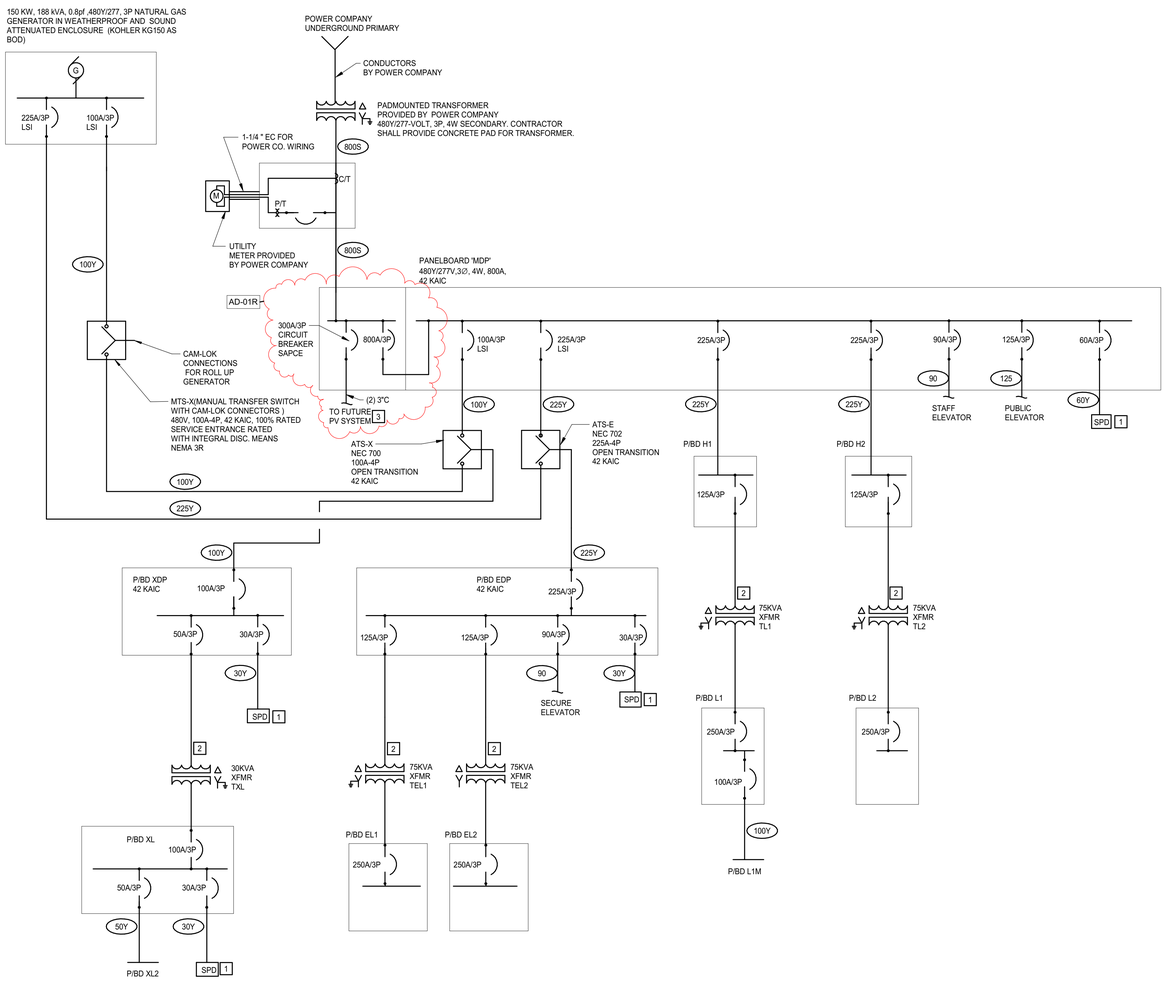
TRANSFORMER SCHEDULE

kVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER	BONDING CONDUCTOR
15 kVA	LINEAR	480V-3Ø	208Y/120V	3#10, #10 G, 3/4" C.	4#4, #8 G, 1-1/4" C.	#8
30 kVA	LINEAR	480V-3Ø	208Y/120V	3#6, #10 G, 1" C.	4#1, #6 G, 1-1/2" C.	#6
45 kVA	LINEAR	480V-3Ø	208Y/120V	3#4, #8 G, 1-1/4" C.	4#1/0, #6 G, 2" C.	#6
75 kVA	LINEAR	480V-3Ø	208Y/120V	3#1, #6 G, 1-1/2" C.	4-250kCM, #2 G, 2-1/2" C.	#2
112.5 kVA	LINEAR	480V-3Ø	208Y/120V	3#2/0, #6 G, 2" C.	(2 SETS) 4-3/0, #2 G, 2-1/2" C.	#2
150 kVA	LINEAR	480V-3Ø	208Y/120V	3#4/0, #4 G, 2-1/2" C.	(2 SETS) 4-250kCM, #2/0 G, 2-1/2" C.	#2/0
225 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#2/0, #3 G, 2" C.	(3 SETS) 4-350kCM, #2/0 G, 3" C.	#2/0
300 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#4/0, #2 G, 2-1/2" C.	(4 SETS) 4-350kCM, #4/0 G, 4" C.	#3/0
500 kVA	LINEAR	480V-3Ø	208Y/120V	(3 SETS) 3-350kCM, #1/0 G, 4" C.	(6 SETS) 4-350kCM, 300kCM G, 4" C.	#3/0

KEYNOTES

APPLIES TO DRAWINGS E5.1
REPRESENTED BY: n

1. COORDINATE WITH SPD MANUFACTURER FOR SPD BREAKER SIZE.
2. REFER TO TRANSFORMER SCHEDULE FOR EXACT CONDUIT/CONDUCTOR SIZES.
3. PROVIDE (2) 3"C FOR FUTURE PV SYSTEM. REFER TO 1/E3.1 FOR ADDITIONAL INFORMATION. AD-01R



POWER ONE - LINE DIAGRAM

NO SCALE

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03-01-24
PROFESSIONAL ENGINEER

STAUNTON J&DR COURTS FACILITY

City of Staunton
2040 West Beverley Street, Staunton, VA 24401

PROJECT NO: 630874
DATE: MARCH 1, 2024

REVISIONS

DATE	DESCRIPTION
03-14-24	AD-01R

POWER ONE-LINE DIAGRAM

E5.1

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