County of Dinwiddie

BOARD OF SUPERVISORS

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COUNTY ADMINISTRATOR

W. KEVIN MASSENGILL

FOUNDED 1752

November 1, 2016
Special Meeting
4:00 PM

1. **ROLL CALL**
2. **AMENDMENTS TO AGENDA**
3. **ACTION ITEMS:**

   A. **Contract Award: Ragsdale Community Center Furniture**
   J. Rayfield Vines, III, Assistant Director, Parks, Recreation, and Tourism

   Documents:

   Ragsdale Memo.pdf

   B. **Comprehensive Agreement: Design And Construction Of New Government Facilities**
   W. Kevin Massengill, County Administrator

   Documents:

   Dinwiddie Comprehensive Agreement November1, 2016 WHH.pdf
   Comp Agreement Resolutoin.pdf
   Dinw_Admin-PS_Comp_Agmnt_Set_10.26.2016 (3).pdf

   C. **VRA 2016 Bond Requisition #5**
   Anne Howerton, Deputy County Administrator, Finance and General Services

   Documents:

   Requisition 5.pdf

   D. **Contract Award: Construction Manager**
   W. Kevin Massengill, County Administrator

   Documents:

161101 bos memo construction manager.pdf
161101 Contract with Davidson Brown.pdf

4. ADJOURNMENT

Dinwiddie County Administration Office

Assistant Director of Parks, Recreation Tourism
7301B Boydton Plank Road
North Dinwiddie, VA 23803
Phone: (804) 732-1100
Fax: (804) 732-9921
E-Mail: jvines@dinwiddieva.us

MEMORANDUM

DATE: October 28, 2016

TO: Dinwiddie County Board of Supervisors

FROM: J. Rayfield Vines, III

CC: W. Kevin Massengill, County Administrator
Tammie Collins, Deputy County Administrator
Tyler Southall, County Attorney
Stephaine Wray, Executive Assistant to the County Administrator

SUBJECT: Approval of the Furniture Contract with JMJ Corporation – Ragsdale Community Center

BACKGROUND

The Dinwiddie County FY2016 Capital Improvements Plan (CIP) provided the final installment of funding for the development of the Robert and Betty Ragsdale Community Center project in McKenney, Virginia. Included in the CIP funding is $133,621.50 for Furniture, Fixtures and Equipment, of which $78,840.00 is specifically for Furniture and Fixtures.

REQUESTED ACTION

Staff is asking for the approval of the following resolution.

RESOLUTION

NOW, THEREFORE, BE IT RESOLVED that the Board of Supervisors of Dinwiddie County, Virginia does hereby authorize and direct the County Administrator to execute the necessary documents to award a contract to JMJ Corporation for $61,637.79 with any changes, substantive or otherwise as may be approved by the County Administrator.

COMPREHENSIVE AGREEMENT

between

DINWIDDIE COUNTY, VIRGINIA

and

AHP CONSTRUCTION, LLC

for

DESIGN AND CONSTRUCTION OF A NEW ADMINISTRATION BUILDING AND PUBLIC SAFETY BUILDING AND RENOVATION OF THE PAMPLIN BUILDING AND PUBLIC SAFETY BUILDING

THIS COMPREHENSIVE AGREEMENT (this "Agreement") is entered into as of November 1, 2016 between DINWIDDIE COUNTY, VIRGINIA ("the Owner"), a political subdivision of the Commonwealth of Virginia, and AHP CONSTRUCTION, LLC ("the Design-Builder"). The Owner and the Design-Builder are referred to individually as a "Party" and collectively as "the Parties".

Recitals

1. On August 18, 2015, the Owner adopted "Public-Private Education Facilities and Infrastructure Act of 2002 – Guidelines," establishing procedures for the development of public facilities through public-private partnerships ("Implementing Procedures"), which procedures satisfy the requirements of the Public-Private Education Facilities and Infrastructure Act of 2002 ("PPEA").

2. On February 9, 2016, the Owner issued Request for Proposals 16-020716 requesting proposals under the PPEA for the design and construction of a new administration building and public safety building and the renovation of the current Pamplin building and public safety building (the "Project").

3. The Owner determined that, among other things, it would be advantageous for the Owner to proceed with the Project using procedures for competitive negotiation, rather than using sealed, competitive bids, given the probable scope, complexity and urgency of the Project; the merits of risk-sharing and the potential for added value; and the economic benefit from the Project that might otherwise not be available.

4. The Owner received three proposals, and interviewed all three of the firms submitting proposals.

5. After the interviews, the Owner selected the Design-Builder for negotiation of a comprehensive agreement under the PPEA for the Project, based upon the proposals, oral presentations, and upon the Owner's evaluation of those proposals and presentations.

6. As required by the PPEA, the Board of Supervisors held a public hearing on April 19, 2016 to receive citizen comment on the three proposals, which had been posted on the County's website.

7. The Parties acknowledge and agree that this Agreement will function as the Contract for purposes of the Project.

8. Having considered this Agreement and other information, the Owner has determined that the Project to be designed and constructed pursuant to this Agreement serves the public purpose of the PPEA under the criteria of Section 56-575.4(C) of the Code, and posted this Agreement for public inspection in accordance with the PPEA and Implementing Procedures.

NOW THEREFORE, for and in consideration of the mutual promises, conditions and covenants herein set forth, the Parties agree as follows:

1. **Incorporation of Recitals.** The foregoing recitals are true and correct and are incorporated herein by reference.

2. **Contract Documents.** The Contract Documents are comprised of the following:

   a. All written modifications, amendments and change orders to this Agreement issued in accordance with the General Conditions of Contract.

   b. This Agreement, including all exhibits and attachments, executed by the Owner and the Design-Builder.

   c. Construction Documents prepared and approved in accordance with Section 2.4 of the General Conditions of Contract.

3. **Definitions.** The following definitions apply to this Agreement. Capitalized terms not defined in this Article 3 or elsewhere in this Agreement shall have the meanings as defined in the General Conditions of Contract.

   a. "Contract" means this Agreement and the exhibits attached hereto.

   b. "Contract Documents" means those documents listed in Article 2 herein.

   c. "Contract Price" means the amount that the Owner will be obligated to pay the Design-Builder as stated at Article 7 of this Agreement, and is subject to upward or downward adjustment pursuant only to the Contract.

   d. "Contract Time" or "Contract Times" has the meaning ascribed by Article 9 hereof, as may be adjusted pursuant to the Contract Documents.

   e. "Date of Commencement" means the date described in Article 9 (a) herein.

   f. "General Conditions of Contract" or "General Conditions" means DBIA Document No. 535, the Standard Form of General Conditions of Contract, as so modified by agreement of the Owner and Design-Builder, which is attached hereto as **Exhibit C.**

   g. "Project" means the design, permitting and performance of the work as contemplated by the Contract Documents. "Project" includes both the entirety of the Project or a part thereof and may occur both on and outside of the site.

   h. "Project Schedule" means that schedule attached hereto as part of **Exhibit D**, as it may be adjusted pursuant to the Contract Documents.

i. "Work" is comprised of all Design-Builder's design, construction and other services required by the Contract Documents, including procuring and furnishing all materials, equipment, services for the Project. The term "Work" also includes the services provided by Design-Builder from the date of the submission of the initial proposal to the date of this Agreement.

4. **General Scope.** The Design-Builder shall perform, provide or cause to be provided all design, permitting, construction, material, equipment, services and labor necessary for the development of the new Dinwiddie Administration and Public Safety Building and the renovation of the Pamplin Building and the current Public Safety Building. (the "Project"). A site plan of the Project and a detailed outline of the project reflecting negotiations between the parties is attached hereto as **Exhibit A.** A list of the exclusions from the scope of Work of the Design-Builder which are the responsibility of the Owner is attached hereto as **Exhibit F.** The Design-Builder shall be responsible for obtaining all necessary federal, state, and local permits and approvals and performing the Project in compliance with all applicable federal, state and local laws and regulations and the Contract Documents. It is the intent of the Owner and the Design-Builder that, unless otherwise specifically set forth in this Agreement, the Design-Builder shall perform or provide all design, permitting, construction and related services that are necessary to provide the Owner with a completed, fully functional Project. Design-Builder agrees that the design team, engineers, public safety consultants and other consultants and members of the team submitted in the proposal and present at the oral interviews will work on this Project, and will not be changed without the approval of the Owner.

5. **Interpretation; Intent and Incorporation.**

a. The Contract Documents are intended to permit the Parties to complete the Project and all obligations required by the Contract Documents within the Contract Time(s) for the Contract Price. The Contract Documents are intended to be complementary and interpreted in harmony so as to avoid conflict, with words and phrases interpreted in a manner consistent with industry standards. In the event of any inconsistency, conflict, or ambiguity between or among the Contract Documents, the order of precedence among Contract Documents shall be as provided in Article 28 hereof.

b. Terms, words and phrases used in the Contract Documents, including this Agreement, shall have the meanings given them in this Agreement.

c. In accordance with Article 28 hereof and as more fully provided thereby, the Contract Documents form the entire agreement between Owner and Design-Builder. No oral representations or other agreements have been made by the Parties except as specifically stated in the Contract Documents.

6. **Ownership of Work Product.**

a. **Work Product**. Conditioned only upon payment of fees due to the Design-Builder for Services that have been performed under the Contract, all drawings, specifications and other documents and data furnished by the Design-Builder to the Owner under the Contract (collectively, the "Work Product") are deemed to be instruments of service, in which the Design-Builder grants a limited, irrevocable and non-exclusive license to the Owner to reproduce and use for this Project and further to obtain similar license to the Owner from all of the Design-Builder's consultants who produce such Work Product for the Project. This irrevocable license includes Work Product in paper and electronic forms, and all Work Product for the Project that have been or will be prepared or created by or on behalf of the Design-Builder for the Project, as well as any and all derivations, modifications, changes, translations, revisions, elaborations, adaptations or transformations of the Work Product. This provision shall not relieve the Design-Builder from, or modify the Design-Builder's sole responsibility for, any and all liability for all of its Work under the Agreement (including labor and materials). It is understood and agreed that all Work Product prepared by or on behalf of the Design-Builder for this Project will be applicable only in respect to the Project. The Work Product is not intended or represented to be suitable for use or reuse by the Owner or others for a material extension of the Project or on any other project. The Owner has the right, itself or by and through other design professionals, to modify the Work Product prepared by the Design-Builder for use in connection with the Project or for any other use whatsoever. In such event, the Design-Builder shall have no liability for such modifications. The Design-Builder shall ensure that its consultants agree in writing to the granting of limited, irrevocable and non-exclusive license for use in this project of the Work Product produced by the consultants for the Design-Builder that the Design-Builder has agreed to provide to the Owner in this Agreement.

b. **Retained Rights of the Design-Builder.** The Owner acknowledges that the Design-Builder or its consultants may have developed materials prior to entering into this Agreement, and may own other patent, trade secret and proprietary rights in techniques and concepts related to interior design elements that were not conceived or first produced by the Design-Builder in connection with this Project (collectively "Design-Builder Intellectual Property"). Design-Builder Intellectual Property is proprietary to the Design-Builder and shall remain the Design-Builder's exclusive property. The Design-Builder identifies to the Owner that all Design-Builder Instruments of Service are Intellectual Property. The Design-Builder hereby grants to the Owner a license to Design-Builder's Intellectual Property to the extent it is incorporated in any Work Product delivered to the Owner by the Design-Builder hereunder. Submission or distribution of any Work Product to meet official regulatory requirements or for

similar purposes in connection with the Project is not to be construed as publication in derogation of the reserved rights of the Design-Builder and the Design-Builder's consultants.

7. **Contract Price.**

a. **Contract Price.** The Owner shall pay the Design-Builder in accordance with Article 8 hereof the "Contract Price" in the amount of $24,042,367 subject to adjustments to the Contract Price made in accordance with the Contract. Unless otherwise provided in the Contract Documents, the Contract Price is deemed to include all sales, use, consumer and other taxes imposed by law or any governmental authority. The Design-Builder shall be wholly responsible to complete the Project at no compensation above the Contract Price, subject to any adjustments in the Contract Price made as a result of changes made in accordance with this Agreement. A detailed breakdown of the Contract Price is attached as **Exhibit E.**

The work of the Project will be offered for subcontractor bidding when the design is complete. When the bidding is substantially complete for all portions of the Work, which is expected to be in spring 2017, the adjusted cost, including all subcontractor bids (adjusted for scope), insurances, fees and contingencies, will be compared to the Contract Price. If the adjusted cost is higher than the Contract Price, the Design-Builder will collaboratively conduct value engineering exercises to attempt to reduce the cost to the Contract Price. Value engineering shall not, however, change the number, square footage or location of the buildings, or the outside appearance or quality of the buildings. Any changes to the design must be approved in writing by the Owner, which approval shall not be unreasonably withheld. If the adjusted cost, including all subcontractor bids, adjusted for scope, insurances, fees and contingencies, is lower than the Contract Price, all savings will be assigned to the Owner's Contingency at that time.

b. **Contingency**. The Contract Price includes a Design-Builder's Contingency in the amount of $721,271. The Owner shall also have an Owner's Contingency in its project budget in an initial amount of $250,000 and a Soils Contingency in the amount of $200,000. The Design-Builder's Contingency shall be available for the sole use of the Design-Builder during design and construction. The Owner may use the Owner's Contingency for any reason during the course of the Project. If, at the conclusion of construction of the Project there is any balance remaining in the Design-Builder's Contingency, it will be shared by the Owner and the Design-Builder, with 50% going to the Owner and 50% going to the Design-Builder. Any Owner's Contingency remaining at the conclusion of the Project will belong to the Owner. All uses of the Design-Builder's Contingency will be documented monthly for the Owner's information.

d. **Markups for Changes.** If the Contract Price requires an adjustment due to changes in the Work, the following markups shall be allowed on such changes:

For the Design-Builder: 5.0% fee (mark-ups for insurance, bonds, business tax will be considered costs of the Work)

For Subcontractors and Sub-Subcontractors (other than design/engineering consultants): 10.0% overhead and 5% fee

f. **Allowances.** The Contract Price includes the following allowance(s) (each, an "Allowance"):

Description	**Allowance Amount**
IT Renovation	$50,000
Administration Building Flooring	$305,000
Public Safety Building Flooring	$126,000
Administration Building Millwork	$210,000
Public Safety Building Millwork	$40,000

Allowances shall be selected by the Owner in sufficient time to avoid delay in the Work. Material Allowances shall cover the cost to the Design-Builder of materials, services and equipment delivered at the Site, plus all required taxes, less applicable trade discounts. Material and Labor Allowances shall include all labor and equipment required to complete the installation of the design. Whenever costs of an item are more than or less than the Allowance, the Contract Price shall be adjusted accordingly by Change Order.

8. **Payment.**

a. **Progress Payments**

i. The Design-Builder shall submit to the Owner on the first (1st) day of each month the Design-Builder's Application for Payment for Work performed during the immediately prior month.

ii. The Owner shall make payment for Work properly performed in accordance with the Contract Documents within thirty (30) days after the Owner's receipt of each properly submitted and accurate Application for Payment, but in each case less the total of payments previously made, and less amounts properly withheld.

b. **Retainage on Progress Payments**

i. The Owner will retain five percent (5%) of the amount of each Application for Payment. Retainage shall not apply to the professional fees paid to the architect and engineer as part of the design of the Project. The Design-Builder shall include or cause to be included retainage provisions in all subcontracts at the rate set forth herein.

ii. Upon Substantial Completion of the Public Safety Building, the Owner shall release to the Design-Builder all retained amounts relating to the Site Work and the Public Safety Building, less an amount not to exceed 150% of the reasonable value of all remaining or incomplete items of Work or any defective Work or any portion of the Work that has not been performed in accordance with the Contract Documents as noted in the Certificate of Substantial Completion. Likewise, upon Substantial Completion of the Administration Building, the Owner shall release to the Design-Builder all retained amounts relating to that building, subject to the above exception, and the same shall apply upon Substantial Completion of the Pamplin Building and the IT Building.

c. **Final Payment.** The Design-Builder shall submit its Final Application for Payment to the Owner in accordance with Section 6.7 of the General Conditions of Contract. If the Owner finds that all portions of the Work including any punch list items identified by the Owner or the Design-Builder have been completed, the Owner shall make payment on the Design-Builder's properly submitted and accurate Final Application for Payment within sixty (60) days after the Owner's receipt of the Final Application for Payment, provided that the Design-Builder has satisfied the requirements for final payment.

d. **Interest.** Payments due and unpaid by the Owner to the Design-Builder, whether progress payments or final payment, shall bear interest commencing thirty (30) days after payment is due at a rate equal to the then current prime rate.

e. **Lender Requirements**. In the event that the Owner obtains a loan or other financial assistance from a third party in connection with the financing of the Project, the Design-Builder shall comply with all conditions established by such lender or other financial source in connection with Applications for Payment under this Agreement. The Owner shall use its best efforts to insure that any such conditions are reasonable in light of the nature and complexity of the Project and are at no additional cost and expense of any material amount to the Design-Builder.

9. **Contract Time.**

a. **Date of Commencement.** The Work shall commence at the time set forth in the Owner's written notice to proceed ("Date of Commencement") unless the Parties mutually agree otherwise in writing. The Work shall include the design and preconstruction work performed between the submission of the original proposal and the Date of Commencement.

b. **Substantial Completion and Final Completion**.

i. The project schedule is attached as Exhibit D and has the Substantial Completion Date and Final Completion Date for all phases of the Project. The total number of days for the entire project as shown in Schedule D is 939 days. The date shown for Substantial Completion of the Administration Building (assuming a beginning date of November 1, 2016) is December 24, 2018. The date shown for Substantial Completion of the Public Safety Building is June 18, 2018. The date shown for Substantial Completion of the Renovation of the Old Public Safety Building is October 22, 2018. The date shown for Substantial Completion of the Renovations of the Pamplin Building is May 29, 2019.

ii. Final Completion of the Work or identified portions of the Work - are shown on Exhibit D.

iii. All of the dates set forth in this Article 9 and in Exhibit D shall be subject to adjustment in accordance with the General Conditions of Contract.

iv. The Owner and the Design-Builder agree and acknowledge that the Work may be accepted for Substantial Completion in phases, and following acceptance of such phase, may be put into use by the Owner. If Work is accepted in phases, then any applicable warranties shall also commence upon such acceptance date

c. **Liquidated Damages.** The Design-Builder and the Owner recognize that time is of the essence with respect to all dates set forth in the Contract for each component (the Administration Building, the Public Safety Building, Site Development, and the Renovations to the Pamplin Building and the IT building), and that the Owner will suffer financial loss if the Work is not Substantially Complete within the time specified in the Contract including any time extension(s) allowed pursuant to the Contract. The Design-Builder and the Owner further recognize the difficulty of proving actual loss to the Owner in the event of a failure to achieve Substantial Completion in accordance with the date established in the Contract. Accordingly, instead of requiring such proof, the Design-Builder acknowledges that the rate of the liquidated damages set forth herein is reasonable and does not constitute a penalty. The Design-Builder agrees that if Substantial Completion is not attained by the Scheduled Substantial Completion Dates for each building, the Design-Builder shall pay on demand to the Owner One Thousand and no/100 Dollars ($1000.00) per day as liquidated damages for each day that Substantial Completion extends beyond the Scheduled Substantial Completion Date. The liquidated damages provided herein shall be in lieu of all liability for any and all extra costs, losses, expenses, claims, penalties and any other damages, whether special or consequential, and of whatsoever nature incurred by the Owner which are occasioned by any delay in achieving Substantial Completion. The Design-Builder hereby waives any defenses that the liquidated damages are a penalty or do not bear a reasonable relation to the actual damages.

10. **<u>Project Schedule</u>.**

a. Attached hereto as **Exhibit D** is the Project Schedule (based on Schematic Development level design) as prepared by the Design-Builder and accepted by the Owner.

i. The Project Schedule includes the Scheduled Substantial Completion Dates and shows the sequencing of trades and work.

ii. Within thirty (30) days following the execution of this Agreement, the Design-Builder shall submit to the Owner, with a copy to the Owner's consultant, Donald Booth of DJG, Inc. 449 McLaws Circle, Williamsburg, Va. 23185 for the Owner's approval, a Project Schedule and a "cash flow" spreadsheet that satisfies the requirements set forth in Section 10.a.iii hereof.

iii. The Project Schedule shall be a Critical Path Method (CPM) schedule that shows activities grouped by area of work or subcontract. It shall be time-scaled on a weekly basis and prepared at a level of detail and logic to schedule all salient features of the Work, including but not limited to construction by each trade, shop drawing and other submittals, placement of orders, manufacture and delivery information, testing, installation, and any and all other Work to be performed by the Design-Builder. Failure to include any element required for full and complete performance under this Contract shall not excuse the Design-Builder from its responsibilities under this Contract, including but not limited to its obligation to complete the Work on or before the Scheduled Substantial Completion Date. The Project Schedule shall identify and describe each activity, state the duration of each activity, the calendar dates for early and late start and finish of each activity, and highlight all activities on the critical path. Float time shall be indicated for all activities and must be allocated to the best interest of completing the Work on or before the Scheduled Substantial Completion Date. The Owner's acceptance of the Project Schedule shall not indicate the Owner's agreement with or responsibility for the proposed or actual duration of any activity shown thereon.

iv. Time is of the essence in achieving the Substantial Completion of Work in accordance with the dates set forth in the accepted Project Schedule.

b. The Owner and the Design-Builder shall use their best efforts to maintain the accepted Project Schedule, which can be modified by mutual agreement of the Parties as circumstances warrant and consistent with the Contract keeping in mind the importance of achieving the Substantial Completion of Work in accordance with the dates set forth in the Project Schedule. The Design-Builder will use its best efforts to secure an expedited review and approval by any other governmental or private entity of applications made by the Design-Builder for permits, reviews, inspections or approvals. The Design-Builder shall include in both the initial and detailed baseline Project Schedules sufficient allowance of time for such permitting, reviews, inspections and approvals.

c. The following CPM schedule terms will be part of the detailed baseline Project Schedule and monthly updates:

i. Written narratives are required with all schedule submissions and must include the following:

A. For the initial Project Schedules, explain the Design-Builder's plan for meeting the dates for Substantial Completion and Final Completion. Identify and explain assumptions, sequencing, and constraints such as manpower, material, and equipment for major Work categories.

B. Identify activities which are planned to be expedited by use of overtime or double shifts, including any work planned on Saturday, Sundays, or holidays.

C. Describe calendars used and provide a listing of holiday and non-work periods.

D. For monthly progress updates, provide a narrative that describes problem areas, current and anticipated, delaying factors and their impact, and an explanation of corrective action taken or proposed.

E. Describe actual Work accomplished during reporting period.

F. Provide a list of proposed modifications, additions, deletions, and changes in logic to the approved Project Schedule.

ii. The critical path shall be defined as the longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.

iii. Project Schedule calculations and out-of-sequence progress (if applicable) shall be handled through retained logic, not progress override.

iv. Each Project Schedule activity shall as a minimum have codes identifying the following:

A. Phase

B. Area

C. Location

D. Construction Division

E. Responsibility (Owner, Design-Builder, Design Consultant, General Subcontractor, Third Party)

v. Proposed durations assigned to each Project Schedule activity shall be the Design-Builder's best estimate of time required to complete the activity. No construction activity shall have a duration longer than 20 work days without prior acceptance of the Owner.

vi. Except for notice to proceed, Substantial Completion date and Final Completion date, activities shall not be constrained by any means other than logic ties to predecessor and successor activities.

vii. Relationships with start or finish lags may be used provided the lags are less than seven working days and can be logically explained.

viii. The inclusion of major subcontractors in preparation of the Project Schedule and schedule updates is required. Progress meetings will be held with representatives of the Owner, Design-Builder, Design Consultant, General Subcontractor and subcontractors whose presence may be deemed necessary or desirable.

11. **Plan of Finance.** The Owner will arrange to finance the costs of the Project in a manner that results in the availability of funds in the amounts and at the times required to meet the projected needs for the Project. The Owner will include in its annual budget proposals amounts reasonably necessary to finance the entire Project. The Owner will provide reasonable evidence of funding for the Project to the Design-Builder upon its request.

12. **Design.**

The design consists of furnishing all labor, supervision, insurance, materials and equipment, for performing all services required in connection with the design of the Project, in strict accordance with the Contract and all Legal Requirements and permit conditions.

13. **Permitting and Approvals.**

The Design-Builder shall be responsible for obtaining all necessary federal, state and local permits and approvals and conduct of the Project in

compliance with all Legal Requirements. With respect to any such permits, the Design-Builder will cause the permits to be written to provide that the Owner shall not be considered a "responsible party" for any permit violation committed by or arising from the action or inaction of the Design-Builder or its Subcontractors, and the Design-Builder shall indemnify, defend and hold the Owner harmless from any claims related to such permit violations for which the Design-Builder is responsible.

14. **Construction.**

a. All construction provided or caused to be provided by the Design-Builder shall be performed pursuant to the Contract Documents and in full compliance with all applicable Legal Requirements and applicable permits, both public and private.

b. No later than sixty (60) days prior to the start of the construction, the Design-Builder shall submit or cause to be submitted to the Owner the Design-Builder's staffing plan for the construction, together with the names, qualifications, and years of management experience of the individuals listed. The Owner will have the right to object within fourteen (14) days to any persons included on the staffing plan, in which case the Design-Builder shall substitute persons acceptable to the Owner. No subsequent changes to such approved staffing plan will be made which are objected to by the Owner (except for changes which are outside the control of the Design-Builder, such as a person leaving its employ). The Owner shall not make unreasonable objections to the staffing plan or any such proposed change. The Design-Builder agrees that the Project Executive will be Ray Considine and the Senior Project Manager is Mike McChesney.

c. The Owner and its consultants shall be afforded reasonable access to the Project to ensure that the Design-Builder's activities are acceptable to the Owner and are being performed in accordance with the Contract, and that the Work is being properly maintained.

d. All construction access points, roadways, paths, and other areas used for ingress and egress, site access, material handling and storage, and staging, shall be protected with sediment and erosion control measures in accordance with federal, state, and local requirements.

e. All construction access points, roadways, paths, and other areas used for ingress and egress, site access, material handling and storage, and staging shall be restored to their original condition or as otherwise required by federal, state and local permits and/or agreements with the respective landowners.

f. The Design-Builder shall deliver to the Owner a certificate in substantially the form attached hereto as **Exhibit B**, indicating that the Work has been completed.

15. **Stop Work and Termination for Cause.**

a. **The Owner's Right to Stop Work**.

i. At any time and without cause, the Owner may suspend the Work or any portion thereof for a period of not more than ninety (90) consecutive days by notice in writing to the Design-Builder which will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. The Design-Builder shall be granted an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if the Design-Builder makes a Claim therefor. Provided, however, if the Owner suspends Work or any portion thereof due to its reasonable judgment that the Design-Builder has or is violating the Contract or any requirement thereof, including but not limited to violations of any Legal Requirements related to jobsite safety, then the Design-Builder shall not receive any adjustment in the Contract Price or extension of the Contract Times, even if it is determined that no violation actually existed.

b. **The Owner's Right to Perform and Terminate for Cause**.

i. If the Design-Builder repeatedly fails to (i) provide or cause to be provided a sufficient number of skilled workers; (ii) supply the materials or equipment required by the Contract; (iii) comply with applicable Legal Requirements; (iv) timely pay, without cause, Design Consultants or Subcontractors; (v) prosecute the Work with promptness and diligence to ensure that the Work is completed by the Contract Time(s), as such times may be adjusted; or (vi) perform material obligations under the Contract Documents, or if the Design-Builder (i) becomes insolvent; (ii) makes a general assignment for the benefit of its creditors; (iii) commences or consents to any action seeking reorganization, liquidation or dissolution under any law relating to bankruptcy or relief of debtors; or (iv) commences or consents to any action seeking appointment of a receiver or trustee for itself or its assets, then the Owner, in addition to any other rights and remedies provided in the Contract Documents or by law, shall have the rights set forth in Articles 15.b.ii and 15.b.iii below.

ii. Upon the occurrence of an event set forth in Article 15.b.i above, the Owner may provide written notice to the Design-Builder that it intends to terminate the Contract unless the problem cited is cured,

or reasonably commenced to be cured, within seven (7) days of the Design-Builder's receipt of such notice. If the Design-Builder fails to cure, or reasonably commence to cure, such problem, then the Owner may give a second written notice to the Design-Builder of its intent to terminate the Contract within an additional seven (7) day period. If the Design-Builder, within such second seven (7) day period, fails to cure, or reasonably commence to cure, such problem, then the Owner may declare the Contract terminated for default by providing written notice to the Design-Builder of such declaration. The Owner may provide copies of any notices to the surety on the performance bond and, in the Owner's sole discretion, elect to pursue any remedies that may be available under the terms of the performance bond in lieu of proceeding with the termination as described in this Article 15.b.ii.

iii. Upon declaring the Contract terminated pursuant to Article 15.b.ii above, the Owner may enter upon the premises and, to the extent the Owner has made payment, take possession, for the purpose of completing the Work, of all the Design-Builder's (not subcontractor's) materials, equipment, tools, appliances and other items for use in the Project, which have been purchased or provided for the performance of the Work, all of which the Design-Builder hereby transfers, assigns and sets over to the Owner for such purpose, and to employ any person or persons to complete the Work and provide all of the required labor, services, materials, equipment and other items. In the event of such termination, the Design-Builder shall not be entitled to receive any further payments under the Contract Documents until the Work shall be finally completed in accordance with the Contract Documents. If the Owner's cost and expense of completing the Work exceeds the unpaid balance of the GMP, then the Design-Builder shall be obligated to pay the difference to the Owner. Such costs and expense shall include not only the cost of completing the Work, but also losses, damages (direct, indirect and special) (but not consequential), costs and expenses, including attorneys' fees and expenses, incurred by the Owner in connection with the reprocurement and defense of claims arising from the Design-Builder's default. Upon completion of the Work, any Contract amounts remaining shall be paid to the Design Builder.

iv. If the Owner improperly terminates the Contract for cause, the termination for cause will be converted to a termination for convenience in accordance with the provisions of Article 16 hereof and the Owner will reimburse the Design-Builder for such costs and expenses incurred in connection with the improper termination as provided in Article 16.

c. **The Design-Builder's Right to Stop Work**.

i. The Design-Builder may, in addition to any other rights afforded under the Contract Documents or at law, stop work upon the Owner's failure to pay the Design-Builder for portions of the Work properly performed in accordance with the Contract Documents.

ii. Should the event set forth in Article 16.c.i above occur, the Design-Builder has the right to provide the Owner with written notice that the Design-Builder will stop work unless said event is cured within seven (7) days from the Owner's receipt of the Design-Builder's notice. If the Owner does not cure the problem within such seven (7) day period, the Design-Builder may stop work. If the Owner later cures the problem and the parties agree to resume Work on the Project, then the Design-Builder shall be entitled to an equitable adjustment to the Contract Price and Contract Time(s) to the extent that the Design-Builder has been adversely and materially impacted by such stoppage and if the Design-Builder is not in default under the Contract and is otherwise prepared to proceed with the performance of the Work in accordance with the provisions of the Contract Documents.

iii. Notwithstanding the foregoing, the Design-Builder shall not stop work because of any dispute with the Owner about all or any portion of any amount for which the Design-Builder has submitted an Application for Payment as long as the Owner pays to the Design-Builder such portion of any Application for Payment about which there is no dispute.

d. **The Design-Builder's Right to Terminate for Cause**.

i. The Design-Builder, in addition to any other rights and remedies provided in the Contract Documents or by law, may terminate the Contract for cause for the following reasons specified in clauses ii. through iv. below:

ii. The Work has been stopped for ninety (90) consecutive days, or more than one-hundred twenty (120) days during the duration of the Project, because of an order by a court or any government authority having jurisdiction over the Work, or orders by the Owner under Article 15.a.i hereof, provided that such stoppages are not due to the acts or omissions of the Design-Builder or anyone for whose acts the Design-Builder may be responsible. This provision shall not apply and shall not be a basis for termination to the extent that any stoppage is related to or arises as a result of any restrictions set forth in or applicable to a permit issued by a regulatory authority which is applicable to the Work.

iii. The Owner's failure to provide the Design-Builder with any information, permits or approvals that are the Owner's responsibility under the Contract Documents which result in the Work being stopped for ninety (90) consecutive days, or more than one-hundred twenty (120) days during the duration of the Project, even though the Owner has not ordered the Design-Builder in writing to stop and suspend the Work pursuant to Article 15.a.i hereof and such failure of the Owner was not due to the acts or omissions of the Design-Builder or anyone for whose acts the Design-Builder may be responsible.

iv. The Owner's failure to cure the problems set forth in Article 15.c.i above after the Design-Builder has stopped the Work.

v. Upon the occurrence of an event set forth in Article 15.d.ii. through Article 15.d.iv. above, the Design-Builder may provide written notice to the Owner that it intends to terminate the Contract unless the problem cited is cured, or commenced to be cured, within ten (10) days of the Owner's receipt of such notice. If the Owner fails to cure, or reasonably commence to cure, such problem, then the Design-Builder may give a second written notice to the Owner of its intent to terminate within an additional ten (10) day period. If the Owner, within such second ten (10) day period, fails to cure, or reasonably commence to cure, such problem, then the Design-Builder may declare the Contract terminated for default by providing written notice to the Owner of such declaration. In such case, the Design-Builder shall be entitled to recover in the same manner as if the Owner had terminated the Contract for its convenience under Article 16 of this Agreement.

e. **Bankruptcy of the Owner or the Design-Builder**.

i. If either the Owner or the Design-Builder institutes or has instituted against it a case under the United States Bankruptcy Code (such Party being referred to as the "Bankrupt Party"), such event may impair or frustrate the Bankrupt Party's ability to perform its obligations under the Contract Documents. Accordingly, should such event occur:

ii. the Bankrupt Party, its trustee or other successor, shall furnish, upon request of the non-Bankrupt Party, adequate assurance of the ability of the Bankrupt Party to perform all future material obligations under the Contract Documents, which assurances shall be provided within ten (10) days after receiving notice of the request; and

iii. The Bankrupt Party shall file an appropriate action with the bankruptcy court to seek assumption or rejection of the Contract within sixty (60) days of the institution of the bankruptcy filing and shall diligently prosecute such action.

iv. If the Bankrupt Party fails to comply with the foregoing obligations listed in clauses ii. and iii. above, the non-Bankrupt Party shall be entitled to request the bankruptcy court to reject the Contract, declare the Contract terminated and pursue any other recourse available to the non-Bankrupt Party under this Article 15.

v. The rights and remedies under Article 15.e.i above shall not be deemed to limit the ability of the non-Bankrupt Party to seek any other rights and remedies provided by the Contract Documents or by law, including its ability to seek relief from any automatic stays under the United States Bankruptcy Code or the right of the Design-Builder to stop Work under any applicable provision of these General Conditions of Contract.

16. **Termination for Convenience.** Upon seven (7) days written notice to the Design-Builder, the Owner may, for its convenience and without cause, elect to terminate the Contract. In such event, the Owner shall pay the Design-Builder for the following:

a. All Work properly performed inclusive of materials, equipment, and fabricated items stored on or off site by the Design-Builder in accordance with the Contract;

b. The reasonable costs and expenses attributable to such termination, including verifiable demobilization costs and amounts due in settlement of any terminated subcontracts; and

c. Overhead and profit in the amount agreed as part of the Design-Builder's Fee for all portions of the Work properly performed in accordance with the Contract Documents through the date of termination.

17. **Payment Bonds, Performance Bonds, and Other Security.**

a. The Design-Builder contractor will maintain a surety performance and payment bond in the amount of the Contract Price for the term of the Contract and provide such bond to the Owner. The bond will be issued by a company licensed to issue surety bonds in the Commonwealth of Virginia with an A. M. Best rating of A- or better.

b. All bonds shall be executed by a corporate surety or corporate sureties that are reasonably acceptable to the Owner, duly authorized to do business in the Commonwealth of Virginia, meet the requirements of Section 2.2-4337 of the Virginia Code and are executed in a form acceptable to the

Owner. The Design-Builder shall cooperate with the Owner to fulfill any reasonable requirements in connection with the financing for the Project with respect to the form of performance and payment bonds provided hereunder.

c. The Design-Builder shall also furnish any cash escrow, funds, cashier's checks, certified checks, or letters of credit required for the issuance of any earth-disturbing or other permit and any bonds or security required by any other governmental authority.

18. **Insurance.**

a. The Design-Builder will maintain a general liability policy with $1,000,000 combined single limits. Coverage is to be on an occurrence basis with an insurer licensed to conduct business in the Commonwealth of Virginia. The insurer must have an A. M. Best rating of A- or better. The insurer must list the Owner as an additional insured. The endorsement must be issued by the insurance company. A notation on the certificate of insurance is not sufficient.

b. The Design-Builder will maintain workers' compensation coverage in compliance with the laws of the Commonwealth of Virginia. The coverage must have statutory limits and be with an insurer licensed to conduct business in the Commonwealth of Virginia. The insurer must have an A. M. Best rating of A- or better. As an alternative, it is acceptable for the Design-Builder to be insured by a group self-insurance association that is licensed by the Virginia Bureau of Insurance. The Design-Builder will also carry employers liability insurance with a limit of at least $100,000 bodily injury by accident/$500,000 bodily injury by disease policy limit/$100,000 bodily injury by disease each employee.

c. The Design-Builder will maintain automobile liability insurance with limits of at least $1,000,000. The coverage is to be written with a symbol "1". The insurer must be licensed to conduct business in the Commonwealth of Virginia. The insurer must have an A. M. Best rating of A- or better.

d. The Design-Builder will maintain professional liability insurance with a limit of at least $1,000,000 covering all Work on the Project.

e. The Design-Builder will maintain builders risk coverage on a replacement cost basis for the duration of the Contract. The required coverage will be the full replacement cost of the building and/or structures being built under this contract, which the parties agree shall be the same as the Contract Price. The Owner will be listed as an insured under this policy to protect any property owned at the construction site. Coverage is to be with

a company licensed to conduct business in the Commonwealth of Virginia and have an A. M. Best rating of A- or better.

f. With all policies listed above, the insurer or agent of the insurer must issue a certificate of insurance to show evidence of including but not limited to additional insured endorsements. All wording limiting the insurer responsibility to notify the Owner of any cancellation or non-renewal of the coverage must be removed.

i. The Design-Builder shall be responsible for the filing and settling of claims and liaison with insurance adjusters.

ii. The Design-Builder shall send proofs of coverage to the Owner, which shall be deemed to have approved of such policies unless, within thirty (30) days after receipt thereof, the Owner shall by notice in writing advice the Design-Builder to the contrary.

g. The Owner reserves the right, but not the obligation, to review and revise any insurance requirement, including but not limited to limits, sub-limits, deductibles, self-insured retentions, coverages and endorsements based upon any material adverse change in insurance market conditions after the date of this Agreement affecting the availability or affordability of coverage, or changes in the scope of work/specifications affecting the applicability of coverage, and the costs of any such change shall be an adjustment to the compensation payable to the Design-Builder. Additionally, the Owner reserves the right, but not the obligation, to review and reject any insurance policies failing to meet the criteria stated herein and to reject any insurer providing coverage due to its poor financial condition or failure to operate legally, provided, however, that if the policy or insurer is rejected, then the Design-Builder shall be entitled to request, and the Owner shall grant, an adjustment of the Contract Price if the Design-Builder's costs are adversely impacted by such rejection and subsequent coverage with another policy or insurer.

h. In addition to providing the Owner with copies of any and all certificates of insurance as described herein, the Design-Builder also shall provide copies of all applicable additional insured endorsements.

19. **Representations and Warranties.**

a. The Owner hereby represents and warrants to the Design-Builder as follows:

i. The Owner is a political subdivision operating under the laws of the Commonwealth of Virginia and has full power, right and authority to execute, deliver and perform its obligations under, in

accordance with and subject to the terms and conditions of this Agreement.

ii. Each person executing this Agreement on behalf of the Owner is duly authorized to execute each such document on behalf of the Owner.

iii. Neither the execution and delivery by the Owner of this Agreement and any other documents executed concurrently herewith to which the Owner is a party, nor the consummation of the transactions contemplated hereby or thereby, is in conflict with or will result in a default under or violation of any other agreements or instruments to which it is a party or by which it is bound.

iv. There is no action, suit, proceeding, investigation or litigation pending and served on the Owner as of the date of this Agreement which challenges the Owner's authority to execute, deliver or perform, or the validity or enforceability of this Agreement and the other related documents to which the Owner is a party, or which challenges the authority of the Owner official executing this Agreement or the other related documents, and the Owner has disclosed to the Design-Builder any pending and unserved or threatened action, suit, proceeding, investigation or litigation with respect to such matters of which the Owner is aware.

v. The Owner is borrowing sufficient funds to make the full payment to the Design-Builder. This Agreement is contingent on the closing of that financing, and if such closing does not occur this Agreement shall be null and void except for the obligation to pay the Design Builder as if this were a termination for convenience in accordance with article 16.

b. The Design-Builder hereby represents and warrants to the Owner as follows:

i. The Design-Builder represents that it is licensed to conduct business in Virginia, and in signing this Agreement as well as such comprehensive agreement as may be entered into between the parties, has full power and authority to bind itself to the terms thereof.

ii. The Design-Builder has taken or caused to be taken all requisite action to authorize the execution and delivery of, and the performance of its obligations under this Agreement and the other related documents to which the Design-Builder is a party.

iii. Each person executing this Agreement or any other related document on behalf of the Design-Builder has been or will at such time be duly authorized to execute each such document on behalf of the Design-Builder.

iv. Neither the execution and delivery by the Design-Builder of this Agreement and the other related documents to which the Design-Builder is a party, nor the consummation of the transactions contemplated hereby or thereby, is in conflict with or will result in a default under or a violation of the governing instruments of the Design-Builder or any other agreements or instruments to which it is a party or by which it is bound.

v. There is no action, suit, proceedings, investigation or litigation pending and served on the Design-Builder which challenges the Design-Builder's authority to execute, deliver or perform, or the validity or enforceability of this Agreement and the other related documents to which the Design-Builder is a party, or which challenges the authority of the Design-Builder official executing this Agreement or the other related documents; and the Design-Builder has disclosed to the Owner any pending and unserved or threatened action, suit, proceeding, investigation or litigation with respect to such matters of which the Design-Builder is aware.

vi. The Design-Builder is in material compliance with all laws, regulations and ordinances applicable to the Design-Builder or its activities in connection with this Agreement and the other related documents.

viii. The Design-Builder is a financially viable and capable entity and fully able to perform its obligations under this Agreement.

20. **Resolution of Disputes, Claims and Other Matters.** Disputes, claims and other matters in question between the Parties under the Contract shall be resolved as follows:

a. Whenever a Party disagrees with the other Party's final decision on a claim or dispute arising under or related to this Contract, its sole right of appeal shall be by filing, within six (6) months of date of the other Party's final decision, litigation in either the Circuit Court of the County of Dinwiddie, Virginia or the United States District Court for the Eastern District of Virginia, and may pursue all available appeals from such courts. These two courts shall have exclusive and binding jurisdiction and venue over any and all claims arising under the Contract. The parties voluntarily waive any and all rights to trial by jury. The fact finder shall be the court, sitting without a jury.

b. Prior to filing litigation, the Parties may first endeavor to resolve any disputes or claims between them through direct negotiations, and if such direct negotiations fail, by non-binding mediation, with the site of the mediation being held in or near the County of Dinwiddie, Virginia. If the Parties agree to attempt mediation, then within thirty (30) days of receipt of the notice requesting mediation, the Design-Builder and the Owner shall attend a formal mediation conducted by a single, impartial mediator appointed by and under the rules of The McCammon Group. The Parties shall share evenly the fees of the mediator and each shall bear its own costs involved in participating in the mediation. If they opt to mediate, the Owner and the Design-Builder shall participate in the mediation process in good faith. The process shall be concluded within forty-five (45) days of filing of the notice requesting mediation. Should the dispute or claim remain unresolved following mediation or should the time limit described in Article 20.a occur during the course of mediation, either Party may proceed under Article 20.a in order to preserve its rights, but mediation shall not extend the time period set forth in Article 20.a. If the claim or dispute is not resolved by mediation, failure to file an appeal of the other Party's final decision as described in Article 20.a within six (6) months after such decision is issued in writing shall result in the other Party's final written decision becoming final and subject to no further appeal.

c. Nothing in Articles 20.a or b shall prevent a Party from seeking temporary injunctive or other temporary equitable relief in the Circuit Court of the County of Dinwiddie, Virginia if circumstances so warrant.

d. In the event of any dispute, claim, or other matter in question arising, the Design-Builder shall continue its performance diligently during its pendency as if no dispute, claim or other matter in question had arisen. During the pendency of any dispute in connection with the payment of moneys, the Design-Builder shall be entitled to receive payments for non-disputed items.

21. **Notices.** All notices and demands by any party to any other shall be given in writing and sent by a nationally recognized overnight courier or by United States certified mail, postage prepaid, return receipt requested, and addressed as follows:

To the Owner:
County Administrator
Dinwiddie County
14016 Boydton Plank Road
P.O. Drawer 70
Dinwiddie, Va. 23841

To the Design-Builder:
John Davis
AHP Construction, LLC
249 Central Park Avenue Suite 300
Virginia Beach, Virginia 23462

Any party may, upon prior notice to the others, specify a different address for the giving of notice. Notices shall be effective one (1) day after sending if sent by overnight courier or three (3) days after sending if sent by certified mail, return receipt requested.

22. **Successors and Assigns.** Except as expressly otherwise provided, all of the terms, covenants and conditions hereof shall be binding upon and inure to the benefit of the Parties hereto and their respective successors and assigns. The Contract may not be assigned without the prior written consent of the Parties to this Agreement. Notwithstanding the foregoing, if financing is obtained for the Project, the Owner may assign the Contract to a third party, as needed, consistent with the financing. The Contract may also be assigned to a mortgagee(s)/trustee(s) of deed(s) of trust of the fee or leasehold interest in the Site or portions of them. The Design-Builder hereby consents to collateral assignment of the Contract in favor of such mortgagee(s)/trustee(s) of deed(s) of trust, in a form reasonably satisfactory to such mortgagee(s)/trustee(s), provided that no such assignment shall release the Owner from its obligations to the Design-Builder under the Contract.

23. **Time of the Essence.** The time to complete the Project is of the essence of the Contract. The Design-Builder shall proceed expeditiously with adequate forces and make diligent efforts to perform all portions of the Work in accordance with the Project Schedule and the Design-Builder shall achieve Substantial Completion of the Work and Final Completion of the Work within the completion times specified in this Agreement and the Project Schedule. The Owner will cooperate reasonably with the Design-Builder's efforts to keep the Project on schedule.

24. **Independent Contractor.** It is expressly understood and agreed by the Parties hereto that the Design-Builder, in performing its obligations under the Contract, shall be deemed an independent contractor and not an agent, employee or partner of the Owner.

25. **No Waiver.** The failure of the Owner or the Design-Builder to insist upon the strict performance of any provisions of the Contract, the failure of the Owner or

the Design-Builder to exercise any right, option or remedy hereby reserved, or the existence of any course of performance hereunder shall not be construed as a waiver of any provision hereof or of any such right, option or remedy or as a waiver for the future of any such provision, right, option or remedy or as a waiver of a subsequent breach thereof. The consent or approval by the Owner of any act by the Design-Builder requiring the Owner's consent or approval shall not be construed to waive or render unnecessary the requirement for the Owner's consent or approval of any subsequent similar act by the Design-Builder. No provision of the Contract shall be deemed to have been waived unless such waiver shall be in writing signed by the Party to be charged. Further, any approvals required by the Owner shall likewise be in writing.

26. **Cooperation.** The Parties agree to cooperate to achieve the objectives of the Contract and to use reasonable and good faith efforts to resolve all disputes and disagreements that may arise hereunder. Each Party agrees to designate representatives with the authority to make decisions binding upon such Party (subject in the case of the Owner to those matters requiring an appropriate vote of its governing body) so as to not unduly delay the Project Schedule.

27. **Counterparts.** This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but both of such counterparts together shall be deemed to be one and the same instrument. It shall not be necessary in making proof of this Agreement or any counterpart hereof to produce or account for the other counterpart.

28. **Entire Agreement and Order of Precedence.** This Agreement, including any other Contract Documents, and the Exhibits attached hereto and forming a part hereof set forth all the covenants, promises, agreements, conditions and understandings between the Design-Builder and the Owner concerning the Project, and there are no covenants, promises, agreements, conditions or understandings, either oral or written, between them other than are herein set forth. No alteration, amendment, change or addition to the Contract shall be binding upon the Design-Builder or the Owner unless reduced to writing in a formal amendment signed by each Party. In the event there are disagreements between the language of this Agreement and the General Conditions, this Agreement shall have precedence.

29. **Governing Law.** This Agreement and the Contract shall be governed by, and construed in accordance with, the laws of the Commonwealth of Virginia. The provisions of this Agreement and the Contract shall not be construed in favor of or against either Party but shall be construed according to their fair meaning as if both Parties jointly prepared this Agreement and the Contract.

30. **Annual Appropriation; Filing With Auditor of Public Accounts.** The financial obligations of the Owner contained in the Contract are subject to annual appropriation. Within thirty (30) days after the date of this Agreement, the Owner shall submit a copy of the Contract to the Auditor of Public Accounts, to the

extent required by Section 56-575.9(F) or Section 56-575.18 of the Code of Virginia.

31. **Conditions Precedent and Subsequent to Agreement's Effectiveness.** It shall be a condition precedent to this Agreement's effectiveness that: (i) it first be approved by the Board of Supervisors as evidenced by the signature of the County Administrator on behalf of the Owner on the signature pages hereof and (ii) that the County Administrator indicates in writing that the County has sufficient funding to fully fund the Project.

32. **Exhibits.** The following exhibits are hereby deemed to be part of this Agreement:

Exhibit A:

Design-Builder's Site Plan and Detailed Scope of Work.

Exhibit B:

Form of Design-Builder's Certificate

Exhibit C:

Standard Form of General Conditions of Contract Between Owner and Design-Builder (DBIA Document No. 535, as revised)

Exhibit D:

Project Schedule
Exhibit E:

Contract Price

Exhibit F:

List of Exclusions from this Agreement that are responsibility of Owner

IN WITNESS WHEREOF, the Parties have executed this Comprehensive Agreement as of the day and year first above written.

COUNTY OF DINWIDDIE, VIRGINIA

By: _____
Name: _____
Title: _____

Approved as to form:

_____

By: _____
Name: _____
Title: _____

AHP CONSTRUCTION, LLC

By: _____
Name: _____
Title: _____

EXHIBIT A
Design-Builder's
Site Plan and Detailed Scope of Work

EXHIBIT B
Form of Design-Builder's Certificate

[Date]

County Administrator
Dinwiddie County
P.O. Drawer 70
Dinwiddie, VA 23841

Re: Administration Building, Public Safety Building and Renovations to Existing Buildings (the "Project")

Gentlemen:

The County of Dinwiddie, Virginia (the "Owner") and the joint venture of AHP Construction, LLC. (the "Design-Builder") have entered into that certain Comprehensive Agreement (the "Agreement") dated _____, 2016, under which the Design-Builder has agreed to provide all design, permitting, construction, material, equipment, services and labor and related services in connection with the Project.

The undersigned Design-Builder has been responsible for the completion of the Project in accordance with the Agreement. The Design-Builder has inspected the completed Work and has identified to the Owner, to the best of its knowledge, any portions of the Work that do not conform to the requirements of the Agreement. In connection with the performance of the Work, the Design-Builder certifies to the Owner that:

1. The Project has been completed in all material respects, in accordance with the Agreement, the General Conditions of Contract, and all Legal Requirements.

2. All permits, licenses, approvals and waivers from all local, state and federal authorities having jurisdiction over the Project and private landowners required in connection with the construction of the Project (including, without limitation, all required environmental and land disturbance permits) have been obtained and are in full force and effect, and the Project, as completed, complies in all material respects with all such permits, licenses, approvals and waivers.

3. All subcontractors, sub-subcontractors, suppliers, and materialmen who have performed services, supplied materials or provided labor in connection with the performance of the Work have been paid.

4. The Design-Builder has delivered or caused to be delivered to the Owner all guarantees, warranties and all other documents or items required to be delivered to the Owner under the Agreement and General Conditions of Contract following Substantial Completion of the Work.

5. The Design-Builder will complete or cause to be completed all punch list items identified on behalf of the Owner following Substantial Completion.

6. The Design-Builder is a general contractor, licensed and in good standing with the Commonwealth of Virginia.

7. The Design-Builder has performed or will perform in the future all warranty obligations required under the Agreement and General Conditions of Contract.

The Design-Builder agrees that the Owner and its affiliates and subsidiaries are entitled to rely upon the certifications made by the undersigned herein.

The persons executing this Certificate have the power and authority to execute and deliver this Certificate.

Very truly yours,

AHP Construction, LLC

By:_____
Name:_____
Title:_____
Date:_____

By:_____
Name:_____
Title:_____
Date:_____

EXHIBIT C
General Conditions

EXHIBIT D
Project Schedule

EXHIBIT E
Contract Price

EXHIBIT F

List of Exclusions from Design-Builder's Contract

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RESOLUTION

WHEREAS, the Dinwiddie County Board of Supervisors issued Request for Proposals 16-0201716 requesting proposals under the Public-Private Education Facilities and Infrastructure Act of 2002 (PPEA) for the design and construction of a new county administration building and public safety building and the renovation of the current public safety building and the Pamplin building; and

WHEREAS, the County received three proposals, and after interviewing the three teams determined to negotiate a Comprehensive Agreement with AHP Construction, LLC (Armada Hoffler); and

WHEREAS, as required by the PPEA, the Board of Supervisors held a public hearing to receive citizens comment on the proposals; and

WHEREAS, the County has posted a copy of the proposed Comprehensive Agreement on the County's website, and the administration recommends awarding the contract to AHP Construction, LLC.

NOW THEREFORE, BE IT RESOLVED that the Board of Supervisors of Dinwiddie County authorizes the award of the contract for the construction of the new administration building and public safety building, and the renovation of the current public safety building and the Pamplin Building to AHP Construction, Inc. in the amount of $24,042,367.00 and authorizes the County Administrator to execute the Comprehensive Agreement on behalf of the County in a form approved by counsel retained by the County for this project.

Adopted this 1st day of November, 2016.

_____

Clerk of Board

DINWIDDIE COUNTY MUNICIPAL FACILITIES

ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

COMPREHENSIVE AGREEMENT DRAWINGS

EXHIBIT B

ARCHITECT

HBA ARCHITECTURE & INTERIOR DESIGN
One Columbus Center, Suite 1000
Virginia Beach, Virginia 23462
Phone: (757) 490-9048 Fax: (757) 490-7081

CIVIL ENGINEER

MSA PC
5033 Rouse Drive
Virginia Beach, Virginia 23462
Phone: (757) 490-9264

STRUCTURAL ENGINEER

SPEIGHT, MARSHALL & FRANCIS, P.C.
2125 McComas Way, Suite 103
Virginia Beach, Virginia 23456
Phone: (757) 427-1020 Fax: (757) 427-5919

PLUMBING - MECHANICAL - ELECTRICAL ENGINEER

PACE COLLABORATIVE PC
1277 Perimeter Pkwy
Virginia Beach, Virginia 23454
Phone: (757) 499-7223 Fax: (757) 301-6060

CONTRACTOR

ARMADA HOFFLER CONSTRUCTION CO.
249 Central Park Avenue, Suite 300
Virginia Beach, Virginia 23462
Phone: (757) 366-4000 Fax: (757) 523-0782

SCHEDULE OF DRAWINGS

GENERAL	
COVER SHEET	COVER SHEET
G001	LEGENDS AND ABBREVIATIONS
CIVIL	
V100	OVERALL EXISTING
CS100	OVERALL LAYOUT PLAN
CS200	OVERALL UTILITY PLAN
CG100	OVERALL GRADING PLAN
CG101	GRADING PLAN
CG102	GRADING PLAN
CG103	GRADING PLAN
CG104	GRADING PLAN
CG200	OVERALL STORMWATER PLAN
STRUCTURAL	
S001	STRUCTURAL NOTES
S002	STRUCTURAL NOTES AND ABBREVIATIONS
S101	FOUNDATION PLAN
S102	FOUNDATION PLAN NOTES AND LEGEND
S111	SECOND FLOOR AND LOW ROOF FRAMING PLAN
S112	PARTIAL SECOND FLOOR FRAMING PLAN
S121	HIGH ROOF FRAMING PLAN
S201	FRAMING ELEVATIONS
S501	TYPICAL DETAILS
S502	TYPICAL DETAILS
S503	TYPICAL DETAILS
S504	TYPICAL DETAILS
S505	TYPICAL DETAILS
ARCHITECTURAL	
A001	PARTITION TYPES
A101	FIRST FLOOR PLAN
A102	SECOND FLOOR PLAN
A111	FIRST FLOOR REFLECTED CEILING PLAN
A112	SECOND FLOOR REFLECTED CEILING PLAN
A201	BUILDING ELEVATIONS
A202	BUILDING ELEVATIONS
A301	BUILDING SECTIONS
A305	WALL SECTIONS
A601	DOOR SCHEDULE AND DETAILS
I101	FIRST FLOOR FINISH PLAN
I102	SECOND FLOOR FINISH PLAN

SCHEDULE OF DRAWINGS

FIRE PROTECTION	
FP001	GENERAL NOTES, LEGEND, AND ABBREVIATIONS
FP101	FIRST FLOOR PLAN
FP102	SECOND FLOOR PLAN
PLUMBING	
P001	LEGEND, NOTES, ABBREVIATIONS, DETAILS AND SCHEDULES
P101	FIRST FLOOR PLAN
P102	SECOND FLOOR PLAN
P401	ENLARGED PLANS
P402	ENLARGED PLANS
MECHANICAL	
M001	LEGEND, NOTES AND ABBREVIATIONS
M101	FIRST FLOOR PLAN
M102	SECOND FLOOR PLAN
M501	DETAILS
M502	DETAILS
M503	DETAILS
M601	SCHEDULES
ELECTRICAL	
E001	LEGEND, NOTES AND ABBREVIATIONS
E002	LEGEND, NOTES AND ABBREVIATIONS
E003	SITE PLAN
E101	FIRST FLOOR LIGHTING PLAN
E102	SECOND FLOOR LIGHTING PLAN
E201	FIRST FLOOR POWER PLAN
E202	SECOND FLOOR POWER PLAN
E203	ROOF POWER PLAN
E301	FIRST FLOOR SPECIAL SYSTEMS PLAN
E302	SECOND FLOOR SPECIAL SYSTEMS PLAN
E501	LIGHTING DETAILS
E502	LIGHTING DETAILS
E503	LIGHTING DETAILS
E504	LIGHTING DETAILS
E601	SPECIAL SYSTEMS RISER DIAGRAM
E602	SPECIAL SYSTEM DETAILS
E603	SPECIAL SYSTEM DETAILS
E604	SPECIAL SYSTEM DETAILS
E605	SPECIAL SYSTEM DETAILS
E607	SPECIAL SYSTEM DETAILS

HBA

COMPREHENSIVE AGREEMENT DRAWINGS

PROJECT NUMBER:	16062
DATE:	10/26/2016
SET NUMBER:	

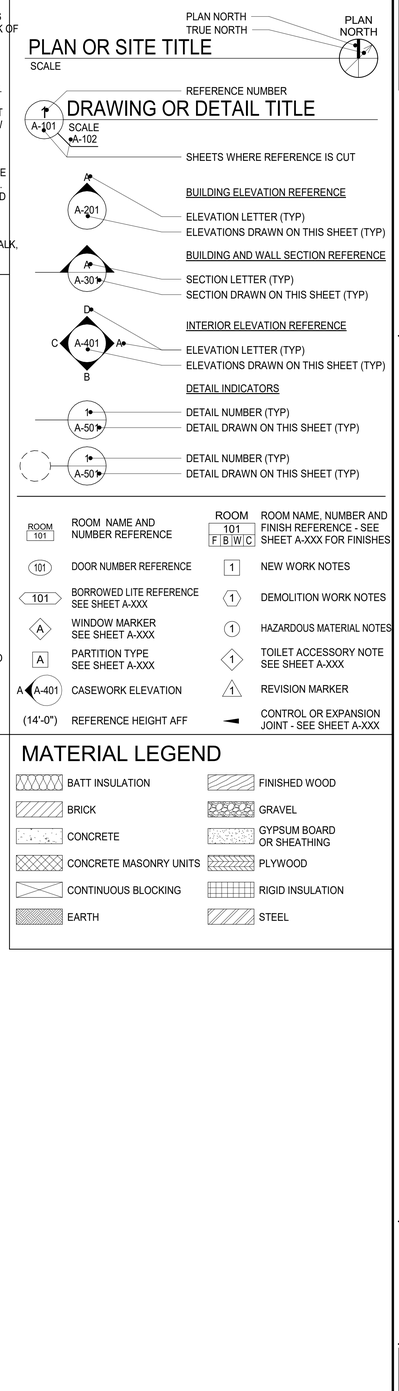
GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL COORDINATE THE WORK OF ALL TRADES. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT, IN WRITING, BEFORE CONTINUING WORK.
2. UNLESS OTHERWISE INDICATED, EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FOUNDATION WALL AND CENTERLINE OF STRUCTURAL COLUMNS. INTERIOR DIMENSIONS ARE TO FACE OF STUD AND CENTERLINE OF STRUCTURAL COLUMNS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT WHEN LAYOUT OF INTERIOR PARTITIONS IS COMPLETE AND SHALL REVIEW THE LAYOUT WITH THE ARCHITECT IN THE FIELD PRIOR TO INTERIOR PARTITION CONSTRUCTION.
3. ALL BUILT IN WOOD NAILERS, BLOCKING AND PLYWOOD CONCEALED IN THE FINISHED CONSTRUCTION SHALL BE FIRE RETARDANT TREATED, UL LABEL. MEMBERS IN CONTACT WITH THE MASONRY OR CONCRETE OR CONCEALED WITHIN THE EXTERIOR WALL OR ROOF ASSEBBLIES SHALL BE EXTERIOR GRADE FIRE RETARDANT TREATED, UL LABEL PER SPECIFICATIONS.
4. SEE CIVIL DRAWINGS FOR FINISH FLOOR AND GRADE ELEVATIONS, SIDEWALK, CURBS, ETC.

ABBREVIATIONS

ADA	AMERICANS W/ DISABILITIES
AFF	ABOVE FINISHED FLOOR
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ALUM	ALUMINUM
APPROX	APPROXIMATELY
BD	BOARD
BEJ	BUILDING EXPANSION JOINT
BTM	BOTTOM
CLR	CLEAR
CO	CLEAN OUT
CONC	CONCRETE
COORD	COORDINATE
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
CJ	CONTROL JOINT
D OR DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
EA	EACH
EWC	ELECTRIC WATER COOLER
EJ	EXPANSION JOINT
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EQUIP	EQUIPMENT
EXT	EXTERIOR
FD	FLOOR DRAIN
FRP	FIBERGLASS REINFORCED POLYESTER
FRT	FIRE RETARDENT TREATED
FEC	FIRE EXTINGUISHER CABINET
GA	GAUGE
GC	GENERAL CONTRACTOR
GYP	GYPSUM
GWB	GYPSUM WALL BOARD
INSUL	INSULATION
H	HEIGHT
HOR	HORIZONTAL
MANUF	MANUFACTURER
MECH	MECHANICAL
MIN	MINIMUM
MO	MASONRY OPENING
MTL	METAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
PLAM	PLASTIC LAMINATE
PNT	PAINT
PREFAB	PREFABRICATED
REINF	REINFORCED
RD	ROOF DRAIN
RO	ROUGH OPENING
SIM	SIMILAR
SQ	SQUARE
SS	STAINLESS STEEL
STRUCT	STRUCTURAL
TERM	TERMINATE
TOS	TOP OF STEEL
TOM	TOP OF MASONRY
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
W	WIDTH
WH	WATER HEATER

SYMBOL LEGEND



ROOM 101	ROOM NAME AND NUMBER REFERENCE	ROOM 101 F B W C	ROOM NAME, NUMBER AND FINISH REFERENCE - SEE SHEET A-XXX FOR FINISHES
101	DOOR NUMBER REFERENCE	1	NEW WORK NOTES
101	BORROWED LITE REFERENCE SEE SHEET A-XXX	1	DEMOLITION WORK NOTES
A	WINDOW MARKER SEE SHEET A-XXX	1	HAZARDOUS MATERIAL NOTES
A	PARTITION TYPE SEE SHEET A-XXX	1	TOILET ACCESSORY NOTE SEE SHEET A-XXX
A A-401	CASEWORK ELEVATION	1	REVISION MARKER
(14'-0")	REFERENCE HEIGHT AFF		CONTROL OR EXPANSION JOINT - SEE SHEET A-XXX

MATERIAL LEGEND

BATT INSULATION	FINISHED WOOD
BRICK	GRAVEL
CONCRETE	GYPSUM BOARD OR SHEATHING
CONCRETE MASONRY UNITS	PLYWOOD
CONTINUOUS BLOCKING	RIGID INSULATION
EARTH	STEEL

HBA ARCHITECTURE & INTERIOR DESIGN, INC.
ONE COLUMBUS CENTER, SUITE 1000
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FAX: (757) 490-7081

DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

LEGENDS AND ABBREVIATIONS

NOT FOR CONSTRUCTION

ISSUED FOR: MARK: DATE:
COMPREHENSIVE AGREEMENT SET 9/19/2016

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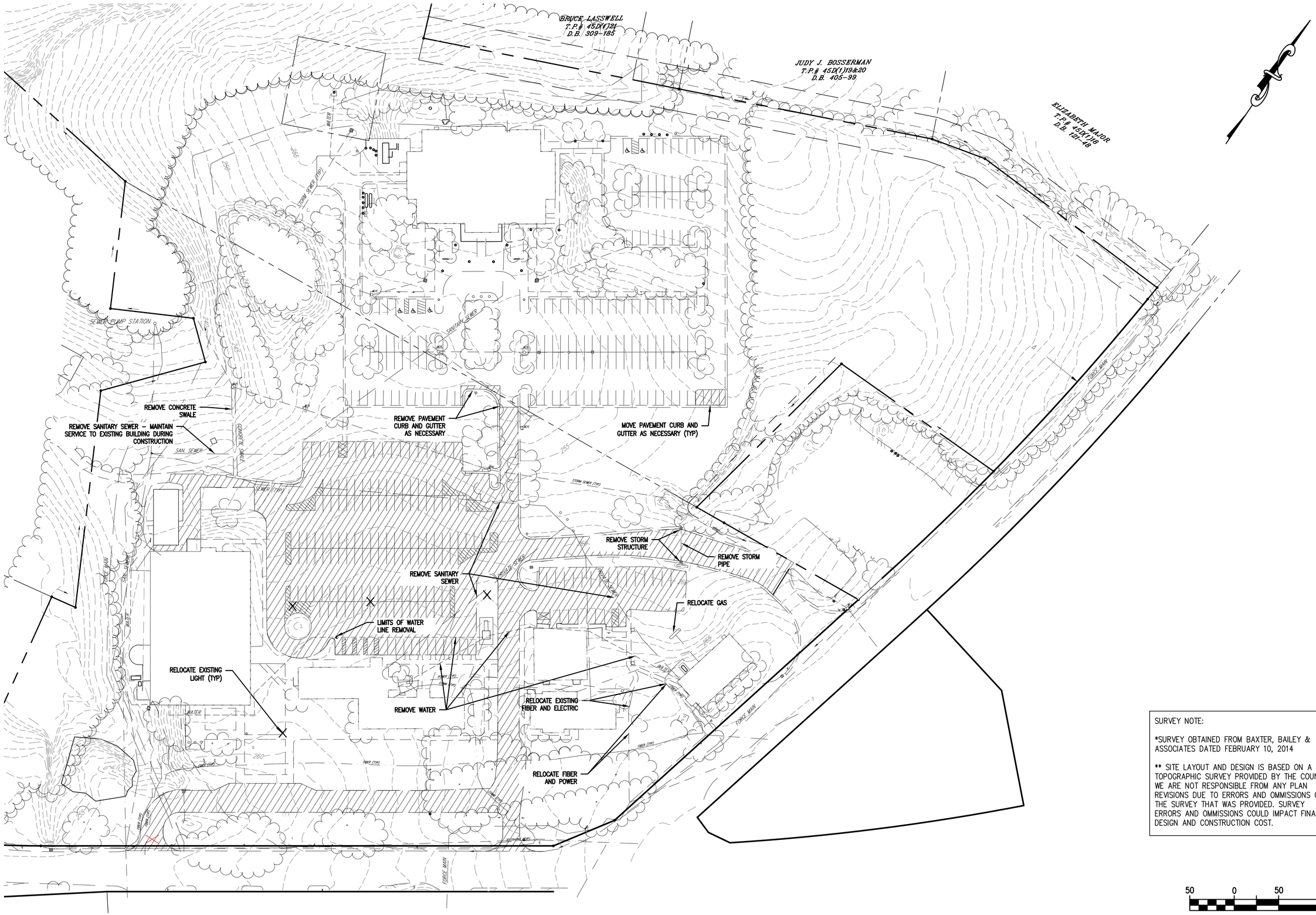

SURVEY NOTE:

*SURVEY OBTAINED FROM BAXTER, BAILEY & ASSOCIATES DATED FEBRUARY 10, 2014

** SITE LAYOUT AND DESIGN IS BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY THE COUNTY. WE ARE NOT RESPONSIBLE FROM ANY PLAN REVISIONS DUE TO ERRORS AND OMMISSIONS ON THE SURVEY THAT WAS PROVIDED. SURVEY ERRORS AND OMMISSIONS COULD IMPACT FINAL DESIGN AND CONSTRUCTION COST.

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DRAWN MJP
CHECKED DMW
APPROVED DMW
DATE 10/24/16

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1	DMW		FINAL PRICING REVIEW	9/2/2016
2	DMW		COMPREHENSIVE AGREEMENT SET	9/19/2016

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EXISTING CONDITIONS / DEMOLITION PLAN
FOR
DINWIDDIE COUNTY GOVERNMENT CENTER

DINWIDDIE VIRGINIA

SHEET
V-100
1 of 1 Sheets

SCALE: 1"=25'

PROJ. NO.: MI16-04

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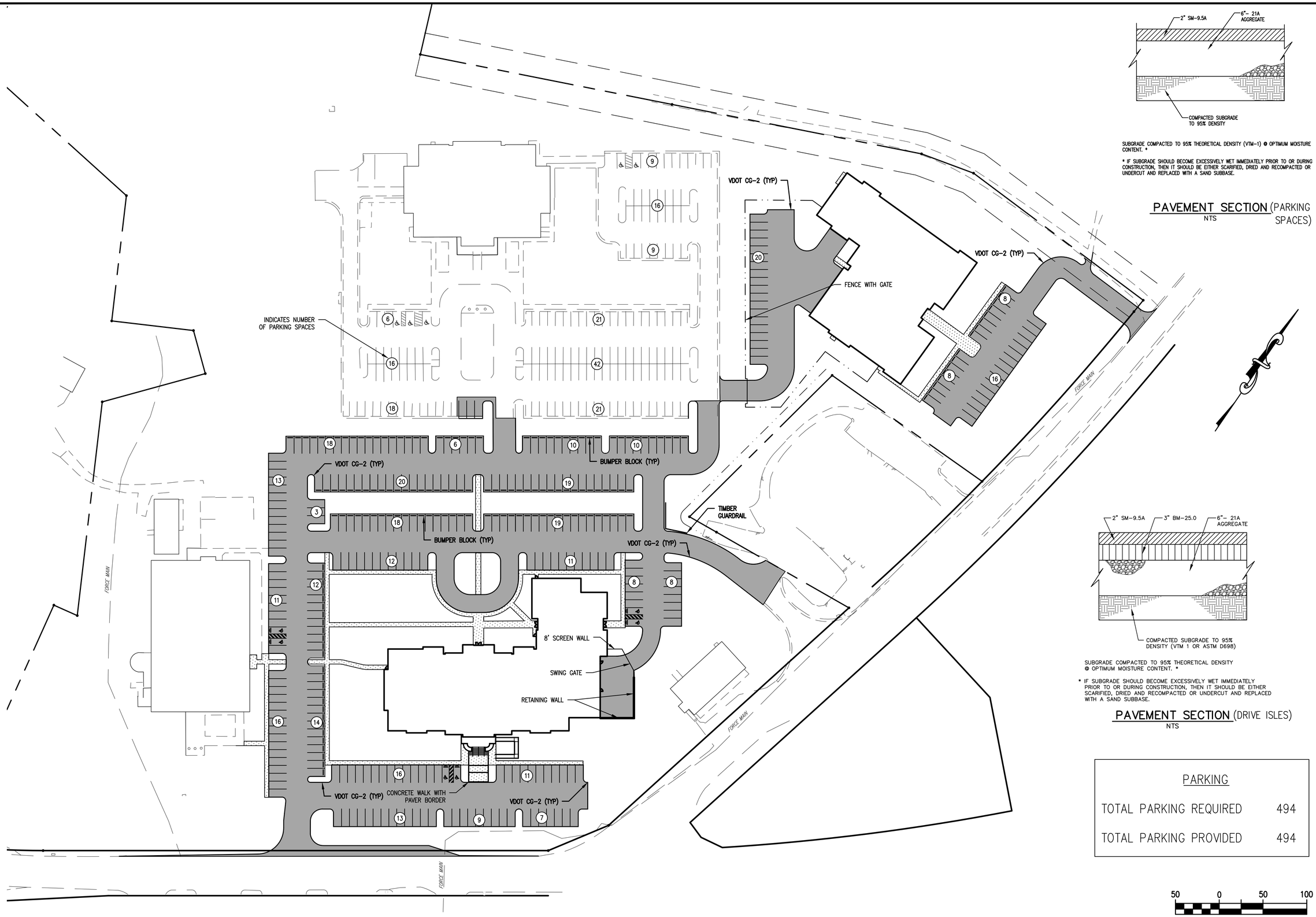

SUBGRADE COMPACTED TO 95% THEORETICAL DENSITY (VTM-1) @ OPTIMUM MOISTURE CONTENT. *

* IF SUBGRADE SHOULD BECOME EXCESSIVELY WET IMMEDIATELY PRIOR TO OR DURING CONSTRUCTION, THEN IT SHOULD BE EITHER SCARIFIED, DRIED AND RECOMPACTED OR UNDERCUT AND REPLACED WITH A SAND SUBBASE.

PAVEMENT SECTION (PARKING SPACES)

NTS

SUBGRADE COMPACTED TO 95% THEORETICAL DENSITY @ OPTIMUM MOISTURE CONTENT. *

* IF SUBGRADE SHOULD BECOME EXCESSIVELY WET IMMEDIATELY PRIOR TO OR DURING CONSTRUCTION, THEN IT SHOULD BE EITHER SCARIFIED, DRIED AND RECOMPACTED OR UNDERCUT AND REPLACED WITH A SAND SUBBASE.

PAVEMENT SECTION (DRIVE ISLES)

NTS

PARKING

TOTAL PARKING REQUIRED	494
TOTAL PARKING PROVIDED	494

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OVERALL LAYOUT PLAN
FOR
DINWIDDIE COUNTY GOVERNMENT CENTER

DINWIDDIE VIRGINIA

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SCALE: 1"=50'

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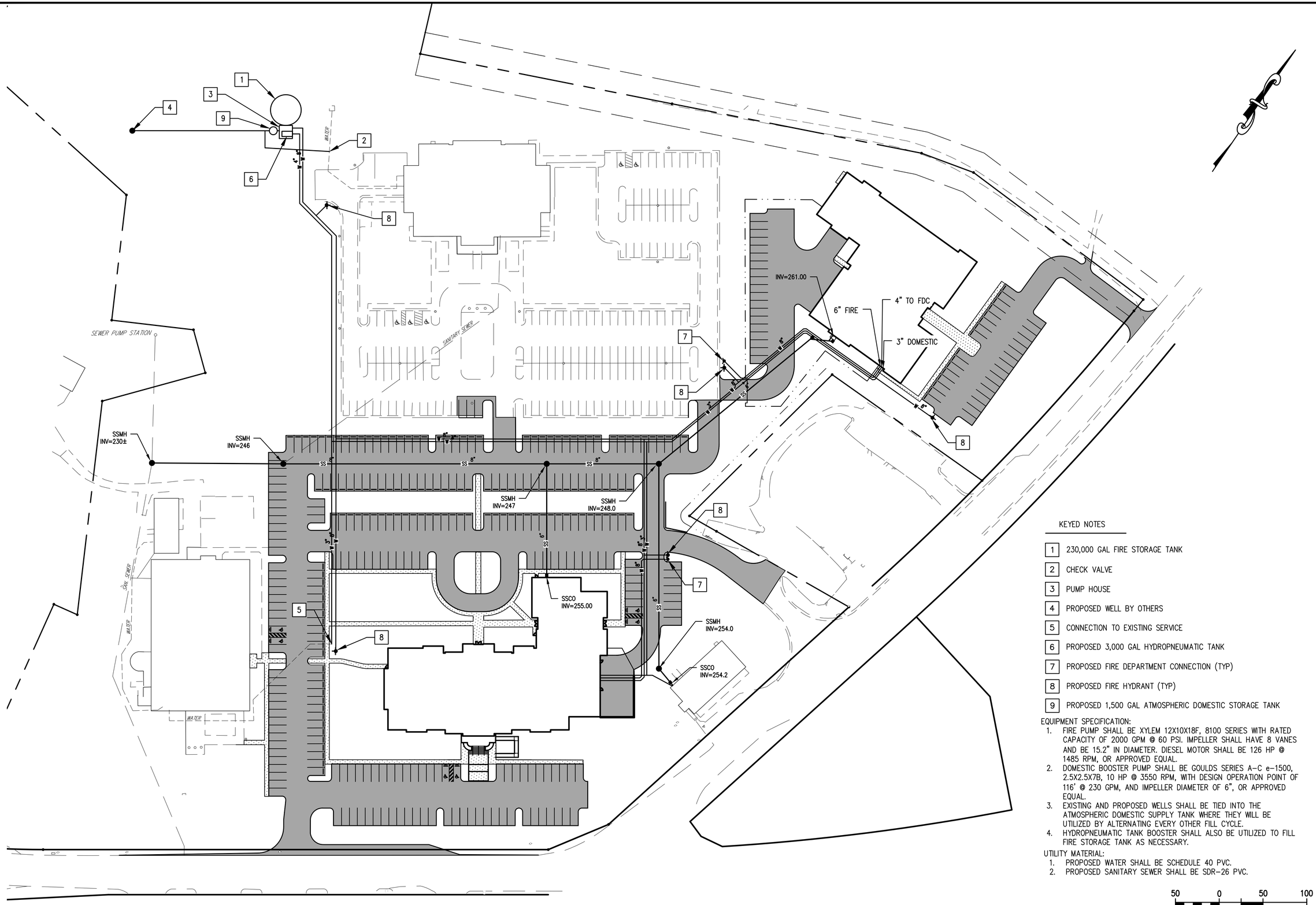

KEYED NOTES

1. 230,000 GAL FIRE STORAGE TANK
2. CHECK VALVE
3. PUMP HOUSE
4. PROPOSED WELL BY OTHERS
5. CONNECTION TO EXISTING SERVICE
6. PROPOSED 3,000 GAL HYDROPNEUMATIC TANK
7. PROPOSED FIRE DEPARTMENT CONNECTION (TYP)
8. PROPOSED FIRE HYDRANT (TYP)
9. PROPOSED 1,500 GAL ATMOSPHERIC DOMESTIC STORAGE TANK

EQUIPMENT SPECIFICATION:

1. FIRE PUMP SHALL BE XYLEM 12X10X18F, 8100 SERIES WITH RATED CAPACITY OF 2000 GPM @ 60 PSI. IMPELLER SHALL HAVE 8 VANES AND BE 15.2" IN DIAMETER. DIESEL MOTOR SHALL BE 126 HP @ 1485 RPM, OR APPROVED EQUAL.
2. DOMESTIC BOOSTER PUMP SHALL BE GOULDS SERIES A-C e-1500, 2.5X2.5X7B, 10 HP @ 3550 RPM, WITH DESIGN OPERATION POINT OF 116' @ 230 GPM, AND IMPELLER DIAMETER OF 6", OR APPROVED EQUAL.
3. EXISTING AND PROPOSED WELLS SHALL BE TIED INTO THE ATMOSPHERIC DOMESTIC SUPPLY TANK WHERE THEY WILL BE UTILIZED BY ALTERNATING EVERY OTHER FILL CYCLE.
4. HYDROPNEUMATIC TANK BOOSTER SHALL ALSO BE UTILIZED TO FILL FIRE STORAGE TANK AS NECESSARY.

UTILITY MATERIAL:

1. PROPOSED WATER SHALL BE SCHEDULE 40 PVC.
2. PROPOSED SANITARY SEWER SHALL BE SDR-26 PVC.

50 0 50 100

1 INCH = 50 FT

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OVERALL UTILITY PLAN
FOR
DINWIDDIE COUNTY GOVERNMENT CENTER

DINWIDDIE VIRGINIA

SHEET
CS200
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SCALE: 1"=50'

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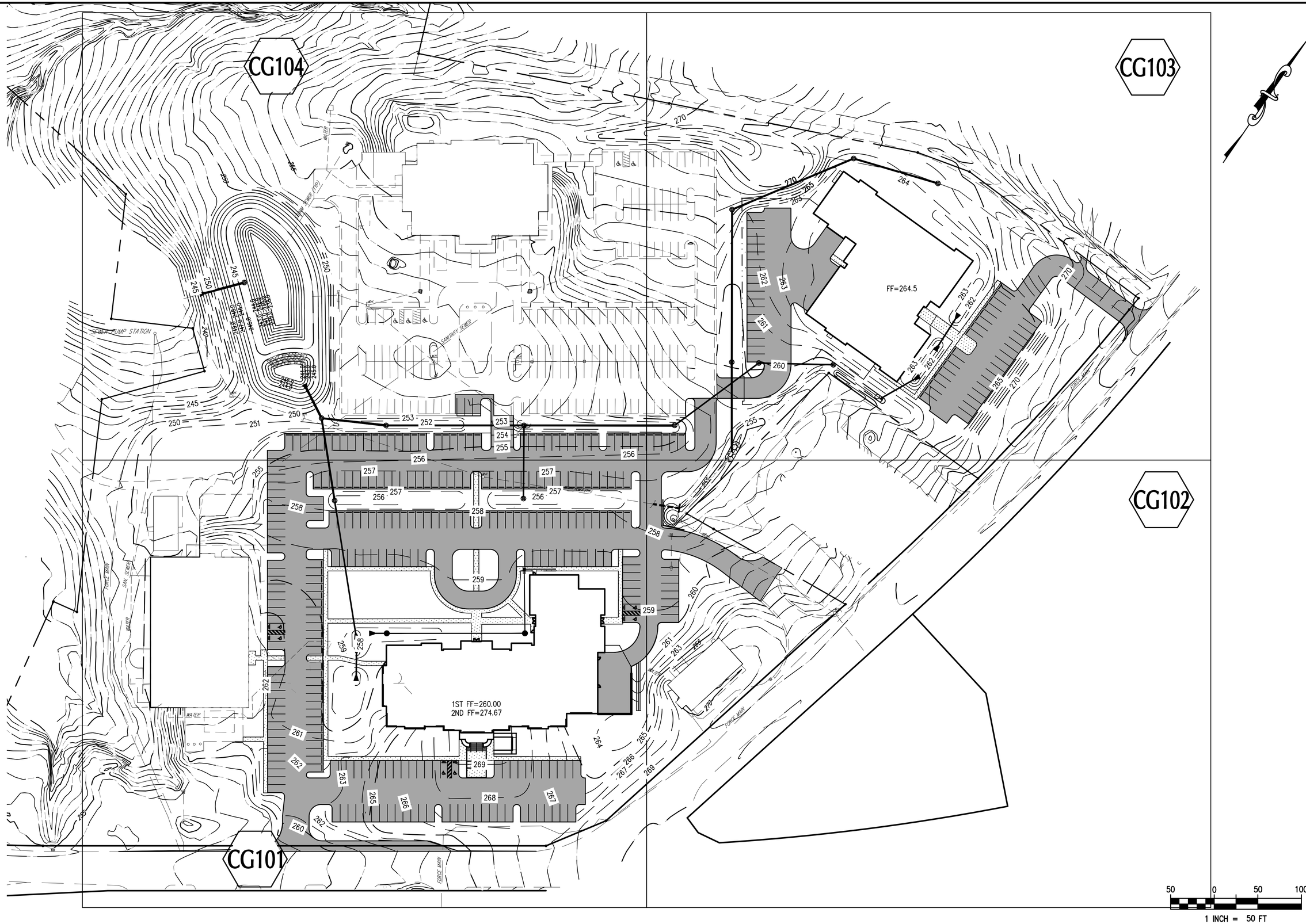

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OVERALL GRADING PLAN
FOR
DINWIDDIE COUNTY GOVERNMENT CENTER

DINWIDDIE VIRGINIA

SHEET
CG100
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SCALE: 1"=50'

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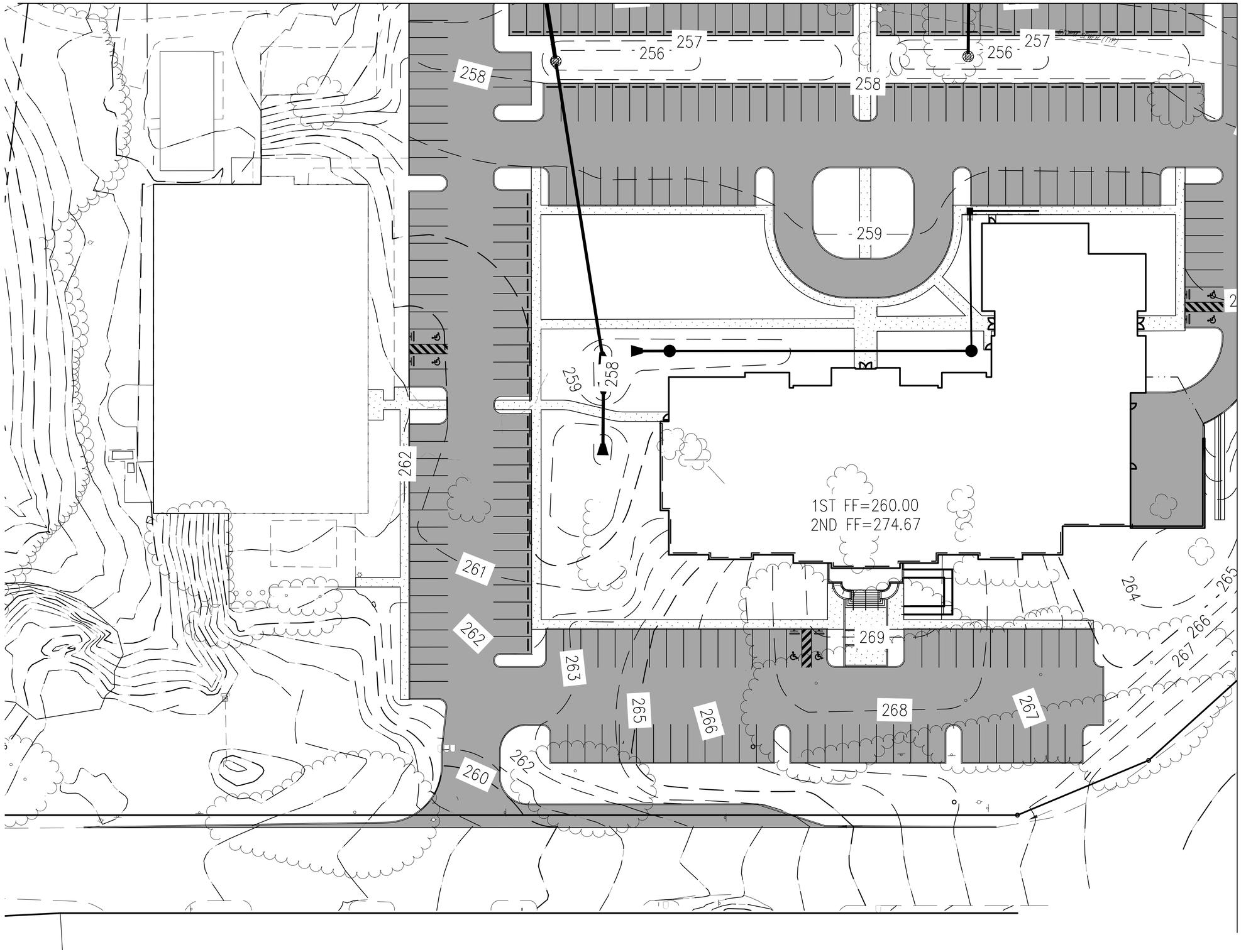

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GRADING PLAN
FOR
DINWIDDIE COUNTY GOVERNMENT CENTER

DINWIDDIE VIRGINIA

SHEET
CG101
1 of 1 Sheets

SCALE: 1"=25'

PROJ. NO.: MI16-04

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MATCHLINE – SEE SHEET CG103

MATCHLINE – SEE SHEET CG101

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GRADING PLAN
FOR
DINWIDDIE COUNTY GOVERNMENT CENTER

DINWIDDIE VIRGINIA

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SCALE: 1"=25'

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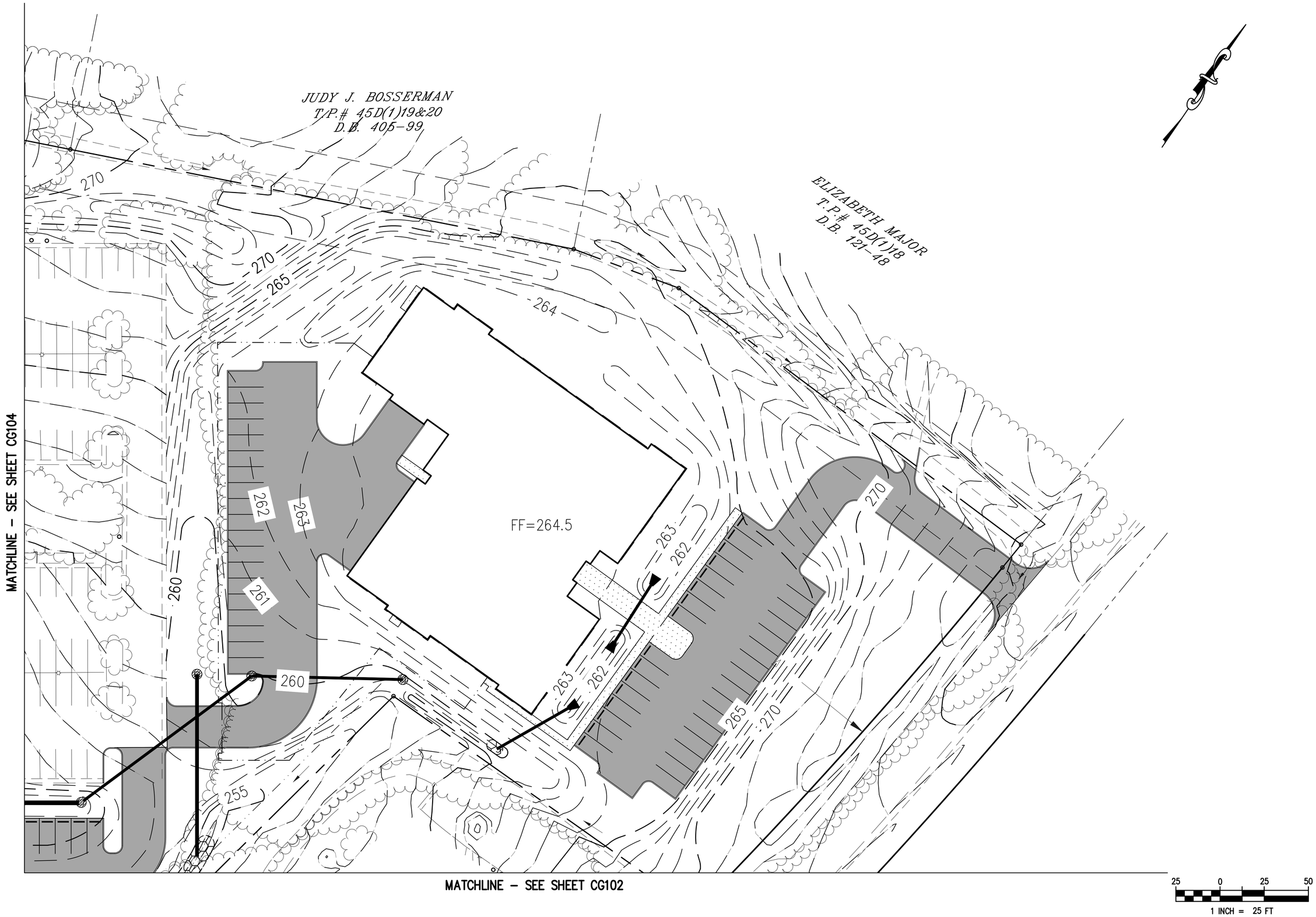

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GRADING PLAN
FOR
DINWIDDIE COUNTY GOVERNMENT CENTER
OPTION B

DINWIDDIE VIRGINIA

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SCALE: 1"=25'

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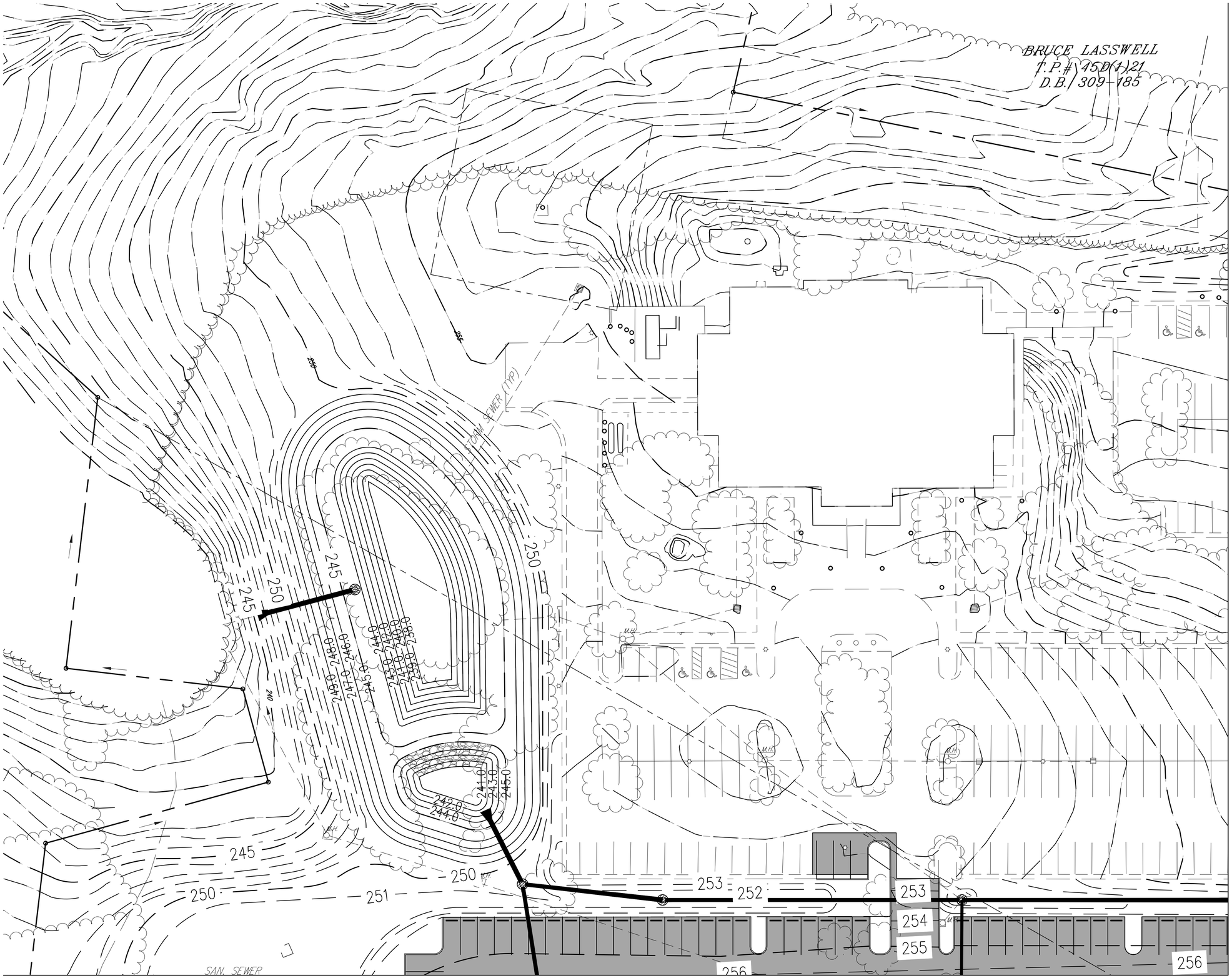

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COMMONWEALTH OF VIRGINIA
DOUGLAS M WILL
Lic. No.
028336
PROFESSIONAL ENGINEER

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GRADING PLAN
FOR
DINWIDDIE COUNTY GOVERNMENT CENTER

DINWIDDIE VIRGINIA

SHEET
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1 of 1 Sheets

SCALE: 1"=25'

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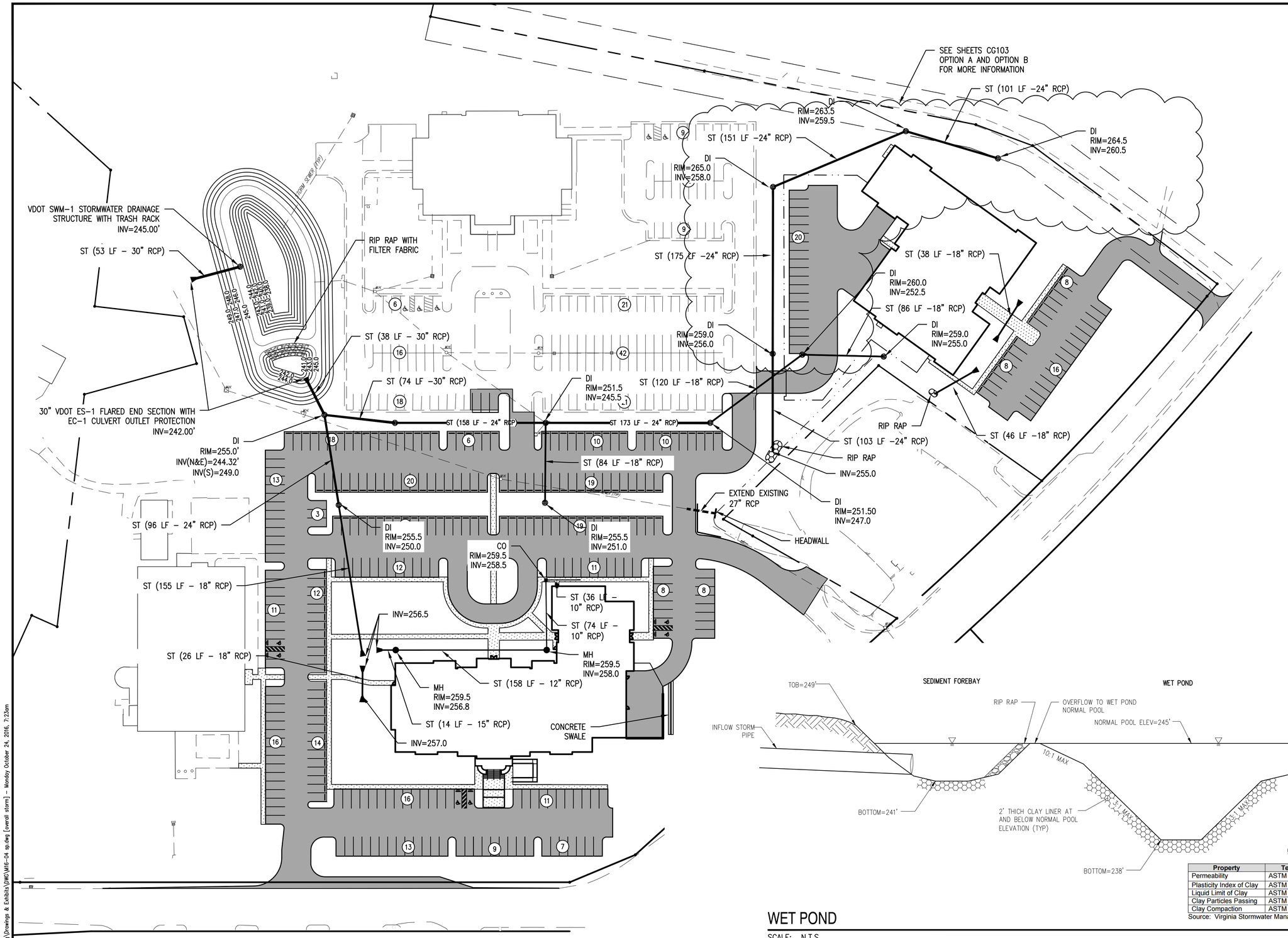

CLAY LINER SPECIFICATIONS

Property	Test Method	Unit	Specification
Permeability	ASTM D-2434	Cm/sec	1×10^{-6}
Plasticity Index of Clay	ASTM D-423/424	%	Not less than 15
Liquid Limit of Clay	ASTM D-2216	%	Not less than 30
Clay Particles Passing	ASTM D-422	%	Not less than 30
Clay Compaction	ASTM D-2216	%	95% of standard proctor density

Source: Virginia Stormwater Management Handbook (1999)

WET POND

SCALE: N.T.S.

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OVERALL STORMWATER PLAN
FOR
DINWIDDIE COUNTY GOVERNMENT CENTER

DINWIDDIE VIRGINIA

SHEET
CG200
1 of 1 Sheets

SCALE: 1"=50'

PROJ. NO.: MI16-04

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GENERAL NOTES:

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION, AS ADOPTED BY THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, 2012 EDITION.

3. THE WORK UNDER THE FOLLOWING SPECIFICATION SECTIONS IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN SECTION 1704 OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION.
   A. 312000 - EARTHWORK
   B. 033000 - CAST-IN-PLACE CONCRETE
   C. 042000 - UNIT MASONRY
   D. 051200 - STRUCTURAL STEEL
   E. 052100 - STEEL JOISTS
   F. 053100 - STEEL DECK
   G. 054000 - COLD-FORMED METAL FRAMING

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

5. BEFORE PROCEEDING WITH WORK WITHIN THE EXISTING STRUCTURE THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING STRUCTURAL CONDITIONS. THE SHORING AND BRACING SHOWN IS A PARTIAL AND SCHEMATIC REPRESENTATION OF THAT REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SAFEGUARDS NECESSARY TO PROTECT THE EXISTING STRUCTURE FROM DAMAGE.

6. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND OTHER REQUIREMENTS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS.

7. THE PROJECT SPECIFICATIONS ARE NOT SUPERSEDED BY THE STRUCTURAL NOTES BUT ARE INTENDED TO BE COMPLEMENTARY TO THEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS IN EACH SECTION.

8. SPECIFIC NOTES AND SPECIFIC DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER STRUCTURAL NOTES AND TYPICAL DETAILS.

9. CONSULTANTS' DRAWINGS, INCLUDING STRUCTURAL DRAWINGS, ARE CONSIDERED SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. ANY OMISSIONS OR CONFLICTS, INCLUDING DIMENSIONS, BETWEEN VARIOUS ELEMENTS OF THE CONSULTANTS' DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

10. THE DOCUMENTS DEFINING THE STRUCTURE ARE INSTRUMENTS OF SERVICE PREPARED BY SPEIGHT, MARSHALL AND FRANCIS, P.C. FOR ONE USE ONLY. THE STRUCTURAL DOCUMENTS SHALL NOT BE REPRODUCED, OR COPIED, IN WHOLE OR IN PART BY THE CONTRACTOR OR SUBCONTRACTORS FOR PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.

11. LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:

A. LIVE LOADS:

SLAB-ON-GRADE	100 PSF
OFFICES	50 PSF
(PLUS 15 PSF PARTITION ALLOWANCE)	
LOBBIES	100 PSF
CORRIDORS ABOVE FIRST FLOOR	80 PSF
CORRIDORS ON FIRST FLOOR	100 PSF
STAIRWAYS	100 PSF
ROOF	20 PSF
STORAGE	125 PSF

B. SNOW DESIGN DATA:

GROUND SNOW LOAD	20 PSF
EXPOSURE FACTOR	1.0
SNOW IMPORTANCE FACTOR	1.0
THERMAL FACTOR	1.0
FLAT ROOF SNOW LOAD	14 PSF
RAIN-ON-SNOW SURCHARGE LOAD	5 PSF

C. WIND DESIGN DATA:

ULTIMATE DESIGN WIND SPEED	115 MPH
NOMINAL DESIGN WIND SPEED	90 MPH
RISK CATEGORY	II
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	0.18
COMPONENTS AND CLADDING DESIGN PRESSURES	
(ZONE 1 WITH 10 SF TRIBUTARY AREA)	35 PSF
(ZONE 4 WITH 10 SF TRIBUTARY AREA)	30 PSF

D. SEISMIC DESIGN DATA:

RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR	1.0
SS	0.010g
S1	0.06g
SITE CLASS	D
SDS	0.107g
SD1	0.096g
SEISMIC DESIGN CATEGORY	B
DESIGN BASE SHEAR	100 KIPS
SEISMIC RESPONSE COEFFICIENT	1.5
RESPONSE MODIFICATION FACTOR	0.042
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

BASIC SEISMIC-FORCE-RESISTING SYSTEM IS ORDINARY REINFORCED MASONRY SHEAR WALLS AND ORDINARY STEEL CONCENTRICALLY BRACED FRAMES

12. MECHANICAL UNIT WEIGHTS AND LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS AND WEIGHTS SHOWN AND REPORT DISCREPANCIES TO THE ARCHITECT.

FOUNDATION NOTES:

1. FOUNDATIONS FOR THIS STRUCTURE HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE PRELIMINARY GEOTECHNICAL EXPLORATION REPORT, PREPARED BY ATLANTIC GEOTECHNICAL SERVICES, DATED NOVEMBER 18, 2013.

2. FOUNDATIONS HAVE BEEN DESIGNED FOR A BEARING PRESSURE OF 2,500 PSF.

3. PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER TO EXPLORE THE EXTENT OF LOOSE, SOFT OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. THE GEOTECHNICAL ENGINEER WILL PROVIDE DIRECTION FOR CORRECTIVE ACTION WHERE REQUIRED.

4. NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.

5. FROST LINE DEPTH IS 1'-6" BELOW GRADE. BOTTOM OF ALL EXTERIOR FOUNDATIONS SHALL BE A MINIMUM OF 1'-6" BELOW EXTERIOR FINISHED GRADE ELEVATION.

CAST-IN-PLACE CONCRETE NOTES:

1. CAST-IN-PLACE CONCRETE FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-11) AND COMMENTARY (ACI 318R-11)".

2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:

A.	SLAB-ON-GRADE	3,500 PSI
B.	SUPPORTED FLOOR SLABS	4,000 PSI
C.	COLUMNS PEDESTALS AND WALLS	4,000 PSI
D.	CONCRETE NOT OTHERWISE NOTED	3,000 PSI

3. REINFORCING MATERIALS SHALL BE AS FOLLOWS:
   A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.
   B. WELDED WIRE FABRIC - ASTM A1064, WELDED STEEL WIRE FABRIC.

4. ALL REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE ACCURATELY PLACED IN THE POSITIONS SHOWN AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.

5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS INDICATED ON THE DRAWINGS SHALL GOVERN WHEN IN CONFLICT WITH ACI 318-11.

6. UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS:
   A. LAP SPLICE LENGTHS SHALL COMPLY WITH 'CAST-IN-PLACE CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE' ON SHEET S-002
   B. USE TENSION BAR LAP SPLICE LENGTHS
   C. SPLICES MAY BE MADE WITH MECHANICAL SPLICES (AT CONTRACTOR'S OPTION). MECHANICAL SPLICES SHALL BE:
      1. CAPABLE OF RESISTING 125% OF THE TENSION CAPACITY OF THE SPLICED BAR
      2. POSITIVE-CONNECTING TYPE COUPLERS
      3. SUBMITTED FOR REVIEW
      4. STAGGERED A MINIMUM OF 24" ALONG THE LONGITUDINAL AXIS OF ADJACENT BARS.

CONCRETE MASONRY NOTES:

1. CONCRETE MASONRY FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530-11 / ASCE 5-11 / TMS 402-11.

2. CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1-11 / ASCE 6-11 / TMS 602-11.

3. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND BE MADE WITH LIGHTWEIGHT AGGREGATE. THE COMPRESSIVE STRENGTH OF MASONRY, F'm, EXPRESSED AS FORCE PER UNIT OF NET CROSS-SECTIONAL AREA, SHALL BE 2,000 PSI AT 28 DAYS.

4. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.

5. GROUT SHALL COMPLY WITH ASTM C476 OR IBC SECTION 2103.13, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI.

6. MORTAR SHALL COMPLY WITH ASTM C270, TYPE S OR M. AGGREGATE FOR MORTAR SHALL COMPLY WITH ASTM C144. AGGREGATE FAILING TO COMPLY WITH ASTM C144 GRADATION REQUIREMENTS MAY BE USED PROVIDED THE MORTAR CAN BE PREPARED TO COMPLY WITH THE AGGREGATE RATIO, WATER RETENTION, AND COMPRESSIVE STRENGTH REQUIREMENTS OF THE PROPERTY SPECIFICATIONS OF ASTM C270. USE TYPE M BELOW GRADE AND TYPE S ABOVE GRADE (UNLESS CELLS ARE GROUTED SOLID).

7. VERTICAL REINFORCING BARS SHALL BE THE GIVEN SIZE AND SPACING SHOWN. LAP REINFORCING AT ALL SPLICES AS FOLLOWS:

#3 - 19"	#6 - 52"	#9 - 119"
#4 - 25"	#7 - 67"	#10 OR LARGER -
#5 - 31"	#8 - 93"	'MECHANICALLY SPLICED'

8. REBAR DOWELS SHALL BE THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM FOUNDATION. DOWELS SHALL HAVE STANDARD ACI HOOKS.

9. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR THE BOND BEAMS AT JOIST BEARING ELEVATIONS. HORIZONTAL BOND BEAMS SHALL HAVE CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. INTERMEDIATE BOND BEAMS SHALL CONFORM WITH THE MAXIMUM SPACING OF HORIZONTAL REINFORCING SHOWN IN SCHEDULE ON SHEET [*].

10. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD 9 GAGE LADDER TYPE IN CMU WALLS AT 16" ON-CENTER. JOINT REINFORCING SHALL COMPLY WITH ASTM A951 AND BE HOT-DIPPED GALVANIZED ACCORDING TO ASTM A153, CLASS B.

11. GROUT ALL CELLS SOLID BELOW FINISHED FIRST FLOOR.

12. VERTICAL REINFORCING SHALL HAVE BAR POSITIONERS AT SPACING NOT TO EXCEED 200 BAR DIAMETERS, AT GROUT LIFT HEIGHTS, OR BAR SPLICE LOCATIONS, WHICHEVER IS LESS.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOURTEENTH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360-10) "STEEL CONSTRUCTION MANUAL" - ALLOWABLE STRESS DESIGN.

2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
   A. STRUCTURAL STEEL W- AND WT-SHAPES - ASTM A992, Fy=50 KSI
   B. RECTANGULAR AND SQUARE HSS - ASTM A500, GRADE B, Fy=46 KSI
   C. ANCHOR RODS - ASTM F1554, GRADE 36 (WELDABLE)
   D. CHECKERED PLATE - ASTM A786, Fy = 36 KSI MINIMUM
   E. HEADED STUDS - ASTM A 108, GRADES 1015 THROUGH 1020, TYPE B, Fu=65 KSI
   F. ALL OTHER STRUCTURAL STEEL SHAPES, PLATES AND BARS - ASTM A36, Fy=36 KSI (UNLESS OTHERWISE NOTED)

3. THE SUPPORTED FLOORS FOR THIS STRUCTURE HAVE BEEN DESIGNED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR UNSHORED CONSTRUCTION.

4. UNLESS OTHERWISE NOTED, ALL BEAM CONNECTIONS SHALL BE ACCORDING TO "TYPICAL BOLTED WEB PLATE CONNECTION DETAILS" ON SHEET S__ USING ASTM A325 BOLTS.

5. BRACED FRAME CONNECTIONS SHALL BE DESIGNED AND DETAILED FOR THE FORCES INDICATED ON THE DRAWINGS. CONNECTIONS SHALL COMPLY WITH THE "STEEL CONSTRUCTION MANUAL", ALLOWABLE STRESS DESIGN. CONNECTIONS MAY BE WELDED OR BOLTED USING SLIP CRITICAL BOLTS. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF VIRGINIA FOR ALL BRACED FRAME CONNECTIONS NOT DETAILED ON THE CONSTRUCTION DOCUMENTS.

6. HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF FULL PRETENSIONING, EXCEPT FOR THE FOLLOWING CONNECTIONS WHICH SHALL BE FULLY PRETENSIONED:
   A. SLIP-CRITICAL CONNECTIONS (SC) IDENTIFIED ON DRAWINGS. PROVIDE CLASS [A] CONTACT SURFACE FOR SLIP-CRITICAL CONNECTIONS.
   B. DIRECT TENSION CONNECTIONS IDENTIFIED AS (DT) ON DRAWINGS.

7. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL". WELD ELECTRODES SHALL BE E70XX. CONTINUOUS 3/16" FILLET WELDS ARE REQUIRED UNLESS OTHERWISE NOTED.

8. SEE THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL STEEL (IF ANY) NOT SHOWN ON THE STRUCTURAL DRAWINGS.

9. UNLESS OTHERWISE NOTED, THE TOP OF ALL STEEL COLUMNS SHALL HAVE A STEEL CAP PLATE. UNLESS OTHERWISE DETAILED OR NOTED, MINIMUM CAP PLATE DIMENSIONS SHALL MATCH COLUMN WIDTH AND DEPTH, AND MINIMUM THICKNESS OF CAP PLATE SHALL EQUAL COLUMN WEB THICKNESS (1/2" MIN).

10. UNLESS OTHERWISE NOTED, ATTACH BLOCKING AND NAILERS TO STEEL FRAMING USING 3/16" DIAMETER POWDER ACTUATED FASTENERS AT 24" ON-CENTER OR 1/2" DIAMETER BOLTS AT 48" ON-CENTER. STAGGER FASTENERS TO ALTERNATE SIDES OF BEAM WEB.

11. STRUCTURAL STEEL NOTED TO BE GALVANIZED SHALL CONFORM TO ASTM A123 OR ASTM A153. GALVANIZE AFTER FABRICATION WHERE PRACTICAL. REPAIR DAMAGED GALVANIZED COATING USING ASTM A780 ZINC-RICH PAINT.

12. APPLY NO PAINT OR PRIMER ON STRUCTURAL STEEL SURFACES RECEIVING SPRAYED FIRE-RESISTIVE MATERIALS. SEE THE ARCHITECTURAL DRAWINGS FOR EXTENTS OF SPRAYED FIRE RESISTIVE MATERIALS.

STEEL JOIST NOTES:

1. STEEL JOISTS SHALL CONFORM TO THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS.

2. PREPARE AND SUBMIT FOR REVIEW SHOP DRAWINGS SHOWING THE LAYOUT OF JOIST MEMBERS, SPECIAL CONNECTIONS, JOINING AND ACCESSORIES. INCLUDE MARK, NUMBER, TYPE, LOCATION AND SPACING OF JOISTS AND BRIDGING.

3. THE JOIST MANUFACTURER SHALL BE RESPONSIBLE FOR CONTINUOUS JOIST BRIDGING LINES SATISFYING THE REQUIREMENTS OF THE SJI SPECIFICATION FOR THE TOP AND BOTTOM CHORDS OF ALL STEEL JOISTS, AS WELL AS ANY ADDITIONAL BRIDGING / BRACING SHOWN ON THE DRAWINGS OR REQUIRED FOR JOISTS SUBJECTED TO NET UPLIFT OR OTHER SPECIAL LOADS. ALL REQUIRED JOIST BRIDGING SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS. CROSS-BRIDGING IS REQUIRED AT CHANGES OF JOIST DEPTHS AND AT ENDS OF ALL BRIDGING LINES UNLESS SUCH ENDS ARE PROPERLY ANCHORED INTO INTERSECTING INTERIOR OR END WALLS. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE PLACING OF ANY CONSTRUCTION LOADS ON THE JOISTS.

4. ROOF JOISTS SHALL BE DESIGNED FOR A NET UPLIFT LOAD INDICATED BELOW. UPLIFT LOAD BASED ON COMPONENT AND CLADDING WIND LOAD WITH 50 SQ. FOOT EFFECTIVE AREA. ROOF ZONE 3 IS 10 FOOT BY 10 FOOT CORNER AREA, ZONE 2 IS A CONTINUOUS 10 FOOT WIDE STRIP ALONG EXTERIOR WALLS (EXCLUDING AREA DEFINED AS ZONE 3) AND ZONE 1 IS ALL OTHER ROOF AREAS.

A.	ZONE 1	25 PSF
B.	ZONE 2	35 PSF
C.	ZONE 3	50 PSF

ONE-THIRD STRESS INCREASE NOT PERMITTED FOR LOAD COMBINATIONS INVOLVING WIND PER IBC SECTION 1605.3.1.1.

5. STEEL JOISTS DESIGNATED "SP" ON PLANS ARE SPECIAL JOISTS WHICH SHALL BE DESIGNED FOR THE SPECIAL CRITERIA INDICATED. JOIST MANUFACTURER SHALL SUBMIT CALCULATIONS FOR SPECIAL JOISTS.

6. WHERE JOIST SPAN EQUALS 40 FEET OR GREATER JOIST SHALL BE ERECTION BOLTED TO STEEL BEAM UNLESS PANELIZED JOIST ERECTION IS EMPLOYED. GENERAL CONTRACTOR SHALL COORDINATE BOLT HOLE LOCATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS.

7. CONCENTRATED LOADS NOT LOCATED AT JOIST PANEL POINTS SHALL BE REINFORCED PER 'TYPICAL DETAIL AT CONCENTRATED LOADS ON JOISTS'.

8. UNLESS OTHERWISE NOTED ON THE FRAMING PLANS, JOIST SEAT DEPTHS SHALL BE AS FOLLOWS:
   A. 2-1/2" DEEP SEATS AT 'K' SERIES JOISTS
   B. 5" DEEP SEATS AT 'LH' AND 'DLH' SERIES JOISTS

9. APPLY NO PAINT OR PRIMER ON SURFACES OF STEEL JOISTS AND JOIST ACCESSORIES RECEIVING SPRAYED FIRE-RESISTIVE MATERIALS. SEE THE ARCHITECTURAL DRAWINGS FOR EXTENTS OF SPRAYED FIRE-RESISTIVE MATERIALS.

STEEL DECK NOTES:

1. STEEL DECK SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND THE STEEL DECK INSTITUTE (SDI), "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS."

2. STEEL DECK UNITS SHALL COMPLY WITH THE FOLLOWING:
   A. 1-1/2" ROOF DECK SHALL BE 22 GAGE PAINTED GALVANIZED TYPE B RIB DECK SPANNING PERPENDICULAR TO SUPPORTS UNLESS OTHERWISE NOTED. ATTACH DECK TO STRUCTURAL STEEL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS AT EVERY RIB, INCLUDING RIBS WHERE SIDELAPS OCCUR AT EVERY OTHER RIB AND ALL RIBS WHERE SIDELAPS OCCUR. FASTEN ADJACENT DECK UNITS WITH #10 SELF-TAPPING HEX HEAD SCREWS AT 1/3 POINTS BETWEEN SUPPORTS ALONG SIDELAPS AND FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH 5/8" DIAMETER PUDDLE WELDS AT SAME SPACING AS SIDELAP FASTENERS.
   B. 2" COMPOSITE DECK SHALL BE 20 GAGE GALVANIZED TYPE VLI COMPOSITE FLOOR DECK SPANNING PERPENDICULAR TO SUPPORTS UNLESS OTHERWISE NOTED. ATTACH DECK TO STRUCTURAL STEEL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS AT EVERY RIB INCLUDING RIBS WHERE SIDELAPS OCCUR. FASTEN ADJACENT DECK UNITS WITH #10 SELF-TAPPING HEX HEAD SCREWS AT 1/3 POINTS BETWEEN SUPPORTS ALONG SIDELAPS AND FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH 5/8" DIAMETER PUDDLE WELDS AT SAME SPACING AS SIDELAP FASTENERS.

3. SHEAR CONNECTORS FOR COMPOSITE FLOOR SYSTEMS SHALL BE 3/4" DIAMETER x 3-1/2" LONG HEADED STUDS, CONFORMING TO ASTM A 108, GRADES 1015 THROUGH 1020, TYPE B, Fu=65 KSI. HEADED STUDS SHALL BE AS SHOWN ON PLANS AND DETAILS.

4. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL". FIELD WELDS SHALL BE WIRE BRUSHED AND PRIMED PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS.

5. DECK OPENINGS MEASURING GREATER THAN 12" ON ANY SIDE SHALL HAVE SUPPORTS ON ALL SIDES OF OPENING. SUPPORTS SHALL SPAN BETWEEN ADJACENT BEAMS OR JOISTS ON TWO SIDES. UNLESS OTHERWISE NOTED OR DETAILED ON THE DRAWINGS, USE 5x5x5/16" ANGLES FOR SPANS EXCEEDING 6'-0" AND 3x3x1/4" ANGLES FOR SPANS LESS THAN 6'-0". COORDINATE OPENING SIZES, LOCATIONS AND DETAILS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

6. PERMANENT SUSPENDED LOADS SUCH AS SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, OR OTHER UTILITIES, SHALL NOT BE SUPPORTED BY STEEL ROOF DECK.

7. DURING STEEL DECK ERECTION, ROOFING AND CONCRETING OPERATIONS DISTRIBUTE CONSTRUCTION LOADS TO PREVENT DAMAGE TO DECK. CONCENTRATED CONSTRUCTION LOADS OF 200 POUNDS OR LESS DISTRIBUTED OVER A 1'-0" WIDE SECTION OF DECK SHALL NOT REQUIRE ANY FURTHER DISTRIBUTION. USE WORKING PLATFORMS FOR CONCENTRATED CONSTRUCTION LOADS OF OVER 200 POUNDS, SUCH THAT THE RESULTING UNIFORM CONSTRUCTION LOAD ON THE DECK DOES NOT EXCEED 50 PSF.

8. DURING POURING OF CONCRETE OVER FLOOR FORM DECKS TAKE CARE TO AVOID EXCESSIVE CONCRETE HEAPING. POUR CONCRETE OVER BEAMS AND SPREAD TO THE CENTER OF THE DECK.

9. ANY MAN-LIFT (OR OTHER CONSTRUCTION EQUIPMENT) PLACED ON THE CONCRETE ON METAL DECK SHALL HAVE A TOTAL OPERATIONAL WEIGHT (GROSS WEIGHT PLUS PLATFORM CAPACITY) NOT IN EXCESS OF WEIGHT SHOWN BELOW. A BAY OF FRAMING SHALL NOT HAVE MORE THAN ONE PIECE OF CONSTRUCTION EQUIPMENT IN IT AT ANY GIVEN TIME. A BAY OF FRAMING IS DEFINED AS THE AREA CONFINED BY FOUR COLUMNS.
   A. 3,500 POUNDS MAX. TOTAL WEIGHT AT CONCRETE ON METAL DECK REINFORCED WITH REBAR, AND SUPPORTED BY COMPOSITE STRUCTURAL STEEL W-SHAPES.
   B. 2,000 POUNDS MAX. TOTAL WEIGHT AT ALL OTHER AREAS OF CONCRETE ON METAL DECK REINFORCED WITH WELDED WIRE FABRIC (OR SYNTHETIC FIBERS).
   C. EQUIPMENT WEIGHTS EXCEEDING THOSE ABOVE SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. SUBMITTAL SHALL INCLUDE EQUIPMENT WHEEL LOADS, WHEEL DIMENSIONS, AND THE AREAS OF PROJECT WHERE THE EQUIPMENT WILL BE USED.

10. PREPARE AND SUBMIT SHOP DRAWINGS FOR REVIEW SHOWING THE LAYOUT AND TYPES OF DECK UNITS, ANCHORAGE DETAILS AND CONDITIONS REQUIRING CLOSURE STRIPS, SUPPLEMENTARY FRAMING AND OTHER ACCESSORIES.

11. TOUCH-UP ALL SCARRED, ABRADED, AND RUST AREAS IN STEEL DECK IN ACCORDANCE WITH THE SPECIFICATIONS.

COLD-FORMED METAL FRAMING NOTES:

1. COLD-FORMED METAL FRAMING FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "COLD-FORMED STEEL DESIGN MANUAL".

2. COLD-FORMED METAL FRAMING MEMBERS SHALL BE FORMED OF CORROSION-RESISTANT STEEL CONFORMING TO ASTM A653 WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR TRACKS AND RUNNERS AND 33 KSI (50 KSI FOR 54 MILS 16 GAGE AND HEAVIER) FOR ALL OTHER MEMBERS.

3. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL".

4. COLD-FORMED METAL FRAMING MEMBER SIZES AND GAGES INDICATED ARE IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) NOMENCLATURE.

5. COLD-FORMED METAL FRAMING MEMBERS SHALL BE DESIGNED FOR THE LOADS GIVEN IN THE GENERAL NOTES. THE DESIGN LOADS ARE UNFACTORED SERVICE LOADS, ALL APPLICABLE FACTORS SHALL BE APPLIED.

6. MAXIMUM LATERAL DEFLECTION OF COLD-FORMED FRAMING MEMBERS SHALL BE DETERMINED BY THE FOLLOWING TABLE:

STUD USE	L/y RATIO (LIMIT)
BACKING UP MASONRY	L/600 (0.4 IN)
BACKING UP EIFS	L/240 (MANUF. RECOMMENDATION)
BACKING UP METAL PANEL	L/360 (MANUF. RECOMMENDATION)

7. COLD-FORMED METAL FRAMING MEMBERS SHALL BE DESIGNED FOR ALL FRAMING CONDITIONS FOUND IN THE STRUCTURE, INCLUDING WALLS, CORNERS, HEADERS, AND JAMBS. SOME CONDITIONS MAY REQUIRE MODIFICATION OF COLD-FORMED FRAMING MEMBERS (SUCH AS NOTCHING OR REVISING SIZES) OR MULTIPLE STUDS TO SUPPORT INCREASED LOADS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL CONDITIONS AND DETAILS.

8. COLD-FORMED METAL FRAMING CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED FOR ALL FRAMING CONDITIONS. CONNECTIONS ARE SCHEMATICALLY SHOWN ON THE STRUCTURAL DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL CONNECTION CONDITIONS AND LOCATIONS.

POST-INSTALLED ANCHOR NOTES:

1. POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES (OR APPROVED EQUIVALENT - SEE NOTE 2) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   A. ANCHORAGE TO CRACKED AND/OR UNCRACKED CONCRETE:
      1. ADHESIVE ANCHORS:
         HILTI HIT-HY 200, SAFE SET SYSTEM WITH HILTI HIT-Z ROD OR HILTI HOLLOW DRILL BIT SYSTEM WITH HAS-E THREADED ROD AT CONTRACTOR'S OPTION
   B. REBAR DOWELING INTO CRACKED AND/OR UNCRACKED CONCRETE:
      1. ADHESIVE ANCHORS:
         HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH CONTINUOUSLY DEFORMED REBAR
   C. ANCHORAGE TO SOLID GROUTED MASONRY:
      1. ADHESIVE ANCHORS:
         HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM WITH HILTI HAS-E THREADED ROD OR HILTI HIS-N INTERNALLY THREADED INSERT
   D. ANCHORAGE TO HOLLOW MASONRY:
      1. ADHESIVE ANCHORS:
         HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM WITH HILTI HAS-E THREADED ROD OR HILTI HIT-IC INTERNALLY THREADED INSERT
         THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION

2. REQUESTS FOR ANCHOR SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD. CONTRACTOR SHALL SUBMIT TECHNICAL DATA DEMONSTRATING THE PROPOSED ANCHOR SUBSTITUTIONS MEET OR EXCEED THE STRENGTH AND PERFORMANCE VALUES OF THE SPECIFIED ANCHORS.

3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

4. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFI SYSTEM (OR EQUIVALENT).

5. THE CONTRACTOR SHALL ARRANGE A REPRESENTATIVE OF THE ANCHOR MANUFACTURER TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

6. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

7. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY HILTI FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

STRUCTURAL NOTES

ISSUED FOR:	MARK:	DATE:
PRICING PLAN COORDINATION SET		09.01.16
COMPREHENSIVE AGREEMENT SET		09.19.16

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16062

S-001

SPECIAL INSPECTIONS:

1. SPECIAL INSPECTIONS SHALL BE COMPLETED FOR THE FOLLOWING ELEMENTS ACCORDING TO IBC SECTION 1704.

2. EARTHWORK SHALL BE SPECIAL INSPECTED AS FOLLOWS:
   A. PRIOR TO PLACEMENT OF PREPARED FILL, QUALITY ASSURANCE AGENT SHALL DETERMINE THE SITE HAS BEEN PREPARED ACCORDING TO THE GEOTECHNICAL REPORT.
   B. QUALITY ASSURANCE AGENT SHALL DETERMINE FILL MATERIAL AND LIFT THICKNESSES COMPLY WITH GEOTECHNICAL REPORT

3. DEEP FOUNDATION SYSTEMS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION AND TESTING. QUALITY ASSURANCE AGENT SHALL SUBMIT RECORDS OF INSTALLATION FOR EACH DEEP FOUNDATION AND RESULTS OF LOAD TESTS. RECORDS SHALL INCLUDE CUTOFF AND TIP ELEVATIONS.

4. CONCRETE AND ELEMENTS EMBEDDED IN CONCRETE SHALL BE SPECIAL INSPECTED PRIOR TO, AND DURING, PLACEMENT OF CONCRETE. SPECIAL INSPECTIONS SHALL INCLUDE THE FOLLOWING:
   A. PERIODIC INSPECTION:
      1. REINFORCING STEEL SIZE AND PLACEMENT
      2. VERIFY USE OF APPROVED MIX DESIGN
      3. AFTER PLACEMENT TO ENSURE ADEQUATE CURING AND WEATHER PROTECTION PROCEDURES
      4. SURFACE PREPARATION AND DETAILS AT COLD JOINTS, INCLUDING PLACEMENT OF KEYWAYS
      5. INSPECTION OF CONCRETE FORMWORK, SHORING AND RESHORING
      6. VERIFICATION OF IN-PLACE CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES OR FORMS.
   B. CONTINUOUS INSPECTION:
      1. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE
      2. DURING PLACEMENT OF CONCRETE

5. STRUCTURAL MASONRY SHALL BE SPECIAL INSPECTED ACCORDING TO THE FOLLOWING:
   A. PERIODIC INSPECTION:
      1. PROPORTIONS OF SITE-PREPARED MORTAR
      2. CONSTRUCTION OF MORTAR JOINTS
      3. SPECIFIED SIZE, LOCATION, GRADE AND TYPE OF REINFORCEMENT
      4. SIZE AND LOCATION OF STRUCTURAL ELEMENTS
      5. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO PRIMARY STRUCTURAL SYSTEM
      6. CLEANLINESS OF GROUT SPACE
      7. PROTECTION OF MASONRY DURING HOT AND COLD WEATHER PLACEMENT.
   B. CONTINUOUS INSPECTION:
      1. PREPARATION OF ANY GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS
      2. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.

6. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SPECIAL INSPECTED AS FOLLOWS:
   A. PERIODIC INSPECTION:
      1. HIGH-STRENGTH BOLTS, NUTS AND WASHERS ACCORDING TO AISC 360-10.
      2. SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"
      3. FLOOR AND ROOF DECK WELDS
      4. STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS INCLUDING MEMBER LOCATIONS, CONNECTION DETAILS AND ANY OTHER BRACING AND STIFFENING DETAILS
      5. HEADED STUD WELDING, QUANTITY AND LOCATIONS
   B. CONTINUOUS INSPECTION:
      1. SLIP-CRITICAL CONNECTIONS ACCORDING TO AISC 360-10.
      2. FILLET WELDS GREATER THAN 5/16" AND ALL MULTI-PASS WELDS
      3. GROOVE WELDS, INCLUDING PARTIAL AND COMPLETE PENETRATION
      4. WELDING OF PRIMARY MEMBERS OF MOMENT FRAMES AND THEIR CONNECTIONS.

7. COLD-FORMED STEEL FRAMING (ROOF RAFTERS AND EXTERIOR CLADDING STUDS) SHALL BE SPECIAL INSPECTED AS FOLLOWS:
   A. PERIODIC INSPECTION:
      1. SIZE, GRADE AND LAYOUT OF FRAMING MEMBERS
      2. WELDING OPERATIONS
      3. CONNECTION DETAILS SUCH AS SCREWING, BOLTING, ANCHORING, BRACING AND HOLD DOWNS.

8. POST-INSTALLED ANCHORS, INCLUDING BUT NOT LIMITED TO EXPANSION ANCHORS, ADHESIVE ANCHORS, AND LOW VELOCITY FASTENERS SHALL BE SPECIAL INSPECTED ACCORDING TO THE RELEVANT ANCHOR CODE EVALUATION REPORTS.
   A. CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF POST-INSTALLED ANCHORS. SPECIAL INSPECTOR SHALL VERIFY THE FOLLOWING:
      1. ANCHOR SIZE AND STEEL GRADE
      2. HOLE DIAMETER, LOCATION AND TYPE OF DRILL BIT
      3. COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING HOLE AND ANCHOR CLEANLINESS, AND ADHESIVE APPLICATION
      4. ANCHOR EMBEDMENT DEPTH.

9. SEE THE IBC AND OTHER CONSULTANTS' DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRED TO BE SPECIAL INSPECTED.

STRUCTURAL TESTING:

1. THE FOLLOWING MATERIALS SHALL BE TESTED ACCORDING TO IBC SECTION 1705. ANY ITEMS FOUND TO BE DEFICIENT SHALL BE CORRECTED AND RE-TESTED AT NO ADDITIONAL COST TO THE OWNER.

2. EARTHWORK: THE IN-PLACE DRY DENSITY OF COMPACTED FILL SHALL BE TESTED FOR COMPLIANCE WITH THE GEOTECHNICAL REPORT. SEE THE PRELIMINARY GEOTECHNICAL REPORT AND SPECIFICATIONS FOR THE FREQUENCY OF TESTING.

3. CONCRETE STRENGTH VERIFICATION AND TESTING: ALL CONCRETE SHALL BE TESTED TO VERIFY STRENGTH, SLUMP, UNIT WEIGHT, AIR CONTENT AND TEMPERATURE. SEE THE SPECIFICATIONS FOR TESTING CRITERIA, FREQUENCY, AND ACCEPTABILITY CRITERIA.

4. STRUCTURAL MASONRY STRENGTH VERIFICATION AND TESTING: MASONRY STRENGTH, F'm SHALL BE VERIFIED USING THE 'UNIT STRENGTH METHOD' PER IBC CHAPTER 2105 AND AS FOLLOWS:
   A. PRIOR TO CONSTRUCTION THE MASONRY UNITS AND GROUT SHALL BE TESTED FOR COMPRESSIVE STRENGTH.
   B. CERTIFICATES OF COMPLIANCE WITH STRENGTH REQUIREMENTS OF THE MASONRY UNITS AND GROUT SHALL BE SUBMITTED BY THE MASONRY AND GROUT SUPPLIERS.
   C. DURING CONSTRUCTION THE MASONRY UNITS AND GROUT SHALL BE TESTED FOR EVERY 5,000 SQUARE FEET OF MASONRY CONSTRUCTED.
   D. PROPORTIONS OF MATERIALS IN MORTAR AND GROUT DELIVERED TO THE SITE SHALL BE VERIFIED.

5. STRUCTURAL STEEL: WELDED CONNECTIONS SHALL BE TESTED FOR COMPLIANCE WITH THE SPECIFICATIONS, AWS D.1.1 AND THE CONTRACT DOCUMENTS. MINIMUM TESTING SHALL INCLUDE THE FOLLOWING:
   A. ALL COMPLETE PENETRATION GROOVE WELDS SHALL BE TESTED ACCORDING TO METHODS DESCRIBED IN THE SPECIFICATIONS.
   B. A MINIMUM OF 50% OF PARTIAL PENETRATION GROOVE WELDS SHALL BE TESTED ACCORDING TO METHODS DESCRIBED IN THE SPECIFICATIONS.
   C. BASE METALS THICKER THAN 1-1/2" THAT ARE SUBJECT TO THROUGH THICKNESS WELD SHRINKAGE STRAINS SHALL BE ULTRASONICALLY TESTED FOR DISCONTINUITIES. TESTING SHALL BE PERFORMED DIRECTLY BEHIND SUCH WELDS AND THREE INCHES ABOVE AND BELOW THE WELD AFTER JOINT COMPLETION.
   D. ALL DEFICIENT WELDS SHALL BE CORRECTED AND RE-TESTED AT NO ADDITIONAL COST TO THE OWNER.

6. POST-INSTALLED ANCHORS, INCLUDING BUT NOT LIMITED TO EXPANSION ANCHORS, ADHESIVE ANCHORS, AND LOW VELOCITY FASTENERS SHALL BE TESTED ACCORDING TO THE RELEVANT ANCHOR CODE EVALUATION REPORTS.

7. SEE THE IBC AND OTHER CONSULTANTS' DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRED TO BE TESTED.

STRUCTURAL ABBREVIATION LIST:

¾	WITH
±	PLUS/MINUS
Ø	DIAMETER
	CENTERLINE
	SQUARE
¿	ON CENTER
A.B.	ANCHOR BOLT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.R.	ANCHOR ROD
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ADJ.	ADJACENT
ARCH.	ARCHITECT or ARCHITECTURAL
B.	BOTTOM
B.E.J.	BUILDING EXPANSION JOINT
B.D.	BAR DIAMETER
BLDG.	BUILDING
BM.	BEAM
BRCG.	BRACING
BRDG.	BRIDGING
BRG.	BEARING
BTWN.	BETWEEN
C.G.	CENTER OF GRAVITY
C.I.P.	CAST IN PLACE
C.J.P.	COMPLETE JOINT PENETRATION
CANT.	CANTILEVER
CL.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECT or CONNECTION
CONT.	CONTINUOUS
COORD.	COORDINATE
D.	DEEP or DEPTH
DBL.	DOUBLE
DET.	DETAIL
DIA.	DIAMETER
DIAG.	DIAGONAL
DWG.	DRAWING
DWL.	DOWEL
E.F.	EACH FACE
E.O.	EDGE OF
E.W.	EACH WAY
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR or ELEVATION
EMB.	EMBED or EMBEDMENT
ENG.	ENGINEER
EQ.	EQUAL
EQUIV.	EQUIVALENT
EXIST.	EXISTING
EXP.	EXPANSION
F.L.	FULL LENGTH
F.O.	FACE OF
F.R.	FIRST RISER
FIN.	FINISH or FINISHED
FLR.	FLOOR
FTG.	FOOTING
G.C.	GENERAL CONTRACTOR
ga	GAGE
GALV.	GALVANIZED
GD.	GRADE
H.C.	HOLLOW CORE
HK.	HOOK
HORIZ.	HORIZONTAL
J.B.E.	JOIST BEARING ELEVATION
JT.	JOINT

K	KIPS
K.S.F.	KIPS PER SQUARE FOOT
K.S.I.	KIPS PER SQUARE INCH
LG.	LONG
LLH	LONG LEG HORIZONTAL
LLO	LONG LEG OUTSTANDING
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
M.O.S.	MIDDLE OF SLAB
M.O.W.	MIDDLE OF WALL
MANUF.	MANUFACTURER or MANUFACTURER'S
MAS.	MASONRY
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MTL.	METAL
N.T.S.	NOT TO SCALE
OSB	ORIENTED STRAND BOARD
OPP.	OPPOSITE
P/T	POST-TENSIONED
PAF	POWDER ACTUATED FASTENER
P.C.	PRECAST
P.E.B.	PRE-ENGINEERED BUILDING
PLF	POUNDS PER LINEAR FOOT
P.S.	PRE-STRESSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
Pc	PIECE
PLUMB.	PLUMBING
PROJ.	PROJECTION
R.	RADIUS
REF.	REFERENCE
REINF.	REINFORCED or REINFORCING
REQD.	REQUIRED
REV.	REVISION
SLO	SHORT LEG OUTSTANDING
S.D.I.	STEEL DECK INSTITUTE
S.E.J.	SEISMIC EXPANSION JOINT
S.J.I.	STEEL JOIST INSTITUTE
S.O.G.	SLAB ON GRADE
S.F.	STEPPED FOOTING
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
S.I.R.D.A.	SLOPED INTEGRAL ROOF DECK ASSEMBLY
SL.	SLOPE
SPA.	SPACE
STD.	STANDARD
STIFF.	STIFFENER
STIR.	STIRRUP
STL.	STEEL
STRUCT.	STRUCTURAL
T.	TOP
T.O.S.	TOP OF STEEL
TEMP.	TEMPERATURE
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
W.	WIDE or WIDTH
W.P.	WORKING POINT
W.W.F.	WELDED WIRE FABRIC

CAST-IN-PLACE CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

BAR SIZE Fy = 60 KSI	TENSION BARS																COMPRESSION BARS
	f'c = 3,000 PSI				f'c = 3,500 PSI				f'c = 4,000 PSI				f'c = 5,000 PSI				f'c = ALL
	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		
	CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
#3	17"	22"	22"	28"	16"	21"	21"	26"	15"	19"	19"	25"	13"	17"	17"	22"	12"
#4	22"	29"	29"	38"	21"	27"	27"	36"	19"	25"	25"	33"	17"	23"	23"	29"	15"
#5	28"	36"	36"	47"	26"	34"	34"	44"	24"	31"	31"	41"	22"	28"	28"	36"	19"
#6	33"	43"	43"	56"	31"	40"	40"	52"	29"	37"	37"	49"	26"	34"	34"	44"	23"
#7	48"	63"	63"	81"	45"	59"	59"	75"	42"	54"	54"	71"	38"	49"	49"	63"	27"
#8	55"	72"	72"	93"	51"	67"	67"	87"	48"	62"	62"	81"	43"	56"	56"	72"	30"
#9	62"	81"	81"	105"	58"	75"	75"	98"	54"	70"	70"	91"	48"	63"	63"	81"	34"
#10	70"	91"	91"	118"	65"	85"	85"	110"	61"	79"	79"	102"	54"	71"	71"	92"	39"
#11	78"	101"	101"	131"	73"	94"	94"	122"	67"	87"	87"	114"	60"	78"	78"	102"	43"

NOTES: (THESE NOTES SHALL BE USED FOR ALL SPLICES, UNLESS NOTED OTHERWISE ON DRAWINGS.)

1. TOP BARS ARE HORIZONTAL BARS, SPLICED SO THAT 12" OR MORE OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCING BAR.
2. CLASS A SPLICES MAY BE USED ONLY WHEN 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH.
3. CLASS B SPLICES SHALL BE USED FOR ALL SPLICES IN SLABS, BEAMS, JOISTS, WALLS, MOMENT RESISTING COLUMNS, AND JAMB COLUMNS, UNLESS THEY MEET THE REQUIREMENTS OF NOTE #2 ABOVE.
4. TIES AND STIRRUPS SHALL NOT BE SPLICED UNLESS APPROVED BY THE ENGINEER OF RECORD. ROUND COLUMN TIES MAY BE SPLICED USING CLASS A LAPS.
5. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
6. THE BAR LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.5 WHEN EITHER OF THE FOLLOWING IS TRUE:
   A. CLEAR SPACING OF BARS BEING DEVELOPED IS LESS THAN ONE BAR DIAMETER, CLEAR COVER IS LESS THAN ONE BAR DIAMETER AND STIRRUPS OR TIES ALONG THE LENGTH OF THE SPLICE ARE LESS THAN THE CODE MINIMUM.
   B. CLEAR SPACING OF BARS BEING DEVELOPED IS LESS THAN 2 BAR DIAMETERS AND CLEAR COVER IS LESS THAN ONE BAR DIAMETER.

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

STRUCTURAL NOTES AND ABBREVIATIONS

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16062

S-002

FOUNDATION PLAN

1/8" = 1'-0"

(FOR PLAN NOTES AND LEGEND SEE SHEET S-102)

09.19.16 COMPREHENSIVE AGREEMENT SET
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FOUNDATION PLAN

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S-101

FOUNDATION PLAN NOTES :

A. SEE THE CIVIL DRAWINGS FOR ACTUAL FINISHED FLOOR ELEVATION. TOP OF SLAB EQUALS FINISHED FLOOR ELEVATION AND SHALL SERVE AS THE REFERENCE ELEVATION 0'-0".

B. FIRST FLOOR SLAB SHALL BE A 4" THICK CONCRETE SLAB-ON-GRADE, REINFORCED WITH W.W.F. 6x6-W2.1xW2.1, OVER 15 MIL. VAPOR BARRIER, OVER 4" DEPTH OF POROUS FILL.

C. FLOOR SLAB SHALL BE A 4" THICK CONCRETE SLAB-ON-GRADE, REINFORCED WITH W.W.F. 6x6-W2.1xW2.1, OVER 4" DEPTH OF POROUS FILL.

D. TOP OF ALL FOOTINGS SHALL BE 1'-4" BELOW REFERENCE ELEVATION 0'-0" UNLESS OTHERWISE NOTED.

E. FOR DIMENSIONS NOT SHOWN AND LOCATIONS OF MASONRY CONTROL JOINTS SEE THE ARCHITECTURAL DRAWINGS.

F. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED ON TOTAL WIDTH OF THE FOUNDATION WALL.

G. FOR STRUCTURAL NOTES SEE SHEET S-001. FOR COLUMN SCHEDULE SEE THIS SHEET.

H. SITE RETAINING WALL - SEE TYPICAL DETAIL ON SHEET S-___. FOR EXTENTS AND EXACT LOCATION SEE THE CIVIL DRAWINGS.

FOUNDATION PLAN LEGEND :

KCJ = SLAB-ON-GRADE KEYED CONSTRUCTION JOINT - SEE TYPICAL DETAIL ON SHEET S-501

CJ = SLAB-ON-GRADE CONTROL JOINT - SEE TYPICAL DETAIL ON SHEET S-501

= INDICATES SLAB-ON-GRADE JOINT (CONTROL JOINT UNLESS OTHERWISE REQUIRED)

TS = THICKENED SLAB - SEE TYPICAL DETAIL ON SHEET S-501

-XX" = INDICATES TOP OF SLAB ELEVATION - MEASURED FROM REFERENCE ELEVATION 0'-0"

= INDICATES CHANGE IN SLAB ELEVATION - SEE ARCH. DWGS. FOR EXACT SIZE AND LOCATION

= INDICATES EXTENT OF SLAB SLOPE - SEE ARCH. DWGS. FOR EXACT LOCATION

WFX.X = WALL FOOTING MARK - SEE SCHEDULE ON THIS SHEET

RWFX.X = RETAINING WALL FOOTING MARK - SEE SCHEDULE ON THIS SHEET

CFX.X = COLUMN FOOTING MARK - SEE SCHEDULE ON THIS SHEET

SF = STEPPED FOOTING - SEE TYPICAL DETAIL ON SHEET S-501

(X'-X") = INDICATES TOP OF FOOTING ELEVATION - MEASURED FROM REFERENCE ELEVATION 0'-0"

X = COLUMN GRID MARK

X = COLUMN PEDESTAL MARK - SEE TYPICAL DETAILS ON SHEET S-502

WJ = CONCRETE WALL VERTICAL JOINT - SEE TYPICAL DETAILS ON SHEET S-502

XXX.XX" = APPROXIMATE ACTUAL FINISHED GRADE ELEVATION - FOR GRADING SEE SITE DWGS.

± = APPROXIMATE DIMENSION OR ELEVATION (FIELD VERIFY)

= SANITARY OR STORM SEWER PIPING BELOW SLAB - COORDINATE WITH PLUMB. DWGS. (PIPING PARTIALLY SHOWN, SEE PLUMB. DWGS. FOR ADDITIONAL PIPING NOT SHOWN)

FD FD = FLOOR DRAIN - COORDINATE WITH ARCH. AND PLUMB. DWGS.

X = COLUMN MARK - SEE COLUMN SCHEDULE ON THIS SHEET

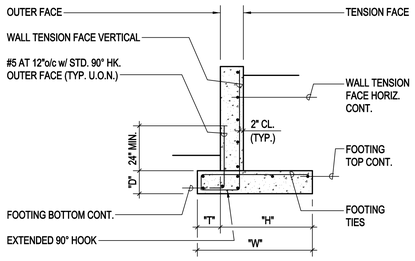
(X'-X") = INDICATES TOP OF CONCRETE WALL, TOP OF MASONRY SHELF OR TOP OF COLUMN PEDESTAL ELEVATION - MEASURED FROM REFERENCE ELEVATION 0'-0"

BUILDING RETAINING WALL AND FOOTING SCHEDULE

MARK	DIMENSIONS				FOOTING REINFORCING			WALL REINFORCING	
	"W"	"T"	"H"	"D"	TOP CONT.	BOTTOM CONT.	TIES	HORIZ. CONT.	VERTICAL
RWF4.0	4'-0"	1'-0"	3'-0"	12"	#4 AT 9"	3 - #4	#4 AT 12"o/c	#4 AT 8"o/c	#6 AT 12"o/c
RWF6.0	6'-0"	1'-6"	4'-6"	12"	#4 AT 9"	3 - #4	#6 AT 12"o/c	#4 AT 8"o/c	#6 AT 12"o/c
RWF8.0	8'-0"	2'-0"	6'-0"	12"	#4 AT 18"	#4 AT 18"	#6 AT 12"o/c	#4 AT 8"o/c	#7 AT 12"o/c
RWF10.0	10'-0"	3'-0"	7'-0"	12"	#4 AT 18"	#4 AT 18"	#7 AT 8"o/c	#4 AT 8"o/c	#8 AT 8"o/c

SITE RETAINING WALL AND FOOTING SCHEDULE

MARK	DIMENSIONS				FOOTING REINFORCING			WALL REINFORCING	
	"W"	"T"	"H"	"D"	TOP CONT.	BOTTOM CONT.	TIES	HORIZ. CONT.	VERTICAL
SRWF-1	5'-0"	1'-0"	4'-0"	10"	#4 AT 9"	3 - #4	#4 AT 16"o/c	NA	#5 AT 16"o/c



RETAINING WALL AND FOOTING DIAGRAM

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE TYPE	REMARKS
C-1	HSS4x4x1/4	1	---
C-2	HSS5x5x1/4	2	---
C-3	HSS5 1/2x5 1/2x1/4	2	---
C-4	HSS6x6x1/4	3	---
C-5	HSS7x7x1/4	4	---
C-6	HSS8x8x1/4	4	---
C-7	HSS8x8x5/16	4	---

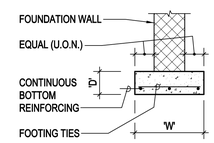
COLUMN SCHEDULE NOTES:
1. SEE SHEET S-502 FOR COLUMN BASE PLATE DETAILS.

WALL FOOTING SCHEDULE

MARK	WIDTH 'W'	DEPTH 'D'	REINFORCING (BOTTOM U.O.N.)	
			CONTINUOUS	TIES
WF2.0	2'-0"	12"	3 - #4	#4 AT 4'-0"o/c
WF2.5	2'-6"	12"	3 - #4	#4 AT 4'-0"o/c
WF3.0	3'-0"	12"	4 - #4	#4 AT 4'-0"o/c

COLUMN FOOTING SCHEDULE

MARK	SIZE (SQUARE U.O.N.)	DEPTH	REINFORCING (BOTTOM U.O.N.)
CF4.0	4'-0"	12"	4 - #5 EACH WAY
CF5.0	5'-0"	12"	5 - #5 EACH WAY
CF6.0	6'-0"	12"	6 - #5 EACH WAY
CF7.0	7'-0"	14"	7 - #5 EACH WAY
CF8.0	8'-0"	16"	7 - #6 EACH WAY



WALL FOOTING DIAGRAM

09.19.16 COMPREHENSIVE AGREEMENT SET
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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

FOUNDATION PLAN NOTES AND LEGEND

ISSUED FOR:

	MARK:	DATE:
PRICING PLAN COORDINATION SET		09.01.16
COMPREHENSIVE AGREEMENT SET		09.19.16

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S-102

FRAMING PLAN NOTES :

A. SEE FOUNDATION PLAN ON SHEETS S-101 AND THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. SEE THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS.

B. FINISHED SECOND FLOOR ELEVATION SHALL BE +14'-8" MEASURED FROM REFERENCE ELEVATION 0'-0".

C. FLOOR SLAB SHALL BE A 5" TOTAL DEPTH LIGHT WEIGHT CONCRETE SLAB ON 2" COMPOSITE DECK REINFORCED WITH W.W.F.6x6-W2.1xW2.1, 1" CLEAR FROM TOP OF SLAB.

D. TOP OF STEEL ELEVATION AT FLOOR BEAMS SHALL BE +14'-3" UNLESS OTHERWISE INDICATED.

E. FLOOR BEAMS AND OTHER FLOOR DECK SUPPORTS SHALL BE SPACED EQUALLY BETWEEN GIVEN LOCATIONS, WITH A MAXIMUM SPACING OF 8'-0" ON CENTER (TYP. U.O.N.).

F. ROOF JOISTS AND OTHER ROOF DECK SUPPORTS SHALL BE SPACED EQUALLY BETWEEN GIVEN LOCATIONS, WITH A MAXIMUM SPACING OF 5'-6" ON CENTER (UNLESS OTHERWISE NOTED).

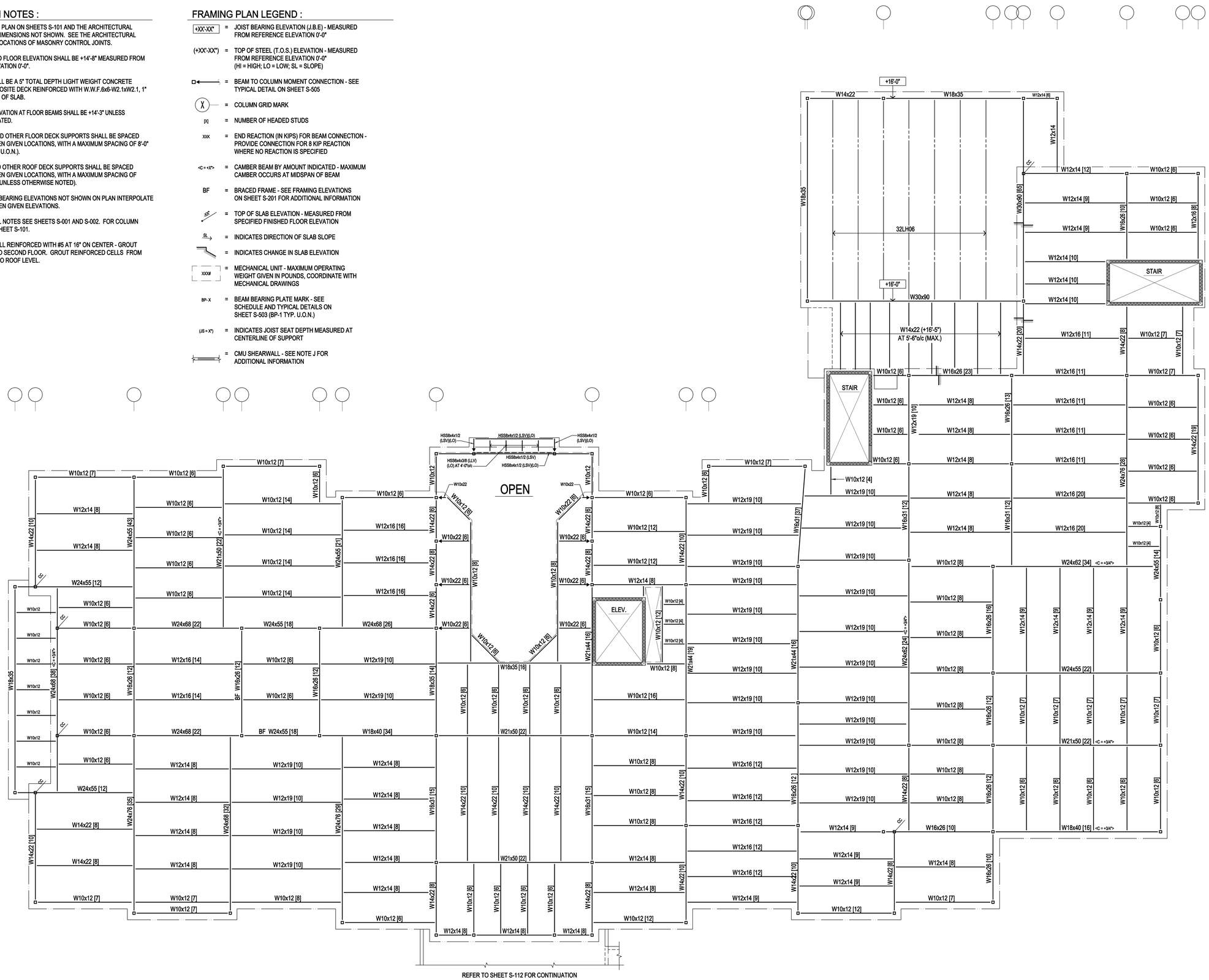
G. FOR ROOF JOIST BEARING ELEVATIONS NOT SHOWN ON PLAN INTERPOLATE LINEARLY BETWEEN GIVEN ELEVATIONS.

H. FOR STRUCTURAL NOTES SEE SHEETS S-001 AND S-002. FOR COLUMN SCHEDULE SEE SHEET S-101.

J. 8" CMU SHEARWALL REINFORCED WITH #5 AT 16" ON CENTER - GROUT WALL SOLID UP TO SECOND FLOOR. GROUT REINFORCED CELLS FROM SECOND FLOOR TO ROOF LEVEL.

FRAMING PLAN LEGEND :

+XX'-XX"	=	JOIST BEARING ELEVATION (J.B.E) - MEASURED FROM REFERENCE ELEVATION 0'-0"
(+XX'-XX")	=	TOP OF STEEL (T.O.S.) ELEVATION - MEASURED FROM REFERENCE ELEVATION 0'-0" (HI = HIGH; LO = LOW; SL = SLOPE)
	=	BEAM TO COLUMN MOMENT CONNECTION - SEE TYPICAL DETAIL ON SHEET S-505
X	=	COLUMN GRID MARK
[x]	=	NUMBER OF HEADED STUDS
xxx	=	END REACTION (IN KIPS) FOR BEAM CONNECTION - PROVIDE CONNECTION FOR 8 KIP REACTION WHERE NO REACTION IS SPECIFIED
<C = +X">	=	CAMBER BEAM BY AMOUNT INDICATED - MAXIMUM CAMBER OCCURS AT MIDSPAN OF BEAM
BF	=	BRACED FRAME - SEE FRAMING ELEVATIONS ON SHEET S-201 FOR ADDITIONAL INFORMATION
+X"	=	TOP OF SLAB ELEVATION - MEASURED FROM SPECIFIED FINISHED FLOOR ELEVATION
SL	=	INDICATES DIRECTION OF SLAB SLOPE
	=	INDICATES CHANGE IN SLAB ELEVATION
XXX#	=	MECHANICAL UNIT - MAXIMUM OPERATING WEIGHT GIVEN IN POUNDS, COORDINATE WITH MECHANICAL DRAWINGS
BP- X	=	BEAM BEARING PLATE MARK - SEE SCHEDULE AND TYPICAL DETAILS ON SHEET S-503 (BP-1 TYP. U.O.N.)
(JS = X")	=	INDICATES JOIST SEAT DEPTH MEASURED AT CENTERLINE OF SUPPORT
	=	CMU SHEARWALL - SEE NOTE J FOR ADDITIONAL INFORMATION



PLAN NORTH

SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

SECOND FLOOR AND LOW ROOF FRAMING PLAN

ISSUED FOR:	MARK:	DATE:
PRICING PLAN COORDINATION SET		09.01.16
COMPREHENSIVE AGREEMENT SET		09.19.16

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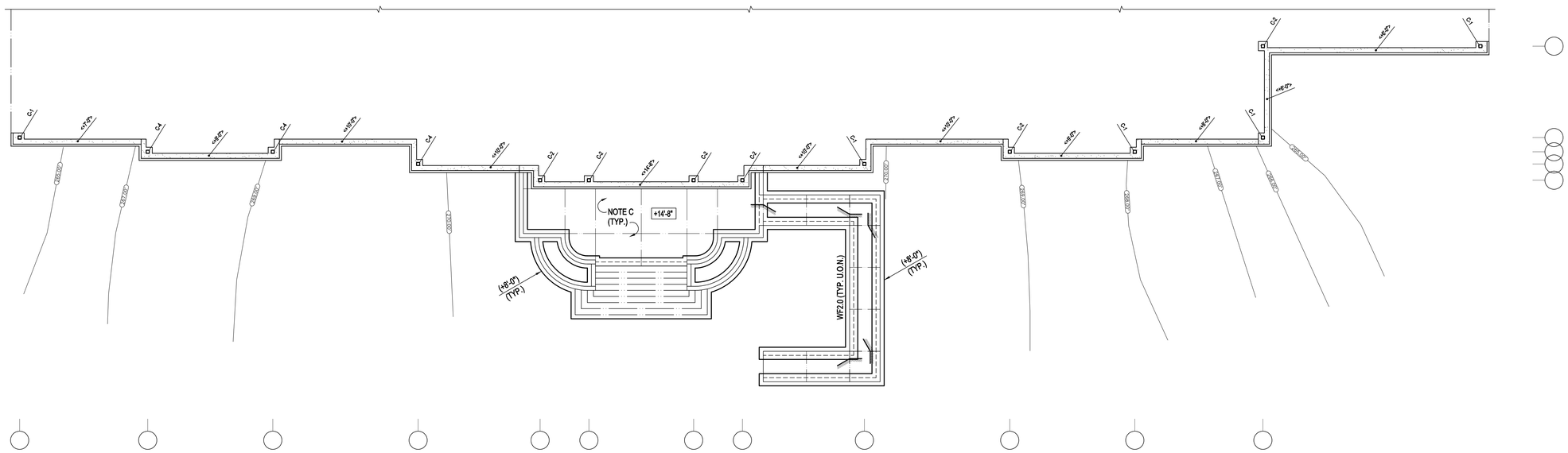
S-111



PLAN NORTH

PARTIAL SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

(FOR FOUNDATION PLAN NOTES AND LEGEND SEE SHEET S-102)

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

PARTIAL SECOND FLOOR FRAMING PLAN

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S-112

FRAMING PLAN NOTES :

A. SEE FOUNDATION PLAN ON SHEET S-101, SECOND FLOOR FRAMING PLAN ON SHEET S-111 AND THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. SEE THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS.

B. FOR JOIST BEARING ELEVATIONS NOT SHOWN ON PLAN INTERPOLATE LINEARLY BETWEEN GIVEN ELEVATIONS.

C. ROOF JOISTS AND OTHER ROOF DECK SUPPORTS SHALL BE SPACED EQUALLY BETWEEN GIVEN LOCATIONS, WITH A MAXIMUM SPACING OF 5'-6" ON CENTER.

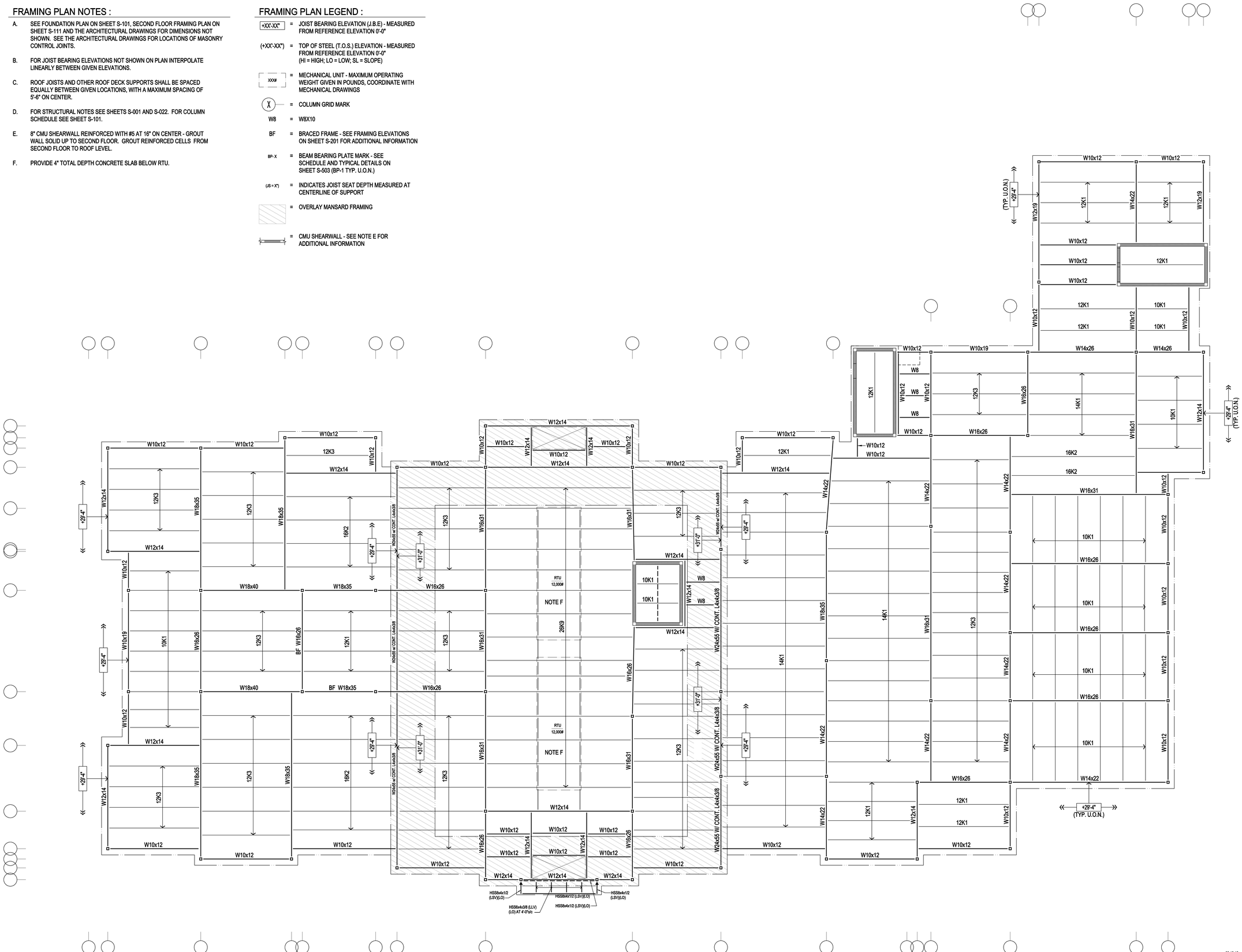
D. FOR STRUCTURAL NOTES SEE SHEETS S-001 AND S-022. FOR COLUMN SCHEDULE SEE SHEET S-101.

E. 8" CMU SHEARWALL REINFORCED WITH #5 AT 16" ON CENTER - GROUT WALL SOLID UP TO SECOND FLOOR. GROUT REINFORCED CELLS FROM SECOND FLOOR TO ROOF LEVEL.

F. PROVIDE 4" TOTAL DEPTH CONCRETE SLAB BELOW RTU.

FRAMING PLAN LEGEND :

+XX'-XX"	=	JOIST BEARING ELEVATION (J.B.E) - MEASURED FROM REFERENCE ELEVATION 0'-0"
(+XX'-XX")	=	TOP OF STEEL (T.O.S.) ELEVATION - MEASURED FROM REFERENCE ELEVATION 0'-0" (HI = HIGH; LO = LOW; SL = SLOPE)
XXX#	=	MECHANICAL UNIT - MAXIMUM OPERATING WEIGHT GIVEN IN POUNDS, COORDINATE WITH MECHANICAL DRAWINGS
X	=	COLUMN GRID MARK
W8	=	W8X10
BF	=	BRACED FRAME - SEE FRAMING ELEVATIONS ON SHEET S-201 FOR ADDITIONAL INFORMATION
BP- X	=	BEAM BEARING PLATE MARK - SEE SCHEDULE AND TYPICAL DETAILS ON SHEET S-503 (BP-1 TYP. U.O.N.)
(JS = X")	=	INDICATES JOIST SEAT DEPTH MEASURED AT CENTERLINE OF SUPPORT
	=	OVERLAY MANSARD FRAMING
	=	CMU SHEARWALL - SEE NOTE E FOR ADDITIONAL INFORMATION



PLAN NORTH

ROOF FRAMING PLAN

1/8" = 1'-0"

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

HIGH ROOF FRAMING PLAN

ISSUED FOR:

MARK:	DATE:
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COMPREHENSIVE AGREEMENT SET	09.19.16

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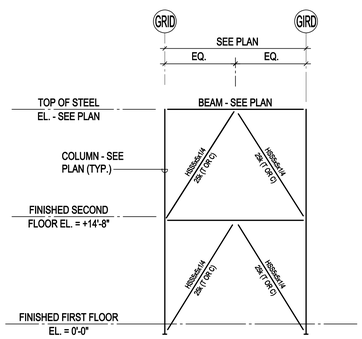
S-121



TYPICAL

FRAMING ELEVATIONS

1/8" = 1'-0"

FRAMING ELEVATION NOTES :

A. SEE FOUNDATION PLAN ON SHEET S-101 AND THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

B. SEE SHEET S-001 FOR STRUCTURAL NOTES. SEE SHEET S-101 FOR COLUMN SCHEDULE.

C. THE BASIC CONNECTION DESIGN METHOD SHALL BE THE UNIFORM FORCE METHOD AS DESCRIBED IN PART 13 OF THE MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION BY AISC. THE FORCES SHOWN ON THE FRAME ELEVATIONS ARE INTENDED TO BE USED FOR THE DETAILING OF THE JOINT. IN addition TO THE FORCES SHOWN ON THE ELEVATIONS, THE BEAM END SHEAR SHALL BE AS DETAILED ON THE DRAWINGS.

D. FOR REQUIRED MINIMUM WELD SEE BRACED FRAME WELDING SCHEDULE ON THIS SHEET. PROVIDE SPECIFIED WELD ALONG ALL FOUR EDGES WHERE SLOTTED TUBE CONTACTS GUSSET PLATE AT EACH END OF TUBE.

E. OPENING - SEE ARCH. DWGS. FOR LOCATION, DIMENSIONS AND DETAILS.

FRAMING ELEVATION LEGEND:

(X) — = COLUMN GRID MARK

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DINWIDDIE COUNTY, VIRGINIA

FRAMING ELEVATIONS

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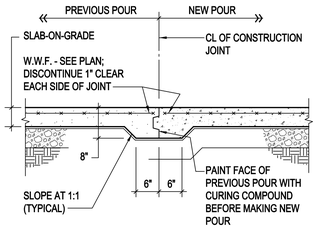
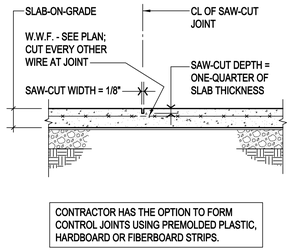
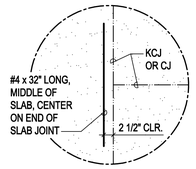
S-201



KEYED CONSTRUCTION JOINT

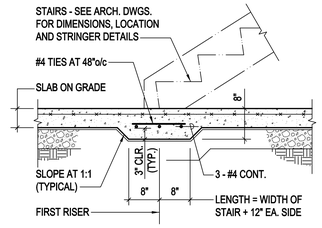


CONTROL JOINT

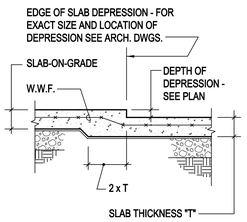


PLAN VIEW

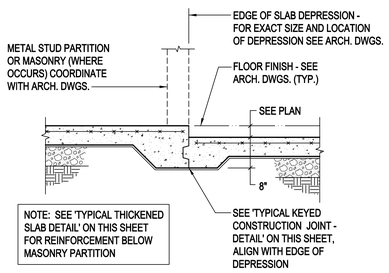
PLAN DETAIL AT DISCONTINUOUS SLAB JOINT



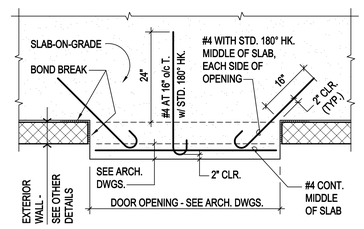
THICKENED SLAB AT STAIR LANDING



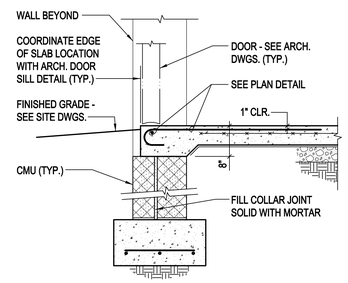
DEPRESSION



DEPRESSION AT KEYED CONSTRUCTION JOINT

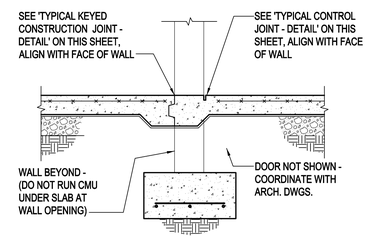


PLAN



SECTION

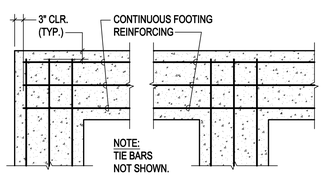
SLAB AT EXTERIOR DOOR



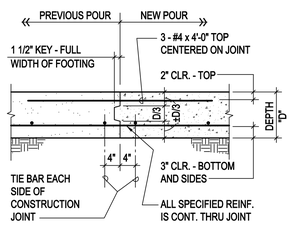
SECTION AT INTERIOR DOOR

TYPICAL SLAB-ON-GRADE DETAILS

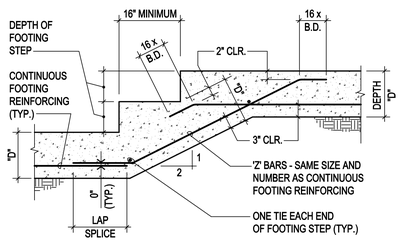
NOT TO SCALE



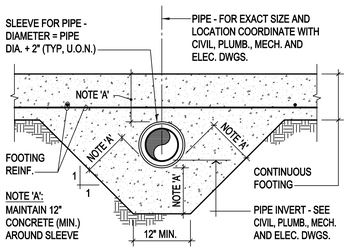
CORNERS AND INTERSECTIONS



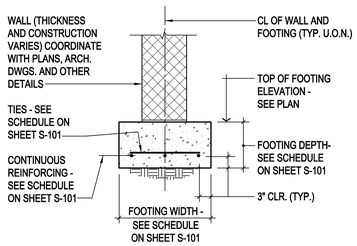
CONSTRUCTION JOINT



STEPPED FOOTING



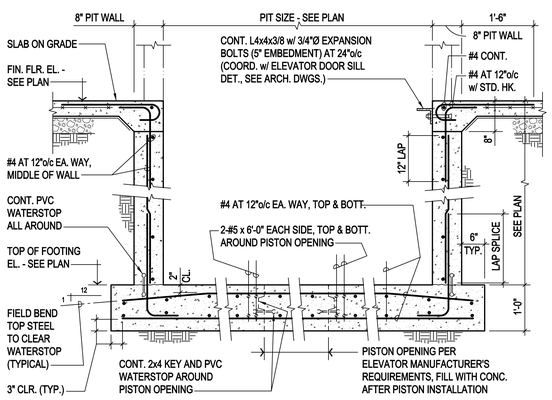
PIPE SLEEVE THRU CONTINUOUS FOOTING



TYPICAL SECTION

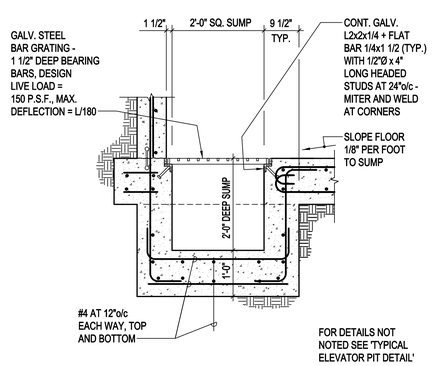
TYPICAL WALL FOOTING DETAILS

NOT TO SCALE



TYPICAL ELEVATOR PIT DETAIL

NOT TO SCALE



TYPICAL ELEVATOR SUMP PIT DETAIL

NOT TO SCALE

09.19.16 COMPREHENSIVE AGREEMENT SET
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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

TYPICAL DETAILS

ISSUED FOR:	MARK:	DATE:
PRICING PLAN COORDINATION SET		09.01.16
COMPREHENSIVE AGREEMENT SET		09.19.16

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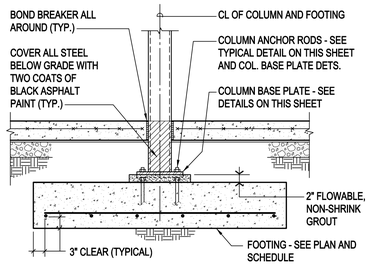
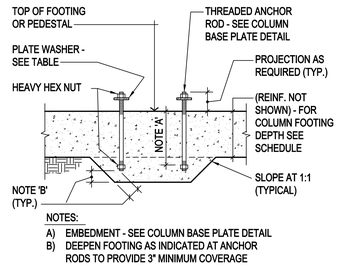
S-501



TYPICAL SECTION



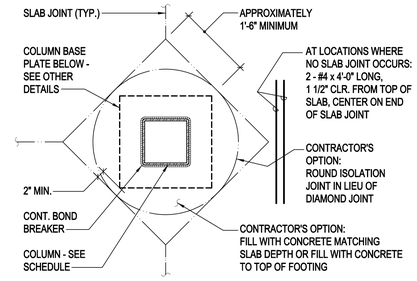
NOTES:

A) EMBEDMENT - SEE COLUMN BASE PLATE DETAIL

B) DEEPEN FOOTING AS INDICATED AT ANCHOR RODS TO PROVIDE 3" MINIMUM COVERAGE

ANCHOR ROD

PLATE WASHER TABLE	
ANCHOR ROD DIAMETER	DIMENSIONS
3/4"	1/4" x 2" SQ.
7/8"	5/16" x 2 1/2" SQ.
1"	3/8" x 3" SQ.
1 1/4"	1/2" x 3" SQ.
1 1/2"	1/2" x 3 1/2" SQ.
1 3/4"	5/8" x 4" SQ.
2"	3/4" x 5" SQ.
2 1/2"	7/8" x 5 1/2" SQ.

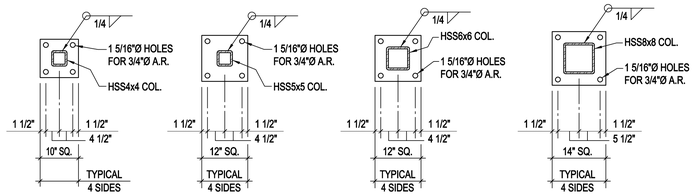


GENERAL CONTRACTOR NOTE :
COLUMN ISOLATION JOINTS ARE OPTIONAL WHEN STRUCTURAL STEEL ERECTION IS COMPLETED PRIOR TO SLAB-ON-GRADE PLACEMENT.

COLUMN ISOLATION JOINT

TYPICAL COLUMN AND FOOTING DETAILS

NOT TO SCALE



TYPE 1

PL3/4x10x10 WITH 4 - 3/4"Ø ANCHOR RODS (9" EMB.)

TYPE 2

PL3/4x12x12 WITH 4 - 3/4"Ø ANCHOR RODS (9" EMB.)

TYPE 3

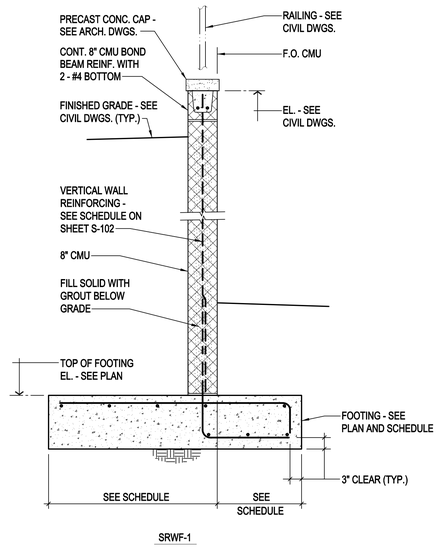
PL3/4x12x12 WITH 4 - 3/4"Ø ANCHOR RODS (9" EMB.)

TYPE 4

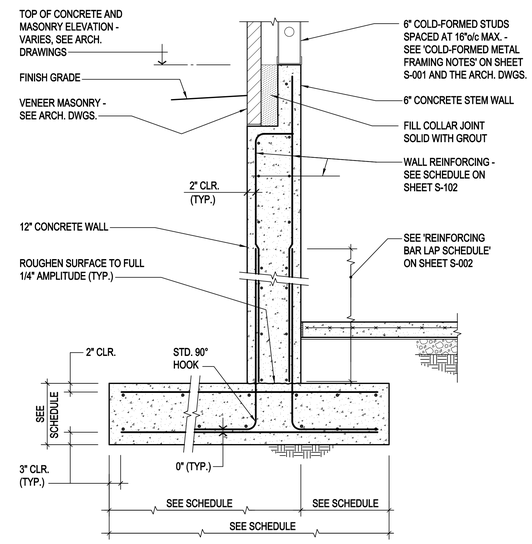
PL3/4x14x14 WITH 4 - 3/4"Ø ANCHOR RODS (9" EMB.)

COLUMN BASE PLATE DETAILS

NOT TO SCALE



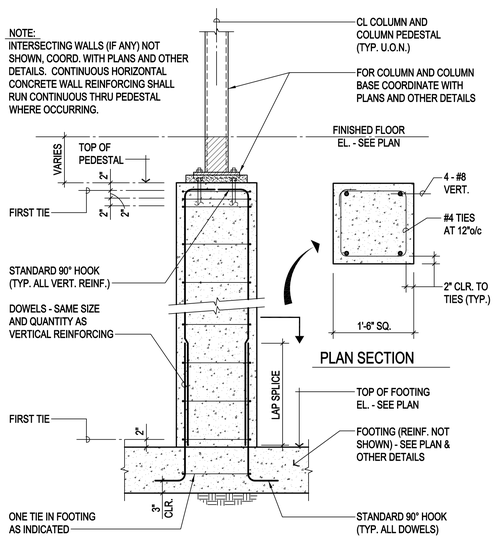
TYPICAL SITE RETAINING WALL



TYPICAL BUILDING RETAINING WALL

TYPICAL RETAINING WALL DETAILS

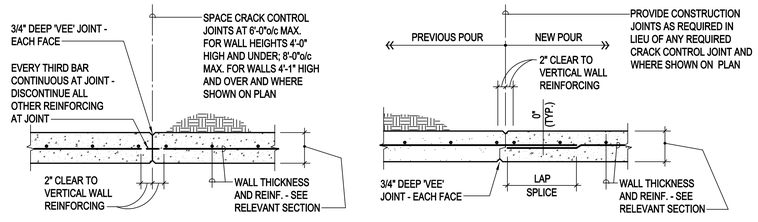
NOT TO SCALE



PLAN SECTION

TYPICAL COLUMN PEDESTAL DETAIL

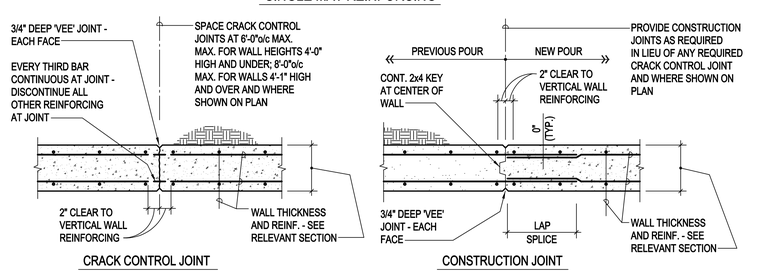
NOT TO SCALE



CRACK CONTROL JOINT

CONSTRUCTION JOINT

SINGLE MAT REINFORCING



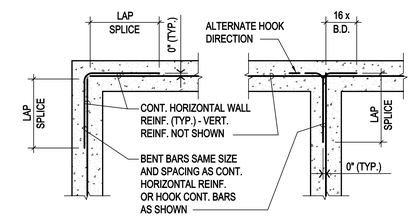
CRACK CONTROL JOINT

CONSTRUCTION JOINT

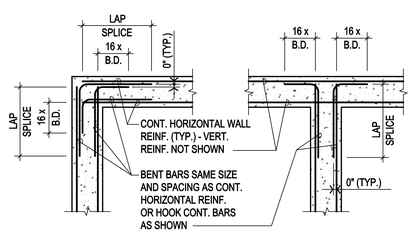
DOUBLE MAT REINFORCING

TYPICAL CONCRETE WALL VERTICAL JOINT DETAILS

NOT TO SCALE



SINGLE MAT REINFORCING

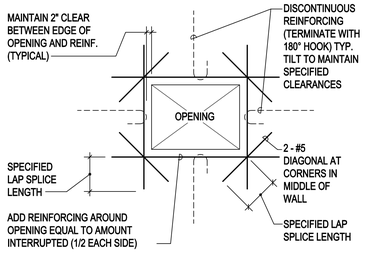


DOUBLE MAT REINFORCING

TYPICAL DETAIL AT CORNERS AND INTERSECTIONS OF CONCRETE WALLS

NOT TO SCALE

CONCRETE WALL OPENING DETAIL NOTE:
ALL OPENINGS REQUIRE ADDITIONAL REINFORCING EXCEPT WHERE OPENING SIZE OR LOCATION IS SUCH THAT REINFORCING STEEL IS NOT INTERRUPTED. CONDUITS, SMALL PIPES AND OTHER SMALL SLEEVES THAT DO NOT REQUIRE PRECISE LOCATION SHALL BE SHIFTED SLIGHTLY TO CLEAR REINFORCING. WHERE SLEEVES ARE LARGER THAN THE SPACING BETWEEN THE BARS AND ARE SUCH THAT THE REINFORCING CANNOT BE SHIFTED TO CLEAR, THEN THIS DETAIL SHALL APPLY.



TYPICAL CONCRETE WALL OPENING DETAIL

NOT TO SCALE

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

TYPICAL DETAILS

ISSUED FOR:	MARK:	DATE:
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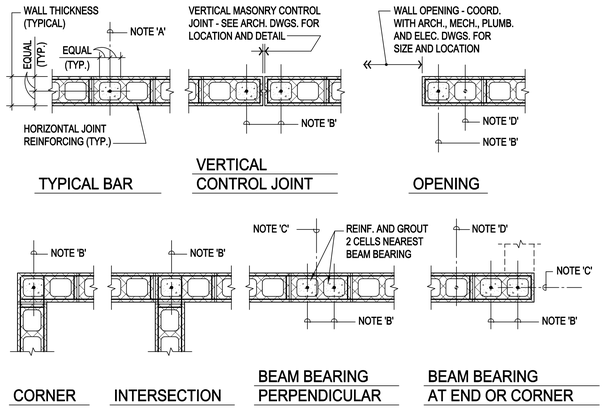


NOTES:

A. VERTICAL WALL REINFORCING BAR AS SPECIFIED. SEE OTHER DETAILS AND SECTIONS FOR SIZE AND SPACING.

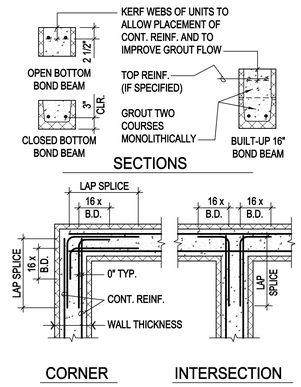
B. VERTICAL WALL REINFORCING BAR AS SPECIFIED (#4 BAR WHERE NOT OTHERWISE SPECIFIED).

C. CENTERLINE OF BEAM/GIRDER ABOVE, SEE FRAMING PLANS FOR EXACT LOCATION.

D. ADDITIONAL VERTICAL WALL REINFORCING BARS MAY BE REQUIRED, SEE PLANS AND OTHER DETAILS.

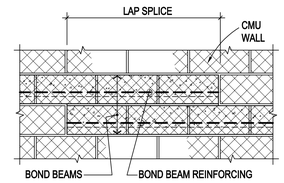
TYPICAL CONCRETE MASONRY VERTICAL WALL REINFORCING DETAILS

NOT TO SCALE



TYPICAL BOND BEAM REINFORCING DETAILS

NOT TO SCALE



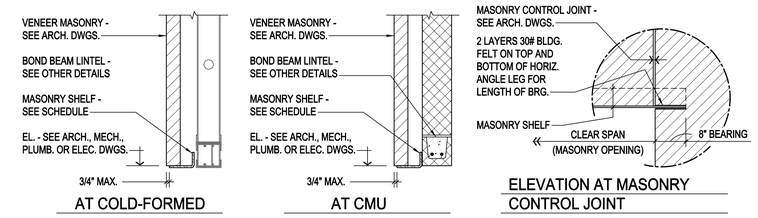
TYPICAL STEPPED BOND BEAM DETAIL

NOT TO SCALE

MASONRY SHELF ANGLE SCHEDULE	
CLEAR SPAN	ANGLE SIZE
0 TO 3'-4"	L 3 1/2 x 3 1/2 x 1/4
3'-5" TO 5'-4"	L 5 x 3 1/2 x 1/4 (LLV)
5'-5" TO 6'-8"	L 6 x 4 x 5/16 (LLV)
6'-9" TO 8'-0"	L 6 x 4 x 3/8 (LLV)
8'-1" TO 10'-0"	L 7 x 4 x 3/8 (LLV)
10'-1" TO 13'-0"	L 8 x 4 x 3/8 (LLV)

MASONRY SHELF NOTES:

1. PROVIDE 8" BEARING EACH END OF SHELF.
2. FOR EXACT SIZE AND LOCATION OF ALL WALL OPENINGS COORDINATE WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
3. MASONRY SHELF SCHEDULE APPLIES ONLY TO MASONRY SHELVES NOT OTHERWISE SHOWN ON THE DRAWINGS.
4. MASONRY SHELVES IN EXTERIOR WALLS SHALL BE HOT-DIP GALVANIZED.



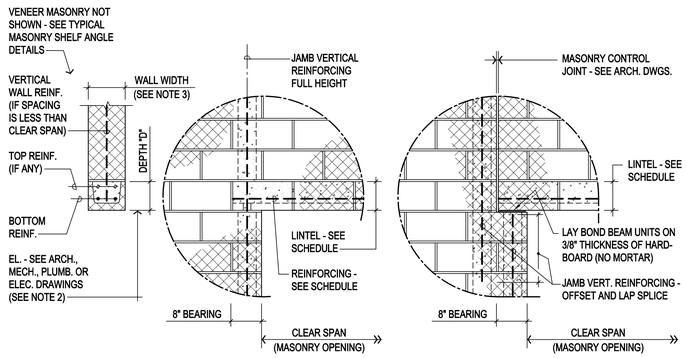
TYPICAL MASONRY SHELF DETAILS

NOT TO SCALE

BOND BEAM LINTEL SCHEDULE		
CLEAR SPAN	DEPTH "D"	REINFORCING
		8" WIDE
0 TO 3'-4"	8	2 - #4 BOTTOM
3'-5" TO 5'-4"	8	2 - #5 BOTTOM
5'-5" TO 6'-8"	16	2 - #5 BOTTOM
6'-9" TO 8'-0"	16	2 - #5 TOP AND BOTT.
8'-1" TO 13'-0"	16	2 - #6 TOP AND BOTT.

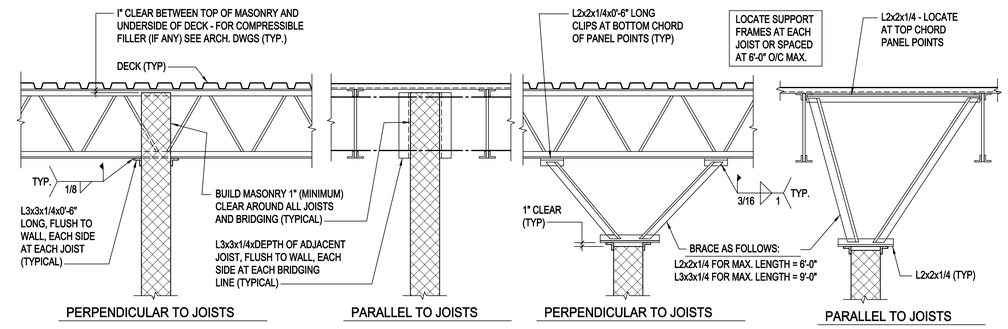
BOND BEAM LINTEL NOTES:

1. PROVIDE 8" CMU BEARING EACH END OF LINTEL.
2. FOR EXACT SIZE AND LOCATION OF ALL WALL OPENINGS COORDINATE WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR WIDTH OF WALL AND REQUIRED WIDTH OF LINTEL, IF DIFFERENT FROM WIDTH OF WALL.
4. BOND BEAM LINTEL SCHEDULE APPLIES ONLY TO LINTELS NOT OTHERWISE SHOWN ON THE DRAWINGS.
4. BOND BEAM LINTEL SCHEDULE APPLIES ONLY TO LINTELS NOT OTHERWISE SHOWN ON THE DRAWINGS.



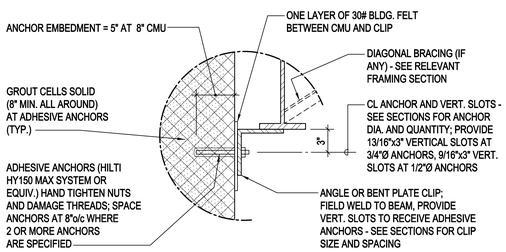
TYPICAL BOND BEAM LINTEL DETAILS

NOT TO SCALE



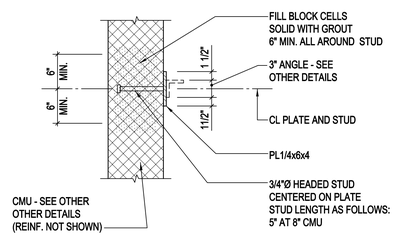
TYPICAL NON-BEARING MASONRY PARTITION DETAILS

NOT TO SCALE



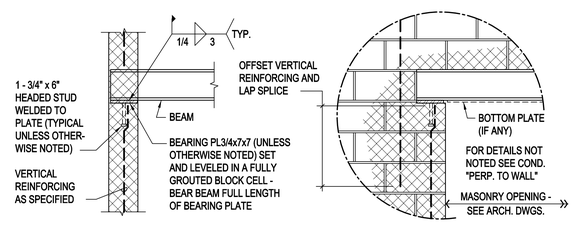
TYPICAL NON-BEARING MASONRY WALL BRACING DETAIL

NOT TO SCALE



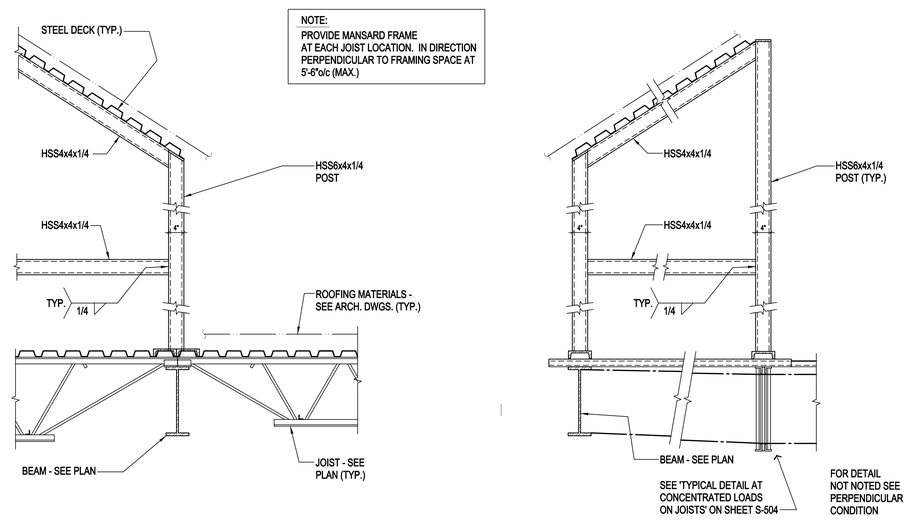
TYPICAL EMBED PLATE DETAIL FOR STEEL ANGLE CONNECTION TO MASONRY WALL

NOT TO SCALE



TYPICAL STEEL BEAM BEARING ON MASONRY DETAIL

NOT TO SCALE



TYPICAL MANSARD FRAMING DETAILS

NOT TO SCALE

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

TYPICAL DETAILS

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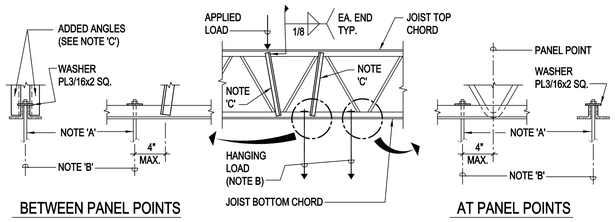


BETWEEN PANEL POINTS

AT PANEL POINTS

NOTES:

A) HANGER RODS - SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

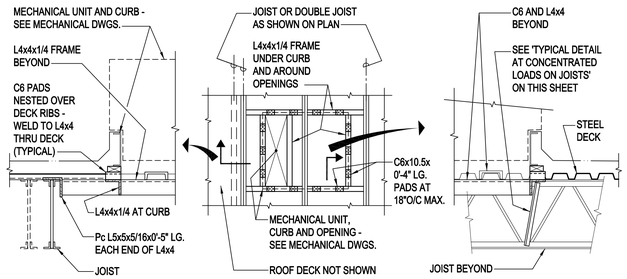
B) POSITION HANGER RODS ON JOIST CENTERLINE BETWEEN BOTTOM CHORD ANGLES. "C" CLAMP CONNECTIONS ARE NOT ALLOWED.

C) WHERE CONCENTRATED LOADS ARE APPLIED TO TOP CHORDS OR HUNG FROM BOTTOM CHORDS BETWEEN PANEL POINTS REINFORCE JOIST WITH DOUBLE ANGLES AS INDICATED. AT "K" SERIES PROVIDE DBL. L1x1x1/8; AT "LH" AND "DLH" SERIES PROVIDE DBL. L2 1/2x2 1/2x1/4.

TYPICAL DETAIL AT CONCENTRATED LOADS ON JOISTS

NOT TO SCALE

NOTE: THIS DETAIL IS FOR ALL LOADS WHICH EXCEED 50 POUNDS



SECTION

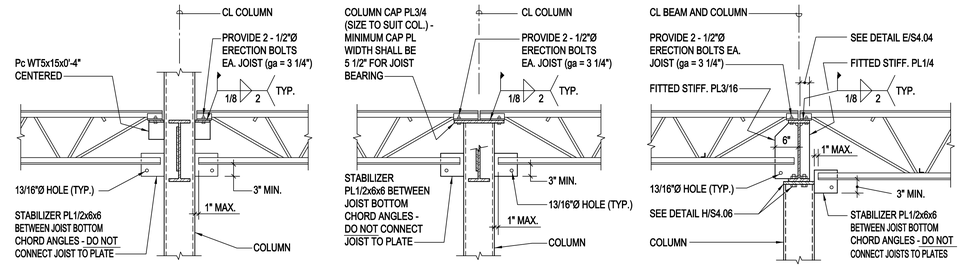
PART FRAMING PLAN

SECTION

DETAILS FOR AREAS WITH 1 1/2" DECK

TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAILS

NOT TO SCALE



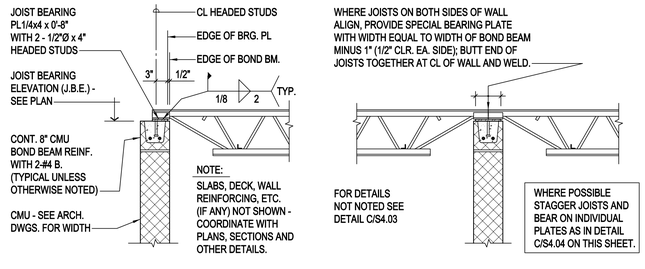
AT FLOOR

AT ROOF (OR FLOOR WHERE COLUMN STOPS)

AT BEAM FRAMED OVER COLUMN

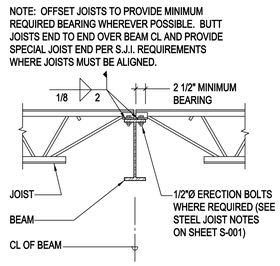
TYPICAL JOIST TO COLUMN CONNECTION DETAILS

NOT TO SCALE



MASONRY, ONE SIDE

MASONRY, BOTH SIDES

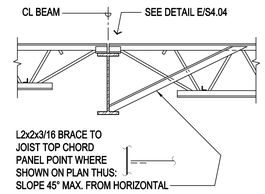


STEEL BEAM

ROOF DECK, WALL REINFORCING, MULTIPLE-WYTHE WALLS, PARAPETS AND VENEER MASONRY NOT SHOWN. COORDINATE WITH PLANS, OTHER DETAILS AND ARCHITECTURAL DRAWINGS. (DETAILS FOR 'K' SERIES JOISTS ARE APPLICABLE WHEN TUBE OR CHANNEL JOIST SUBSTITUTES ARE USED)

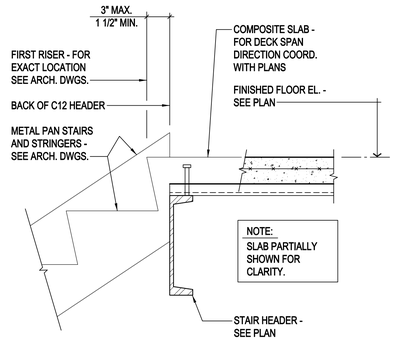
TYPICAL JOIST BEARING DETAILS

NOT TO SCALE



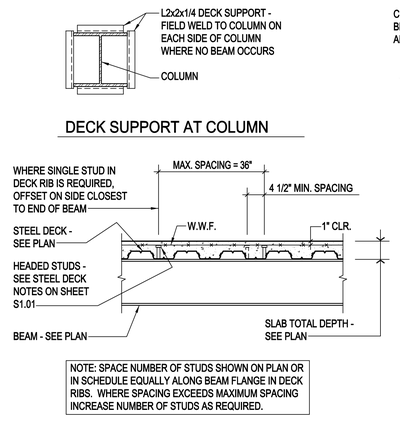
TYPICAL BEAM BOTTOM FLANGE BRACE DETAIL

NOT TO SCALE



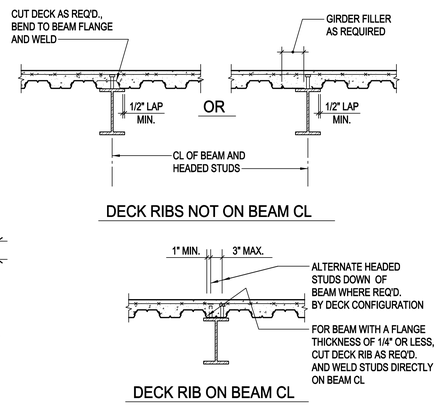
TYPICAL STAIR HEADER DETAIL

NOT TO SCALE



DECK SUPPORT AT COLUMN

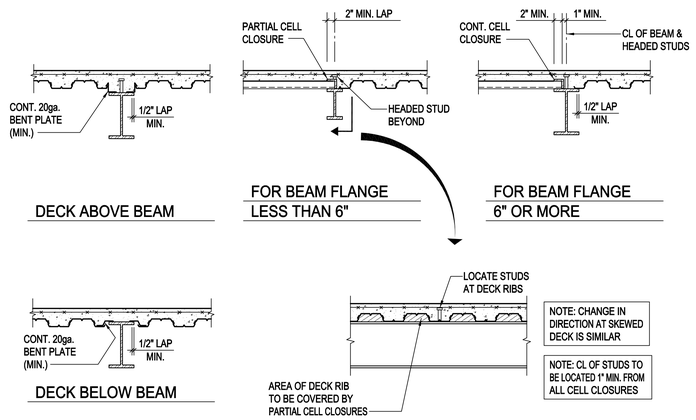
BEAM PERPENDICULAR TO DECK RIBS



DECK RIBS NOT ON BEAM CL

DECK RIB ON BEAM CL

BEAM PARALLEL TO DECK RIBS



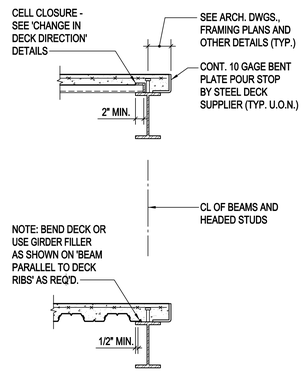
DECK ABOVE BEAM

DECK BELOW BEAM

FOR BEAM FLANGE LESS THAN 6"

FOR BEAM FLANGE 6" OR MORE

CHANGE IN DECK DIRECTION



EDGE CONDITIONS

TYPICAL COMPOSITE FRAMING DETAILS

NOT TO SCALE

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
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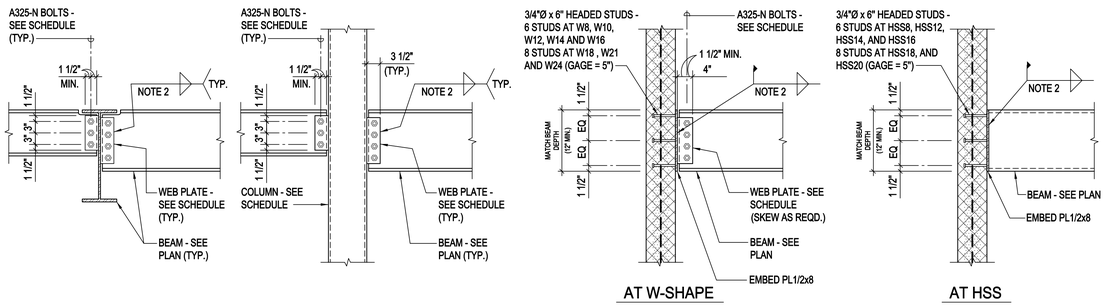


BEAM TO BEAM

BEAM TO HSS AND PIPE COLUMNS

AT W-SHAPE

AT HSS

BEAM TO EMBED PLATES

TYPICAL BOLTED WEB PLATE CONNECTION DETAILS

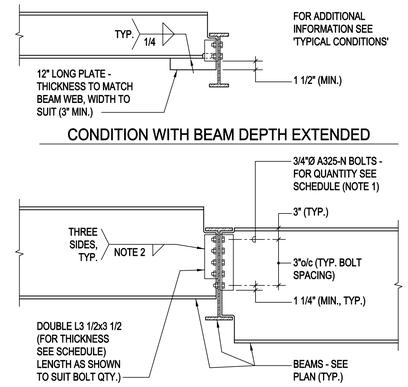
NOT TO SCALE

WEB PLATE CONNECTION SCHEDULE

MAXIMUM BEAM SIZE IN EACH BEAM DEPTH GROUP	WEB PLATE THICKNESS	A325-N BOLTS	
		QUANTITY	SIZE
W10	3/8"	2	3/4" DIA.
W12	3/8"	3	3/4" DIA.
W14	3/8"	3	3/4" DIA.
W16	3/8"	4	3/4" DIA.
W18	3/8"	5	3/4" DIA.
W21	3/8"	6	3/4" DIA.
W24	3/8"	7	3/4" DIA.
W27	1/2"	8	3/4" DIA.
W30	1/2"	8	3/4" DIA.
W33	3/4"	9	3/4" DIA.

WEB PLATE CONNECTION NOTES:

1. BOLT EDGE DISTANCE SHALL BE 1 1/2" MIN. AT ALL EDGES. BOLT SPACING SHALL BE 3" MIN.
2. FILLET WELDS SHALL BE 3/4 OF THE PLATE THICKNESS (1/4" MIN.) EACH SIDE.
3. THICKNESS EQUALS FLANGE THICKNESS OF BEAM FRAMING INTO COLUMN WEB (3/8" MIN.).



CONDITION WITH BEAM DEPTH EXTENDED

TYPICAL CONDITIONS

BOLTED DOUBLE ANGLE CONNECTION SCHEDULE

BEAM SIZE	MIN. ANGLE THICKNESS	MIN. BOLT QUANTITY
W8 - W10	5/16"	2
W12	5/16"	2
W14	5/16"	2
W16	5/16"	3
W18	3/8"	4
W21	3/8"	4
W24	3/8"	5
W27	3/8"	6
W30	3/8"	6

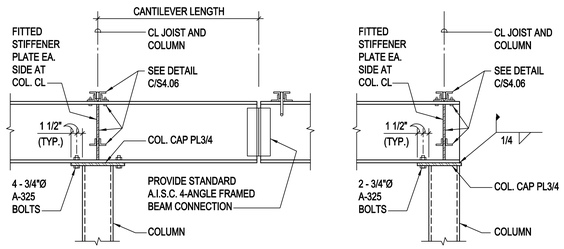
DOUBLE ANGLE CONNECTION NOTES :

1. BOLT QUANTITY SHOWN IS MINIMUM NUMBER REQUIRED ON EACH SIDE OF BEAM WEB.
2. FILLET WELDS SHALL BE 3/4 OF THE ANGLE THICKNESS (1/4" MIN.).

THESE DETAILS ARE APPLICABLE AT CONNECTIONS WHERE THERE IS INSUFFICIENT DEPTH AT THE BEAM TO BEAM CONNECTION TO ALLOW USE OF A BOLTED WEB PLATE CONNECTION AS SHOWN IN THE DETAILS ON THIS SHEET AND NO OTHER CONNECTION IS SPECIFIED.

TYPICAL BOLTED DOUBLE ANGLE BEAM TO BEAM CONNECTION DETAILS

NOT TO SCALE

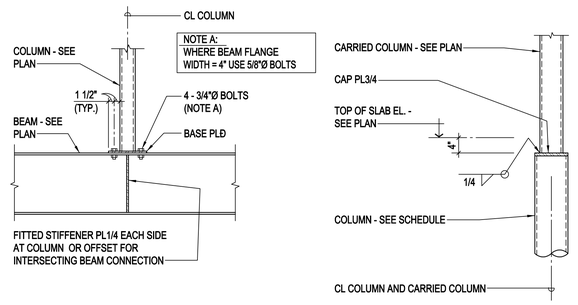


'TYPICAL'

'AT END'

TYPICAL BEAM OVER COLUMN CONNECTION DETAILS

NOT TO SCALE

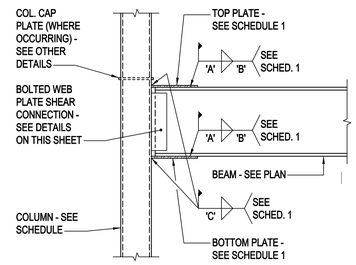


AT STEEL BEAM

AT STEEL COLUMN

TYPICAL CARRIED COLUMN DETAILS

NOT TO SCALE



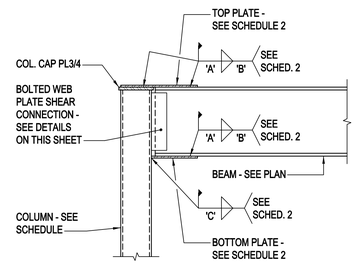
TYPICAL BEAMS

SCHEDULE 1

BEAM SIZE	TOP PLATE	BOTTOM PLATE	WELD 'A'	LENGTH 'B'	WELD 'C'	REMARKS
W12	PL5/16x3x8	PL1/4x5x8	1/4	6	5/16	—
W14	PL3/8x4x8	PL5/16x6x8	1/4	6	5/16	—

SCHEDULE 1 REMARKS:

1. SEE FRAMING PLANS FOR BEAM SIZES, LOCATIONS AND MOMENT CONNECTION DESIGNATIONS. SEE STRUCTURAL STEEL NOTES ON SHEET S1.1 AND THE SPECIFICATIONS FOR OTHER INFORMATION.
2. TOP PLATE WELD 'A' IS AN OVERHEAD WELD SINCE PLATE IS WIDER THAN BEAM FLANGE.
3. WELD 'C' SHALL BE A COMPLETE PENETRATION GROOVE WELD.
4. BOTTOM PLATE WELD 'A' IS AN OVERHEAD WELD SINCE PLATE IS NARROWER THAN BEAM FLANGE.



BEAMS AT TOP OF COLUMN (ONE SIDE ONLY)

SCHEDULE 2

BEAM SIZE	TOP PLATE	BOTTOM PLATE	WELD 'A'	LENGTH 'B'	WELD 'C'	REMARKS
W14	PL3/8x4x1'-4"	PL5/16x6x8	1/4	6	5/16	—
W16	PL3/8x4x1'-4"	PL5/16x6x8	1/4	6	5/16	—

SCHEDULE 2 REMARKS:

1. SEE FRAMING PLANS FOR BEAM SIZES, LOCATIONS AND MOMENT CONNECTION DESIGNATIONS. SEE STRUCTURAL STEEL NOTES ON SHEET S1.1 AND THE SPECIFICATIONS FOR OTHER INFORMATION.

TYPICAL BEAM TO HSS COLUMN MOMENT CONNECTION DETAILS

NOT TO SCALE

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

SPEIGHT, MARSHALL & FRANCIS, P.C.
STRUCTURAL ENGINEERS
2125 McCOMBS WAY, SUITE 103 VIRGINIA BEACH VA. 23454
PHONE (757) 427-1020 FAX (757) 427-5919
SMAF Job No:

HBA
HBA ARCHITECTURE & INTERIOR DESIGN, INC.
ONE COLUMBUS CENTER, SUITE 1000
VIRGINIA BEACH, VIRGINIA 23462
PHONE: (757) 490-9048
FAX: (757) 490-7081

DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

TYPICAL DETAILS

ISSUED FOR:	MARK:	DATE:
PRICING PLAN COORDINATION SET		09.01.16
COMPREHENSIVE AGREEMENT SET		09.19.16

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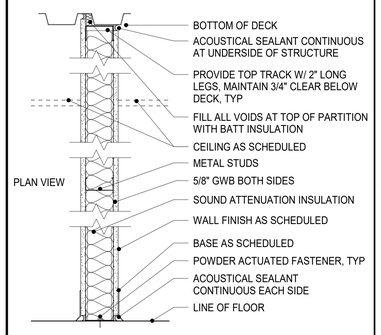
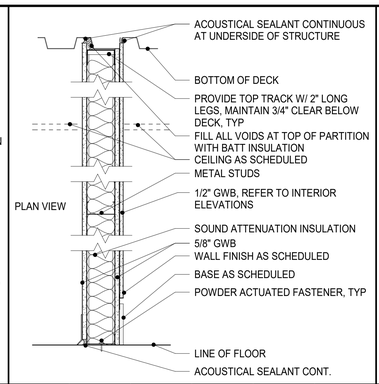


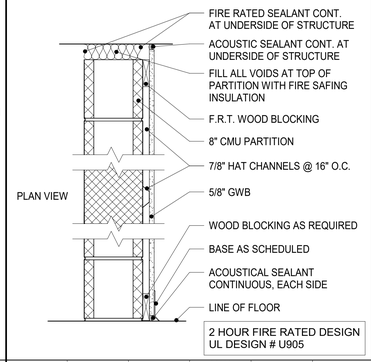
TYPE	WIDTH	STUD SIZE	MAX STUD SPACING	INSUL	NOTES
A	4 7/8"	3 5/8"	16" OC	3 1/2"	-
A1	4 1/4"	3 5/8"	16" OC	3 1/2"	1

PARTITION TYPE A



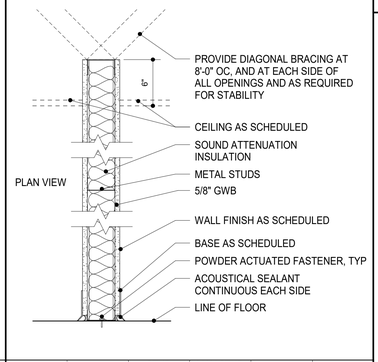
TYPE	WIDTH	STUD SIZE	MAX STUD SPACING	INSUL	NOTES
B	5 3/8"	3 5/8"	16" OC	3 1/2"	-
B1	4 7/8"	3 5/8"	16" OC	3 1/2"	2
B2	5 7/8"	3 5/8"	16" OC	3 1/2"	4

PARTITION TYPE B



TYPE	WIDTH	CMU SIZE	MAX CHANNEL SPACING	INSUL	NOTES
C	9 1/8"	8"	16" OC	-	-

PARTITION TYPE C

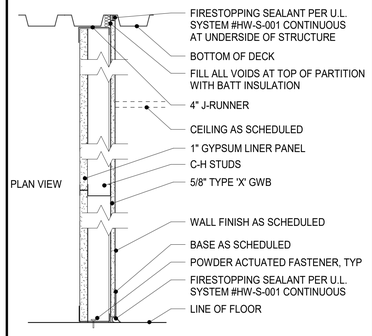


TYPE	WIDTH	STUD SIZE	MAX STUD SPACING	INSUL	NOTES
D	4 7/8"	3 5/8"	16" OC	3 1/2"	-
D1	2 1/4"	1 5/8"	16" OC	1 1/2"	1
D2	2 1/4"	1 5/8"	16" OC	-	1
D3	4 7/8"	3 5/8"	16" OC	-	-
D4	4 1/4"	3 5/8"	16" OC	-	1
D5	4 1/4"	3 5/8"	16" OC	3 1/2"	1
D6	5 3/8"	3 5/8"	16" OC	-	3

PARTITION TYPE D

PARTITION TYPE NOTES

1. 5/8" GWB ONE SIDE ONLY.
2. 2 LAYERS OF 5/8" GWB ON ONE SIDE ONLY.
3. 2 LAYERS OF GWB (5/8" + 1/2") ON ONE SIDE, 1 LAYER OF 5/8" GWB ON OPPOSITE SIDE. 2 LAYERS SHOULD BE FACING BOARDROOM, LOBBY OR PUBLIC CORRIDOR.
4. 2 LAYERS OF GWB (5/8" + 1/2") ON TWO SIDES



TYPE	WIDTH	STUD SIZE	MAX STUD SPACING	INSUL	NOTES
E	5 5/8"	4"	16" OC	-	-

PARTITION TYPE E

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

PARTITION TYPES

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
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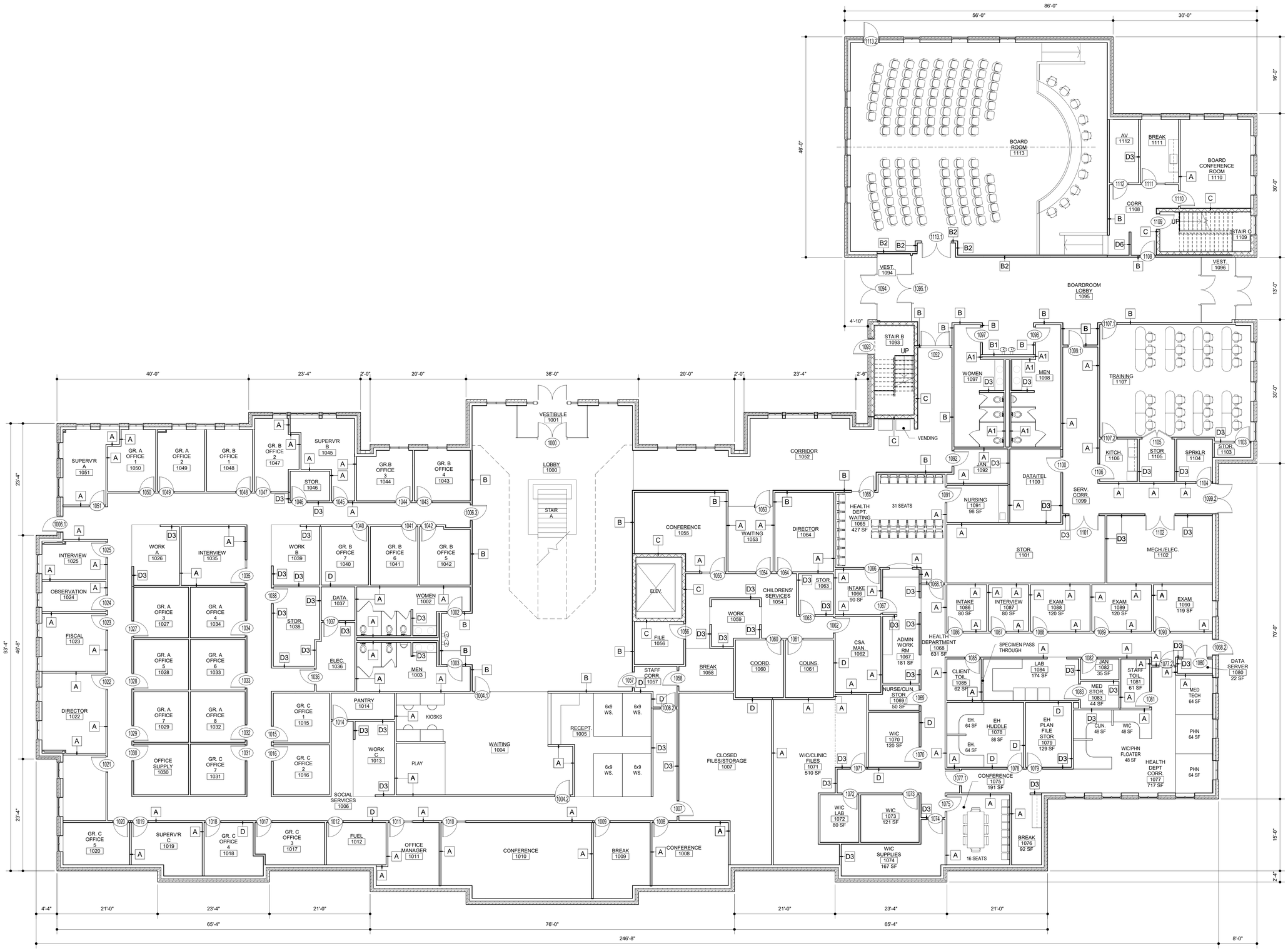

FIRST FLOOR PLAN

1/8" = 1'-0"

NOTE: SEE ENLARGED FLOOR PLANS FOR PARTITION TYPES NOT INDICATED. PARTITION TYPE D IS TYPICAL, UNLESS OTHERWISE NOTED (UON).

ALL COLUMN WRAPS ARE TO BE PARTITION TYPE D2, UON. COLUMN WRAPS WITH RAIN LEADERS AND SANITARY LINES ARE TO BE PARTITION TYPE D1, UON.

GROSS BUILDING AREA

Level	Area
FIRST FLOOR	28860 SF
SECOND FLOOR	25625 SF
TOTAL GROSS AREA:	54484 SF

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DINWIDDIE COUNTY MUNICIPAL FACILITIES

ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

FIRST FLOOR PLAN

NOT FOR CONSTRUCTION

ISSUED FOR: COMPREHENSIVE AGREEMENT SET

MARK: DATE: 9/19/2016

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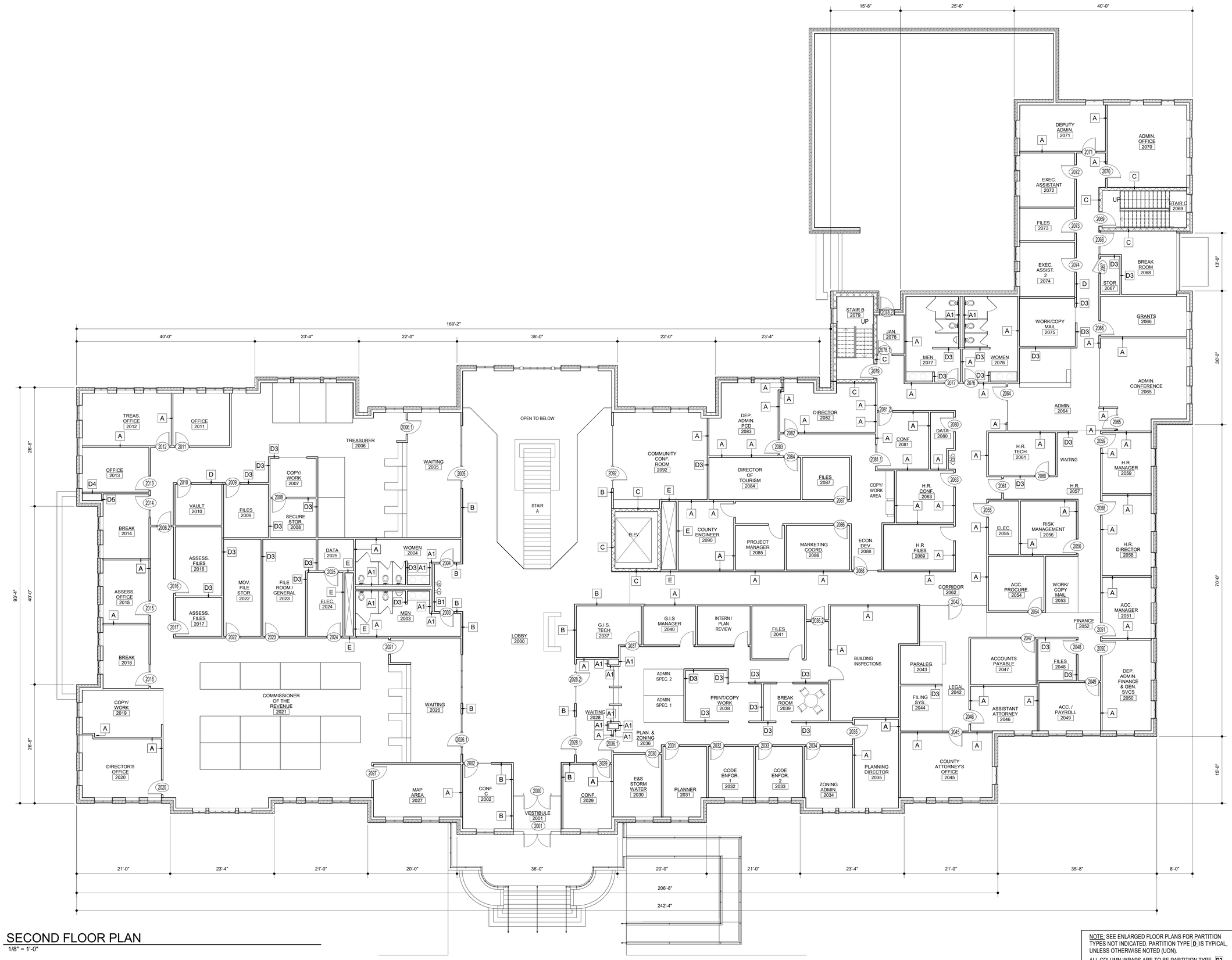

SECOND FLOOR PLAN

1/8" = 1'-0"

NOTE: SEE ENLARGED FLOOR PLANS FOR PARTITION TYPES NOT INDICATED. PARTITION TYPE D IS TYPICAL, UNLESS OTHERWISE NOTED (UON).

ALL COLUMN WRAPS ARE TO BE PARTITION TYPE D2, UON. COLUMN WRAPS WITH RAIN LEADERS AND SANITARY LINES ARE TO BE PARTITION TYPE D1, UON.

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DINWIDDIE COUNTY MUNICIPAL FACILITIES

ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

SECOND FLOOR PLAN

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A102

CEILING NOTES:

1. CEILING HEIGHTS ARE [**+9'-4"**] ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
2. UNLESS OTHERWISE NOTED, CEILING TILE SHALL BE CENTERED IN EACH ROOM, IN ACCORDANCE WITH THE LAYOUTS SHOWN.
3. THE CEILING CONTRACTOR SHALL MAKE ADJUSTMENTS NECESSARY TO ELIMINATE ADDITIONAL, SMALL, OR ODD PIECES OF CEILING TILE. USE **24"X48"** TO ELIMINATE CUTS SMALLER THAN **4"**.
4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURES, EXIT LIGHT LOCATIONS, AIR DIFFUSERS, EXHAUST FANTS, ETC.
5. WHERE TILES ARE CUT, COPE AND FINISH EDGES TO MATCH UNCUT TILE.
6. ACOUSTICAL CEILING TILE AND GRID SHALL BE **ACT-1**, UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ON CEILING PLAN ARE TO FINISHED SURFACES AND CENTERLINES OF FIXTURES.
8. CENTER ALL LIGHTS, DIFFUSERS, FIXTURES, ETC. IN CEILING TILES UNLESS OTHERWISE NOTED.
9. SPRINKLER HEADS TO BE CENTERED IN CEILING TILES.
10. THE CONTRACTOR SHALL DAMP CLEAN AND HAND DRY ALL FIXTURES AND LAMPS JUST PRIOR TO FINAL INSPECTION.
11. SEE INTERIOR ELEVATIONS AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE MOUNTING.
12. ALL CEILING HEIGHTS NOTED ABOVE RAISED ACCESS FLOORS ARE FROM THE RAISED ACCESS FLOOR SURFACE.
13. TURN UP GYPSUM BOARD CEILING EXPANSION JOINT ON VERTICAL SURFACES OF GYPSUM BOARD CEILING ABOVE THE JOINT.
14. INSULATE ABOVE CEILING WITH ACOUSTICAL CEILING BATTS

CEILING LEGEND

ACT-1: 24"X24" LAY-IN PANELS, 9/16" BEVELED TEGULAR, NRC 0.50

ACT-2: 24"X24" LAY-IN PANELS, 9/16" BEVELED TEGULAR, NRC 0.75

ACT-3: 24"X24" FINE FISSURED SQUARE LAY-IN, NRC 0.70

FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

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DINWIDDIE COUNTY MUNICIPAL FACILITIES

ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

FIRST FLOOR REFLECTED CEILING PLAN

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A111

CEILING NOTES:

1. CEILING HEIGHTS ARE [**+9'-4"**] ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
2. UNLESS OTHERWISE NOTED, CEILING TILE SHALL BE CENTERED IN EACH ROOM, IN ACCORDANCE WITH THE LAYOUTS SHOWN.
3. THE CEILING CONTRACTOR SHALL MAKE ADJUSTMENTS NECESSARY TO ELIMINATE ADDITIONAL, SMALL, OR ODD PIECES OF CEILING TILE. USE **24"X48"** TO ELIMINATE CUTS SMALLER THAN **4"**.
4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURES, EXIT LIGHT LOCATIONS, AIR DIFFUSERS, EXHAUST FANTS, ETC.
5. WHERE TILES ARE CUT, COPE AND FINISH EDGES TO MATCH UNCUT TILE.
6. ACOUSTICAL CEILING TILE AND GRID SHALL BE **ACT-1**, UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ON CEILING PLAN ARE TO FINISHED SURFACES AND CENTERLINES OF FIXTURES.
8. CENTER ALL LIGHTS, DIFFUSERS, FIXTURES, ETC. IN CEILING TILES UNLESS OTHERWISE NOTED.
9. SPRINKLER HEADS TO BE CENTERED IN CEILING TILES.
10. THE CONTRACTOR SHALL DAMP CLEAN AND HAND DRY ALL FIXTURES AND LAMPS JUST PRIOR TO FINAL INSPECTION.
11. SEE INTERIOR ELEVATIONS AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE MOUNTING.
12. ALL CEILING HEIGHTS NOTED ABOVE RAISED ACCESS FLOORS ARE FROM THE RAISED ACCESS FLOOR SURFACE.
13. TURN UP GYPSUM BOARD CEILING EXPANSION JOINT ON VERTICAL SURFACES OF GYPSUM BOARD CEILING ABOVE THE JOINT.
14. INSULATE ABOVE CEILING WITH ACOUSTICAL CEILING BATTS

CEILING LEGEND

ACT-1: 24"X24" LAY-IN PANELS, 9/16" BEVELED TEGULAR, NRC 0.50

ACT-2: 24"X24" LAY-IN PANELS, 9/16" BEVELED TEGULAR, NRC 0.75

ACT-3: 24"X24" FINE FISSURED SQUARE LAY-IN, NRC 0.70

SECOND FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

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DINWIDDIE COUNTY MUNICIPAL FACILITIES

ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

SECOND FLOOR REFLECTED CEILING PLAN

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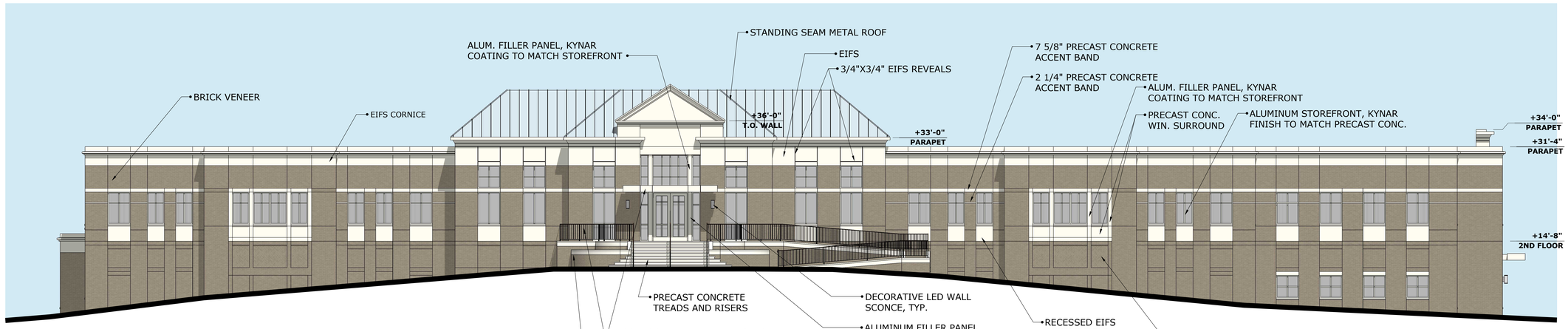

SOUTH-EAST ELEVATION (BOYDTON PLANK ROAD)
1/8"=1'=0"

SOUTH-WEST ELEVATION
1/8"=1'=0"

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

BUILDING ELEVATIONS

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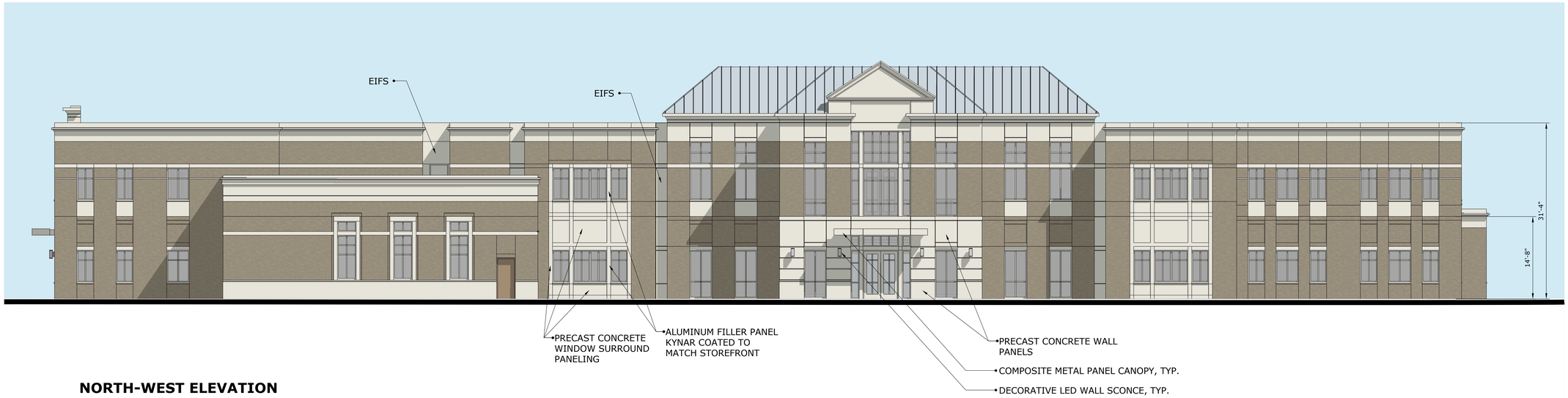

NORTH-WEST ELEVATION
1/8"=1'=0"

NORTH-EAST ELEVATION
1/8"=1'=0"

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

BUILDING ELEVATIONS

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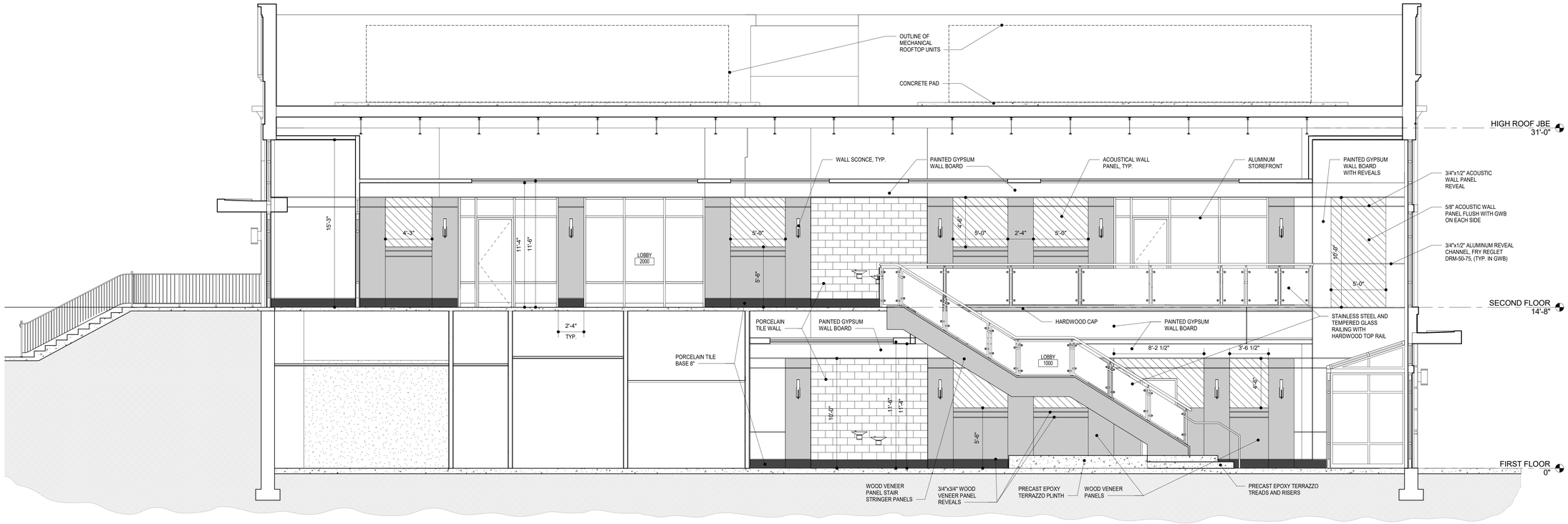
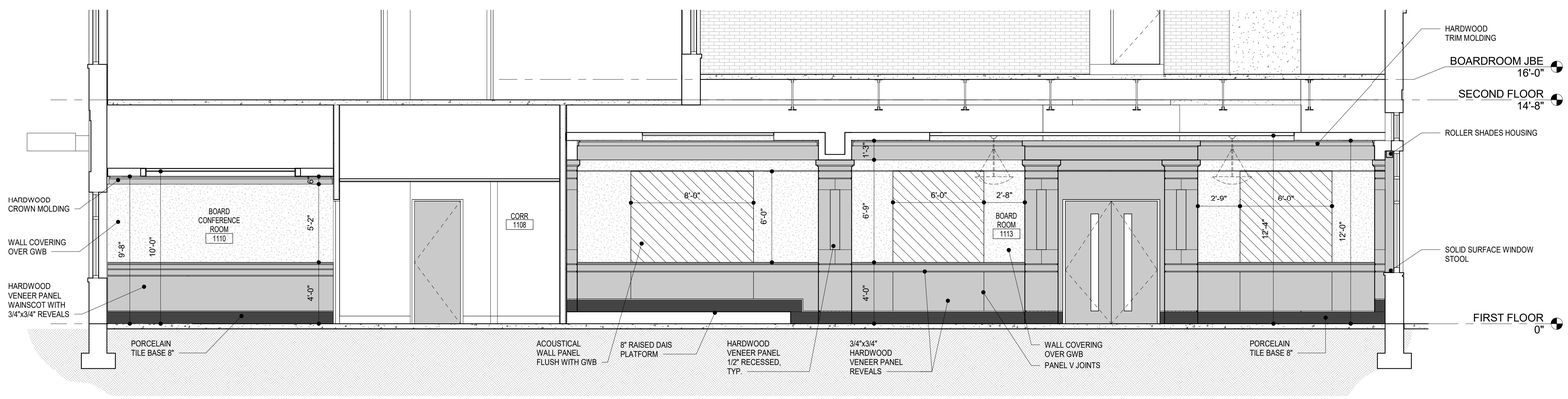


MAIN LOBBY SECTION

1/4" = 1'-0"



BOARDROOM SECTION

1/4" = 1'-0"

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

BUILDING SECTIONS

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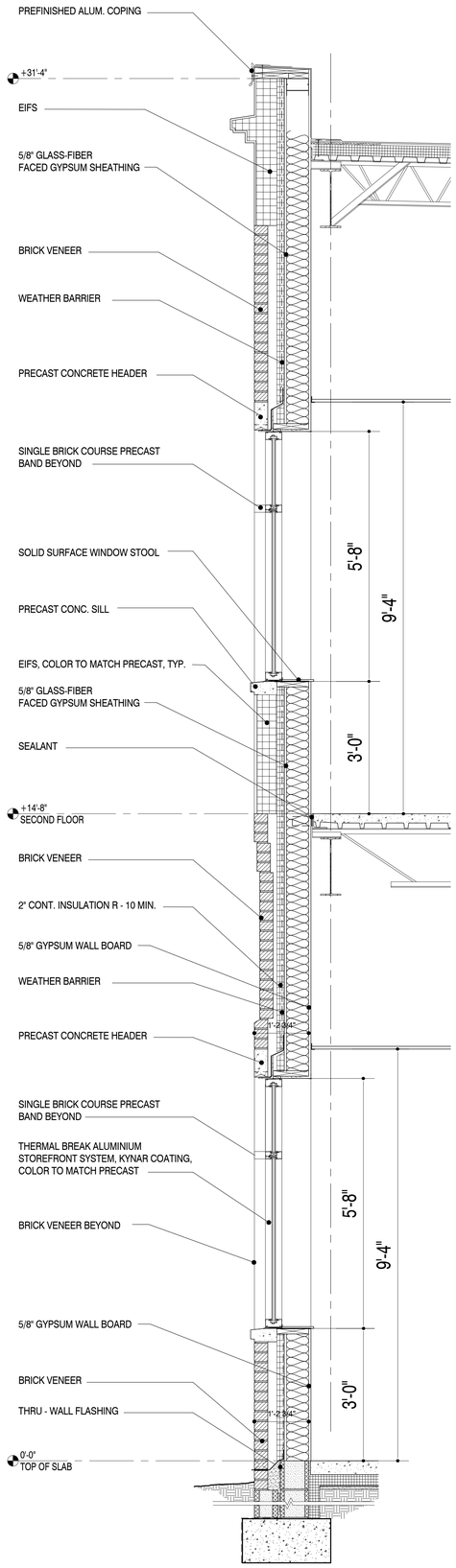

TYPICAL WALL SECTION

3/4" = 1'-0"

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

WALL SECTIONS

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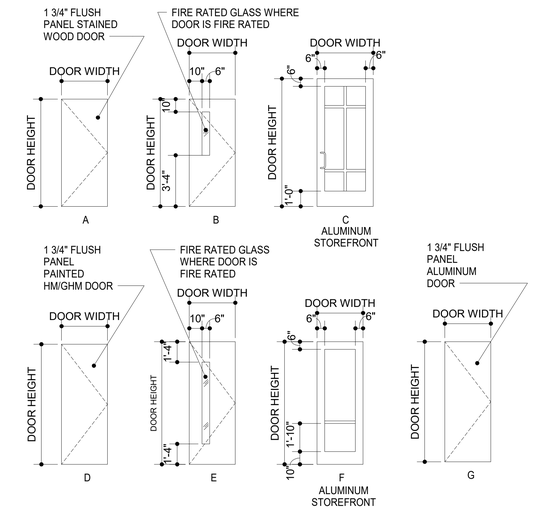
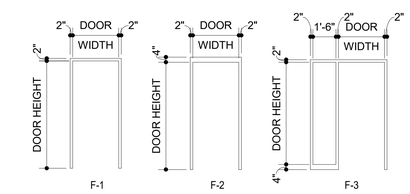
DOOR NUMBER	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR PAIR (PR) SINGLE (S)	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FIRE RATING	HARDWARE SET	REMARKS
FIRST FLOOR															
1000	3'-0"	8'-6"	1 3/4"	C	AL	PR		-	AL						
1001	3'-0"	8'-6"	1 3/4"	C	AL	PR		-	AL						
1002	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
1003	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
1004.1	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
1004.2	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1006.1	3'-0"	7'-0"	1 3/4"	C	AL	S		-	AL						
1006.2	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1006.3	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
1007	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1008	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1009	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1010	3'-0"	7'-0"	1 3/4"	A	WD	S		F-3	HM						
1011	3'-0"	7'-0"	1 3/4"	A	WD	S		F-3	HM						
1012	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1014	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1015	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1016	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1017	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1018	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1019	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1020	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1021	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1022	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1023	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1024	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1025	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1027	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1028	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1029	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1030	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1031	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1032	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1033	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1034	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1035	3'-0"	7'-0"	1 3/4"	A	WD	S		F-3	HM						
1036	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1037	3'-0"	7'-0"	1 3/4"	D	WD	S		F-1	HM						
1038	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1040	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1041	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1042	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1043	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1044	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1045	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1046	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1047	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1048	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1049	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1050	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1051	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1052	3'-0"	8'-0"	1 3/4"	E	WD	PR		F-1	HM						
1053	3'-0"	7'-0"	1 3/4"	F	AL	S		-	AL						
1054	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1055	3'-0"	7'-0"	1 3/4"	A	WD	S		F-3	HM						
1056	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1057	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
1058	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1060	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1061	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1062	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1063	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1064	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1065	3'-0"	7'-0"	1 3/4"	F	AL	S		-	AL						
1066	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1067	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1068.1	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1068.2	3'-0"	7'-0"	1 3/4"	C	AL	S		-	AL						
1069	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1070	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1071	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1072	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1073	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1074	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1075	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1077.1	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1077.2	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1078	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1079	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1080	2'-6"	7'-0"	1 3/4"	A	WD	PR		F-1	HM						
1081	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1082	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1083	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1085	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1086	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1087	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1088	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1089	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1090	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1091	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1092	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1093	3'-0"	7'-0"	1 3/4"	C	AL	S		-	AL						
1094	3'-0"	8'-6"	1 3/4"	C	AL	PR		-	AL						
1095.1	3'-0"	8'-6"	1 3/4"	C	AL	PR		-	AL						
1095.2	3'-0"	8'-6"	1 3/4"	C	AL	PR		-	AL						
1096	3'-0"	8'-6"	1 3/4"	C	AL	PR		-	AL						
1097	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
1098	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
1099.1	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
1099.2	3'-0"	7'-0"	1 3/4"	G	AL	PR		F-2	AL						
1100	3'-0"	7'-0"	1 3/4"	D	HM	S		F-1	HM						
1101	3'-0"	7'-0"	1 3/4"	D	HM	PR		F-1	HM						
1102	3'-0"	7'-0"	1 3/4"	D	HM	PR		F-1	HM						
1103	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1104	3'-0"	7'-0"	1 3/4"	D	HM	S		F-1	HM						
1105	3'-0"	7'-0"	1 3/4"	A	WD	PR		F-1	HM						
1106	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1107.1	3'-0"	8'-0"	1 3/4"	B	WD	S		F-1	HM						
1107.2	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
1108	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
1109	3'-0"	8'-0"	1 3/4"	A	WD	S		F-2	HM						45 MIN.
1110	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
1111	3'-0"	7'-0"	1 3/4"	A	WD	S		F-3	HM						
1112	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
1113.1	3'-0"	8'-0"	1 3/4"	E	WD	PR		F-1	HM						
1113.2	3'-0"	7'-0"	1 3/4"	G	AL	S		F-2	AL						
SECOND FLOOR															
2000	3'-0"	8'-6"	1 3/4"	C	AL	PR		-	AL						
2001	3'-0"	8'-6"	1 3/4"	C	AL	PR		-	AL						
2002	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
2003	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
2004	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
2005	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
2006.1	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2006.2	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2008	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2009	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2010	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2011	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2012	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2013	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2014	3'-0"	7'-0"	1 3/4"	A	WD	S		F-3	HM						
2015	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2016	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2017	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2018	3'-0"	7'-0"	1 3/4"	A	WD	S		F-3	HM						
2020	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2021	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2022	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2023	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2024	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2025	3'-0"	7'-0"	1 3/4"	D	WD	S		F-1	HM						
2026.1	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
2027	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2028.1	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
2028.2	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
2029	3'-0"	7'-0"	1 3/4"	A	WD	S		F-3	HM						
2030	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2031	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2032	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2033	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2034	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2035	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2036.1	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2036.2	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
2037	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2040	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2041	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2042	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
2045	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2046	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2047	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2048	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2049	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2050	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2051	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2054	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2055	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
2056	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2058	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2059	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2060	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2061	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2063	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
2064	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
2065	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
2066	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2067	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2068	3'-0"	7'-0"	1 3/4"	A	WD	S		F-3	HM						
2069	3'-0"	7'-0"	1 3/4"	A	WD	S		F-2	HM						45 MIN.
2070	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2071	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2072	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2073	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2074	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2076	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
2077	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
2078.1	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
2078.2	3'-0"	6'-8"	1 3/4"	D	HM	S		F-1	HM						
2079	3'-0"	8'-0"	1 3/4"	A	WD	S		F-2	HM						45 MIN.
2080	3'-0"	8'-0"	1 3/4"	A	WD	S		F-1	HM						
2081.1	3'-0"	7'-0"	1 3/4"	A	WD	S		F-3	HM						
2081.2	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2082	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2083	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2084	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2085	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2086	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2087	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2088	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
2089	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2090	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						
2091	3'-0"	7'-0"	1 3/4"	A	WD	S		F-1	HM						
2092	3'-0"	8'-0"	1 3/4"	F	AL	S		-	AL						

DOOR TYPES



FRAME TYPES



HBA ARCHITECTURE & INTERIOR DESIGN, INC.
ONE COLUMBUS CENTER, SUITE 1000
VIRGINIA BEACH, VIRGINIA 23462
PHONE: (757) 490-7081
FAX: (757) 490-7081

DINWIDDIE COUNTY MUNICIPAL FACILITIES

ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

DOOR SCHEDULE AND DETAILS

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
FINAL PRICING REVIEW		9/22/2016

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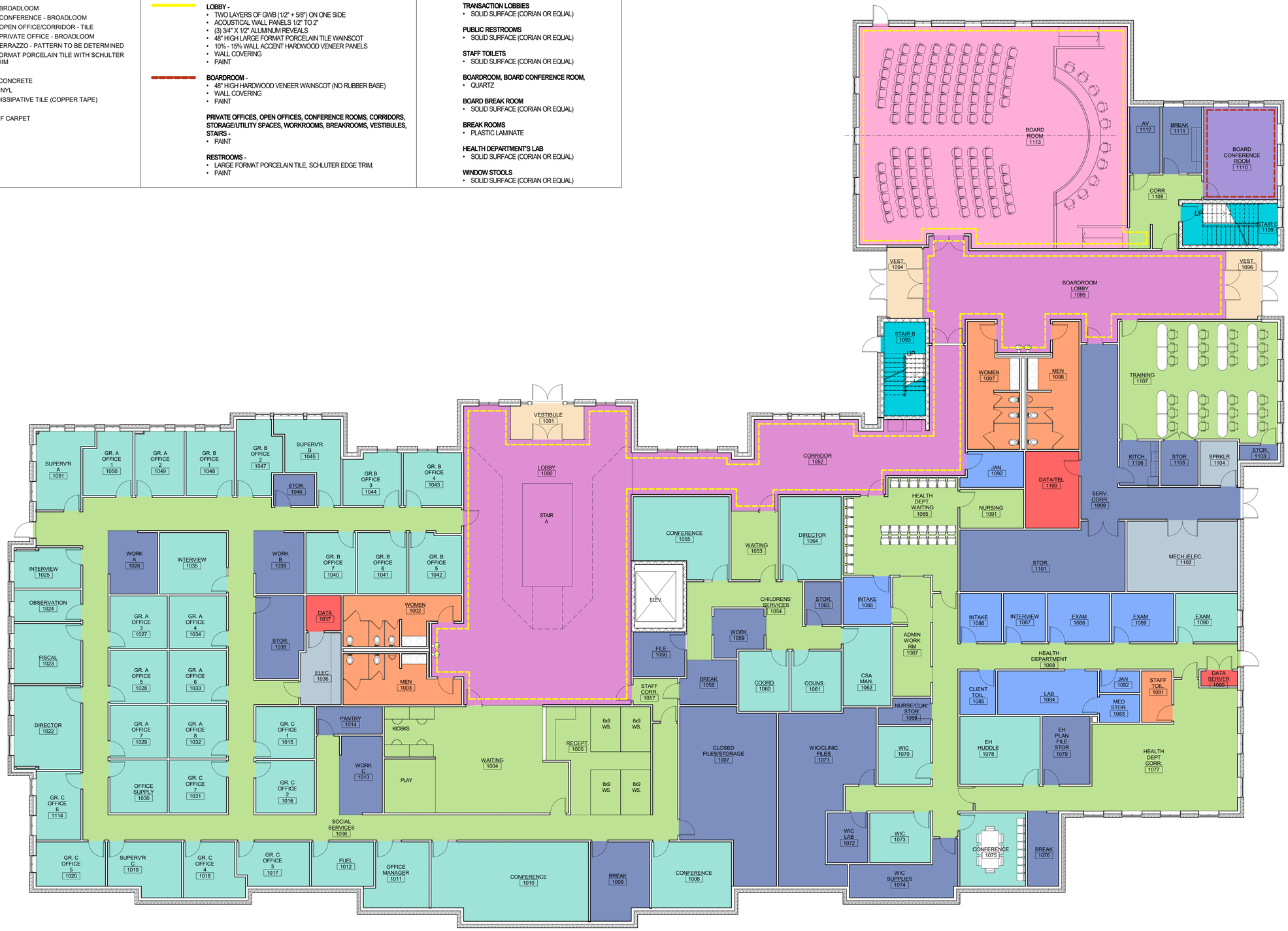
16062

A601

FLOOR FINISHES	WALL FINISHES	COUNTERTOPS
CARPET BROADLOOM CARPET CONFERENCE - BROADLOOM CARPET OPEN OFFICE/CORRIDOR - TILE CARPET PRIVATE OFFICE - BROADLOOM EPOXY TERRAZZO - PATTERN TO BE DETERMINED LARGE FORMAT PORCELAIN TILE WITH SCHULTER EDGE TRIIM RUBBER SEALED CONCRETE SHEET VINYL STATIC DISSIPATIVE TILE (COPPER TAPE) VCT WALK OFF CARPET	**LOBBY -** • TWO LAYERS OF GWB (1/2" + 5/8") ON ONE SIDE • ACOUSTICAL WALL PANELS 1/2" TO 2" • (3) 3/4" X 1/2" ALUMINUM REVEALS • 48" HIGH LARGE FORMAT PORCELAIN TILE WAINSCOT • 10% - 15% WALL ACCENT HARDWOOD VENEER PANELS • WALL COVERING • PAINT **BOARDROOM -** • 48" HIGH HARDWOOD VENEER WAINSCOT (NO RUBBER BASE) • WALL COVERING • PAINT **PRIVATE OFFICES, OPEN OFFICES, CONFERENCE ROOMS, CORRIDORS, STORAGE/UTILITY SPACES, WORKROOMS, BREAKROOMS, VESTIBULES, STAIRS -** • PAINT **RESTROOMS -** • LARGE FORMAT PORCELAIN TILE, SCHLUTER EDGE TRIM, • PAINT	**TRANSACTION LOBBIES** • SOLID SURFACE (CORIAN OR EQUAL) **PUBLIC RESTROOMS** • SOLID SURFACE (CORIAN OR EQUAL) **STAFF TOILETS** • SOLID SURFACE (CORIAN OR EQUAL) **BOARDROOM, BOARD CONFERENCE ROOM,** • QUARTZ **BOARD BREAK ROOM** • SOLID SURFACE (CORIAN OR EQUAL) **BREAK ROOMS** • PLASTIC LAMINATE **HEALTH DEPARTMENT'S LAB** • SOLID SURFACE (CORIAN OR EQUAL) **WINDOW STOOLS** • SOLID SURFACE (CORIAN OR EQUAL)



FIRST FLOOR - FINISH PLAN

1/8" = 1'-0"

HBA ARCHITECTURE & INTERIOR DESIGN, INC.
ONE COLUMBUS CENTER, SUITE 1000
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PHONE: (757) 490-9040
FAX: (757) 490-7081

DINWIDDIE COUNTY MUNICIPAL FACILITIES

ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

FIRST FLOOR FINISH PLAN

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
COMPREHENSIVE AGREEMENT SET		9/19/2016

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I101

FLOOR FINISHES

- CARPET CONFERENCE - BROADLOOM
- CARPET OPEN OFFICE/CORRIDOR - TILE
- CARPET PRIVATE OFFICE - BROADLOOM
- EPOXY TERRAZZO - PATTERN TO BE DETERMINED
- LARGE FORMAT PORCELAIN TILE WITH SCHULTER EDGE TRIIM
- RUBBER
- SEALED CONCRETE
- SHEET VINYL
- STATIC DISSIPATIVE TILE (COPPER TAPE)
- VCT
- WALK OFF CARPET

WALL FINISHES

LOBBY -
- TWO LAYERS OF GWB (1/2" + 5/8") ON ONE SIDE
- ACOUSTICAL WALL PANELS 1/2" TO 2"
- (3) 3/4" X 1/2" ALUMINUM REVEALS
- 48" HIGH LARGE FORMAT PORCELAIN TILE WAINSCOT
- 10% - 15% WALL ACCENT HARDWOOD VENEER PANELS
- WALL COVERING
- PAINT

BOARDROOM -
- 48" HIGH HARDWOOD VENEER WAINSCOT (NO RUBBER BASE)
- WALL COVERING
- PAINT

PRIVATE OFFICES, OPEN OFFICES, CONFERENCE ROOMS, CORRIDORS, STORAGE/UTILITY SPACES, WORKROOMS, BREAKROOMS, VESTIBULES, STAIRS -
- PAINT

RESTROOMS -
- LARGE FORMAT PORCELAIN TILE, SCHLUTER EDGE TRIM,
- PAINT

COUNTERTOPS

TRANSACTION LOBBIES
- SOLID SURFACE (CORIAN OR EQUAL)

PUBLIC RESTROOMS
- SOLID SURFACE (CORIAN OR EQUAL)

STAFF TOILETS
- SOLID SURFACE (CORIAN OR EQUAL)

BOARDROOM, BOARD CONFERENCE ROOM,
- QUARTZ

BOARD BREAK ROOM
- SOLID SURFACE (CORIAN OR EQUAL)

BREAK ROOMS
- PLASTIC LAMINATE

HEALTH DEPARTMENT'S LAB
- SOLID SURFACE (CORIAN OR EQUAL)

WINDOW STOOLS
- SOLID SURFACE (CORIAN OR EQUAL)

SECOND FLOOR - FINISH PLAN

1/8" = 1'-0"

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ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

SECOND FLOOR FINISH PLAN

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
COMPREHENSIVE AGREEMENT SET		9/19/2016

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SPRINKLER NOTE:

THIS CONTRACTOR SHALL PROVIDE NEW SPRINKLER SYSTEM INSTALLATION AS REQUIRED TO SUIT NEW FLOOR PLANS AND REFLECTED CEILING PLANS WITHIN THE ENTIRE BUILDING. SPRINKLER SYSTEM DESIGN, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, STATE, AND LOCAL AUTHORITIES. SPACING AND LOCATION OF SPRINKLERS SHALL NOT EXCEED THAT PERMITTED FOR LIGHT, ORDINARY I AND II HAZARD OCCUPANCY.

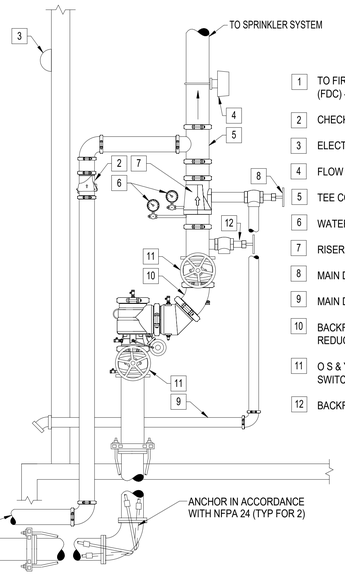
SPRINKLER HEADS SHOWN ON PLANS INDICATE DESIGN INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING QUANTITY OF MATERIALS AND FINAL DESIGN OF THE SYSTEM TO MEET NFPA-13 REQUIREMENTS.

SPRINKLER SCHEDULE:
USE SPRINKLER TYPES BELOW FOR THE FOLLOWING APPLICATIONS:

ROOMS WITHOUT CEILINGS: UPRIGHT SPRINKLERS

ROOMS WITH SUSPENDED CEILINGS: CONCEALED SPRINKLERS

WALL MOUNTING: CONCEALED SIDEWALL SPRINKLERS



1 TO FIRE DEPARTMENT CONNECTION (FDC) - ON SITE
2 CHECK VALVE
3 ELECTRIC ALARM BELL
4 FLOW SWITCH
5 TEE CONNECTION
6 WATER PRESSURE GAUGE
7 RISER CHECK VALVE
8 MAIN DRAIN VALVE
9 MAIN DRAIN
10 BACKFLOW PREVENTER - "N" PATTERN REDUCED PRESSURE TYPE
11 O S & Y GATE VALVE W / SUPERVISORY SWITCH
12 BACKFLOW PREVENTER TEST HEADER

WET PIPE SPRINKLER RISER DETAIL

NO SCALE

GENERAL NOTES

SCOPE
CONTRACTOR SHALL DESIGN AND PROVIDE A FULLY AUTOMATIC WET PIPE FIRE EXTINGUISHING SPRINKLER SYSTEM TO PROVIDE COMPLETE COVERAGE THROUGHOUT THIS BUILDING WITH EXCEPTION TO DRY AUTOMATIC SYSTEMS SERVING AREAS SUBJECT TO FREEZING. SPRINKLER SYSTEM DESIGN, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, AND STATE AUTHORITIES. SPRINKLER SYSTEM DESIGN SHALL BE BY HYDRAULIC CALCULATIONS FOR LIGHT HAZARD OCCUPANCY, EXCEPT WHERE REQUIRED BY THE CONSTRUCTION DOCUMENTS, THE AUTHORITY HAVING JURISDICTION, OR NFPA-13.
STANDARDS
FIRE PROTECTION SYSTEMS SHALL COMPLY WITH:

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS
VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC).

GENERAL
ARRANGE AND COMPLETE FINAL INSPECTIONS AND APPROVALS REQUIRED BY OWNER AND ENGINEER.

PROVIDE ADDITIONAL SPRINKLERS, PIPING, FITTINGS, APPURTENANCES, AND ALL OTHER WORK NECESSARY TO ACCOMMODATE ANY INTERIOR DESIGN LAYOUTS WHICH ARE OR MAY BE INCLUDED IN THE WORK. THESE SPRINKLERS AND ASSOCIATED WORK SHALL BE PROVIDED WHERE REQUIRED TO RESOLVE ANY CONFLICTS OR OTHER LAYOUT CHANGES NEEDED TO ACCOMMODATE ALL MISCELLANEOUS ITEMS (I.E. CEILING OFFSETS, SOFFITS, COVES, CODE INSPECTION/INTERPRETATIONS, STRUCTURAL SYSTEM CONFLICTS, ETC.)

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FIRE RATINGS
PENETRATIONS OF FIRE RESISTANT CONSTRUCTION SHALL COMPLY WITH TESTING AGENCY DOCUMENTS, I.E. UL FIRE RESISTANCE DIRECTORY, INCLUDING BUT NOT LIMITED TO SIZE OF HOLE, ANNULAR SPACES, ETC. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH PENETRATION REQUIREMENTS PRIOR TO BEGINNING WORK ON FIRE RESISTANT CONSTRUCTION PENETRATION.

HAZARDS
- ORDINARY II HAZARD INCLUDES BUT IS NOT LIMITED TO ALL STORAGE SPACES, CLOSETS, EQUIPMENT SPACES, ELEVATOR RELATED SPACES, TRASH AND RECYCLE STORAGE SPACES, BOILER AND OTHER SIMILAR FIRED EQUIPMENT.

- ORDINARY I HAZARD INCLUDES BUT IS NOT LIMITED TO UTILITY SPACES, KITCHENS, LAUNDRIES, MECHANICAL ROOMS.

ALL OTHER SPACES WITHIN BUILDING ARE LIGHT HAZARD OCCUPANCY UNLESS OTHERWISE NOTED.

AREAS OF GREATER HAZARD SHALL EXTEND 15' INTO LOWER HAZARD AREAS UNLESS SEPARATED BY A WALL WITH AUTO CLOSING DOORS. REFER TO NFPA 13 FOR SPECIFIC DEFINITIONS OF HAZARDS.

PIPING
ALL PIPING SHALL BE METAL. ALL GROOVED END PIPING SHALL BE APPROVED PRIOR TO INSTALLATION BY OWNER AND ENGINEER.

ALL SCREWED PIPING SHALL BE MIN. SCHEDULE 30 PIPE IN ACCORDANCE WITH SPECIFICATIONS ASTM A120 AND SHALL BE JOINED BY SCREWED JOINTS IN ACCORDANCE WITH SPECIFICATIONS ANSI B2.1.

PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY. THE ENTIRE PIPING SYSTEM SHALL BE FLUSHED CLEAN. THE UNDERGROUND PIPING SHALL BE FLUSHED BEFORE CONNECTION TO ANY ABOVE GROUND PIPING TO REMOVE ANY DEBRIS.

ALL SPRINKLER PIPING & FITTINGS SHALL BE INSTALLED RUST-FREE, AND MAINTAINED RUST-FREE AT ALL TIMES.

FIRE SPRINKLER PIPING SHALL NOT BE LOCATED ABOVE ELECTRICAL PANELBOARDS PER ARTICLE 384-4 OF NFPA 70.

VALVES AND FITTINGS
ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY THE UNDERWRITER'S LABORATORIES, INC. (UL) AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "UL" AND "FM", 175 PSI WORKING PRESSURE.

ALL VALVES ON THE FIRE PROTECTION SYSTEM SHALL BE ELECTRICALLY SUPERVISED. PROVIDE TAMPER SWITCHES. COORDINATE LOCATIONS OF SUPERVISED DEVICES WITH FIRE ALARM CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.

BUTTERFLY VALVES SHALL BE ALLOWED DOWNSTREAM OF THE DISCHARGE SIDE OF THE BACKFLOW PREVENTER.

PLAIN END FITTINGS WITH MECHANICAL COUPLINGS SHALL NOT BE USED.

SPRINKLERS
PUBLIC SPACES SUCH AS LOBBIES, CORRIDORS, SEATING AREAS, INDIVIDUAL OFFICES, BATHROOMS, CONFERENCE ROOMS, ETC. SHALL BE PROVIDED WITH CONCEALED TYPE SPRINKLER HEADS.

PROVIDE SPRINKLER PROTECTION UNDER STAIRS AS REQUIRED BY NFPA 13.

AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS SHALL BE ORDINARY, UNLESS NOTED OTHERWISE.

PROVIDE CABINET AND STOCK OF EXTRA SPRINKLER HEADS OF ALL TYPES USED IN ACCORDANCE WITH NFPA 13.

PROVIDE HEAD GUARDS ON SPRINKLER HEADS IN ELECTRIC, MECHANICAL, GYM, ELEVATOR, TELEPHONE, AND STORAGE ROOMS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ENTERING BUILDING SPRINKLER HEAD INFORMATION INTO THE STATE MANAGED SPRINKLER HEAD DATABASE.

SPRINKLERS ARE TO BE COORDINATED WITH ALL ARCHITECTURAL FEATURES, DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, CEILING SYSTEMS, AND STRUCTURAL SYSTEMS. COORDINATION SHALL RESULT IN CODE COMPLIANT SPRINKLER SYSTEM.

ALARMS AND ATTACHMENTS
COORDINATE ALARM DEVICES WITH FIRE ALARM CONTRACTOR.

PROVIDE FLOW SWITCH WITHOUT RETARD CAPABILITIES FOR SYSTEMS SERVING ELEVATORS AND ELEVATOR MACHINE ROOMS. PROVIDE INSPECTOR'S TEST PROVISION FOR EACH FLOW SWITCH.

PROVIDE SMOOTH BORE CORROSION RESISTANT OUTLETS FOR INSPECTOR'S TEST VALVES GIVING FLOW EQUIVALENT TO 1 SPRINKLER.

SHOP DRAWINGS
FINAL SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED TO OWNER AND ENGINEER. NO INSTALLATION SHALL BE PERMITTED UNTIL SPRINKLER SHOP DRAWINGS HAVE BEEN APPROVED.

INDICATE THE TOTAL SQUARE FOOT AREA PROTECTED BY SYSTEM.

INDICATE THE NUMBER OF SPRINKLERS ON EACH RISER.

CONTRACTOR SHALL VERIFY THE WATER SUPPLY BY PERFORMING A FIRE HYDRANT FLOW TEST PRIOR TO THE DESIGN.

INDICATE ALL CEILING HEIGHTS INCLUDING CHANGES FOR CONDITIONS SUCH AS SOFFITS, BULKHEADS, ETC.

PROVIDE DETAIL AND INDICATE TYPE OF HANGERS TO BE INSTALLED FOR SPRINKLER PIPING. METHODS OF HANGING PIPES, HEADERS, AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13. HANGERS SHALL NOT INTERFERE WITH ANY OTHER TRADES.

LEGENDS & ABBREVIATIONS

FIRE PROTECTION PIPING
SMOKE PARTITION
1 HOUR FIRE RATED WALL
1 HOUR FIRE & SMOKE RATED WALL
2 HOUR FIRE RATED WALL
2 HOUR FIRE & SMOKE RATED WALL
FIRE SPRINKLER RISER
NEW WORK NOTE DESIGNATION
DETAIL/RISER/ENLARGED PLAN
SHEET WHERE SHOWN/CUT

AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
FDC	FIRE DEPARTMENT CONNECTION
GPM	GALLONS PER MINUTE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
W/	WITH

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

GENERAL NOTES, LEGEND, AND ABBREVIATIONS

ISSUED FOR:	MARK:	DATE:
COMPREHENSIVE AGREEMENT SET		9/19/2016

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FP-001

1ST FLOOR ROOM SCHEDULE

443	KITCHEN
447	ELEV.
568	NURSING/ CLINICAL STOR.
1000	LOBBY
1001	VESTIBULE
1002	WOMEN
1003	MEN
1004	WAITING
1005	RECEPT.
1006	SOCIAL SERVICES
1007	CLOSED FILES/STORAGE
1008	CONFERENCE
1009	BREAK
1010	CONFERENCE
1011	OFFICE MANAGER
1012	FUEL
1013	WORK C
1014	PANTRY
1015	GR. C OFFICE 1
1016	GR. C OFFICE 2
1017	GR. C OFFICE 3
1018	GR. C OFFICE 4
1019	SUPERV'R C
1020	GR. C OFFICE 5
1022	DIRECTOR
1023	FISCAL
1024	OBSERVATION
1025	INTERVIEW

1ST FLOOR ROOM SCHEDULE

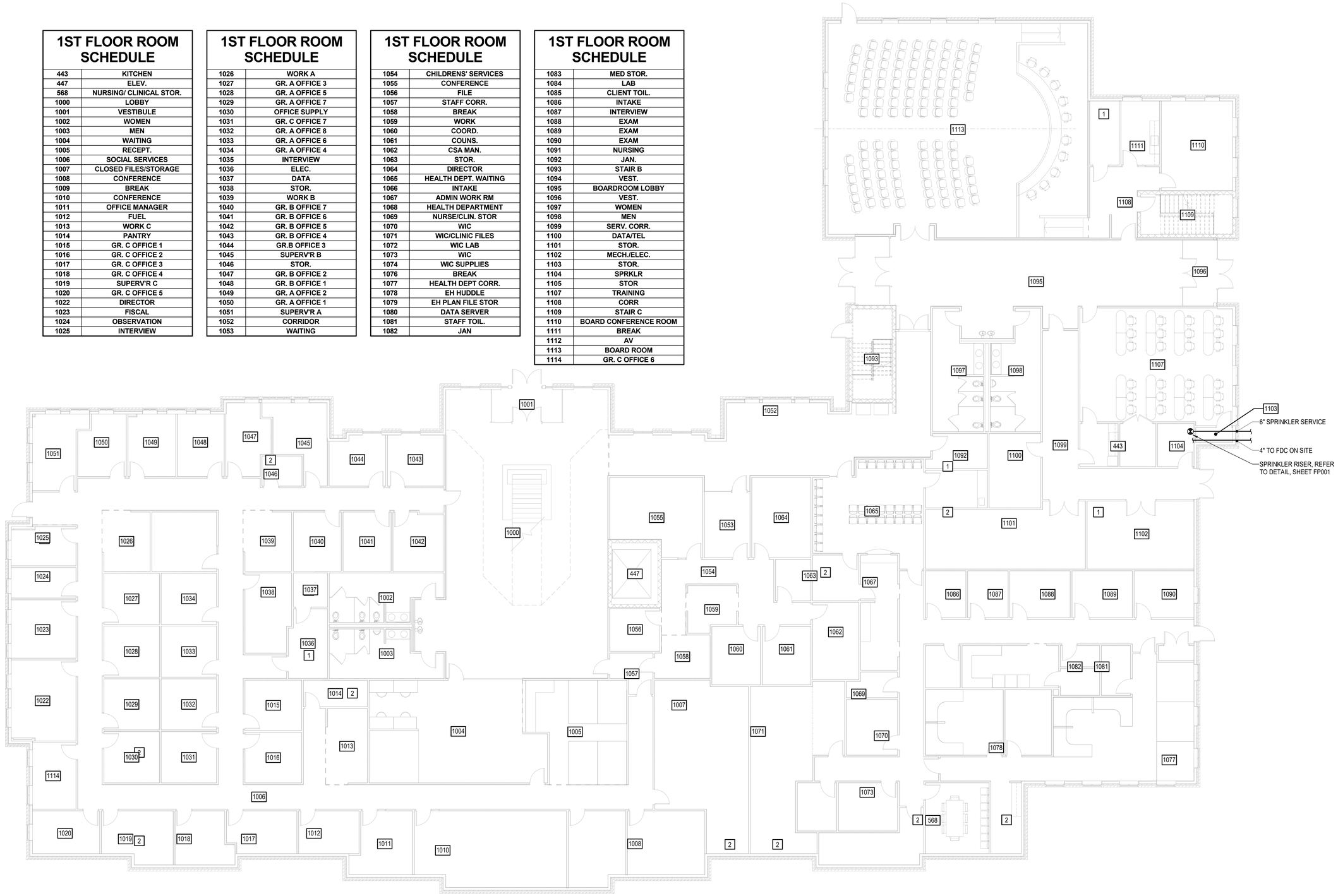
1026	WORK A
1027	GR. A OFFICE 3
1028	GR. A OFFICE 5
1029	GR. A OFFICE 7
1030	OFFICE SUPPLY
1031	GR. C OFFICE 7
1032	GR. A OFFICE 8
1033	GR. A OFFICE 6
1034	GR. A OFFICE 4
1035	INTERVIEW
1036	ELEC.
1037	DATA
1038	STOR.
1039	WORK B
1040	GR. B OFFICE 7
1041	GR. B OFFICE 6
1042	GR. B OFFICE 5
1043	GR. B OFFICE 4
1044	GR.B OFFICE 3
1045	SUPERV'R B
1046	STOR.
1047	GR. B OFFICE 2
1048	GR. B OFFICE 1
1049	GR. A OFFICE 2
1050	GR. A OFFICE 1
1051	SUPERV'R A
1052	CORRIDOR
1053	WAITING

1ST FLOOR ROOM SCHEDULE

1054	CHILDRENS' SERVICES
1055	CONFERENCE
1056	FILE
1057	STAFF CORR.
1058	BREAK
1059	WORK
1060	COORD.
1061	COUNS.
1062	CSA MAN.
1063	STOR.
1064	DIRECTOR
1065	HEALTH DEPT. WAITING
1066	INTAKE
1067	ADMIN WORK RM
1068	HEALTH DEPARTMENT
1069	NURSE/CLIN. STOR
1070	WIC
1071	WIC/CLINIC FILES
1072	WIC LAB
1073	WIC
1074	WIC SUPPLIES
1076	BREAK
1077	HEALTH DEPT CORR.
1078	EH HUDDLE
1079	EH PLAN FILE STOR
1080	DATA SERVER
1081	STAFF TOIL.
1082	JAN

1ST FLOOR ROOM SCHEDULE

1083	MED STOR.
1084	LAB
1085	CLIENT TOIL.
1086	INTAKE
1087	INTERVIEW
1088	EXAM
1089	EXAM
1090	EXAM
1091	NURSING
1092	JAN.
1093	STAIR B
1094	VEST.
1095	BOARDROOM LOBBY
1096	VEST.
1097	WOMEN
1098	MEN
1099	SERV. CORR.
1100	DATA/TEL
1101	STOR.
1102	MECH./ELEC.
1103	STOR.
1104	SPRKLR
1105	STOR
1107	TRAINING
1108	CORR
1109	STAIR C
1110	BOARD CONFERENCE ROOM
1111	BREAK
1112	AV
1113	BOARD ROOM
1114	GR. C OFFICE 6



FIRST FLOOR PLAN

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

NOTES THIS SHEET

1 THIS SPACE SHALL BE DESIGNATED AS ORDINARY HAZARD, GROUP I

2 THIS SPACE SHALL BE DESIGNATED AS ORDINARY HAZARD, GROUP II

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ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

FIRST FLOOR PLAN

ISSUED FOR: COMPREHENSIVE AGREEMENT SET

MARK:

DATE: 9/19/2016

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2ND FLOOR ROOM SCHEDULE

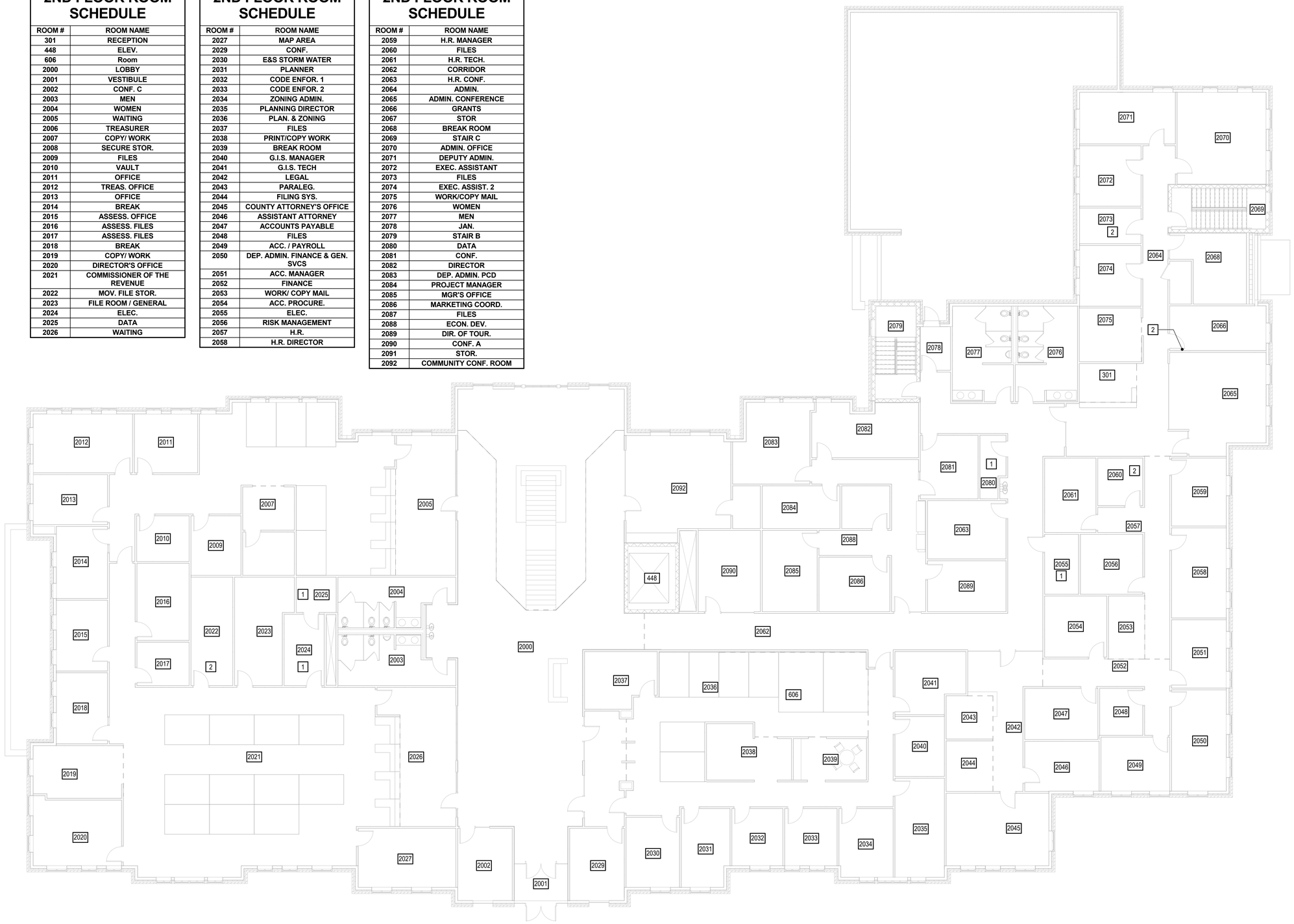
ROOM #	ROOM NAME
301	RECEPTION
448	ELEV.
606	Room
2000	LOBBY
2001	VESTIBULE
2002	CONF. C
2003	MEN
2004	WOMEN
2005	WAITING
2006	TREASURER
2007	COPY/ WORK
2008	SECURE STOR.
2009	FILES
2010	VAULT
2011	OFFICE
2012	TREAS. OFFICE
2013	OFFICE
2014	BREAK
2015	ASSESS. OFFICE
2016	ASSESS. FILES
2017	ASSESS. FILES
2018	BREAK
2019	COPY/ WORK
2020	DIRECTOR'S OFFICE
2021	COMMISSIONER OF THE REVENUE
2022	MOV. FILE STOR.
2023	FILE ROOM / GENERAL
2024	ELEC.
2025	DATA
2026	WAITING

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
2027	MAP AREA
2029	CONF.
2030	E&S STORM WATER
2031	PLANNER
2032	CODE ENFOR. 1
2033	CODE ENFOR. 2
2034	ZONING ADMIN.
2035	PLANNING DIRECTOR
2036	PLAN. & ZONING
2037	FILES
2038	PRINT/COPY WORK
2039	BREAK ROOM
2040	G.I.S. MANAGER
2041	G.I.S. TECH
2042	LEGAL
2043	PARALEG.
2044	FILING SYS.
2045	COUNTY ATTORNEY'S OFFICE
2046	ASSISTANT ATTORNEY
2047	ACCOUNTS PAYABLE
2048	FILES
2049	ACC. / PAYROLL
2050	DEP. ADMIN. FINANCE & GEN. SVCS
2051	ACC. MANAGER
2052	FINANCE
2053	WORK/ COPY MAIL
2054	ACC. PROCURE.
2055	ELEC.
2056	RISK MANAGEMENT
2057	H.R.
2058	H.R. DIRECTOR

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
2059	H.R. MANAGER
2060	FILES
2061	H.R. TECH.
2062	CORRIDOR
2063	H.R. CONF.
2064	ADMIN.
2065	ADMIN. CONFERENCE
2066	GRANTS
2067	STOR
2068	BREAK ROOM
2069	STAIR C
2070	ADMIN. OFFICE
2071	DEPUTY ADMIN.
2072	EXEC. ASSISTANT
2073	FILES
2074	EXEC. ASSIST. 2
2075	WORK/COPY MAIL
2076	WOMEN
2077	MEN
2078	JAN.
2079	STAIR B
2080	DATA
2081	CONF.
2082	DIRECTOR
2083	DEP. ADMIN. PCD
2084	PROJECT MANAGER
2085	MGR'S OFFICE
2086	MARKETING COORD.
2087	FILES
2088	ECON. DEV.
2089	DIR. OF TOUR.
2090	CONF. A
2091	STOR.
2092	COMMUNITY CONF. ROOM



SECOND FLOOR PLAN

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

NOTES THIS SHEET

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SECOND FLOOR PLAN

ISSUED FOR: COMPREHENSIVE AGREEMENT SET

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RIGID GLASS FIBER PIPE INSULATION SCHEDULE

PIPING SYSTEM	SYSTEM TEMPERATURE RANGE (°F)	PIPING INSULATION THICKNESS		
		LESS 1"	1" TO LESS 1-1/2"	1-1/2" & MORE
DOMESTIC HW	110 - 140	1"	1"	1-1/2"
DOMESTIC CW	48 - 80	1/2"	1/2"	1"
HORIZONTAL RL & ORL	35 - 80	1/2"	1/2"	1/2"
FLOOR DRAINS	ALL	1/2"	1/2"	1/2"

FIXTURE HW DISCHARGE TEMPERATURES

PLUMBING FIXTURE	MAXIMUM DISCHARGE TEMPERATURE	REFERENCE STANDARD
PUBLIC HAND-WASHING FACILITIES	>85°F & <110°F	ASSE 1070

NOTE: PROVIDE LISTED TEMPERING DEVICE FOR EACH FIXTURE PER TABLE.

SPRINKLER NOTE:

THIS CONTRACTOR SHALL PROVIDE NEW SPRINKLER SYSTEM INSTALLATION AS REQUIRED TO SUIT NEW FLOOR PLANS AND REFLECTED CEILING PLANS WITHIN THE ENTIRE BUILDING. SPRINKLER SYSTEM DESIGN, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, STATE, AND LOCAL AUTHORITIES. SPACING AND LOCATION OF SPRINKLERS SHALL NOT EXCEED THAT PERMITTED FOR LIGHT & ORDINARY I HAZARD OCCUPANCY. SPRINKLER SHALL BE CENTERED IN CEILINGS TILES.

SPRINKLER SCHEDULE:
USE SPRINKLER TYPES BELOW FOR THE FOLLOWING APPLICATIONS:

ROOMS WITHOUT CEILINGS: UPRIGHT SPRINKLERS

ROOMS WITH SUSPENDED CEILINGS: CONCEALED SPRINKLER

SPACES SUBJECT TO FREEZING: UPRIGHT, PENDANT, DRY SPRINKLERS; AND SIDEWALL, DRY SPRINKLERS AS INDICATED.

FIRE STOPPING NOTE:

CONTRACTOR SHALL PROVIDE AN APPROPRIATE LISTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY AT EACH PENETRATION OF FIRE RATED CONSTRUCTION (I.E. WALLS AND SLABS, ETC.). FIRE STOPPING OF DUCT PENETRATIONS THROUGH RATED ASSEMBLIES ARE ONLY PERMITTED WHEN FIRE AND/ OR SMOKE DAMPERS ARE NOT REQUIRED. SLEEVES SHALL ONLY BE PERMITTED WHERE INDICATED IN THE CONTRACTOR SELECTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL RATED ASSEMBLIES AND ASSOCIATED UL DESIGNATIONS. DEVICES INSTALLED RECESSED WITHIN FIRE RATED CONSTRUCTION (I.E. LIGHT SWITCHES, RECEPTACLES, ICE MAKER BOXES, ETC.) ARE ONLY PERMITTED WHEN AN APPROVED LISTED FIRE STOPPING SYSTEM EXISTS FOR THE APPLICATION. IF AN APPROVED LISTED FIRE STOPPING SYSTEM IS NOT AVAILABLE, THE CONTRACTOR SHALL BRING THE CONDITION TO THE ATTENTION OF THE A/E FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK.

VENTING NOTE:

PROVIDE A COMPLETE VENTING PIPING SYSTEM FROM FIXTURE GROUPS TO VTR'S ON ROOF.

ROOF DRAINS AND EMERGENCY OVERFLOWS DRAINS:

CONTRACTOR TO PROVIDE A ROOF DRAIN SYSTEM THAT INCLUDES AN EMERGENCY OVERFLOW SYSTEM. THE SYSTEMS WILL BE INSTALLED ACCORDING TO THE 2012 VIRGINIA PLUMBING CODE. THE WORK INCLUDES PIPE, HANGERS AND SUPPORTS AND INSULATION ON ALL HORIZONTAL PIPE. ROOF DRAINS SHALL BE PROVIDED COMPLETE, WITH ROOF SUMP AND UNDERDECK CLAMPS. ALL ROOF DRAIN AND OVERFLOW DRAIN SUMPS SHALL BE INSULATED. OVERFLOW SYSTEMS WILL BE CONVEYED TO GRADE AND DISCHARGE USING DOWNSPOUT NOZZLES. ALL PRODUCTS ARE J.R.SMITH OR EQUAL. HORIZONTAL PIPE WILL BE CONVEYED TO THE SITE AND SHALL BE COORDINATED WITH SITE WORK. PIPE MATERIALS BELOW GRADE SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS. FOAM CORE PIPING IS PROHIBITED. ABOVE GROUND PIPING SHALL BE CAST IRON NO-HUB PIPE AND FITTINGS.

CONTRACTOR SHALL ALLOW FOR THE FOLLOWING:

ADMINISTRATION ROOF

BOARD ROOM ROOF- 3,500 SQ. FT. ALLOW FOR A MINIMUM OF:

2- 4 INCH ROOF DRAINS 1,750 SQ. FT. EACH

MAIN ROOF- 26,035 SQ. FT. ALLOW FOR A MINIMUM OF:

15- 4 INCH ROOF DRAINS 1,750 SQ. FT. EACH,
OR 8- 5 INCH ROOF DRAINS 3255 SQ. FT. EACH,
OR 6- 6 INCH ROOF DRAINS 4,339 SQ. FT. EACH

PUBLIC SAFETY ROOF -23,036 SQ. FT. ALLOW FOR A MINIMUM OF:

13- 4 INCH ROOF DRAINS 1,772 SQ. FT. EACH,
OR 8- 5 INCH ROOF DRAINS 2,879 SQ. FT. EACH,
OR 6- 6 INCH ROOF DRAINS 3,839 SQ. FT. EACH

GENERAL NOTES

ALL PLUMBING VENTS WITHIN A 10'-0" RADIUS OF ANY ROOF TOP UNIT SHALL BE EXTENDED TO A HEIGHT OF 3'-0" ABOVE THE FRESH AIR INTAKE.

ALL PLUMBING & PLUMBING MATERIALS SHALL MEET THE REQUIREMENTS OF THE STATE & LOCAL PLUMBING CODES.

ALL WALL HYDRANTS SHALL BE MOUNTED 24" ABOVE FINISHED GRADE UNLESS OTHERWISE SPECIFIED.

SLOPES & INVERT ELEVATIONS OF ALL INTERIOR PIPING SHALL BE ESTABLISHED BEFORE ANY PIPING IS INSTALLED, IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. ALL PIPING SHALL BE RUN TO AVOID CONFLICTS WITH OTHER TRADES.

COORDINATE WITH ARCHITECTURAL WORKING DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES.

MAKE PROPER HOT & COLD WATER, HOT WATER RECIRCULATING, WASTE, & VENT PIPING CONNECTIONS TO ALL FIXTURES & EQUIPMENT EVEN THOUGH ALL BRANCHES, FITTINGS & CONNECTIONS ARE NOT SHOWN.

COORDINATE LOCATION OF ALL EQUIPMENT, FIXTURES & PIPING WITH STRUCTURAL & ALL OTHER TRADES. PIPING RUN AC SHALL BE RUN AS HIGH AS POSSIBLE.

ALL OPENINGS IN CEILINGS & PLENUM WALLS FOR PLUMBING PIPES SHALL BE SEALED AIR TIGHT.

SEE SITE PLAN FOR EXTENT OF ALL PIPING LEAVING & ENTERING BUILDING.

ALL HOT & COLD WATER PIPING INDICATED TO RUN ABOVE FINISHED CEILINGS OR IN EXTERIOR WALLS SHALL BE INSTALLED ON THE CONDITIONED SPACE SIDE OF THE BUILDING INSULATION.

SLOPES & INVERT ELEVATIONS OF EXTERIOR SEWERS, MANHOLES, ETC., SHALL BE ESTABLISHED & VERIFIED BY PLUMBING CONTRACTOR BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED & NECESSARY INVERT ELEVATIONS OBTAINED.

PROVIDE AUTOMATIC TRAP PRIMERS FOR ALL FLOOR DRAINS.

IT IS THE INTENTION OF THESE DRAWINGS TO COVER ALL WORK & MATERIAL FOR A COMPLETE FIRST CLASS INSTALLATION. ANY EQUIPMENT, PLUMBING FIXTURE, TRIM HARDWARE &/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED & INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.

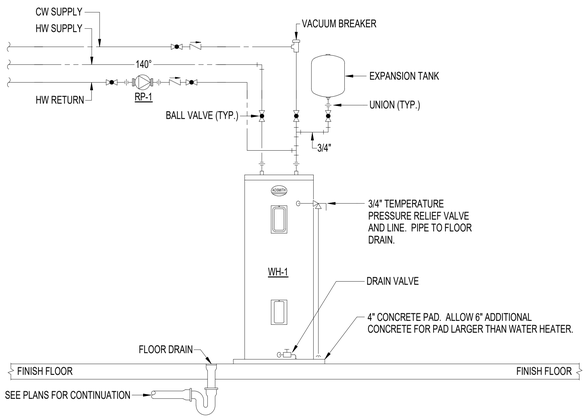
THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS. NOT ALL EQUIPMENT AND APPURTENANCES ARE SHOWN. FAILURE TO FOLLOW THIS STEP SHALL NOT BE A BASIS FOR CHANGE ORDERS.

VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT, PIPING, FIXTURES, ETC.

SEAL AROUND ALL WALL PENETRATIONS AIR TIGHT AT MECHANICAL ROOM, & FILL ANY VOIDS WITH MORTAR.

INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS & ALL APPLICABLE LISTING REQUIREMENTS.

CONTRACTOR SHALL PROVIDE BALL VALVES AT ALL BRANCH LINE LOCATIONS OFF DOMESTIC WATER MAIN PIPING. BALL VALVES ARE ALSO REQUIRED AT ALL EQUIPMENT AND WALL HYDRANTS.



WATER HEATER DETAIL (WH-1)

NO SCALE

ELECTRIC WATER HEATER SCHEDULE

MARK	TYPE	LOCATION	STORAGE CAPACITY	ELECTRICAL			EXPANSION TANK		MOUNTING	REMARKS
				KILOWATTS	VOLTS	PHASE	ACCEPTANCE	TOTAL		
WH-1	STORAGE	ROOM 468	119	-	480	3	1.13	2.69	FLOOR	INSTALL PER MANUFACTURER'S RECOMMENDATION.
WH-2	STORAGE	ROOM 662	50	-	480	3	0.48	1.13	FLOOR	INSTALL PER MANUFACTURER'S RECOMMENDATION.

PUMP SCHEDULE

MARK	TYPE	MANUFACTURER	MODEL	LOCATION	VOLTAGE	HP	PHASE	GPM	HEAD	REMARKS
RP-1	RECIRCULATOR	BELL & GOSSET	PL-30	ROOM 468	115	1/4	1	20	20	DOMESTIC HOT WATER RECIRCULATION

LEGENDS & ABBREVIATIONS

DOMESTIC COLD WATER (DCW)
DOMESTIC HOT WATER (DHW)
DOMESTIC HOT WATER RETURN (DHWR)
SANITARY WASTE PIPE (WP)
SANITARY VENT PIPE (VP)
PIPE TURN UP
PIPE TURN DOWN (DN)
PIPE CAPPED
HOSE BIBB (HB)
WALL HYDRANT (WH)
CLEAN OUT (CO)
WALL CLEAN OUT (WCO)
REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
BALANCING VALVE (BV)
BALL VALVE (BV)
CHECK VALVE (CV)
STRAINER
FLOOR CLEAN OUT (FCO)
GROUND CLEAN OUT (GCO)
FLOOR DRAIN (FD)
VENT THROUGH ROOF (VTR)
NEW WORK NOTE DESIGNATION
FIRE SPRINKLER RISER
DETAIL/RISER/ENLARGED PLAN
SHEET WHERE SHOWN/CUT

AC	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT COMPLIANT
BF	BELOW FLOOR
DFU	DRAINAGE FIXTURE UNIT
ELEV	ELEVATION
ETR	EXISTING TO REMAIN
EXIST	EXISTING
F	FAHRENHEIT
FDC	FIRE DEPARTMENT CONNECTION
FT	FEET
GAL	GALLON
GPM	GALLONS PER MINUTE
HP	HORSE POWER
INV	INVERT
MAX	MAXIMUM
MIN	MINIMUM
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
ORD	OVERFLOW ROOF DRAIN
P-#	PLUMBING FIXTURE MARK
RD	ROOF DRAIN
SFU	SUPPLY FIXTURE UNIT
SP	SUMP PUMP
SQ	SQUARE
TP	AUTOMATIC TRAP PRIMER
TYP	TYPICAL
W/	WITH
WH-#	WATER HEATER MARK
°	DEGREE

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

LEGEND, NOTES, ABBREVIATIONS, DETAILS AND SCHEDULES

ISSUED FOR: COMPREHENSIVE AGREEMENT SET
MARK:
DATE: 9/19/2016

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1ST FLOOR ROOM SCHEDULE

443	KITCHEN
447	ELEV.
568	NURSING/ CLINICAL STOR.
1000	LOBBY
1001	VESTIBULE
1002	WOMEN
1003	MEN
1004	WAITING
1005	RECEPT.
1006	SOCIAL SERVICES
1007	CLOSED FILES/STORAGE
1008	CONFERENCE
1009	BREAK
1010	CONFERENCE
1011	OFFICE MANAGER
1012	FUEL
1013	WORK C
1014	PANTRY
1015	GR. C OFFICE 1
1016	GR. C OFFICE 2
1017	GR. C OFFICE 3
1018	GR. C OFFICE 4
1019	SUPERV'R C
1020	GR. C OFFICE 5
1022	DIRECTOR
1023	FISCAL
1024	OBSERVATION
1025	INTERVIEW

1ST FLOOR ROOM SCHEDULE

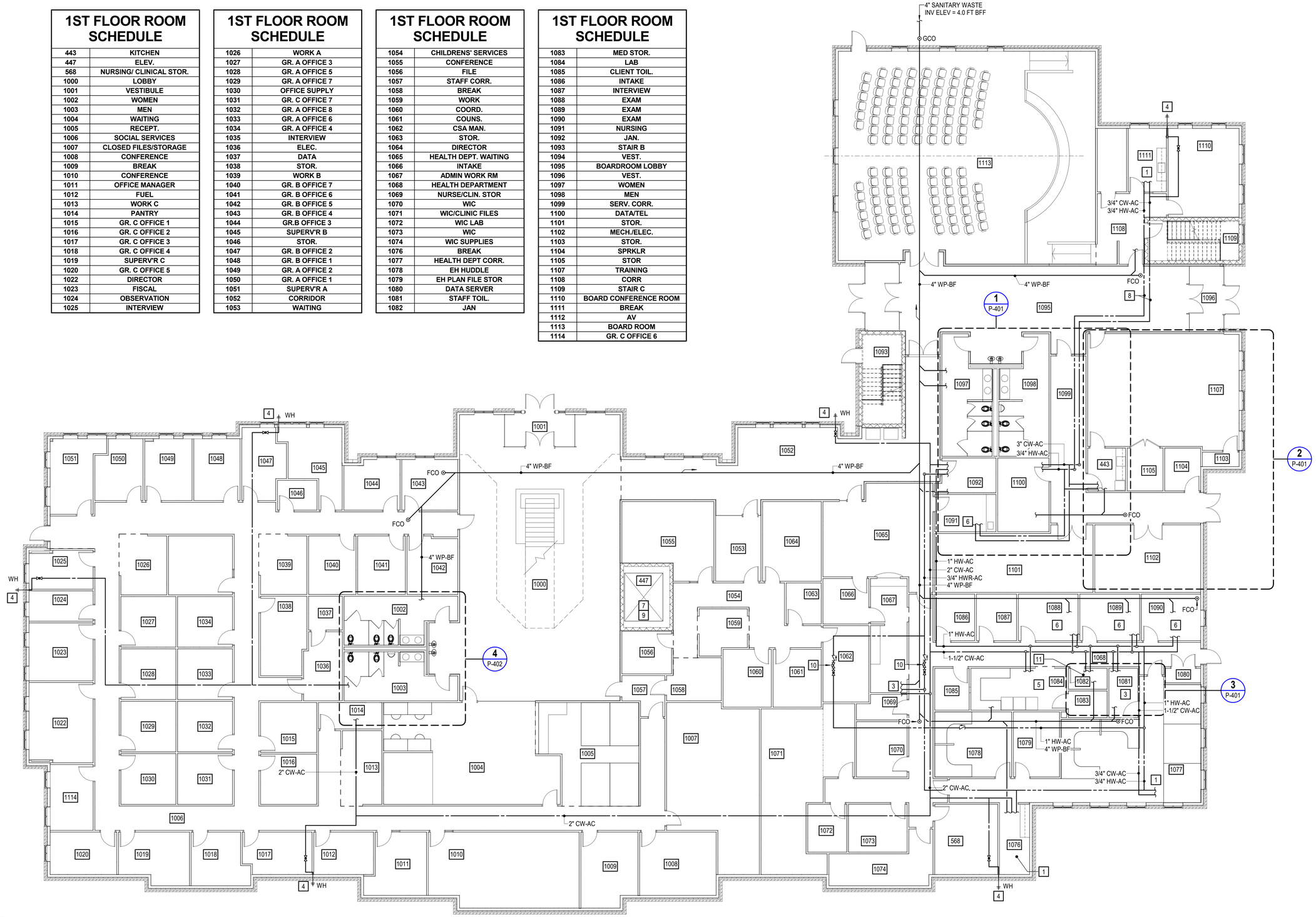
1026	WORK A
1027	GR. A OFFICE 3
1028	GR. A OFFICE 5
1029	GR. A OFFICE 7
1030	OFFICE SUPPLY
1031	GR. C OFFICE 7
1032	GR. A OFFICE 8
1033	GR. A OFFICE 6
1034	GR. A OFFICE 4
1035	INTERVIEW
1036	ELEC.
1037	DATA
1038	STOR.
1039	WORK B
1040	GR. B OFFICE 7
1041	GR. B OFFICE 6
1042	GR. B OFFICE 5
1043	GR. B OFFICE 4
1044	GR.B OFFICE 3
1045	SUPERV'R B
1046	STOR.
1047	GR. B OFFICE 2
1048	GR. B OFFICE 1
1049	GR. A OFFICE 2
1050	GR. A OFFICE 1
1051	SUPERV'R A
1052	CORRIDOR
1053	WAITING

1ST FLOOR ROOM SCHEDULE

1054	CHILDRENS' SERVICES
1055	CONFERENCE
1056	FILE
1057	STAFF CORR.
1058	BREAK
1059	WORK
1060	COORD.
1061	COUNS.
1062	CSA MAN.
1063	STOR.
1064	DIRECTOR
1065	HEALTH DEPT. WAITING
1066	INTAKE
1067	ADMIN WORK RM
1068	HEALTH DEPARTMENT
1069	NURSE/CLIN. STOR
1070	WIC
1071	WIC/CLINIC FILES
1072	WIC LAB
1073	WIC
1074	WIC SUPPLIES
1076	BREAK
1077	HEALTH DEPT CORR.
1078	EH HUDDLE
1079	EH PLAN FILE STOR
1080	DATA SERVER
1081	STAFF TOIL.
1082	JAN

1ST FLOOR ROOM SCHEDULE

1083	MED STOR.
1084	LAB
1085	CLIENT TOIL.
1086	INTAKE
1087	INTERVIEW
1088	EXAM
1089	EXAM
1090	EXAM
1091	NURSING
1092	JAN.
1093	STAIR B
1094	VEST.
1095	BOARDROOM LOBBY
1096	VEST.
1097	WOMEN
1098	MEN
1099	SERV. CORR.
1100	DATA/TEL
1101	STOR.
1102	MECH./ELEC.
1103	STOR.
1104	SPRKLR
1105	STOR
1107	TRAINING
1108	CORR
1109	STAIR C
1110	BOARD CONFERENCE ROOM
1111	BREAK
1112	AV
1113	BOARD ROOM
1114	GR. C OFFICE 6



FIRST FLOOR PLAN

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

NOTES THIS SHEET

1. PROVIDE ICE MAKER IN REFRIGERATOR WATER BOX. PROVIDE SINK AND MANUAL FAUCET WITH SPRAY HOSE 1.5 GPM.
2. PROVIDE ICE MAKER IN REFRIGERATOR WATER BOX. PROVIDESTAINLESS STEEL 2 COMPARMENT ADA SINK, MANUAL FAUCET WITH SPRAY HOSE 1.5 GPM, AND DISHWASHER. PROVIDE WATER AND WASTE CONNECTIONS COMPLETE TO MAINS.
3. PROVIDE 1 WATER CLOSET AND 1 LAVATORY. PROVIDE ALL WATER WASTE CONNECTIONS TO MAINS.
4. PROVIDE WALL HYDRANT AND ISOLATION VALVE, INCLUDING WATER PIPE BACK TO MAINS.
5. PROVIDE STAINLESS STEEL ADA LAB SINK WITH EYE WASH FAUCET DRAIN AND WATER PIPE TO MAIN.
6. PROVIDE STAINLESS STEEL ADA SINK WITH GOOSENECK FAUCET DRAIN AND WATER PIPE BACK TO MAIN.
7. PROVIDE ELEVATOR PUMP AND ROUTE PIPE TO MECHANICAL/ELECTRICAL ROOM 442.
8. ANTICIPATE ROUTING PIPE AS HIGH AS POSSIBLE.
9. ELEVATOR SUMP PUMP TO DISCHARGE TO OIL INTERCEPTORS AND STANDPIPE ON MECHANICAL/ELECTRICAL ROOM 442.
10. PROVIDE ISOLATION VALVE, CHECK VALVE, AND BALANCE VALVE SET AT 0.5 GPM.
11. PROVIDE 24" x 24" x 10" MOP SINK COMPLETE WITH FAUCET. PROVIDE ALL WATER AND WASTE CONNECTIONS TO MAINS.

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

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DINWIDDIE COUNTY MUNICIPAL FACILITIES

ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

FIRST FLOOR PLAN

ISSUED FOR:	MARK:	DATE:
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2ND FLOOR ROOM SCHEDULE

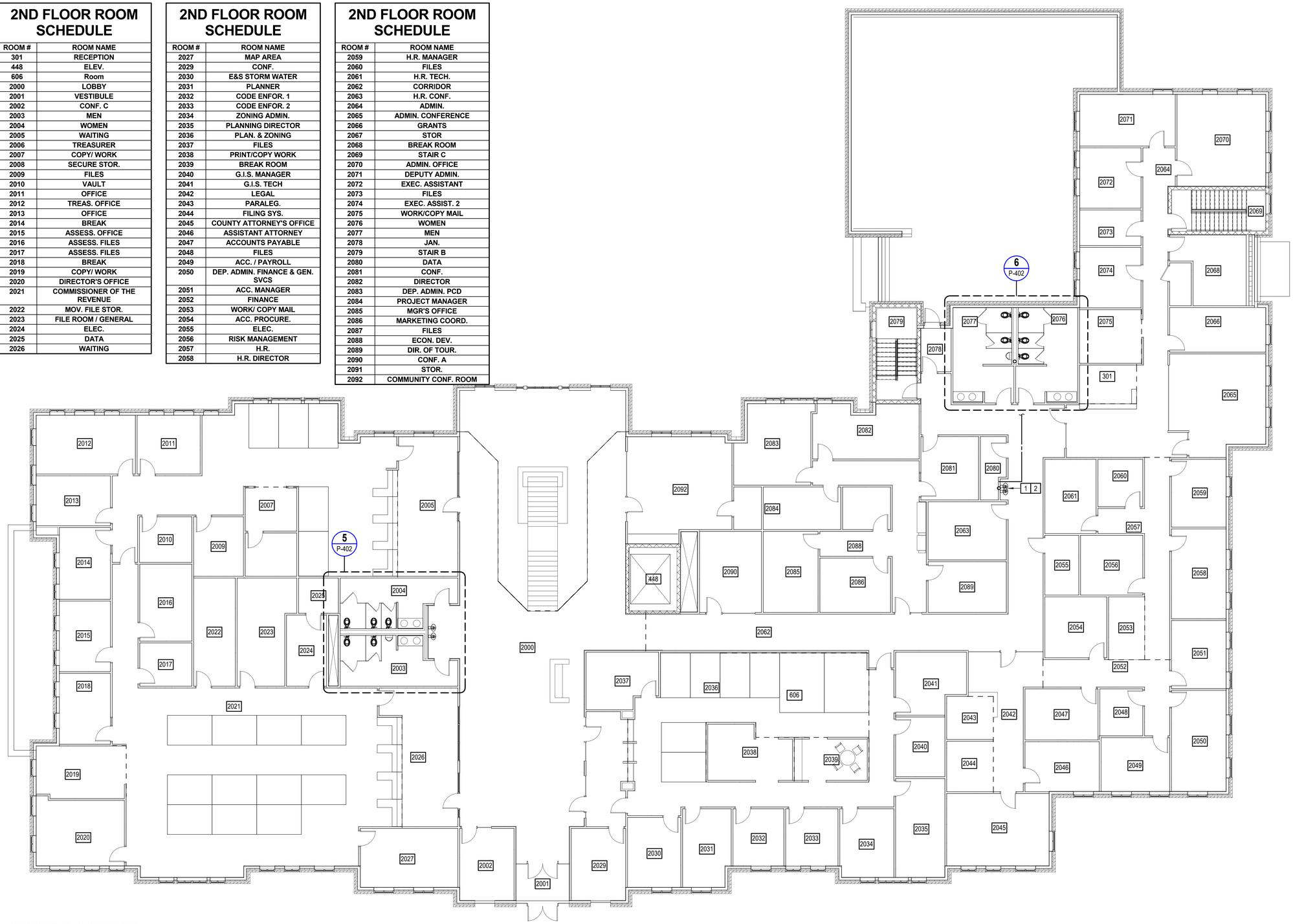
ROOM #	ROOM NAME
301	RECEPTION
448	ELEV.
606	Room
2000	LOBBY
2001	VESTIBULE
2002	CONF. C
2003	MEN
2004	WOMEN
2005	WAITING
2006	TREASURER
2007	COPY/ WORK
2008	SECURE STOR.
2009	FILES
2010	VAULT
2011	OFFICE
2012	TREAS. OFFICE
2013	OFFICE
2014	BREAK
2015	ASSESS. OFFICE
2016	ASSESS. FILES
2017	ASSESS. FILES
2018	BREAK
2019	COPY/ WORK
2020	DIRECTOR'S OFFICE
2021	COMMISSIONER OF THE REVENUE
2022	MOV. FILE STOR.
2023	FILE ROOM / GENERAL
2024	ELEC.
2025	DATA
2026	WAITING

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
2027	MAP AREA
2029	CONF.
2030	E&S STORM WATER
2031	PLANNER
2032	CODE ENFOR. 1
2033	CODE ENFOR. 2
2034	ZONING ADMIN.
2035	PLANNING DIRECTOR
2036	PLAN. & ZONING
2037	FILES
2038	PRINT/COPY WORK
2039	BREAK ROOM
2040	G.I.S. MANAGER
2041	G.I.S. TECH
2042	LEGAL
2043	PARALEG.
2044	FILING SYS.
2045	COUNTY ATTORNEY'S OFFICE
2046	ASSISTANT ATTORNEY
2047	ACCOUNTS PAYABLE
2048	FILES
2049	ACC. / PAYROLL
2050	DEP. ADMIN. FINANCE & GEN. SVCS
2051	ACC. MANAGER
2052	FINANCE
2053	WORK/ COPY MAIL
2054	ACC. PROCURE.
2055	ELEC.
2056	RISK MANAGEMENT
2057	H.R.
2058	H.R. DIRECTOR

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
2059	H.R. MANAGER
2060	FILES
2061	H.R. TECH.
2062	CORRIDOR
2063	H.R. CONF.
2064	ADMIN.
2065	ADMIN. CONFERENCE
2066	GRANTS
2067	STOR
2068	BREAK ROOM
2069	STAIR C
2070	ADMIN. OFFICE
2071	DEPUTY ADMIN.
2072	EXEC. ASSISTANT
2073	FILES
2074	EXEC. ASSIST. 2
2075	WORK/COPY MAIL
2076	WOMEN
2077	MEN
2078	JAN.
2079	STAIR B
2080	DATA
2081	CONF.
2082	DIRECTOR
2083	DEP. ADMIN. PCD
2084	PROJECT MANAGER
2085	MGR'S OFFICE
2086	MARKETING COORD.
2087	FILES
2088	ECON. DEV.
2089	DIR. OF TOUR.
2090	CONF. A
2091	STOR.
2092	COMMUNITY CONF. ROOM



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

NOTES THIS SHEET

1 PROVIDE BI-LEVEL ELKAY SWIRLFLOW WATER COOLER.

2 2" WP-DN AND 2" VP-UP.

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

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SECOND FLOOR PLAN

ISSUED FOR: COMPREHENSIVE AGREEMENT SET
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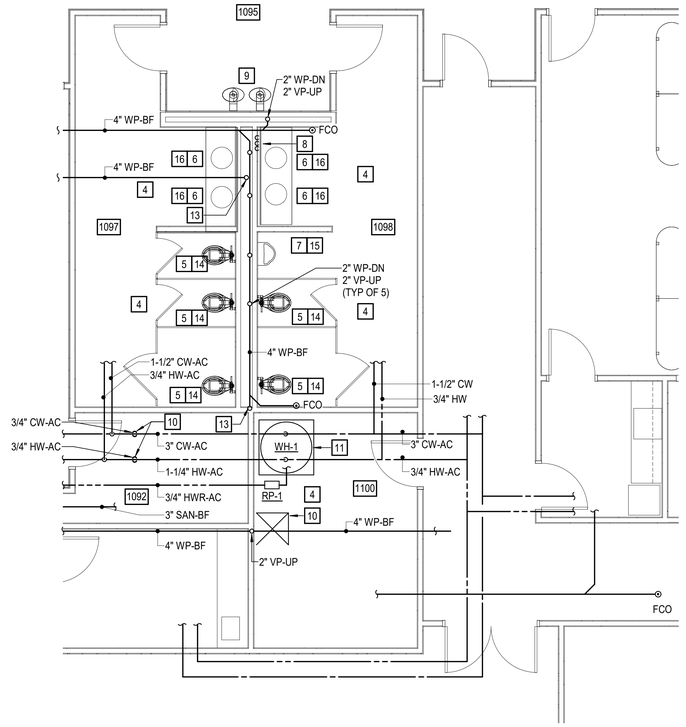
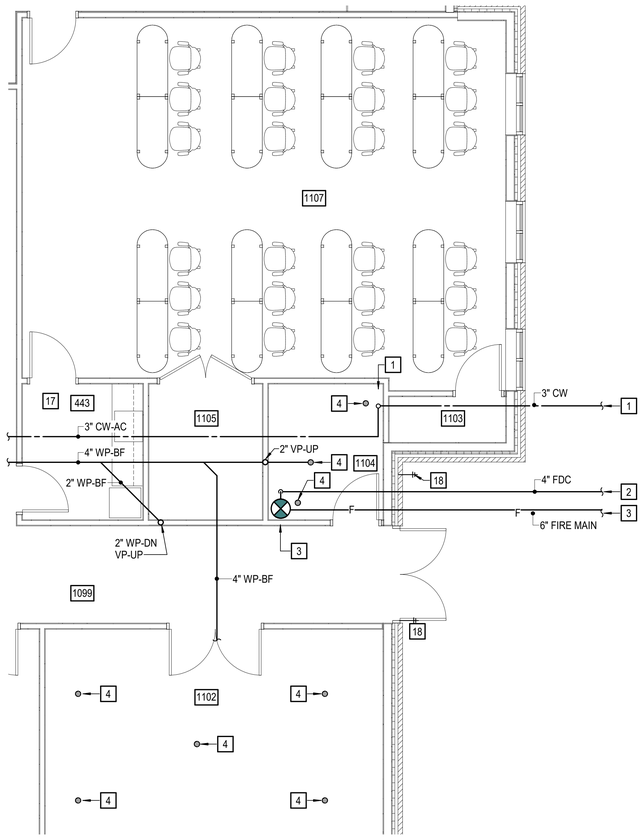
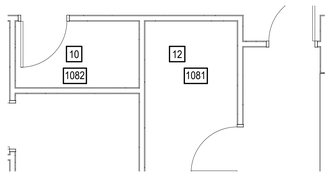


1 P-101 FIRST FLOOR NEW WORK ENLARGED PLAN - MEN/WOMEN RESTROOMS
SCALE: 1/4" = 1'-0"



2 P-101 FIRST FLOOR NEW WORK ENLARGED PLAN - SPRINKLER ROOM
SCALE: 1/4" = 1'-0"



3 P-101 FIRST FLOOR NEW WORK ENLARGED PLAN - STAFF TOILETS
SCALE: 1/4" = 1'-0"

NOTES THIS SHEET

1. PROVIDE 3" CW SERVICE AND AN RPBP DEVICE IN ROOM, PROVIDE ALL PIPE AND FLOOR DRAIN.
2. PROVIDE 4" FDC TO 5'-0" OUT OF BUILDING.
3. PROVIDE 6" FIRE MAIN AND RPBP DEVICE IN ROOM.
4. PROVIDE MINIMUM OF 4" FD IN ALL MECHANICAL ROOMS AND TOILETS. PROVIDE TRAP PRIMER DEVICE AND CONNECT TO FD.
5. PROVIDE FLOOR MOUNTED FLUSH VALVE TOILETS, WITH FLUSH VALVES 1.28 GPF.
6. PROVIDE LAVATORIES WITH FAUCETS 0.5 GPM.
7. PROVIDE URINAL WITH FLUSH VALVE 0.125 GPF.
8. PROVIDE HW, HWR AND CW TO ROUTE BETWEEN FLOORS TO SUPPLY FIXTURES ON SECOND FLOOR..
9. PROVIDE BI-LEVEL SWIRLFLOW WATER COOLER WITH 1/2" CW SUPPLY.
10. PROVIDE 24" x 24" x 10" MOP SINK COMPLETE WITH FAUCET. PROVIDE ALL WATER AND WASTE CONNECTIONS TO MAINS.
11. PROVIDE 119 GALLON ELECTRIC WATER HEATER ON PAD WITH RECIRCULATOR PUMP. PROVIDE FLOOR DRAIN FOR RELIEF LINE AND DRAIN.
12. PROVIDE 1 WATER CLOSET AND 1 LAVATORY. PROVIDE ALL WATER WASTE CONNECTIONS TO MAINS.
13. PROVIDE FOR WP TO ROUTE BETWEEN FLOORS FOR SECOND FLOOR FIXTURES.
14. PROVIDE 1" CW SUPPLY FOR WATER CLOSETS.
15. PROVIDE 3/4" CW SUPPLY FOR URINALS.
16. PROVIDE 1/2" HW AND 1/2" CW SUPPLY FOR LAVATORIES.
17. PROVIDE ICE MAKER IN REFRIGERATOR WATER BOX. PROVIDESTAINLESS STEEL 2 COMPARMENT ADA SINK, MANUAL FAUCET WITH SPRAY HOSE 1.5 GPM, AND DISHWASHER. PROVIDE WATER AND WASTE CONNECTIONS COMPLETE TO MAINS.
18. PROVIDE WALL HYDRANT AND ISOLATION VALVE, INCLUDING WATER PIPE BACK TO MAINS.

GRAPHIC SCALE:
1/4" = 1'-0" 5' 0' 5' 10'

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ENLARGED PLANS

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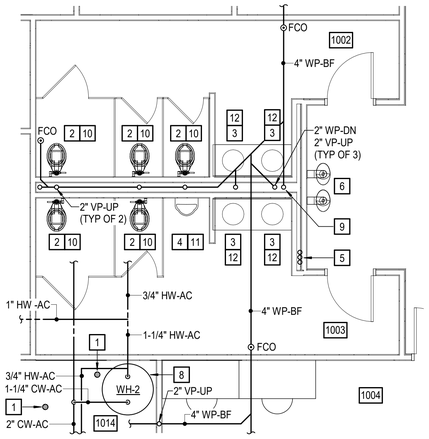
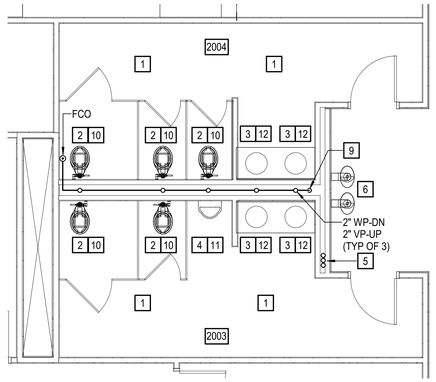
NOTES THIS SHEET

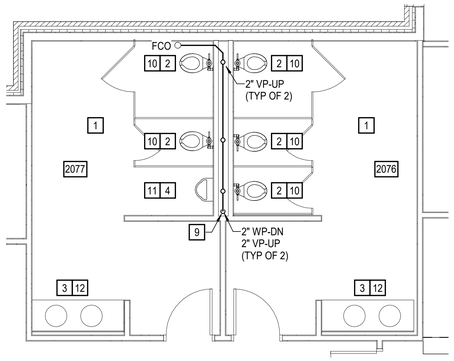
1. PROVIDE FOR MINIMUM OF 4" FD IN ALL MECHANICAL ROOMS. PROVIDE TRAP PRIMER DEVICE AND CONNECT TO FD
2. PROVIDE FOR FLOOR MOUNTED FLUSH VALVE TOILETS, SENSOR OPERATED FLUSH VALVES 1.28 GPF.
3. PROVIDE LAVATORIES WITH SENSOR OPERATED FAUCETS 0.5 GPM.
4. PROVIDE URINAL WITH SENSOR OPERATED FLUSH VALVE 0.125 GPF.
5. PROVIDE HW, HWR AND CW TO ROUTE BETWEEN FLOORS TO SUPPLY FIXTURES ON SECOND FLOOR.
6. PROVIDE BI-LEVEL ELKAY SWIRLFLOW WATER COOLER. 2" WP-DN, AND 2 VP-UP WITH 1/2" CW SUPPLY.
7. PROVIDE 24" x 24" x 10" MOP SINK COMPLETE WITH FAUCET. PROVIDE ALL WATER AND WASTE CONNECTIONS TO MAINS.
8. PROVIDE 50 GALLON ELECTRIC WATER HEATER ON PAD WITH RECIRCULATOR PUMP, PROVIDE FLOOR DRAIN FOR RELIEF LINE AND DRAIN.
9. PROVIDE WP TO ROUTE BETWEEN FLOORS FOR SECOND FLOOR FIXTURES.
10. PROVIDE 1" CW SUPPLY FOR WATER CLOSETS.
11. PROVIDE 3/4" CW SUPPLY FOR URINALS.
12. PROVIDE 1/2" HW AND 1/2" CW SUPPLY FOR LAVATORIES.



4 P-101 FIRST FLOOR NEW WORK ENLARGED PLAN - MEN/WOMEN TOILETS
SCALE: 1/4" = 1'-0"



5 P-102 SECOND FLOOR NEW WORK ENLARGED PLAN - MEN/WOMEN TOILETS
SCALE: 1/4" = 1'-0"



6 P-102 SECOND FLOOR NEW WORK ENLARGED PLAN - MEN/WOMEN RESTROOMS
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE:
1/4" = 1'-0" 5' 0' 5' 10'

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

ENLARGED PLANS

ISSUED FOR: MARK: DATE:
COMPREHENSIVE AGREEMENT SET 9/19/2016

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GENERAL NOTES

GENERAL ITEMS

GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH HVAC DRAWING OF THIS SET. SEE EACH DRAWING FOR SPECIFIC NOTES APPLICABLE TO THAT DRAWING.

COORDINATE THAT OUTSIDE AIR INTAKE OPENINGS FOR VENTILATION AIR ARE LOCATED AT LEAST 10 FEET MEASURED IN ANY DIRECTION FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SOURCE SUCH AS FLUES, VENTS, CHIMNEYS, GAS METERS, GAS REGULATORS, PLUMBING VENTS, ETC., UNLESS TOP OF SUCH INTAKE OPENING IS 3 FEET OR GREATER BELOW ANY OF THE LISTED ITEMS.

OVERHEAD PIPING IN SPACES WITHOUT HUNG CEILINGS SHALL BE RUN AS CLOSE TO ROOF DECK AS PRACTICAL, AS CLOSE TO PARALLEL JOISTS AS POSSIBLE AND ABOVE LIGHTING FIXTURES TO CONCEAL PIPING.

OVERHEAD DUCTWORK AND PIPING IN SPACES WITH CEILINGS SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

PROVIDE PIPE SLEEVES LARGE ENOUGH TO ALLOW FOR REQUIRED LATERAL MOVEMENT OF PIPING.

EXERCISE DUE CAUTION IN INSTALLING RUNOUTS AND BRANCH PIPING FROM MAINS FOR EXPANSION MOVEMENT.

COORDINATE LOCATION OF GRILLES, REGISTERS, DIFFUSERS, THERMOSTATS AND OTHER WALL OR CEILING MOUNTED HVAC ACCESSORIES WITH REFLECTED CEILING PLAN, LIGHTING FIXTURE LAYOUT AND ACCESSORIES INSTALLED BY OTHER TRADES SO AS TO PRESENT A NEAT AND ATTRACTIVE INSTALLATION THROUGHOUT THE ENTIRE BUILDING. IT IS THE INTENT FOR GRILLES, REGISTERS AND DIFFUSERS TO BE INSTALLED IN THE CENTER OF CEILING PANELS.

EQUIPMENT ON THE ROOF SHALL BE INSTALLED SO AT LEAST 10 FEET OF CLEARANCE SHALL BE MAINTAINED BETWEEN EQUIPMENT AND THE ROOF EDGE.

THE DIAMETER OF THE SUPPLY PIPE AT ANY GAS FIRED EQUIPMENT SHALL NOT BE OF A SMALLER SIZE THAN THE INLET CONNECTION TO THE EQUIPMENT.

ARRANGE PIPING AND DUCTWORK, PARTICULARLY ABOVE CEILING AS REQUIRED TO CLEAR STRUCTURE, DUCTS, CONDUITS, ETC. ALLOWING SPACE FOR PIPE HANGERS, EXPANSION LOOPS AND ACCESS TO VALVES, FILTERS, AND MAINTENANCE OF EQUIPMENT.

CONTRACTOR SHALL VERIFY REFRIGERANT PIPE SIZES WITH EQUIPMENT MANUFACTURER FOR THE INDICATED INSTALLATION.

COORDINATE LOCATION AND INSTALLATION OF EQUIPMENT WITH OTHER TRADES.

PROVIDE STANDARD EMERGENCY CUT-OFF SWITCH FOR EACH OIL (GAS) BURNER NEAR THE BOILER ROOM OR EQUIPMENT ROOM DOOR.

DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, ETC.

THERMOSTATS AND/OR TEMPERATURE SENSORS SHALL BE LOCATED IN THE ROOMS INDICATED. INSTALL AT APPROX. 46" ABOVE FINISH FLOOR TO MATCH THE HEIGHT OF WALL SWITCHES OR OTHER WALL MOUNTED DEVICES.

PIPING, DUCTWORK, VENTS, ETC., EXTENDING THROUGH EXTERIOR WALLS AND ROOF SHALL BE FLASHED AND COUNTER FLASHED IN A WEATHERPROOF MANNER.

CONCRETE BASES FOR PUMPS SHALL:
- EXTEND 4" ON EACH SIDE BEYOND THE PUMPS BASE
- BE SECURELY BOLTED AND GROUTED TO THE PUMPS
- BE LOCATED A MINIMUM OF ONE PUMP BASE WIDTH APART
- BE 4" THICK.

VALVES AND SPECIALTIES SHALL BE LINE SIZE EXCEPT FOR CONTROL VALVES OR UNLESS NOTED OTHERWISE.

EXTEND DRAIN LINES TO NEAREST FLOOR DRAIN OR AS INDICATED. ROUTING SHALL NOT INTERFERE WITH PASSAGEWAYS AND MAINTENANCE. DRAINS FROM AIR CONDITIONING CONDENSATE DRAIN PANS SHALL BE TRAPPED. SLOPE CONDENSATE DRAIN PIPING AT 1/4" PER FOOT. VERIFY INVERT IS ESTABLISHED AFTER AIR HANDLING UNIT IS INSTALLED BUT PRIOR TO DUCTWORK INSTALLATION.

ROOFTOP UNITS AND OTHER EQUIPMENT CONTAINING AIR CONDITIONING COILS WHICH DO NOT HAVE A SECONDARY DRAIN OR AUXILIARY DRAIN PAN SHALL BE FITTED WITH A WATER LEVEL SENSOR IN THE PRIMARY DRAIN PAN. THE SENSOR SHALL BE WIRED TO DE-ENERGIZE THE EQUIPMENT IF WATER RISES ABOVE THE DRAIN OUTLET.

PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH NON-RATED FLOORS, WALLS, ROOF AND PARTITIONS, UNLESS OTHERWISE INDICATED.

NO PIPING SHALL BE SMALLER THAN (1/2") 3/4" UNLESS OTHERWISE NOTED.

RUNOUTS SHALL PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF 1" IN 3'.

COOLING TOWER BASIN OUTLET CENTER LINE SHALL BE LOCATED A MINIMUM OF 3'-0" ABOVE CONDENSER WATER PUMP SUCTION CENTER LINE.

FOR PIPE SIZES NOT INDICATED ON PLANS, SEE EQUIPMENT CONNECTION DETAILS, FLOW DIAGRAMS AND RISER DIAGRAMS AND PIPE SIZING SCHEDULE.

PROVIDE UNION OR FLANGED CONNECTIONS AT EACH PIECE OF EQUIPMENT AND ON BOTH SIDES OF CONTROL VALVES AND PRESSURE REGULATING VALVES. PROVIDE SHUT-OFF VALVES ON BOTH SIDES OF AUTOMATIC VALVES.

RELIEF VALVE PIPING SHALL BE EXTENDED TO THE NEAREST FLOOR DRAIN.

FLOOR MOUNTED EQUIPMENT IN THE MECHANICAL ROOMS SHALL BE LOCATED ON (4") 6" THICK CONCRETE HOUSEKEEPING PADS UNLESS OTHERWISE INDICATED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL SUPPORTS OR HANGERS SHALL BE ADJACENT TO ELBOWS, TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT.

CORRECT SETTING ON BALANCING FITTINGS SHALL BE PERMANENTLY MARKED.

INSTALL ANCHORS AND EXPANSION LOOPS WHERE INDICATED AND WHERE REQUIRED TO ALLOW FOR EXPANSION.

LOCATE AND SIZE CONCRETE PADS AND CURBS FOR MECHANICAL EQUIPMENT IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED.

FOR LOCATION OF MOTOR STARTERS, SEE ELECTRICAL DRAWINGS.

THROUGH-PENETRATION FIRESTOP ASSEMBLIES

PROVIDE APPROVED UL LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS FOR DUCTWORK AND PIPE PENETRATIONS THROUGH RATED ASSEMBLIES. REVIEW ARCHITECTURAL DRAWINGS FOR FIRE PARTITION LOCATIONS AND UL LISTINGS.

SHEET METAL

PROVIDE INTERNAL SOUND ABSORPTIVE DUCT LINING FOR EXTENT NOTED. DUCT DIMENSIONS ARE CLEAR INSIDE DUCT LINING DIMENSIONS.

PROVIDE ACCESS DOORS IN DUCTWORK WHERE INDICATED OR REQUIRED FOR ACCESS TO SYSTEM COMPONENTS INCLUDING THE FOLLOWING:
- DAMPER MOTORS AND/OR MOTOR OPERATED DAMPERS
- HUMIDIFIERS
- FILTERS
- BOTH SIDES OF HEATING AND COOLING COILS
- FAN BEARINGS ENCLOSED IN DUCTS OR PLENUMS
- FIRE DAMPERS AND SMOKE DAMPERS
- CONTROL DAMPERS
- SMOKE DETECTORS

HIGH SIDEWALL REGISTERS OR GRILLES SHALL BE LOCATED 6" FROM CEILING TO TOP OF REGISTER OR GRILLE.

FLOOR SIDEWALL REGISTERS OR GRILLES SHALL BE LOCATED 12" FROM BOTTOM OF REGISTER OR GRILLE TO FINISHED FLOOR.

INSTALL FLOOR REGISTERS AND CEILING REGISTERS A MINIMUM OF 4" FROM EXTERIOR WALL.

SPACE ABOVE CEILING IS TO BE USED AS A RETURN AIR PLENUM WHERE DUCTWORK IS NOT INDICATED ABOVE RETURN AIR GRILLES.

PROVIDE A MINIMUM OF THREE TIMES THE FAN DIAMETER OF STRAIGHT DUCTWORK OFF THE SUPPLY AIR FAN DISCHARGE BEFORE ANY TAKEOFFS OR ELBOWS.

DUCTWORK UPSTREAM OF VAV TERMINAL UNITS SHALL BE CONSTRUCTED TO THE SMACNA STATIC PRESSURE CLASSIFICATION OF 4 IN. WG AND SEAL CLASS "A". OTHER DUCTWORK SHALL BE CONSTRUCTED TO THE SMACNA STATIC PRESSURE CLASSIFICATION OF 2 IN. WG AND SEAL CLASS "B".

PROVIDE EXTENDED VOLUME DAMPER CONTROL RODS SO THAT HANDLES ARE WELL CLEAR OF DUCT INSULATION.

MAINTENANCE

EQUIPMENT WITH FILTERS SHALL BE INSTALLED SO THAT FILTERS CAN BE EASILY REMOVED AND REPLACED.

EQUIPMENT INSTALLED ABOVE CEILINGS SHALL BE MOUNTED APPROX. 12" ABOVE CEILING (UON) FOR MAINTENANCE ACCESS.

INSTALL PIPE RUNS AT LEAST 6" ABOVE CEILING TILES. WHERE PRACTICAL INSTALL VALVES, AND OTHER MAINTAINABLE DEVICES LOW ENOUGH TO REACH WITH A 6' LADDER.

PROVIDE ACCESS TO ANY INSPECTION OR MAINTAINABLE DEVICE, EQUIPMENT, ETC. - ACCESS OR ACCESS DOOR SHALL BE OF ADEQUATE SIZE TO WORK ON DEVICE.

EXAMINE MANUFACTURER'S LITERATURE TO DETERMINE RECOMMENDED CLEARANCES. THESE CLEARANCES SHALL BE ESTABLISHED AND MAINTAINED. THIS APPLIES TO NEW AND EXISTING EQUIPMENT IMPACTED BY THIS PROJECT AS WELL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE REQUIREMENTS WITH ALL OTHER TRADES.

LEGEND and ABBREVIATIONS

1	NEW WORK NOTE DESIGNATION
	SECTION
	SHEET WHERE SECTION IS SHOWN
	SHEET WHERE SECTION IS CUT
CU-1	CONDENSING UNIT DESIGNATION
CUH-1	CABINET UNIT HEATER DESIGNATION
CP-1	CONDENSATE PUMP DESIGNATION
DSS-1	DUCTLESS SPLIT SYSTEM DESIGNATION
EF-1	EXHAUST FAN DESIGNATION
EUH-1	ELECTRIC UNIT HEATER DESIGNATION
FPVAV-1	FAN POWERED VARIABLE AIR VOLUME DESIGNATION
RTU-1	ROOFTOP AIR HANDLING UNIT DESIGNATION

FS	FAN SWITCH
H	WALL HUMIDISTAT
T	WALL THERMOSTAT
T N	WALL THERMOSTAT WITH NIGHT SET-BACK
BDD	BACKDRAFT DAMPER
M	MOTORIZED DAMPER
	VOLUME DAMPER
D	DOOR LOUVER
UC	DOOR UNDERCUT (1")
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
F/S	FIRE / SMOKE DAMPER [120 VOLT]
S	SMOKE DETECTOR
X 200	GRILLE, REGISTER OR DIFFUSER MARK (CFM AS INDICATED)
	SUPPLY AIR/OUTSIDE AIR DUCT SECTION
	RETURN/EXHAUST DUCT SECTION
	SUPPLY AIR/OUTSIDE AIR DUCT SECTION THROUGH ROOF
	RETURN/EXHAUST DUCT SECTION THROUGH ROOF
	DUCT TURNING UP
	DUCT TURNING DOWN
	CEILING DIFFUSER WITH FLEXIBLE DUCTWORK
	RETURN/EXHAUST REGISTER
	MITERED ELBOW WITH TURNING VANES
	FLEXIBLE DUCT CONNECTOR
	DUCT MOUNTED HUMIDIFIER
	FLEXIBLE PIPE CONNECTOR
	PIPE TURNING UP
	PIPE TURNING DOWN
	PIPE GUIDE
	PIPE ANCHOR
	DIRECTION OF PITCH DOWN
	DIRECTION OF FLOW
D	CONDENSATE DRAIN
RL	REFRIGERANT LIQUID PIPING
RS	REFRIGERANT SUCTION PIPING

A.F.F.	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
APPROX.	APPROXIMATELY
CALC.	CALCULATED
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CSR	CURRENT SENSING RELAY
db	DECIBELS
DB	DRY BULB TEMPERATURE
E.A.	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EL.	ELEVATION
EWB	ENTERING WET BULB TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
FA	FREE AREA
FLA	FULL LOAD AMPS
F.O.B.	FLAT ON BOTTOM
F.O.T.	FLAT ON TOP
FPM	FEET PER MINUTE
FT	FEET
FV	FACE VELOCITY
HD	HEAD
HP	HORSEPOWER
IN.	INCH
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MIN CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAX OVERCURRENT PROTECTION
NC	NOISE CRITERIA
O.A.	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PSIG	POUND PER SQUARE INCH GAUGE
P.D.	PRESSURE DROP
RPM	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATING
SENS.	SENSIBLE
SF	SQUARE FEET
TSP	TOTAL STATIC PRESSURE
(TYP)	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
ø	PHASE/DIAMETER
°F	DEGREE FAHRENHEIT

REFRIGERANT PIPING SIZING/ROUTING NOTES:

1. REFRIGERANT PIPING SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. REFRIGERANT PIPING ROUTING IS DIAGRAMMATIC, SYSTEMS SHALL BE INSTALLED PER ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

RETURN AIR PLENUM NOTE:

THE AREA ABOVE THE CEILING SHALL BE USED AS A RETURN AIR PLENUM FOR THIS PROJECT. AIR WILL BE ROUTED THROUGH RETURN/TRANSFER GRILLES. ALL MATERIALS USED WITHIN THE RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR COMPLY WITH VIRGINIA MECHANICAL CODE SECTION 602 IN ALL RESPECTS.

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

LEGEND, NOTES AND ABBREVIATIONS

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ISSUED FOR:	MARK:	DATE:
COMPREHENSIVE AGREEMENT SET		9/19/2016

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1ST FLOOR ROOM SCHEDULE

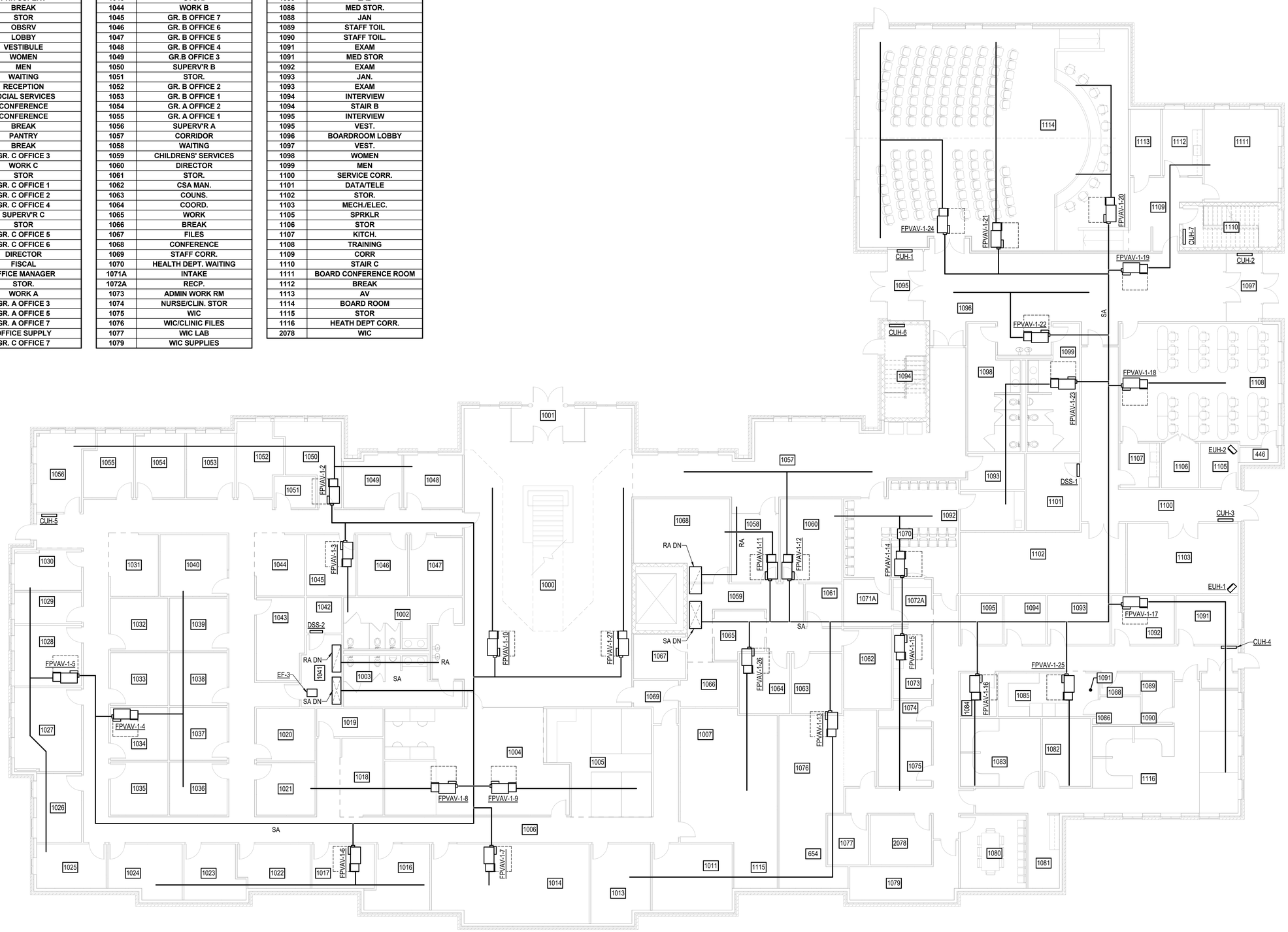
446	STOR.
447	ELEV.
563	TOIL.
568	NURSING/ CLINICAL STOR.
569	LACTATION
579	PHN SUPERV
580	BREAK
654	STOR
657	OBSRV
1000	LOBBY
1001	VESTIBULE
1002	WOMEN
1003	MEN
1004	WAITING
1005	RECEPTION
1006	SOCIAL SERVICES
1007	CONFERENCE
1011	CONFERENCE
1013	BREAK
1014	PANTRY
1016	BREAK
1017	GR. C OFFICE 3
1018	WORK C
1019	STOR
1020	GR. C OFFICE 1
1021	GR. C OFFICE 2
1022	GR. C OFFICE 4
1023	SUPERV'R C
1024	STOR
1025	GR. C OFFICE 5
1026	GR. C OFFICE 6
1027	DIRECTOR
1028	FISCAL
1029	OFFICE MANAGER
1030	STOR.
1031	WORK A
1032	GR. A OFFICE 3
1033	GR. A OFFICE 5
1034	GR. A OFFICE 7
1035	OFFICE SUPPLY
1036	GR. C OFFICE 7

1ST FLOOR ROOM SCHEDULE

1037	GR. A OFFICE 8
1038	GR. A OFFICE 6
1039	GR. A OFFICE 4
1041	ELEC.
1042	DATA
1043	STOR.
1044	WORK B
1045	GR. B OFFICE 7
1046	GR. B OFFICE 6
1047	GR. B OFFICE 5
1048	GR. B OFFICE 4
1049	GR.B OFFICE 3
1050	SUPERV'R B
1051	STOR.
1052	GR. B OFFICE 2
1053	GR. B OFFICE 1
1054	GR. A OFFICE 2
1055	GR. A OFFICE 1
1056	SUPERV'R A
1057	CORRIDOR
1058	WAITING
1059	CHILDRENS' SERVICES
1060	DIRECTOR
1061	STOR.
1062	CSA MAN.
1063	COUNS.
1064	COORD.
1065	WORK
1066	BREAK
1067	FILES
1068	CONFERENCE
1069	STAFF CORR.
1070	HEALTH DEPT. WAITING
1071A	INTAKE
1072A	RECP.
1073	ADMIN WORK RM
1074	NURSE/CLIN. STOR
1075	WIC
1076	WIC/CLINIC FILES
1077	WIC LAB
1079	WIC SUPPLIES

1ST FLOOR ROOM SCHEDULE

1080	CONFERENCE
1081	BREAK
1082	EH PLAN FILE STOR
1083	EH HUDDLE
1084	CLIENT TOILET
1085	LAB
1086	MED STOR.
1088	JAN
1089	STAFF TOIL
1090	STAFF TOIL.
1091	EXAM
1091	MED STOR
1092	EXAM
1093	JAN.
1093	EXAM
1094	INTERVIEW
1094	STAIR B
1095	INTERVIEW
1095	VEST.
1096	BOARDROOM LOBBY
1097	VEST.
1098	WOMEN
1099	MEN
1100	SERVICE CORR.
1101	DATA/TELE
1102	STOR.
1103	MECH./ELEC.
1105	SPRKLR
1106	STOR
1107	KITCH.
1108	TRAINING
1109	CORR
1110	STAIR C
1111	BOARD CONFERENCE ROOM
1112	BREAK
1113	AV
1114	BOARD ROOM
1115	STOR
1116	HEATH DEPT CORR.
2078	WIC



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

GRAPHIC SCALE:
1/8" = 1'-0"
5' 0' 5' 10' 20'

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

FIRST FLOOR PLAN

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2ND FLOOR ROOM SCHEDULE

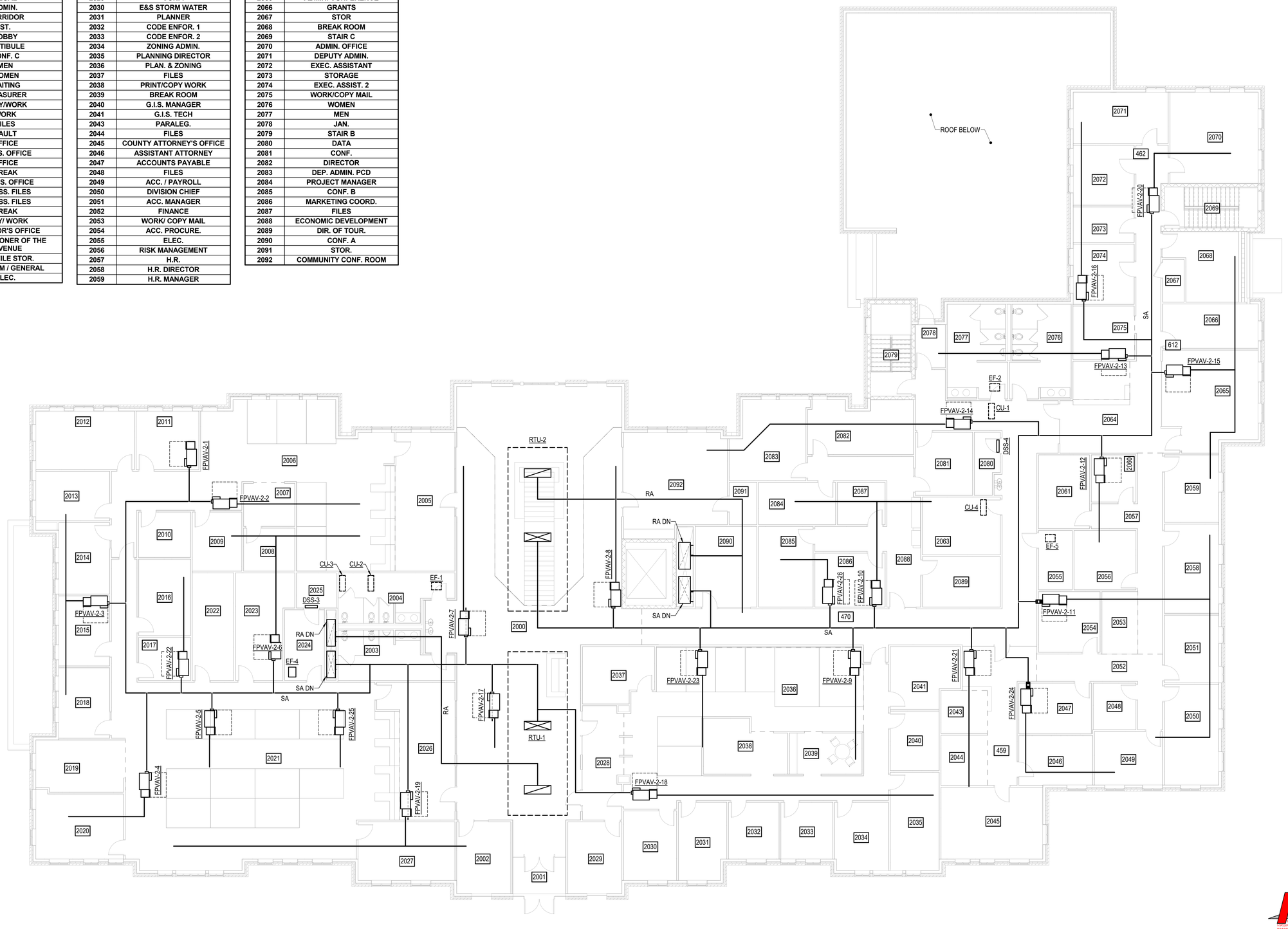
ROOM #	ROOM NAME
224	FILES
301	RECEPTION
448	ELEV.
457	PLAN. & ZONING
459	LEGAL
462	ADMIN.
470	CORRIDOR
612	ST.
2000	LOBBY
2001	VESTIBULE
2002	CONF. C
2003	MEN
2004	WOMEN
2005	WAITING
2006	TREASURER
2007	COPY/WORK
2008	WORK
2009	FILES
2010	VAULT
2011	OFFICE
2012	TREAS. OFFICE
2013	OFFICE
2014	BREAK
2015	ASSESS. OFFICE
2016	ASSESS. FILES
2017	ASSESS. FILES
2018	BREAK
2019	COPY/ WORK
2020	DIRECTOR'S OFFICE
2021	COMMISSIONER OF THE REVENUE
2022	MOV. FILE STOR.
2023	FILE ROOM / GENERAL
2024	ELEC.

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
2025	DATA
2026	WAITING
2027	MAP AREA
2028	WAITING
2029	CONF.
2030	E&S STORM WATER
2031	PLANNER
2032	CODE ENFOR. 1
2033	CODE ENFOR. 2
2034	ZONING ADMIN.
2035	PLANNING DIRECTOR
2036	PLAN. & ZONING
2037	FILES
2038	PRINT/COPY WORK
2039	BREAK ROOM
2040	G.I.S. MANAGER
2041	G.I.S. TECH
2043	PARALEG.
2044	FILES
2045	COUNTY ATTORNEY'S OFFICE
2046	ASSISTANT ATTORNEY
2047	ACCOUNTS PAYABLE
2048	FILES
2049	ACC. / PAYROLL
2050	DIVISION CHIEF
2051	ACC. MANAGER
2052	FINANCE
2053	WORK/ COPY MAIL
2054	ACC. PROCURE.
2055	ELEC.
2056	RISK MANAGEMENT
2057	H.R.
2058	H.R. DIRECTOR
2059	H.R. MANAGER

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
2060	STOR.
2061	H.R. TECH.
2063	H.R. CONF.
2064	ADMIN.
2065	ADMIN. CONFERENCE
2066	GRANTS
2067	STOR
2068	BREAK ROOM
2069	STAIR C
2070	ADMIN. OFFICE
2071	DEPUTY ADMIN.
2072	EXEC. ASSISTANT
2073	STORAGE
2074	EXEC. ASSIST. 2
2075	WORK/COPY MAIL
2076	WOMEN
2077	MEN
2078	JAN.
2079	STAIR B
2080	DATA
2081	CONF.
2082	DIRECTOR
2083	DEP. ADMIN. PCD
2084	PROJECT MANAGER
2085	CONF. B
2086	MARKETING COORD.
2087	FILES
2088	ECONOMIC DEVELOPMENT
2089	DIR. OF TOUR.
2090	CONF. A
2091	STOR.
2092	COMMUNITY CONF. ROOM



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

GRAPHIC SCALE:
1/8" = 1'-0" 5' 0' 5' 10' 20'

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SECOND FLOOR PLAN

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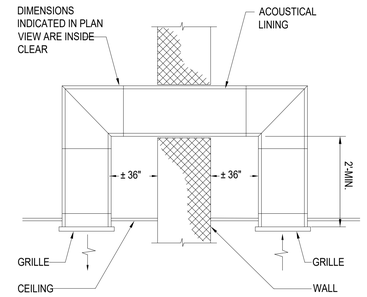
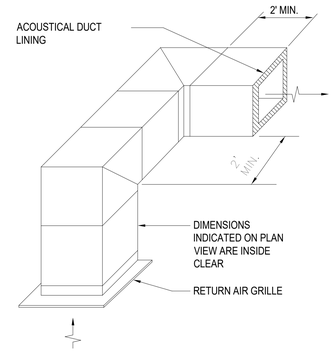


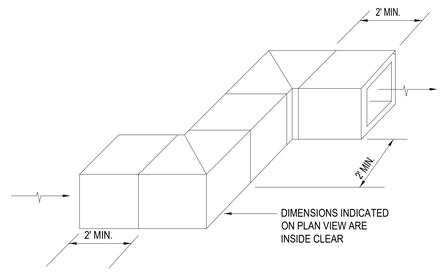
TRANSFER DUCT DETAIL (SECTION)

NO SCALE



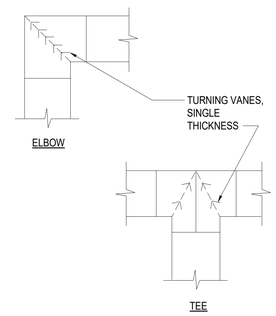
TRANSFER DUCT DETAIL (ISOMETRIC)

NO SCALE



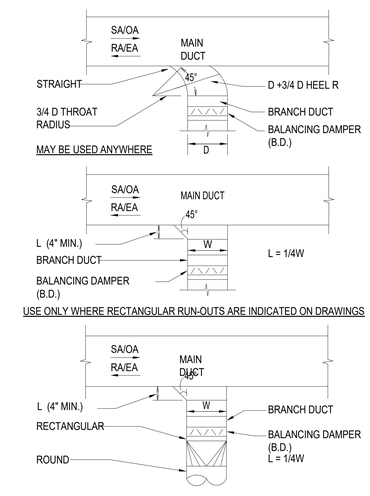
TRANSFER DUCT DETAIL "Z"

NO SCALE



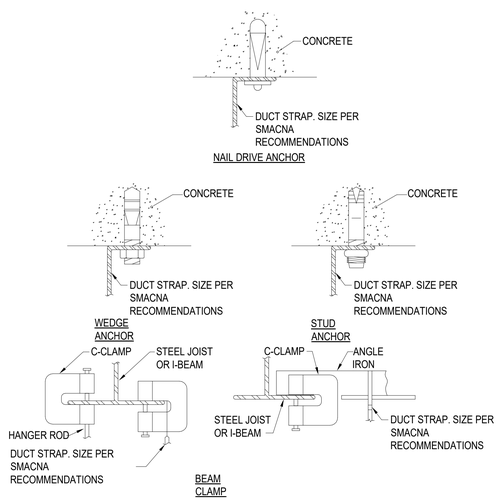
DUCTWORK FITTING DETAIL

NO SCALE



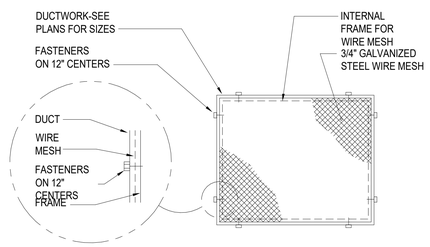
TYPICAL BRANCH CONNECTION

NO SCALE



DUCTWORK UPPER ATTACHMENTS

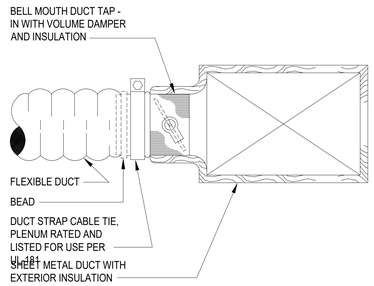
NO SCALE



NOTE: SECURE FRAME TO DUCT AND MESH TO FRAME.

OPEN END DUCT WIRE MESH DETAIL

NO SCALE



FLEXIBLE DUCT INSTALLATION DETAIL

NO SCALE

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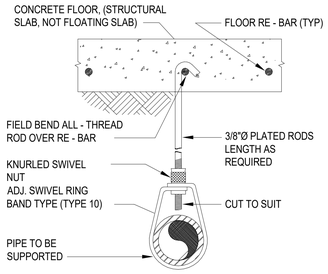
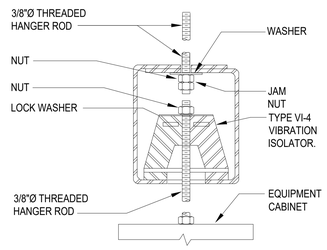


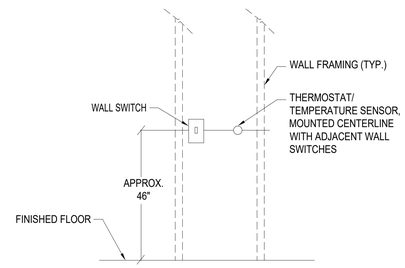
(FOR USE ONLY WHERE SOIL BENEATH STRUCTURAL SLAB IS EXPECTED TO SETTLE BASED ON GEOTECHNICAL INFORMATION)

NOTE: HANGERS TO BE SPACED AS FOR SUSPENDED PIPING WITH ALLOWANCE FOR SOIL AND CONCRETE LOADS AND AT ALL VERTICAL RISERS AND CLEANOUTS. FOR HORIZONTAL RUNS MAXIMUM SPACING IS 5'-0" O.C. FOR 5'-0" LENGTHS, 10'-0" O.C. FOR LONGER SECTIONS.

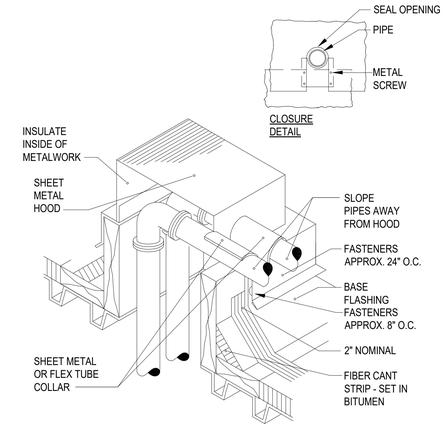
PIPE SUPPORT DETAIL
NO SCALE



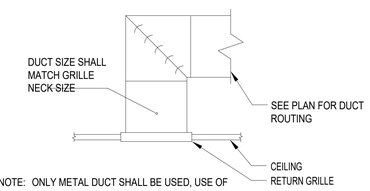
VIBRATION ISOLATOR DETAIL
NO SCALE



SWITCH/THERMOSTAT MOUNTING HEIGHT DETAIL
NO SCALE

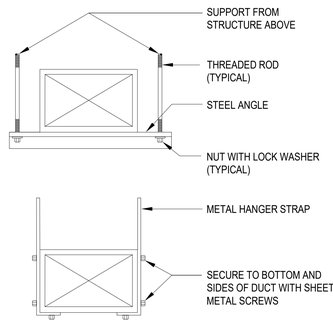


TYPICAL PITCH POCKET DETAIL
NO SCALE



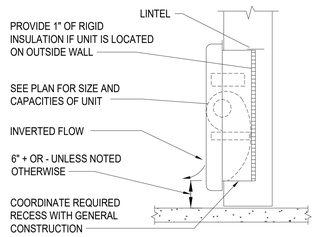
NOTE: ONLY METAL DUCT SHALL BE USED, USE OF FLEXIBLE DUCT ON NEGATIVE PRESSURE SYSTEMS IS NOT PERMITTED.

RETURN/EXHAUST GRILLE INSTALLATION DETAIL
NO SCALE

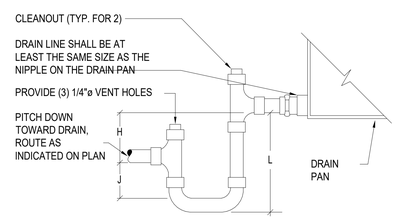


NOTE: FOR ANGLE SIZE AND HANGER STRAP GAUGE, SEE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS.

DUCT SUPPORT DETAIL
NO SCALE



CABINET HEATER DETAIL
NO SCALE



DRAIN PAN TRAPPING FOR SECTION UNDER NEGATIVE PRESSURE:

L = H + J + PIPE DIAMETER WHERE:

H = 1 INCH FOR EACH INCH OF NEGATIVE PRESSURE PLUS 1 INCH

J = 1/2 H

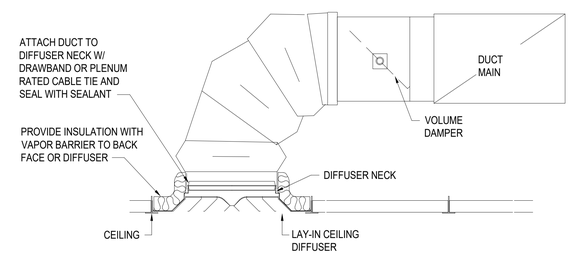
DRAIN PAN TRAPPING FOR SECTION UNDER POSITIVE PRESSURE:

L = H + J + PIPE DIAMETER WHERE:

H = 1/2 INCH (MINIMUM)

J = 1/2 INCH PLUS THE UNIT POSITIVE STATIC PRESSURE AT COIL DISCHARGE (LOADED FILTERS)

CONDENSATE DRAIN TRAP DETAIL
NO SCALE



TYPICAL LAY-IN SUPPLY DIFFUSER DETAIL
NO SCALE

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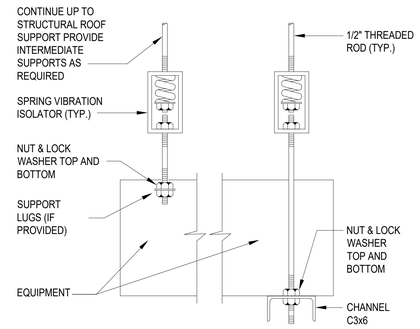
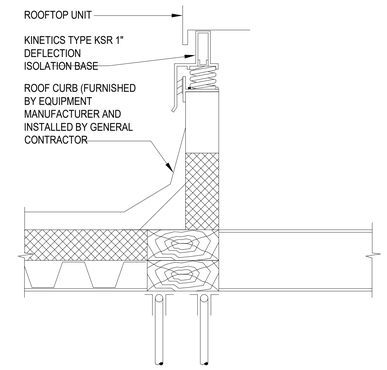


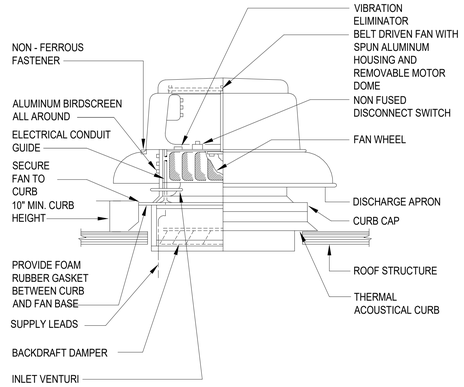
SUSPENDED EQUIPMENT SUPPORT DETAIL

NO SCALE



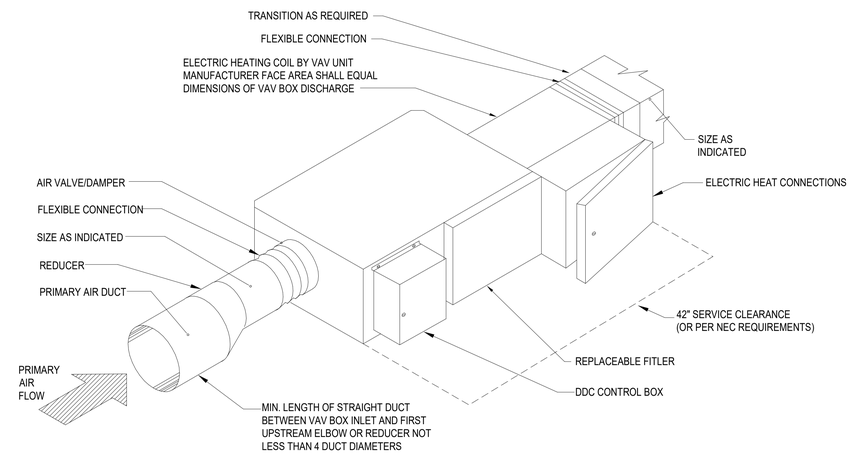
ROOFTOP UNIT ACOUSTICAL CURB DETAIL

NO SCALE



POWER ROOF VENTILATOR DETAIL

NO SCALE



NOTE:
PROVIDE MINIMUM SERVICE CLEARANCE PER NEC REQUIREMENTS AT SIDE OF VAV BOX FOR ELECTRICAL DISCONNECTS AND SERVICE BOXES. THERE SHALL BE NO OBSTRUCTIONS (SPRINKLER PIPING, LIGHTS, WALLS, ETC.) WITHIN THIS AREA.

NOTE:
DETAIL IS A DIAGRAMMATIC REPRESENTATION OF CONNECTIONS AND SERVICE CLEARANCE REQUIRED FOR TERMINAL UNIT. COORDINATE ACTUAL REQUIREMENTS WITH EQUIPMENT PROVIDED.

SERIES FAN POWERED TERMINAL UNIT W/ ELECTRIC HEAT DETAIL

NO SCALE

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PACKAGED ROOFTOP VARIABLE AIR VOLUME UNIT SCHEDULE

		SUPPLY FAN DATA								RETUIRN FAN DATA							COOLING DATA				HEATING DATA		ELECTRICAL DATA				
								ELECTRICAL DATA							ELECTRICAL DATA												
TAG	LOCATION	CFM (MAX/MIN)	OA CFM	E.S.P (IN WG)	T.S.P (IN WG)	HP	FAN TYPE	VOLTS	PHASE	CFM	E.S.P (IN WG)	T.S.P (IN WG)	HP	FAN TYPE	VOLTS	PHASE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT °F D.B.	EAT °F W.B.	SELECTED KW	SELECTED STAGES	VOLTS	PHASE	MCA	MOCP	REMARKS
RTU-1	ROOF							460	3						460	3							460	3			80 TON UNIT
RTU-2	ROOF							460	3						460	3							460	3			80 TON UNIT

NOTES:
1. SELECTIONS BASED ON TRANE.
2. LEAVING AIR IS TO BE PROVIDED AT THE UNIT DISCHARGE, TOTAL AND SENSIBLE CAPACITES ARE "NET" VALUES TO BE PROVIDED DOWNSTREAM OF THE SUPPLY AIR FAN.
3. PROVIDE WITH MOTOR STARTER(S) SIZED IN ACCORDANCE WITH NEMA RECOMMENDATIONS.
4. PROVIDE WITH INVERTER DUTY RATED MOTOR(S) AND VARIABLE FREQUENCY DRIVE(S)
5. PROVIDE UNIT WITH 30% 2" THICK FILTER.
6. PROVIDE UNIT WITH DIGITAL SCROLL COMPRESSOR.

FAN SCHEDULE

						ELECTRICAL DATA						
TAG	LOCATION	FAN TYPE	CFM	E.S.P (IN WG.)	DRIVE	HP	VOLTS	PHASE	MCA	MOCP	MODEL NO.	REMARKS
EF-1	ROOF	DOWNBLAST					208	3			G	
EF-2	ROOF	DOWNBLAST					208	3			G	
EF-3		INLINE					208	3			SQ	
EF-4		INLINE					208	3			SQ	
EF-5		INLINE					208	3			SQ	

NOTES:
1. SELECTIONS BASED ON GREENHECK.
2. DISCONNECT SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.

ELECTRIC UNIT HEATER SCHEDULE

TAG	LOCATION	NOMINAL CFM	WATTS	BTUH	NO. OF STEPS	VOLTS	PHASE	MANUFACTURER	MODEL NO.	REMARKS
CUH-1								TRANE		
CUH-2						208	3	TRANE	FORCE-FLO	
CUH-3								TRANE		
CUH-4						208	3	TRANE	FORCE-FLO	
CUH-5						208	3	TRANE	FORCE-FLO	
CUH-6						208	3	TRANE	FORCE-FLO	
CUH-7						208	3	TRANE	FORCE-FLO	
EUH-1						208	3	MARKEL	5100	
EUH-2						208	3	MARKEL	5100	

NOTES:
1. PROVIDE WITH INTEGRAL TAMPER RESISTANT THERMOSTAT, INTEGRAL ELECTRICAL DISCONNECT AND BLOWER.
2. PROVIDE WALL SUPPORT.

CONDENSING UNIT SCHEDULE

			ELECTRICAL DATA					
TAG	LOCATION	SERVES	VOLTS	PHASE	MCA	MOCP	MODEL NO.	REMARKS
CU-1	ROOF	DSS-1	208	3				
CU-2	ROOF	DSS-2	208	3				
CU-3	ROOF	DSS-3	208	3				
CU-4	ROOF	DSS-4	208	3				

NOTES:
1. SELECTIONS BASED ON MITSUBISHI.
2. PROVIDE LOW AMBIENT KIT FOR COOLING AT 0°F.
3. PROVIDE VARIABLE SPEED COMPRESSOR.

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

			COIL DATA		FAN DATA			HEATING DATA			ELECTRICAL DATA					
TAG	LOCATION	TOTAL CAPACITY (MBH)	EAT °F D.B.	EAT °F W.B.	CFM	E.S.P. (IN WG.)	FAN HP	TOTAL CAPACITY (MBH)	COP	EAT °F	MCA	MOCP	VOLTS	PHASE	MODEL NO.	REMARKS
DSS-1																
DSS-2													208	3		
DSS-3													208	3		
DSS-4													208	3		

NOTES:
1. SELECTIONS BASED ON MITSUBISHI.
2. COOLING CAPACITY BASED ON 95º F AMBIENT.
3. PROVIDE WITH COIL FREEZE PROTECTION, REMOTE MOUNTED THERMOSTAT, CONDENSATE PUMP.

SERIES FAN POWERED VAV TERMINAL BOX SCHEDULE (ELECTRIC HEAT) - FIRST FLOOR

		VOL. REG. CFM			FAN CAPACITY		FAN MOTOR			ELECTRIC HEATING COIL									
TAG	LOCATION	MIN	MAX	INLET SIZE (IN)	CFM	E.S.P (IN WG)	HP	VOLTS	PHASE	SELECTED KW	NO. OF STAGES	MAX COIL EAT (°F)	MIN COIL EAT (°F)	VOLTS	PHASE	MCA	MOCP	MODEL NO.	REMARKS
FPVAV-1-1								277	1					277	1			VSEF	
FPVAV-1-2								277	1					277	1			VSEF	
FPVAV-1-3								277	1					277	1			VSEF	
FPVAV-1-4								277	1					277	1			VSEF	
FPVAV-1-5								277	1					277	1			VSEF	
FPVAV-1-6								277	1					277	1			VSEF	
FPVAV-1-7								277	1					277	1			VSEF	
FPVAV-1-8								277	1					277	1			VSEF	
FPVAV-1-9								277	1					277	1			VSEF	
FPVAV-1-10								277	1					277	1			VSEF	
FPVAV-1-11								277	1					277	1			VSEF	
FPVAV-1-12								277	1					277	1			VSEF	
FPVAV-1-13								277	1					277	1			VSEF	
FPVAV-1-14								277	1					277	1			VSEF	
FPVAV-1-15								277	1					277	1			VSEF	
FPVAV-1-16								277	1					277	1			VSEF	
FPVAV-1-17								277	1					277	1			VSEF	
FPVAV-1-18								277	1					277	1			VSEF	
FPVAV-1-19								277	1					277	1			VSEF	
FPVAV-1-20								277	1					277	1			VSEF	
FPVAV-1-21								277	1					277	1			VSEF	
FPVAV-1-22								277	1					277	1			VSEF	
FPVAV-1-23								277	1					277	1			VSEF	
FPVAV-1-24								277	1					277	1			VSEF	
FPVAV-1-25								277	1					277	1			VSEF	
FPVAV-1-26								277	1					277	1			VSEF	
FPVAV-1-27								277	1					277	1			VSEF	

NOTES:
1. SELECTIONS BASED ON TRANE.
2. PROVIDE SCR FAN SPEED CONTROLLER.
3. SELECT UNITS FOR MAXIMUM NOISE CRITERIA OF 30.
4. PROVIDE PULSE WIDTH MODULATION CONTROL OF ELECTRIC HEAT.
5. PROVIDE A SINGLE POINT POWER CONNECTION AND INTEGRAL DISCONNECT.

SERIES FAN POWERED VAV TERMINAL BOX SCHEDULE (ELECTRIC HEAT) - SECOND FLOOR

		VOL. REG. CFM			FAN CAPACITY		FAN MOTOR			ELECTRIC HEATING COIL									
TAG	LOCATION	MIN	MAX	INLET SIZE (IN)	CFM	E.S.P (IN WG)	HP	VOLTS	PHASE	SELECTED KW	NO. OF STAGES	MAX COIL EAT (°F)	MIN COIL EAT (°F)	VOLTS	PHASE	MCA	MOCP	MODEL NO.	REMARKS
FPVAV-2-1								277	1					277	1			VSEF	
FPVAV-2-2								277	1					277	1			VSEF	
FPVAV-2-3								277	1					277	1			VSEF	
FPVAV-2-4								277	1					277	1			VSEF	
FPVAV-2-5								277	1					277	1			VSEF	
FPVAV-2-6								277	1					277	1			VSEF	
FPVAV-2-7								277	1					277	1			VSEF	
FPVAV-2-8								277	1					277	1			VSEF	
FPVAV-2-9								277	1					277	1			VSEF	
FPVAV-2-10								277	1					277	1			VSEF	
FPVAV-2-11								277	1					277	1			VSEF	
FPVAV-2-12								277	1					277	1			VSEF	
FPVAV-2-13								277	1					277	1			VSEF	
FPVAV-2-14								277	1					277	1			VSEF	
FPVAV-2-15								277	1					277	1			VSEF	
FPVAV-2-16								277	1					277	1			VSEF	
FPVAV-2-17								277	1					277	1			VSEF	
FPVAV-2-18								277	1					277	1			VSEF	
FPVAV-2-19								277	1					277	1			VSEF	
FPVAV-2-20								277	1					277	1			VSEF	
FPVAV-2-21								277	1					277	1			VSEF	
FPVAV-2-22								277	1					277	1			VSEF	
FPVAV-2-23								277	1					277	1			VSEF	
FPVAV-2-24								277	1					277	1			VSEF	
FPVAV-2-25								277	1					277	1			VSEF	
FPVAV-2-26								277	1					277	1			VSEF	

NOTES:
1. SELECTIONS BASED ON TRANE.
2. PROVIDE SCR FAN SPEED CONTROLLER.
3. SELECT UNITS FOR MAXIMUM NOISE CRITERIA OF 30.
4. PROVIDE PULSE WIDTH MODULATION CONTROL OF ELECTRIC HEAT.
5. PROVIDE A SINGLE POINT POWER CONNECTION AND INTEGRAL DISCONNECT.

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GENERAL ELECTRICAL NOTES

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS INCLUDING CIVIL, STRUCTURAL, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE AND ADJUST ACCORDINGLY AS DIRECTED BY THE ENGINEER.

AS-BUILT DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK, DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS SHALL REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE ENGINEER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING #6 OR LARGER TO INSURE THAT ALL PORTIONS ARE FREE FROM SHORT-CIRCUITS AND GROUNDS.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE OWNER.

ELECTRICAL SERVICE: PROVIDE THE ELECTRICAL SERVICE. COMMUNICATE WITH THE LOCAL POWER COMPANY, VERIFY ALL REQUIREMENTS, AND COORDINATE ALL EFFORTS.

GROUNDING: PROVIDE GROUNDING IN ACCORDANCE WITH THE NEC FOR THE ENTIRE ELECTRICAL SYSTEM INCLUDING EQUIPMENT FRAMES CONDUITS, SWITCHES, CONTROLLERS, WIRE-WAYS, NEUTRAL CONDUCTORS, AND OTHER EQUIPMENT. PROVIDE A GROUNDING CONDUCTOR IN ALL POWER CONDUITS.

SHORT CIRCUIT AND COORDINATION STUDY: CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A SHORT CIRCUIT AND COORDINATION STUDY COMPLETED FOR THE AS-BUILT ELECTRICAL DISTRIBUTION SYSTEM BASED UPON ACTUAL EQUIPMENT AND FEEDER LENGTHS INSTALLED. THE STUDY SHALL BE COMPLETED WITH STANDARD COMMERCIAL SOFTWARE, AND INCLUDE RECOMMENDED SETTINGS FOR ALL ADJUSTABLE DEVICES. THE STUDY SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER.

LABELS: PROVIDE LABELS FOR ALL SWITCHBOARDS, SWITCHBOARD BREAKERS, PANELBOARDS, CABINETS, SAFETY SWITCHES, MOTOR-DISCONNECT SWITCHES, AND MOTOR CONTROLLERS. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC, PERMANENTLY ATTACHED WITH SELF-TAPPING SCREWS OR RIVETS. DO NOT USE SELF-ADHESIVE LABELS. LABEL SHALL INDICATE EQUIPMENT DESIGNATION AND ASSOCIATED PANEL AND CIRCUIT THAT SERVES IT.

J-BOX LABELING: LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING CIRCUIT NUMBER AND PANELBOARD OF CIRCUITS WITHIN.

WIRING DEVICES: LABEL ALL WIRING DEVICES WITH PANELBOARD AND CIRCUIT DESIGNATION PERMANENTLY ATTACHED WITH BLACK TYPED DESIGNATION ON CLEAR TAPE.

PANEL DIRECTORY: PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD WITH CIRCUIT LOAD INFORMATION AND ROOM NUMBER CLEARLY IDENTIFIED. USE ACTUAL ROOM NUMBERS IN THE BUILDING, NOT THE ROOM NUMBERS SHOWN ON THE CONTRACT DRAWINGS, AS THEY ARE OFTEN DIFFERENT.

CONDUCTORS: IN SITUATIONS WHERE CONDUCTOR SIZES AND/OR QUANTITIES OF PARALLEL SETS HAVE BEEN INCREASED DUE TO VOLTAGE DROP OR FOR OTHER REASONS, CONTRACTOR SHALL PROVIDE THE APPROPRIATE LUG SIZES/QUANTITIES WITHIN THE EQUIPMENT CONNECTED (SWITCHBOARD, PANELBOARD, DISCONNECT SWITCH, TRANSFER SWITCH ETC.) TO PERMIT SATISFACTORY CONNECTION OF THE INDICATED CONDUCTORS. WHERE SUFFICIENT LUG SIZES AND/OR QUANTITIES CANNOT BE PROVIDED TO ACCOMMODATE THE CONDUCTORS INDICATED, THEN PROVIDE REDUCING ADAPTERS, PIN TERMINALS, OR A JUNCTION BOX TO SPLICE LARGER CONDUCTORS TO APPROPRIATELY SIZED SMALLER CONDUCTORS TO FIT INTO THE LUGS PROVIDED. ALL CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE NEC.

MOTOR COORDINATION: MOTORS, MOTOR STARTERS, CONTROLLERS, INTEGRAL DISCONNECT SWITCHES, AND CONTACTORS SHALL BE PROVIDED WITH THEIR RESPECTIVE PIECES OF EQUIPMENT BY THE EQUIPMENT SUPPLIER. COMMUNICATE WITH THE TRADES PROVIDING THE EQUIPMENT, VERIFYING ALL REQUIREMENTS, PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED THEREIN, AND INSTALL MOTOR STARTERS.

MOTOR DISCONNECTS: ALL MOTORS SHALL HAVE DISCONNECTING MEANS.

MOTOR CONTROLLERS: ALL 3-PHASE MOTORS SHALL HAVE MAGNETIC MOTOR CONTROLLERS WITH SOLID STATE OVERLOAD RELAY PROTECTION. THE SOLID STATE OVERLOAD RELAY SHALL HAVE PHASE LOSS AND PHASE OVERCURRENT PROTECTION WITH AUTOMATIC RESET UPON RETURN OF NORMAL POWER.

MOTOR FUSE PROTECTION: WHERE FUSE PROTECTION IS SPECIFICALLY REQUIRED BY THE EQUIPMENT MANUFACTURER, PROVIDE FUSED SWITCHES IN LIEU OF NON-FUSED SWITCHES OR IN LIEU OF ENCLOSED CIRCUIT BREAKERS, OR OTHER DEVICES INDICATED.

REDUCED VOLTAGE STARTERS: REDUCED VOLTAGE STARTERS OR ELECTRONIC SOFT START CONTROLLERS OR VARIABLE FREQUENCY DRIVES (VFD) SHALL BE PROVIDED FOR ALL MOTORS 40HP AND LARGER AT 480 VOLTS, AND 20 HP AND LARGER AT 208 VOLTS.

CONNECTION DETAILS: SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS, ROUGH-IN AND HOOK UP DETAILS FROM OTHER INVOLVED CONTRACTORS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

COORDINATION DETAILS: MECHANICAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS.

WORKING CLEARANCE: COORDINATE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MECHANICAL DUCTWORK, PIPING ETC. AND ASSURE WORKING CLEARANCE REQUIRED BY NEC WILL BE MET. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF EQUIPMENT PROVIDED AND INSTALLED BY OTHER TRADES.

STARTER MOUNTING: WHERE AN INDIVIDUALLY MOUNTED SAFETY SWITCH, STARTER OR CIRCUIT BREAKER IS SHOWN ADJACENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL, PROVIDE ALL SUPPORTS, BRACKETS, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.

LIGHTING ARRANGEMENT: ARRANGE LIGHTING FIXTURES IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

LIGHTING COORDINATION: COORDINATE LIGHTING FIXTURES WITH GRILLES, DIFFUSERS, SPRINKLER HEADS, AND ACCESS PANELS, ETC. PROVIDE FIXTURE MOUNTING BRACKETS, ACCESSORIES, PLASTER FRAMES, ETC.. SUITABLE FOR THE CEILING TYPES INDICATED ON THE ARCHITECTURAL PLANS.

MATERIAL COORDINATION: VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO INSURE PROPER FIXTURE OR DEVICE IS FURNISHED TO MATCH CONSTRUCTION.

MOUNTING HEIGHTS: MOUNTING HEIGHTS INDICATED ARE FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE WIRING DEVICE UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURE UNLESS OTHERWISE NOTED.

DEVICE LOCATIONS: COORDINATE LOCATIONS OF SWITCHES, RECEPTACLES, AND TELE/DATA OUTLETS WITH OTHER WALL MOUNTED DEVICES SUCH AS THERMOSTATS AND CONTROL STATIONS.

EWC RECEPTACLES: RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) SHALL BE INSTALLED OUT OF VIEW AND BEHIND THE EWC ENCLOSURE. VERIFY THE MOUNTING HEIGHT WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

DEVICE COORDINATION: THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES.

FLOOR LOCATIONS: VERIFY THE LOCATION OF ALL FLOOR OUTLET BOXES AND OF CONDUIT STUB-UPS WITH THE ARCHITECT'S FURNITURE AND EQUIPMENT LAYOUT PRIOR TO INSTALLATION.

BARRIERS: WHERE A MULTIPLE-GANG BOX HAS CIRCUITS OF DIFFERENT VOLTAGES OR SYSTEMS WHICH ARE REQUIRED TO BE SEPARATED, PROVIDE THE CODE-REQUIRED SEPARATION USING A FULL HEIGHT AND DEPTH BARRIER PLATE.

FIRE STOPPING: FOR ANY WALL OR FLOOR PENETRATIONS THROUGH FIRE-RATED STRUCTURES PROVIDE FIRE-STOPPING TO SEAL ALL THE PENETRATIONS AFTER THE CONDUIT HAS BEEN INSTALLED. FIRE STOPPING FOR PENETRATIONS SHALL BE UL APPROVED PER THE PENETRATION MADE IN ORDER TO MAINTAIN FIRE-RATED INTEGRITY OF THE STRUCTURE.

CLEAN UP: ON PROJECT CLOSE-OUT CLEAN ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, LAMPS AND LENSES, AND REMOVE ALL PAINT SPATTERS FROM DEVICES, FIXTURES AND PLATES. REPLACE ALL INOPERATIVE LAMPS.

FIRE ALARM COORDINATION: THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM PROVIDER AND PROVIDE POWER CONNECTIONS TO ALL COMPONENTS WHETHER SHOWN OR NOT. MANUFACTURERS REQUIRE VARYING QUANTITIES OF POWER CONNECTIONS FOR EQUIPMENT LIKE EXPANDER PANELS AND POWER SUPPLIES. THESE DEVICES ARE DEPENDENT UPON THE SPECIFIC MANUFACTURERS SYSTEM. THE FIRE ALARM SYSTEM SUPPLIER SHALL NOTIFY THE OTHER APPROPRIATE SUB-CONTRACTORS ABOUT THESE REQUIREMENTS AND CONNECTION SHALL BE PROVIDED AS PART OF THE PROJECT.

HVAC DAMPERS, ETC: CONTRACTORS SHALL COORDINATE WITH THE EQUIPMENT AND SYSTEM BEING PROVIDED AND PROVIDE POWER CONNECTIONS ACCORDINGLY. THESE CONNECTIONS SHALL BE FOR FIRE/SMOKE DAMPERS, DDC CONTROL DEVICES, ETC. CONTRACTOR SHALL COORDINATE THE VOLTAGE REQUIREMENTS AND PROVIDE ALL NECESSARY CONNECTIONS, COMPONENTS, ETC. THIS INCLUDES TRANSFORMERS, BOXES, ETC.

FIRE ALARM EQUIPMENT SURVIVAL: ACCORDING TO APPLICABLE CODE, A SMOKE DETECTOR IS REQUIRED AT ALL CONTROL PANEL LOCATIONS (I.E. FIRE ALARM PANEL, NOTIFICATION EXTENDER PANELS, TRANSMITTERS, ETC.). CONTRACTOR SHALL PROVIDE SYSTEM SMOKE DETECTORS FOR ALL LOCATIONS OF FIRE ALARM PANELS, TO INCLUDE THOSE SHOWN AND THOSE THAT ARE ADDED BY THE CONTRACTOR FOR THEIR SPECIFIC DESIGN.

CEILING PLENUM: THE CEILING SPACE IS A RETURN AIR PLENUM. ALL LOW VOLTAGE CABLE SHALL BE PLENUM RATED. REFER TO NEC ART. 300.22 FOR PROVISIONS APPLICABLE TO PLENUMS.

OWNER STANDARDS: ALL WORK SHALL COMPLY WITH THE OWNER'S PUBLISHED STANDARDS WHICH ARE AVAILABLE DIRECTLY FROM THE OWNER.

EMERGENCY RESPONDER RADIO COVERAGE NOTE

CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE OF THE FOLLOWING COURSES OF ACTION.

1. ENGAGE A QUALIFIED TESTING AGENCY TO VERIFY EMERGENCY RESPONDER COMMUNICATIONS SIGNAL LEVELS IN ALL AREAS OF THE BUILDINGS ONCE ALL STRUCTURAL STEEL AND CONCRETE HAS BEEN CONSTRUCTED.

2. ENGAGE CITY OF **[CITY/COUNTY]** EMERGENCY RESPONSE GROUPS (FIRE, POLICE, EMS) AND HAVE THEM TEST THEIR SPECIFIC EQUIPMENT IN ALL AREAS OF THE BUILDINGS ONCE ALL STRUCTURAL STEEL AND CONCRETE HAS BEEN CONSTRUCTED.

IF SIGNAL LEVELS ARE BELOW COMMUNICATIONS EQUIPMENT MANUFACTURER'S STANDARDS, THEN THE SIGNALS SHALL BE SUPPLEMENTED IN ALL DEFICIENT AREAS OF THE SITE IN ACCORDANCE WITH PARAGRAPH BELOW.

PROVIDE A COMPLETE RADIATING CABLE SYSTEM CONSISTING OF COAXIAL CABLE OR EQUIVALENT ABOVE ACCESSIBLE CEILINGS (PREFERABLY SERVICE CORRIDORS) TO PROVIDE A SUPPORTING CABLE INFRASTRUCTURE FOR THE ADDITION OF A BUILDING DISTRIBUTION AMPLIFIER TO PERPETUATE CONTINUOUS EMERGENCY COMMUNICATION WITHIN THE BUILDING(S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CABLE EVERYWHERE NECESSARY TO ENSURE ADEQUATE COMMUNICATION IS ATTAINED IN ALL AREAS OF THE BUILDING(S). A 4' X 4' SPACE ON THE TELEPHONE BACKBOARD(S) SHALL BE ALLOCATED IN THE MAIN TELECOMMUNICATIONS DISTRIBUTION LOCATION(S) FOR THE AMPLIFIER AND ALL CABLE WILL BE RUN BACK TO THIS LOCATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING A PATHWAY (1"C MINIMUM) FROM THE AMPLIFIER LOCATION TO THE ROOF (THROUGH A PITCH POCKET) FOR THE POTENTIAL ADDITION OF A RADIO SYSTEMS ANTENNA. CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED RADIO COMMUNICATIONS CONTRACTOR TO PROVIDE A COMPLETE DESIGN. DESIGN, INSTALLATION, AND TESTING SHALL CONFORM WITH REQUIREMENTS OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE 2012, SECTION 510 OF THE INTERNATIONAL FIRE CODE 2012, EMERGENCY RESPONDER RADIO COVERAGE. THE COST OF THE DESIGN AND THE INSTALLATION OF THIS SYSTEM SHALL BE INCLUDED AS A SEPARATE ADDITIVE BID ITEM.

FIRE STOPPING NOTE:

CONTRACTOR SHALL PROVIDE AN APPROPRIATE LISTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY AT EACH PENETRATION OF FIRE RATED CONSTRUCTION (I.E. WALLS AND SLABS, ETC.). SLEEVES SHALL ONLY BE PERMITTED WHERE INDICATED IN THE CONTRACTOR SELECTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL RATED ASSEMBLIES AND ASSOCIATED UL DESIGNATIONS. DEVICES INSTALLED RECESSED WITHIN FIRE RATED CONSTRUCTION (I.E. LIGHT SWITCHES, RECEPTACLES, ETC.) ARE ONLY PERMITTED WHEN AN APPROVED LISTED FIRE STOPPING SYSTEM EXISTS FOR THE APPLICATION. IF AN APPROVED LISTED FIRE STOPPING SYSTEM IS UNAVAILABLE, THE CONTRACTOR SHALL BRING THE CONDITION TO THE ATTENTION OF THE A/E FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK.

ENERGY CODE COMPLIANCE PATH

- ■ ASHRAE 90.1
- □ VECC CHAPTER 4 - PRESCRIPTIVE
- □ VECC CHAPTER 4 - PERFORMANCE

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ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

LEGEND, NOTES AND ABBREVIATIONS

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
COMPREHENSIVE AGREEMENT SET		9/19/2016

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E-001

ELECTRICAL LEGEND

LIGHTING

- LIGHTING FIXTURE
- EMERGENCY LIGHTING FIXTURE [WITH EMERGENCY BATTERY BALLAST - CONNECT EMERGENCY BALLAST AHEAD OF LOCAL SWITCH.] [CONNECT TO LIFE SAFETY LIGHTING CIRCUIT] [SUBSCRIPT "NL", WHERE USED, INDICATES A NIGHT LIGHT (ALL BALLASTS UNSWITCHED)]
- DOWNLIGHT OR PENDANT MOUNTED FIXTURE
- TRACK LIGHTING FIXTURE. ▽INDICATES AN INDIVIDUAL FIXTURE ON THE TRACK
- WALL MOUNTED LIGHTING FIXTURE
- AREA SITE LIGHTING FIXTURE
- POST-TOP TYPE AREA MOUNTED LIGHT
- EXIT LIGHTING FIXTURE, WITH DIRECTIONAL ARROWS AS INDICATED WITH BATTERY PACK - CONNECT AHEAD OF LOCAL SWITCH.
- EMERGENCY BATTERY LIGHTING UNIT, CONNECT AHEAD OF LOCAL SWITCH.
- A — LIGHTING FIXTURE TYPE SYMBOL. SEE LIGHTING FIXTURE DETAILS.
- S — SINGLE POLE SWITCH, 20A, 120/277V, 46" AFF UON
- SS — DUAL SWITCH (SINGLE POLE OR TYPE AS INDICATED BY SUBSCRIPT). 20A, 120/277V, 46" AFF UON. CONNECT EACH TO SEPARATELY CONTROL INBOARD AND OUTBOARD LAMPS OF EACH FIXTURE INDICATED. (CONTROL INBOARD AND OUTBOARD LAMPS CONSISTENTLY)
- S_3 — THREE-WAY SWITCH, 20A, 120/277V, 46" AFF UON
- S_4 — FOUR-WAY SWITCH, 20A, 120/277V, 46" AFF UON
- S_D — DIMMER SWITCH, 46" AFF UON. FOR INCANDESCENT FIXTURES, PROVIDE 1500W, 120V SWITCH. FOR FLUORESCENT OR L.E.D. FIXTURES, COORDINATE VOLTAGE AND RATINGS OF SWITCH WITH TYPE AND QUANTITY OF BALLASTS OR DRIVERS TO BE CONTROLLED.
- S_K — SINGLE POLE KEYED SWITCH, 20A, 120/277V, 46" AFF UON
- S_P — SINGLE POLE SWITCH, 20A, 120V, WITH PILOT LIGHT, MOUNT 46" AFF
- S_{MC} — MOMENTARY CONTACT SWITCH, TWO POLE WITH NEUTRAL CENTER POSITION, 20A, 120/277V, 46" AFF, UON
- LC — LIGHTING CONTACTOR
- TC — TIME CLOCK
- P — PHOTOCELL, 1500W, 120V SPST, MOUNT ON ROOF, AIM NORTH
- OC — CEILING MOUNTED DUAL TECHNOLOGY ULTRASONIC/PASSIVE INFRARED OCCUPANCY SENSOR.
- S_{OC} — WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH SINGLE POLE SWITCH, 120/277V, MOUNT 46"AFF.
- S_{OCZ} — WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH TWO SINGLE POLE SWITCHES, 120/277V, MOUNT 46"AFF.

POWER

[RECEPTACLES SHALL BE [TAMPER RESISTANT] [HOSPITAL GRADE], (TYP, UON).]
THE FOLLOWING SUBSCRIPTS SHALL APPLY TO RECEPTACLES WHERE USED:

- GFI: GROUND FAULT INTERRUPTING TYPE RECEPTACLE
- E: RECEPTACLE CONNECTED TO EMERGENCY CIRCUIT. DEVICE SHALL BE RED WITH MATCHING COVERPLATE.
- +XX": DEVICE MOUNTING HEIGHT DESIGNATION ABOVE FINISHED FLOOR IF OTHER THAN 18" OR 46".
- TV: TELEVISION RECEPTACLE, COORDINATE MOUNTING HEIGHT WITH TELEVISION MOUNTING BRACKET.
- WP: WEATHER RESISTANT GFI RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER.
- EWC: ELECTRIC WATER COOLER RECEPTACLE, GROUND FAULT INTERRUPTING TYPE. LOCATE BEHIND THE EWC PER MANUFACTURER'S RECOMMENDATIONS.
- IG: ISOLATED GROUND RECEPTACLE.
- C: RECEPTACLE MOUNTED FLUSH IN CEILING
- VS: SWITCHED OUTLET CONTROLLED BY VACANCY SENSOR

- SINGLE RECEPTACLE 20A, 120V, 18" AFF, UON
- DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 18" AFF, UON
- TWO DUPLEX RECEPTACLES IN COMMON BOX, EACH 20A, 120V, 18" AFF, UON
- DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 46" AFF, UON (OR 6" ABOVE COUNTER AS APPLICABLE)
- TWO DUPLEX RECEPTACLES IN COMMON BOX, EACH 20A, 120V, 46" AFF, UON (OR 6" ABOVE COUNTER OR BACKSPLASH AS APPLICABLE
- TOP SWITCHED DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 18" AFF, UON. ONLY TOP RECEPTACLE SHALL BE CONTROLLED.

POWER (CONT.)

- SWITCHED DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 18" AFF, UON.
- SPECIAL RECEPTACLE, AS NOTED ON PLANS
- PT — DEVICE MOUNTED IN FLUSH FLOOR BOX. SUBSRIPT "PT", WHERE USED, INDICATES A FLUSH MOUNTED POKE-THRU DEVICE. PROVIDE 1"C WITH WIRING STUBBED ABOVE ACCESSIBLE CEILING FOR TELE/DATA CABLING. SEE TELE/DATA OUTLET SYMBOL, THIS SHEET FOR MORE INFORMATION.
- SURFACE METAL RACEWAY WITH 20A, 120V SINGLE RECEPTACLES AT 12" ON CENTER. MOUNT 1" ABOVE COUNTERTOP BACKSPLASH.
- GFI — HEAT TAPE CONNECTION, CLASS B GFI DEVICE WITH PUSH TO TEST AND RESET BUTTONS WITH WEATHER PROOF COVER. CONNECT AHEAD OF HEAT TRACE THERMOSTAT.
- UH — UNIT HEATER CONNECTION (UNIT HAS INTEGRAL DISCONNECTING MEANS)
- VAV-X — VAV TERMINAL UNIT CONNECTION - SEE SCHEDULE. "X" INDICATES UNIT NUMBER
- FCU — FAN COIL UNIT CONNECTION. PROVIDE MOTOR RATED DISCONNECT SWITCH.
- RTU — ROOF TOP UNIT CONNECTION 200A
- E — EQUIPMENT CONNECTION
- J — JUNCTION BOX
- MOTOR CONNECTION
- S_M — MOTOR RATED SWITCH WITH THERMAL OVERLOADS 20A, 120V, UON, MOUNTED WITHIN SIGHT OF MOTOR.
- SAFETY SWITCH, 60A-3P, FU @ 30A, 3R
  - SWITCH RATING
  - NUMBER OF POLES
  - FUSE RATING (NF INDICATES NON-FUSED)
  - NEMA ENCLOSURE IF OTHER THAN NEMA 1
- ENCLOSED CIRCUIT BREAKER, 60A-3P, 3R
  - BREAKER TRIP RATING
  - NUMBER OF POLES
  - NEMA ENCLOSURE IF OTHER THAN NEMA 1
- VFD — VARIABLE FREQUENCY DRIVE (UNIT SUPPLIED WITH DISCONNECTING MEANS)
- MAGNETIC MOTOR STARTER, MOUNT WITHIN SITE OF MOTOR 5'-0" AFF MAX, UON.
- SPD — SURGE PROTECTIVE DEVICE
- ELECTRICAL PANELBOARD
- T — DRY-TYPE TRANSFORMER
- T — PAD MOUNTED TRANSFORMER
  - INDICATES FRONT
- AND — ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE 1 #12 PHASE CONDUCTOR, 1 #12 NEUTRAL CONDUCTOR AND 1 #12 GROUNDING CONDUCTOR (PLUS 1 #12 INSULATED, ISOLATED GROUNDING CONDUCTOR WHEN SERVING ISOLATED GROUND TYPE DEVICES) IN 1/2" [3/4" MIN FOR VB] CONDUIT. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE NEUTRAL CONDUCTOR TO ALL WALL SWITCH OUTLET BOXES WHETHER REQUIRED OR NOT. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS MAY BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. GROUNDING CONDUCTORS MAY BE SHARED AS ALLOWED BY THE NEC. NEUTRAL CONDUCTORS SHALL NOT BE SHARED. MULTI-POLE BREAKERS SHALL BE PROVIDED IN ACCORDANCE WITH THE NEC SHOULD MULTI-WIRE BRANCH CIRCUITS BE INSTALLED. CONDUIT LARGER THAN 1/2" AND CONDUCTORS LARGER THAN #12 SHALL BE AS INDICATED.
- GENERAL — PB — PULL BOX DIRECT BURIED, TOP FLUSH WITH GRADE, TYPE 8, SEE DETAIL SHEET E603.

DETAIL OR SECTION NOTATION
- ENUMERATION: A = DETAIL, 1 = SECTION
- SHEET WHERE SECTION IS SHOWN
- SHEET WHERE SECTION IS CUT

- 1 — NEW WORK NOTE SYMBOL
- 1 — DEMOLITION NOTE SYMBOL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- SMOKE PARTITION

TELECOMMUNICATIONS

- TELE/DATA OUTLET, 4"X4"X2 1/8"D BOX WITH SINGLE GANG PLASTER RING AND SINGLE GANG COVERPLATE TO MATCH ELECTRICAL OUTLET COVERPLATE MATERIAL AND COLOR , 18" AFF, UON, WITH 1"C WITH (2) CAT 6 UTP CABLES, STUBBED ABOVE ACCESSIBLE CEILING AND TERMINATED WITH BUSHING.
- TELEPHONE OUTLET, 4"X4"X2 1/8"D BOX WITH SINGLE GANG PLASTER RING AND SINGLE GANG COVERPLATE TO MATCH ELECTRICAL OUTLET COVERPLATE MATERIAL AND COLOR , 54" AFF, UON, WITH 1"C WITH (1) CAT 6 UTP CABLE, STUBBED ABOVE ACCESSIBLE CEILING AND TERMINATED WITH BUSHING.
- DATA OUTLET, 4"X4"X2 1/8"D BOX WITH SINGLE GANG PLASTER RING AND SINGLE GANG COVERPLATE TO MATCH ELECTRICAL OUTLET COVERPLATE MATERIAL AND COLOR , 18" AFF, UON, WITH 1"C WITH (1) CAT 6 UTP CABLE, STUBBED ABOVE ACCESSIBLE CEILING AND TERMINATED WITH BUSHING.
- TV — TELEVISION (TV) OUTLET, 4"X4"X2 1/8"D BOX WITH SINGLE GANG PLASTER RING AND SINGLE GANG COVERPLATE TO MATCH ELECTRICAL OUTLET COVERPLATE MATERIAL AND COLOR , 18" AFF, UON, WITH (1) RG-6 COAXIAL CABLE STUBBED ABOVE ACCESSIBLE CEILING. WHERE OUTLET IS ADJACENT TO A POWER RECEPTACLE, MOUNT AT SAME ELEVATION AS POWER RECEPTACLE, UON.
- TELECOMMUNICATIONS BACKBOARD - 4'W x 8'H x 3/4"THICK, TYPE AC FIRE RETARDANT
- TGB — GROUND BUS BAR, SEE DETAIL SHEET E-602.
- TMGB — MAIN GROUND BUS BAR, SEE DETAIL SHEET E-602.
- HH — HANDHOLE TYPE 9, SEE DETAIL SHEET E-603.
- J — J — J-HOOKS, SEE DETAIL SHEET E-602.
- CONDUIT SLEEVE 4"X12", UON. PROVIDE BUSHING ON EACH END.

FIRE ALARM

- FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM REMOTE ANNUNCIATOR PANEL
- F — FIRE ALARM MANUAL PULL STATION, 46" AFF TO ACTUATING ARM, UON
- F 15 — FIRE ALARM AUDIO/VISUAL (HORN/STROBE) APPLIANCE, CEILING MOUNT. NUMBER SUBSCRIPT INDICATES MINIMUM CANDELA RATING. SUBSCRIPT "VR" INDICATES VANDAL RESISTANT.
- F 15 — FIRE ALARM AUDIO/VISUAL (HORN/STROBE) APPLIANCE, 80" AFF, OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, UON. SUBSCRIPT INDICATES MINIMUM CANDELA RATING OF STROBE.
- F 15 — FIRE ALARM VISUAL (STROBE) APPLIANCE, 80" AFF, OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, UON. SUBSCRIPT INDICATES MINIMUM CANDELA RATING OF STROBE.
- F 15 — FIRE ALARM VISUAL (STROBE) APPLIANCE CEILING MOUNTED. SUBSCRIPT INDICATES MINIMUM CANDELA RATING OF STROBE.
- B — SPRINKLER SYSTEM BELL ALARM APPLIANCE, WEATHERPROOF, MOUNT 80" AFG
- F — SPRINKLER SYSTEM SUPERVISORY FLOW SWITCH CONNECTION
- V — SPRINKLER SYSTEM SUPERVISORY VALVE CONNECTION
- D — DUCT MOUNTED SMOKE DETECTOR
- S — FIRE ALARM SYSTEM PHOTOELECTRIC SMOKE DETECTOR, CEILING MOUNTED, UON. SUBSCRIPT "UF" INDICATES UNDER RAISED FLOOR.
- H — FIRE ALARM SYSTEM HEAT DETECTOR, CEILING MOUNTED
- SD — SMOKE DAMPER
- D — FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER DEVICE
- SS — SURGE SUPPRESSER
- MM — MONITOR MODULE

ACCESS CONTROL SYSTEM (RACEWAY INFRASTRUCTURE ONLY)

- CR — CARD READER
- DC — DOOR CONTACTS
- EH — ELECTRIFIED DOOR HARDWARE
- ML — MAGNETIC LOCKS
- RTE — REQUEST TO EXIT

SEE TYPICAL SECURITY DOOR CONFIGURATION DETAIL SHEET E604

IP VIDEO SURVEILLANCE SYSTEM (RACEWAY INFRASTRUCTURE ONLY)

- CAMERA LOCATION
- MON — MONITOR LOCATION

AUDIO/VISUAL SYSTEM (RACEWAY INFRASTRUCTURE ONLY)

- S — CEILING MOUNTED SPEAKER

ABBREVIATIONS

A	AMPERE
ACCU	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
BFG	BELOW FINISHED GRADE
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFL	COMPACT FLUORESCENT LAMP
CKT	CIRCUIT
CB	CIRCUIT BREAKER
DDC	DIRECT DIGITAL CONTROL
DSS	DUCTLESS SPLIT SYSTEM
DVP	DOMINION VIRGINIA POWER
EBU	EMERGENCY BATTERY UNIT
EC	EMPTY CONDUIT
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
ERU	ENERGY RECOVERY UNIT
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
FHP	FRACTIONAL AC HORSEPOWER
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
H & V	HEATING AND VENTILATING UNIT
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER/HEAT PUMP
IG	ISOLATED GROUND
KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
KVA	KILO-VOLT-AMPERES
KW	KILO-WATTS
LTG	LIGHTING
MAU	MAKE-UP AIR UNIT
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
P	POLE
PCP	PUMP CONTROL PANEL
PF	POWER FACTOR
PP	PROPERTY LINE
PNL	PANEL
PNLBD	PANELBOARD
Ø	PHASE
PRI	PRIMARY
RECEPT	RECEPTACLE
REQ'D	REQUIRED
RTU	ROOF TOP UNIT
SE	SERVICE ENTRANCE
SEC	SECONDARY
SPD	SURGE PROTECTIVE DEVICE
TBB	TELEPHONE BACKBOARD
TRT	TRIPLE TUBE FLUORESCENT LAMP
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT(S)
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS/WIRE
WG	WIREGUARD
WP	WEATHERPROOF

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

LEGEND, NOTES AND ABBREVIATIONS

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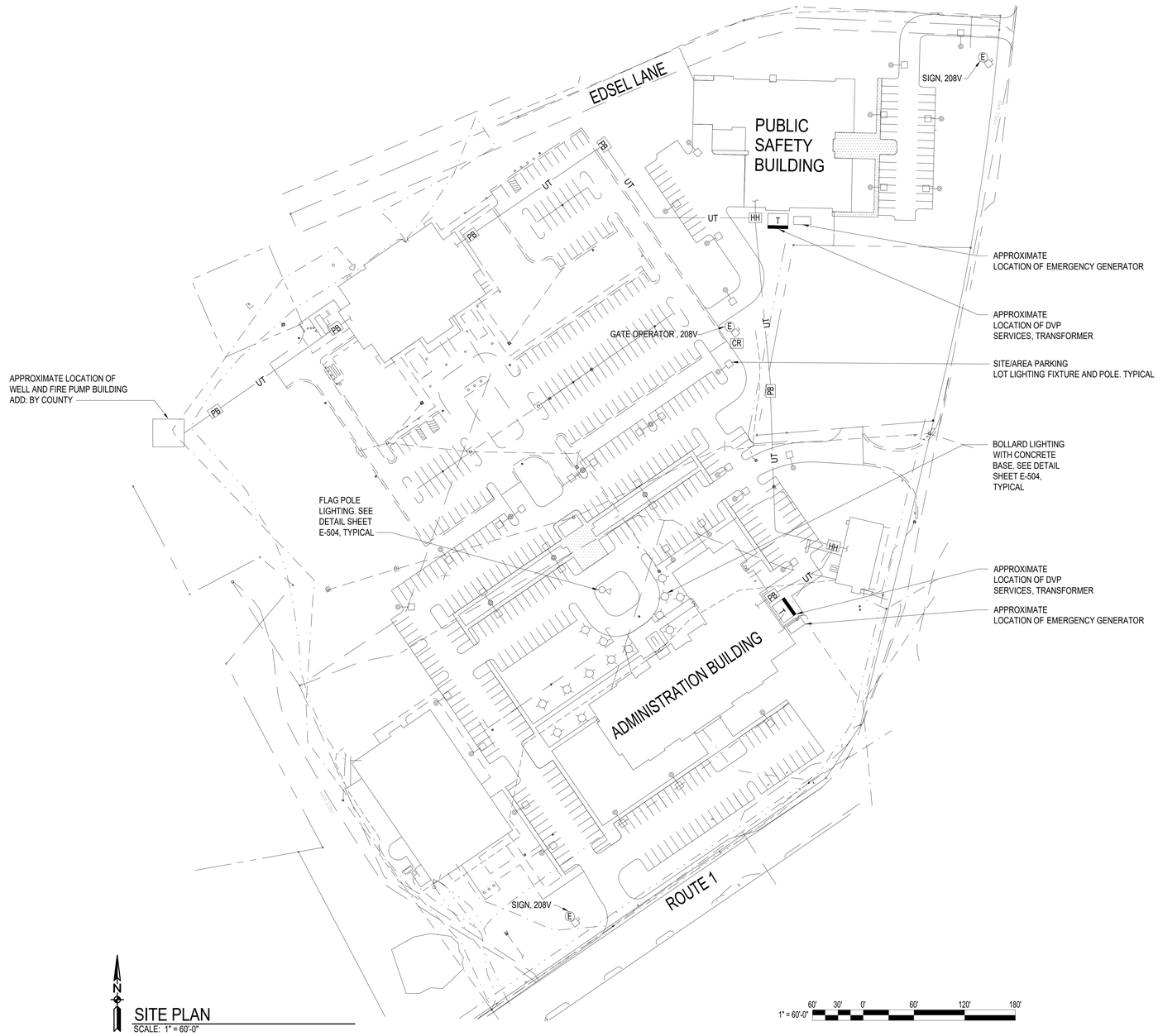
E-002



SITE PLAN
SCALE: 1" = 60'-0"

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

SITE PLAN

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E-003

1ST FLOOR ROOM SCHEDULE

128	LOBBY
132	VESTIBULE
140	CORRIDOR
284	SOCIAL SERVICES
291	CONFERENCE
292	WORK
294	STOR.
296	BREAK
297	COORD.
298	COUNS.
302	HEALTH DEPT. WAITING
329	WAITING
330	DIRECTOR
342	OFFICE MANAGER
343	FISCAL
344	DIRECTOR
353	CLOSED FILES
399	HEALTH DEPARTMENT
403	BOARD ROOM
404	BOARD CONFERENCE ROOM
405	BREAK
406	STAIR C
407	TRAINING
411	BOARDROOM LOBBY
424	CHILDRENS' SERVICES
429	CORR
431	STAIR B
432	DATA

1ST FLOOR ROOM SCHEDULE

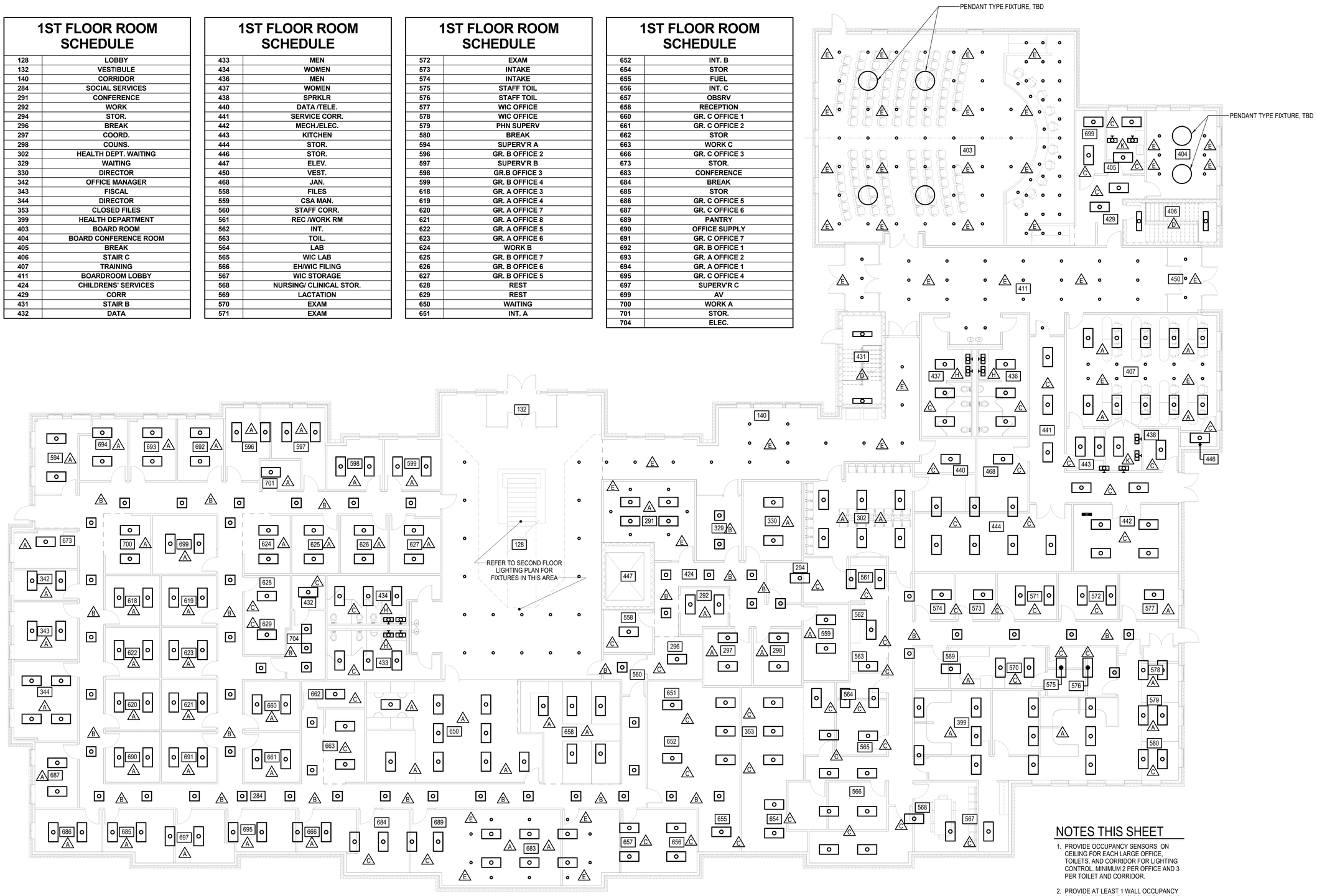
433	MEN
434	WOMEN
436	MEN
437	WOMEN
438	SPRKLR
440	DATA /TELE.
441	SERVICE CORR.
442	MECH./ELEC.
443	KITCHEN
444	STOR.
446	STOR.
447	ELEV.
450	VEST.
468	JAN.
558	FILES
559	CSA MAN.
560	STAFF CORR.
561	REC /WORK RM
562	INT.
563	TOIL.
564	LAB
565	WIC LAB
566	EH/WIC FILING
567	WIC STORAGE
568	NURSING/ CLINICAL STOR.
569	LACTATION
570	EXAM
571	EXAM

1ST FLOOR ROOM SCHEDULE

572	EXAM
573	INTAKE
574	INTAKE
575	STAFF TOIL
576	STAFF TOIL
577	WIC OFFICE
578	WIC OFFICE
579	PHN SUPERV
580	BREAK
594	SUPERV'R A
596	GR. B OFFICE 2
597	SUPERV'R B
598	GR.B OFFICE 3
599	GR. B OFFICE 4
618	GR. A OFFICE 3
619	GR. A OFFICE 4
620	GR. A OFFICE 7
621	GR. A OFFICE 8
622	GR. A OFFICE 5
623	GR. A OFFICE 6
624	WORK B
625	GR. B OFFICE 7
626	GR. B OFFICE 6
627	GR. B OFFICE 5
628	REST
629	REST
650	WAITING
651	INT. A

1ST FLOOR ROOM SCHEDULE

652	INT. B
654	STOR
655	FUEL
656	INT. C
657	OBSRV
658	RECEPTION
660	GR. C OFFICE 1
661	GR. C OFFICE 2
662	STOR
663	WORK C
666	GR. C OFFICE 3
673	STOR.
683	CONFERENCE
684	BREAK
685	STOR
686	GR. C OFFICE 5
687	GR. C OFFICE 6
689	PANTRY
690	OFFICE SUPPLY
691	GR. C OFFICE 7
692	GR. B OFFICE 1
693	GR. A OFFICE 2
694	GR. A OFFICE 1
695	GR. C OFFICE 4
697	SUPERV'R C
699	AV
700	WORK A
701	STOR.
704	ELEC.



NOTES THIS SHEET

1. PROVIDE OCCUPANCY SENSORS ON CEILING FOR EACH LARGE OFFICE, TOILETS, AND CORRIDOR FOR LIGHTING CONTROL. MINIMUM 2 PER OFFICE AND 3 PER TOILET AND CORRIDOR.
2. PROVIDE AT LEAST 1 WALL OCCUPANCY SENSOR FOR LIGHTING CONTROL IN EACH INDIVIDUAL OFFICE.
3. PROVIDE LIGHTING CONTROL SYSTEM FOR BOARD ROOM AND LOBBY TO CONTROL LED LIGHTING.
4. ALL LIGHTING IS LED.

FIRST FLOOR LIGHTING PLAN

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

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

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ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

FIRST FLOOR LIGHTING PLAN

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E-101

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
135	VESTIBULE
190	ADMIN. CONFERENCE
218	DIRECTOR
221	DIR. OF TOUR.
222	MARKETING COORD.
223	CONF.
224	FILES
227	DEP. ADMIN. PCD
262	FILES
263	DEPUTY ADMIN.
264	EXEC. ASSISTANT
265	ADMIN. OFFICE
267	STORAGE
270	EXEC. ASSISTANT 2
271	BREAK ROOM
282	MGR'S OFFICE
389	H.R. TECH.
390	H.R. DIRECTOR
392	RISK MANAGEMENT
393	H.R. MANAGER
420	STAIR B
421	STAIR C
448	ELEV.
451	DATA

2ND FLOOR ROOM SCHEDULE

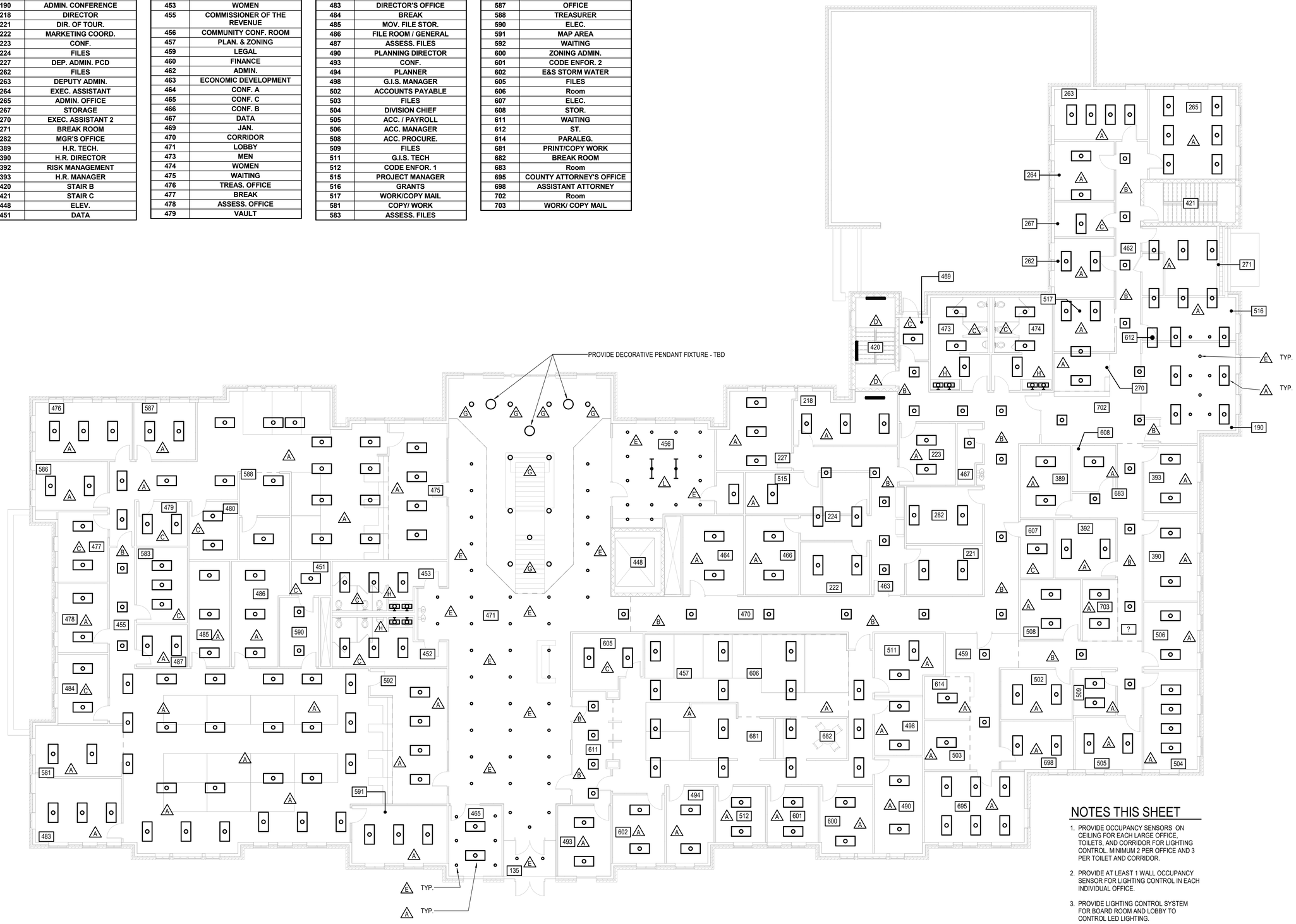
ROOM #	ROOM NAME
452	MEN
453	WOMEN
455	COMMISSIONER OF THE REVENUE
456	COMMUNITY CONF. ROOM
457	PLAN. & ZONING
459	LEGAL
460	FINANCE
462	ADMIN.
463	ECONOMIC DEVELOPMENT
464	CONF. A
465	CONF. C
466	CONF. B
467	DATA
469	JAN.
470	CORRIDOR
471	LOBBY
473	MEN
474	WOMEN
475	WAITING
476	TREAS. OFFICE
477	BREAK
478	ASSESS. OFFICE
479	VAULT

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
480	FILES
483	DIRECTOR'S OFFICE
484	BREAK
485	MOV. FILE STOR.
486	FILE ROOM / GENERAL
487	ASSESS. FILES
490	PLANNING DIRECTOR
493	CONF.
494	PLANNER
498	G.I.S. MANAGER
502	ACCOUNTS PAYABLE
503	FILES
504	DIVISION CHIEF
505	ACC. / PAYROLL
506	ACC. MANAGER
508	ACC. PROCURE.
509	FILES
511	G.I.S. TECH
512	CODE ENFOR. 1
515	PROJECT MANAGER
516	GRANTS
517	WORK/COPY MAIL
581	COPY/ WORK
583	ASSESS. FILES

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
586	OFFICE
587	OFFICE
588	TREASURER
590	ELEC.
591	MAP AREA
592	WAITING
600	ZONING ADMIN.
601	CODE ENFOR. 2
602	E&S STORM WATER
605	FILES
606	Room
607	ELEC.
608	STOR.
611	WAITING
612	ST.
614	PARALEG.
681	PRINT/COPY WORK
682	BREAK ROOM
683	Room
695	COUNTY ATTORNEY'S OFFICE
698	ASSISTANT ATTORNEY
702	Room
703	WORK/ COPY MAIL



NOTES THIS SHEET

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2. PROVIDE AT LEAST 1 WALL OCCUPANCY SENSOR FOR LIGHTING CONTROL IN EACH INDIVIDUAL OFFICE.
3. PROVIDE LIGHTING CONTROL SYSTEM FOR BOARD ROOM AND LOBBY TO CONTROL LED LIGHTING.
4. ALL LIGHTING IS LED.

SECOND FLOOR LIGHTING PLAN

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

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

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SECOND FLOOR LIGHTING PLAN

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E-102

1ST FLOOR ROOM SCHEDULE

128	LOBBY
132	VESTIBULE
140	CORRIDOR
284	SOCIAL SERVICES
291	CONFERENCE
292	WORK
294	STOR.
296	BREAK
297	COORD.
298	COUNS.
302	HEALTH DEPT. WAITING
329	WAITING
330	DIRECTOR
342	OFFICE MANAGER
343	FISCAL
344	DIRECTOR
353	CLOSED FILES
399	HEALTH DEPARTMENT
403	BOARD ROOM
404	BOARD CONFERENCE ROOM
405	BREAK
406	STAIR C
407	TRAINING
411	BOARDROOM LOBBY
424	CHILDRENS' SERVICES
429	CORR
431	STAIR B
432	DATA

1ST FLOOR ROOM SCHEDULE

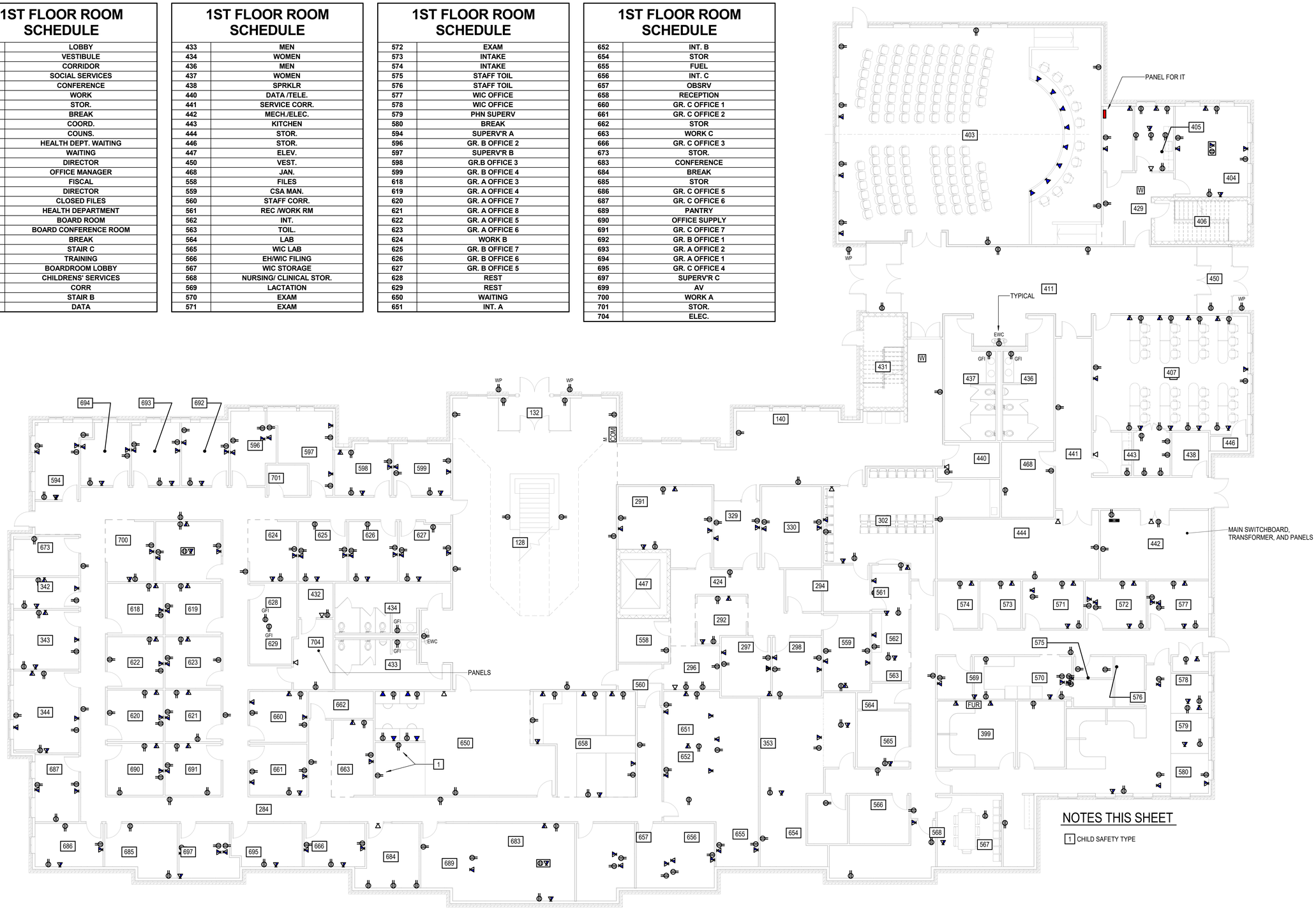
433	MEN
434	WOMEN
436	MEN
437	WOMEN
438	SPRKLR
440	DATA /TELE.
441	SERVICE CORR.
442	MECH./ELEC.
443	KITCHEN
444	STOR.
446	STOR.
447	ELEV.
450	VEST.
468	JAN.
558	FILES
559	CSA MAN.
560	STAFF CORR.
561	REC /WORK RM
562	INT.
563	TOIL.
564	LAB
565	WIC LAB
566	EH/WIC FILING
567	WIC STORAGE
568	NURSING/ CLINICAL STOR.
569	LACTATION
570	EXAM
571	EXAM

1ST FLOOR ROOM SCHEDULE

572	EXAM
573	INTAKE
574	INTAKE
575	STAFF TOIL
576	STAFF TOIL
577	WIC OFFICE
578	WIC OFFICE
579	PHN SUPERV
580	BREAK
594	SUPERV'R A
596	GR. B OFFICE 2
597	SUPERV'R B
598	GR.B OFFICE 3
599	GR. B OFFICE 4
618	GR. A OFFICE 3
619	GR. A OFFICE 4
620	GR. A OFFICE 7
621	GR. A OFFICE 8
622	GR. A OFFICE 5
623	GR. A OFFICE 6
624	WORK B
625	GR. B OFFICE 7
626	GR. B OFFICE 6
627	GR. B OFFICE 5
628	REST
629	REST
650	WAITING
651	INT. A

1ST FLOOR ROOM SCHEDULE

652	INT. B
654	STOR
655	FUEL
656	INT. C
657	OBSRV
658	RECEPTION
660	GR. C OFFICE 1
661	GR. C OFFICE 2
662	STOR
663	WORK C
666	GR. C OFFICE 3
673	STOR.
683	CONFERENCE
684	BREAK
685	STOR
686	GR. C OFFICE 5
687	GR. C OFFICE 6
689	PANTRY
690	OFFICE SUPPLY
691	GR. C OFFICE 7
692	GR. B OFFICE 1
693	GR. A OFFICE 2
694	GR. A OFFICE 1
695	GR. C OFFICE 4
697	SUPERV'R C
699	AV
700	WORK A
701	STOR.
704	ELEC.



NOTES THIS SHEET

1 CHILD SAFETY TYPE

FIRST FLOOR POWER PLAN

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

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

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FIRST FLOOR POWER PLAN

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E-201

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
135	VESTIBULE
190	ADMIN. CONFERENCE
218	DIRECTOR
221	DIR. OF TOUR.
222	MARKETING COORD.
223	CONF.
224	FILES
227	DEP. ADMIN. PCD
262	FILES
263	DEPUTY ADMIN.
264	EXEC. ASSISTANT
265	ADMIN. OFFICE
267	STORAGE
270	EXEC. ASSISTANT 2
271	BREAK ROOM
282	MGR'S OFFICE
389	H.R. TECH.
390	H.R. DIRECTOR
392	RISK MANAGEMENT
393	H.R. MANAGER
420	STAIR B
421	STAIR C
448	ELEV.
451	DATA

2ND FLOOR ROOM SCHEDULE

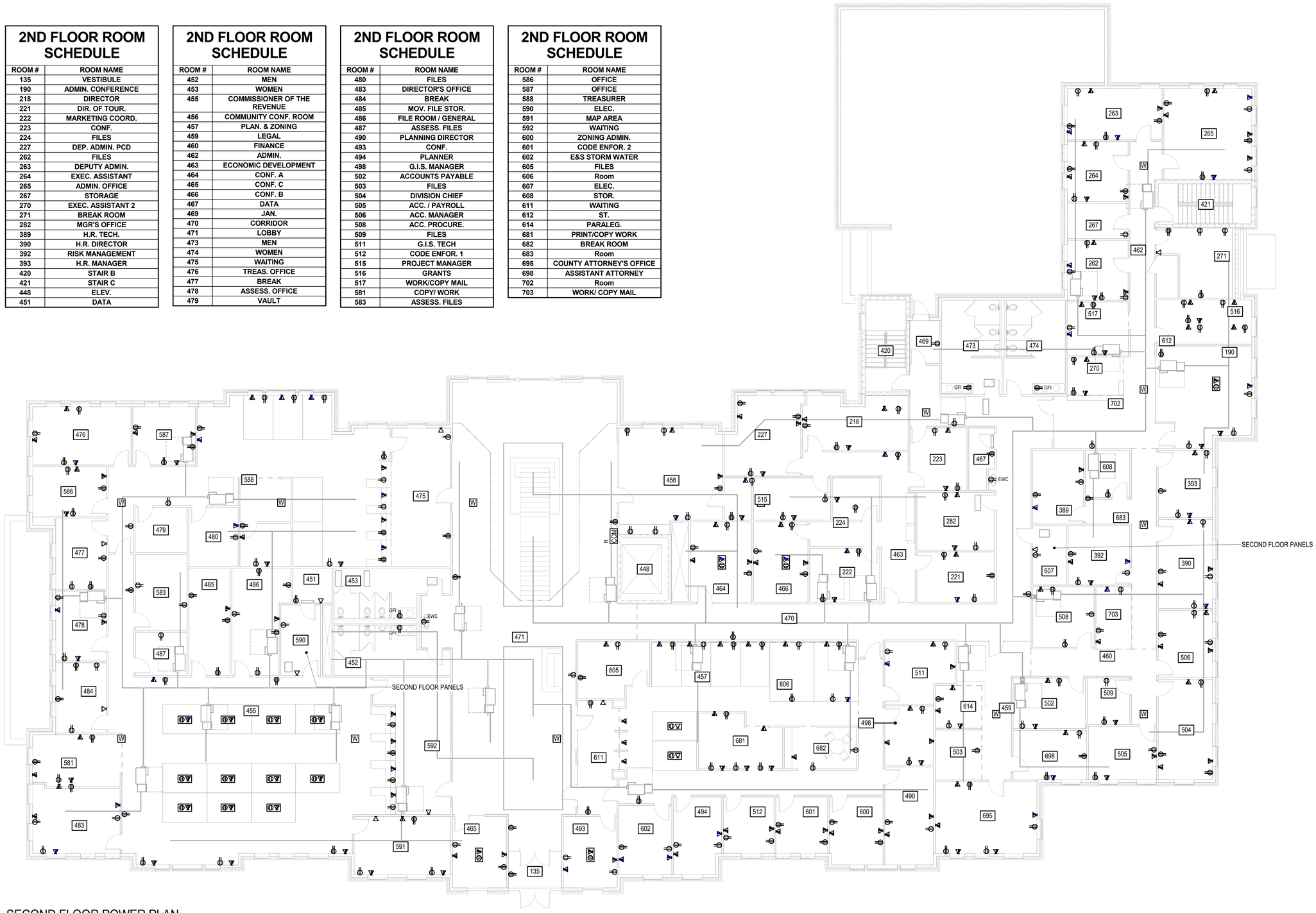
ROOM #	ROOM NAME
452	MEN
453	WOMEN
455	COMMISSIONER OF THE REVENUE
456	COMMUNITY CONF. ROOM
457	PLAN. & ZONING
459	LEGAL
460	FINANCE
462	ADMIN.
463	ECONOMIC DEVELOPMENT
464	CONF. A
465	CONF. C
466	CONF. B
467	DATA
469	JAN.
470	CORRIDOR
471	LOBBY
473	MEN
474	WOMEN
475	WAITING
476	TREAS. OFFICE
477	BREAK
478	ASSESS. OFFICE
479	VAULT

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
480	FILES
483	DIRECTOR'S OFFICE
484	BREAK
485	MOV. FILE STOR.
486	FILE ROOM / GENERAL
487	ASSESS. FILES
490	PLANNING DIRECTOR
493	CONF.
494	PLANNER
498	G.I.S. MANAGER
502	ACCOUNTS PAYABLE
503	FILES
504	DIVISION CHIEF
505	ACC. / PAYROLL
506	ACC. MANAGER
508	ACC. PROCURE.
509	FILES
511	G.I.S. TECH
512	CODE ENFOR. 1
515	PROJECT MANAGER
516	GRANTS
517	WORK/COPY MAIL
581	COPY/ WORK
583	ASSESS. FILES

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
586	OFFICE
587	OFFICE
588	TREASURER
590	ELEC.
591	MAP AREA
592	WAITING
600	ZONING ADMIN.
601	CODE ENFOR. 2
602	E&S STORM WATER
605	FILES
606	Room
607	ELEC.
608	STOR.
611	WAITING
612	ST.
614	PARALEG.
681	PRINT/COPY WORK
682	BREAK ROOM
683	Room
695	COUNTY ATTORNEY'S OFFICE
698	ASSISTANT ATTORNEY
702	Room
703	WORK/ COPY MAIL



SECOND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

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ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

SECOND FLOOR POWER PLAN

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GRAPHIC SCALE:
1/8" = 1'-0" 5' 0' 5' 10' 20'

E-202

NOTES THIS SHEET

1. PROVIDE FULL LIGHTNING PROTECTION SYSTEM. BOND TO ELECTRICAL SERVICE. PROVIDE GROUND LOOP BELOW GRADE AROUND BUILDING.
2. CONNECT ALL HVAC EQUIPMENT. SEE MECHANICAL PRICING DOCUMENTATION.

ROOF POWER PLAN

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

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

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ROOF POWER PLAN

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E-203

1ST FLOOR ROOM SCHEDULE

128	LOBBY
132	VESTIBULE
140	CORRIDOR
284	SOCIAL SERVICES
291	CONFERENCE
292	WORK
294	STOR.
296	BREAK
297	COORD.
298	COUNS.
302	HEALTH DEPT. WAITING
329	WAITING
330	DIRECTOR
342	OFFICE MANAGER
343	FISCAL
344	DIRECTOR
353	CLOSED FILES
399	HEALTH DEPARTMENT
403	BOARD ROOM
404	BOARD CONFERENCE ROOM
405	BREAK
406	STAIR C
407	TRAINING
411	BOARDROOM LOBBY
424	CHILDRENS' SERVICES
429	CORR
431	STAIR B
432	DATA

1ST FLOOR ROOM SCHEDULE

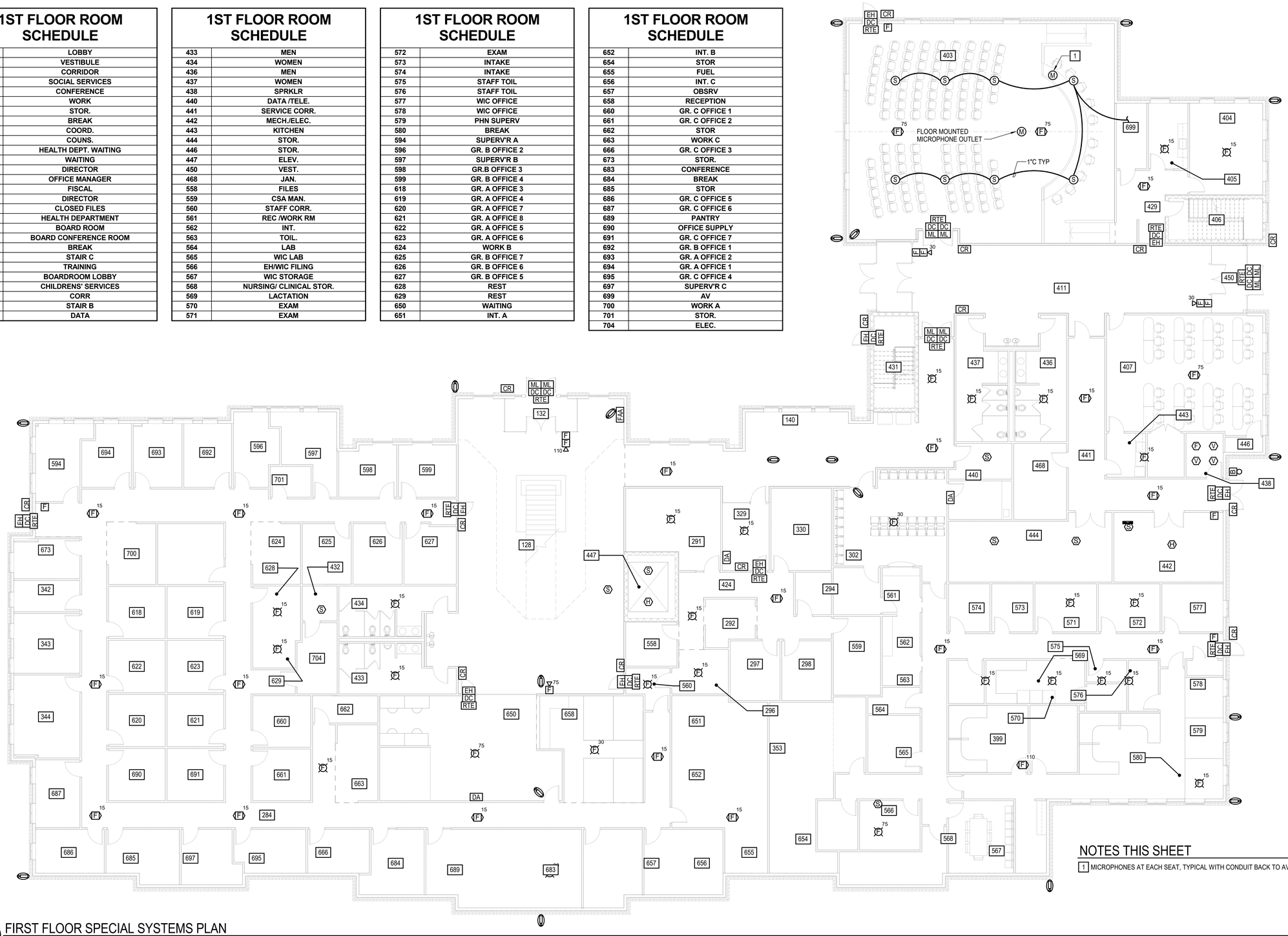
433	MEN
434	WOMEN
436	MEN
437	WOMEN
438	SPRKLR
440	DATA /TELE.
441	SERVICE CORR.
442	MECH./ELEC.
443	KITCHEN
444	STOR.
446	STOR.
447	ELEV.
450	VEST.
468	JAN.
558	FILES
559	CSA MAN.
560	STAFF CORR.
561	REC /WORK RM
562	INT.
563	TOIL.
564	LAB
565	WIC LAB
566	EH/WIC FILING
567	WIC STORAGE
568	NURSING/ CLINICAL STOR.
569	LACTATION
570	EXAM
571	EXAM

1ST FLOOR ROOM SCHEDULE

572	EXAM
573	INTAKE
574	INTAKE
575	STAFF TOIL
576	STAFF TOIL
577	WIC OFFICE
578	WIC OFFICE
579	PHN SUPERV
580	BREAK
594	SUPERV'R A
596	GR. B OFFICE 2
597	SUPERV'R B
598	GR.B OFFICE 3
599	GR. B OFFICE 4
618	GR. A OFFICE 3
619	GR. A OFFICE 4
620	GR. A OFFICE 7
621	GR. A OFFICE 8
622	GR. A OFFICE 5
623	GR. A OFFICE 6
624	WORK B
625	GR. B OFFICE 7
626	GR. B OFFICE 6
627	GR. B OFFICE 5
628	REST
629	REST
650	WAITING
651	INT. A

1ST FLOOR ROOM SCHEDULE

652	INT. B
654	STOR
655	FUEL
656	INT. C
657	OBSRV
658	RECEPTION
660	GR. C OFFICE 1
661	GR. C OFFICE 2
662	STOR
663	WORK C
666	GR. C OFFICE 3
673	STOR.
683	CONFERENCE
684	BREAK
685	STOR
686	GR. C OFFICE 5
687	GR. C OFFICE 6
689	PANTRY
690	OFFICE SUPPLY
691	GR. C OFFICE 7
692	GR. B OFFICE 1
693	GR. A OFFICE 2
694	GR. A OFFICE 1
695	GR. C OFFICE 4
697	SUPERV'R C
699	AV
700	WORK A
701	STOR.
704	ELEC.



NOTES THIS SHEET

1 MICROPHONES AT EACH SEAT, TYPICAL WITH CONDUIT BACK TO AV ROOM.

FIRST FLOOR SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

HBA ARCHITECTURE & INTERIOR DESIGN, INC.
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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

FIRST FLOOR SPECIAL SYSTEMS PLAN

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
COMPREHENSIVE AGREEMENT SET		9/19/2016

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2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
135	VESTIBULE
190	ADMIN. CONFERENCE
218	DIRECTOR
221	DIR. OF TOUR.
222	MARKETING COORD.
223	CONF.
224	FILES
227	DEP. ADMIN. PCD
262	FILES
263	DEPUTY ADMIN.
264	EXEC. ASSISTANT
265	ADMIN. OFFICE
267	STORAGE
270	EXEC. ASSISTANT 2
271	BREAK ROOM
282	MGR'S OFFICE
389	H.R. TECH.
390	H.R. DIRECTOR
392	RISK MANAGEMENT
393	H.R. MANAGER
420	STAIR B
421	STAIR C
448	ELEV.
451	DATA

2ND FLOOR ROOM SCHEDULE

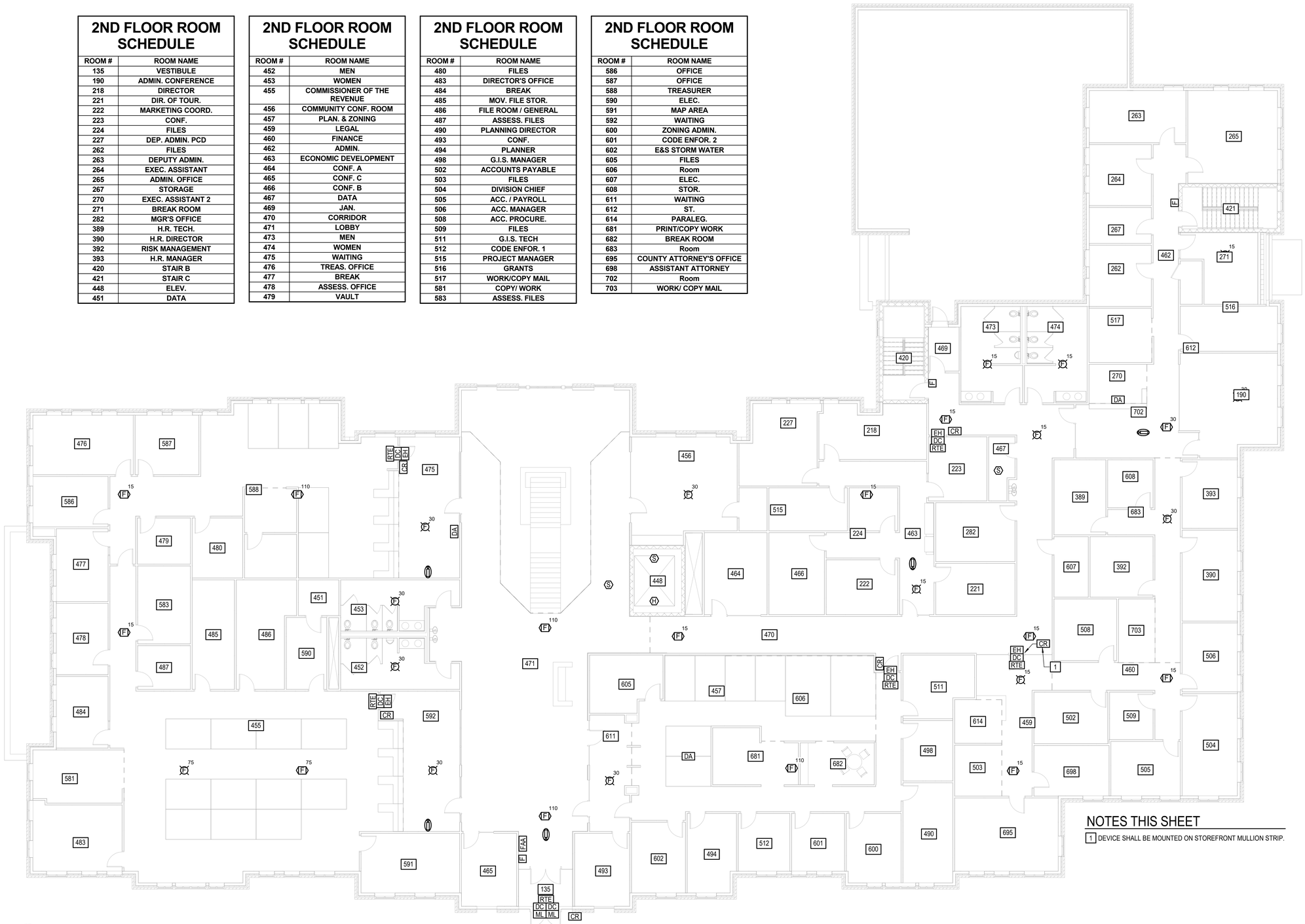
ROOM #	ROOM NAME
452	MEN
453	WOMEN
455	COMMISSIONER OF THE REVENUE
456	COMMUNITY CONF. ROOM
457	PLAN. & ZONING
459	LEGAL
460	FINANCE
462	ADMIN.
463	ECONOMIC DEVELOPMENT
464	CONF. A
465	CONF. C
466	CONF. B
467	DATA
469	JAN.
470	CORRIDOR
471	LOBBY
473	MEN
474	WOMEN
475	WAITING
476	TREAS. OFFICE
477	BREAK
478	ASSESS. OFFICE
479	VAULT

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
480	FILES
483	DIRECTOR'S OFFICE
484	BREAK
485	MOV. FILE STOR.
486	FILE ROOM / GENERAL
487	ASSESS. FILES
490	PLANNING DIRECTOR
493	CONF.
494	PLANNER
498	G.I.S. MANAGER
502	ACCOUNTS PAYABLE
503	FILES
504	DIVISION CHIEF
505	ACC. / PAYROLL
506	ACC. MANAGER
508	ACC. PROCURE.
509	FILES
511	G.I.S. TECH
512	CODE ENFOR. 1
515	PROJECT MANAGER
516	GRANTS
517	WORK/COPY MAIL
581	COPY/ WORK
583	ASSESS. FILES

2ND FLOOR ROOM SCHEDULE

ROOM #	ROOM NAME
586	OFFICE
587	OFFICE
588	TREASURER
590	ELEC.
591	MAP AREA
592	WAITING
600	ZONING ADMIN.
601	CODE ENFOR. 2
602	E&S STORM WATER
605	FILES
606	Room
607	ELEC.
608	STOR.
611	WAITING
612	ST.
614	PARALEG.
681	PRINT/COPY WORK
682	BREAK ROOM
683	Room
695	COUNTY ATTORNEY'S OFFICE
698	ASSISTANT ATTORNEY
702	Room
703	WORK/ COPY MAIL



NOTES THIS SHEET

1 DEVICE SHALL BE MOUNTED ON STOREFRONT MULLION STRIP.

SECOND FLOOR SPECIAL SYSTEMS PLAN

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

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

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DINWIDDIE COUNTY MUNICIPAL FACILITIES

ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

SECOND FLOOR SPECIAL SYSTEMS PLAN

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
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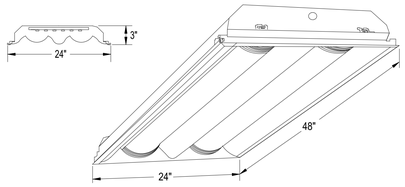


LUMINAIRE REQUIREMENTS:

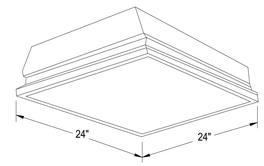
1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, ENDCAPS SECURED WITH TABS, SCREWS OR RIVETS.
2. FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED MATTE WHITE FINISH.
3. LENS - UV-STABILIZED AND IMPACT-RESISTANT FROSTED 100% ACRYLIC.
4. LAMPS - WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.
5. DRIVER SHALL HAVE POWER FACTOR >90% AND THD <20% OF FULL LOAD, WITH

   PROVIDE DIGITAL DRIVER COMPATABLE WITH THE LIGHTING CONTROL SYSTEM OR INTERFACE MODULE TO ENSURE FIXTURE IS FULLY COMPATABLE WITH THE LIGHTING CONTROL SYSTEM.
6. CERTIFICATION - UL LISTED AND LABELED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.
7. PROVIDE FIXTURES WITH 0-10V DIMMING.
8. LED COLOR TEMPERATURE SHALL BE 4000K.
9. FIXTURE SHALL BE CAPABLE OF PRODUCING 4900 NOMINAL LUMENS.

DETAIL BASED ON PHILLIPS DAY-BRITE "0837-AR" SERIES

TYPE		LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
A	-	4000K LED	55	120/277	RECESSED, CEILING

RECESSED 2' X 4' LED TROFFER



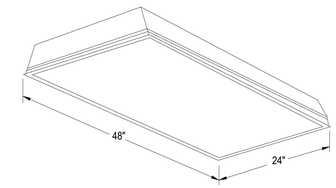
LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE CODE GAUGE STEEL, CHEMICALLY TREATED FOR RUST PREVENTION AND PAINT ADHESION. ENDS SHALL BE SECURED WITH SCREWS OR WELDED AND PAINTED WITH MINIMUM 85% REFLECTANCE WHITE ENAMEL.
2. LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION
3. MAXIMUM DEPTH OF HOUSING SHALL BE 6".
4. LENS DOOR SHALL BE EXTRUDED ALUMINUM, ASSEMBLED WITH SCREWS FOR LENS REPLACEMENT. LENS SHALL BE 0.156", PATTERN 19, PRISMATIC 100% ACRYLIC.
5. PROVIDE WITH HIGH EFFICIENCY DRIVER.
6. FIXTURE SHALL BE UL LISTED, SUITABLE FOR DAMP LOCATIONS.

DETAIL BASED ON LITHONIA LIGHTING, "TL" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
B	3,892	4000K LED	35	120/277	RECESSED, CEILING

LED RECESSED 2' X 2' LENSED TROFFER



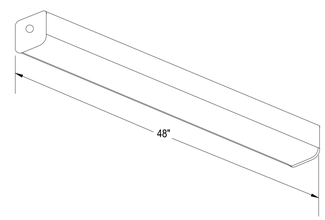
LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE CODE GAUGE STEEL, CHEMICALLY TREATED FOR RUST PREVENTION AND PAINT ADHESION. ENDS SHALL BE SECURED WITH SCREWS OR WELDED.
2. HOUSING SHALL BE PAINTED WITH MINIMUM 85% REFLECTANCE WHITE ENAMEL.
3. LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.
4. PROVIDE MOUNTING TRIM AND HARDWARE COMPATIBLE WITH CEILING MATERIAL.
5. MAXIMUM DEPTH OF HOUSING SHALL BE 3.25".
6. LENS DOOR SHALL BE EXTRUDED ALUMINUM, ASSEMBLED WITH SCREWS FOR LENS REPLACEMENT. LENS SHALL BE 0.156", PATTERN 12, PRISMATIC 100% ACRYLIC.
7. HIGH PERFORMANCE LED DRIVER FULLY ACCESSIBLE FROM BELOW WITHOUT TOOLS. LED BOARDS ARE FULLY REPLACEABLE, IF REQUIRED, VIA PLUG-IN CONNECTORS.
8. FIXTURE SHALL BE UL LISTED, SUITABLE FOR DAMP LOCATIONS.

DETAIL BASED ON LITHONIA LIGHTING, "2GTL 4 72L" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
C	7,200	4000K LED	71	120/277	RECESSED, CEILING

RECESSED 2' X 4' LENSED LED FIXTURE



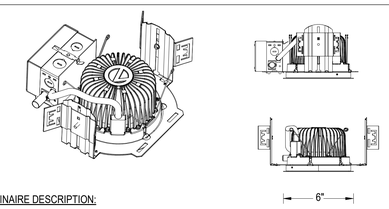
LUMINAIRE DESCRIPTION:

1. HOUSING: HEAVY DUTY EXTRUDED ALUMINUN HOUSING, FLAT END CAPS.
2. 2 LAMPS: FORTYEIGHT WHITE LEDS EACH LAMP, VERTICAL BASE-UP POSITION, 4000°K, EACH WITH CLEAR INTEGRAL LENS.
3. LENS: ACRYLIC LENS WITH FROSTED INTERIOR.
4. HIGH-EFFICIENCY, INTEGRAL ELECTRONIC LED DRIVER.
5. UL LISTED AND DAMP LOCATION LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON ALBEO LIGHTING, "ALV1" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
D	--	4000K LED	80	120/277	SURFACE MOUNT, CEILING

SURFACE MOUNT LED 4' WRAP



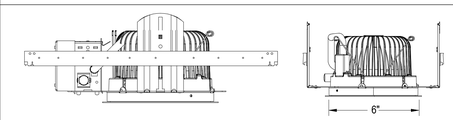
LUMINAIRE DESCRIPTION:

1. RECESSED DOWNLIGHT THAT PROVIDES VOLUMETRIC LIGHTING.
2. 16-GAUGE GALVANIZED STEEL MOUNTING/PLASTER FRAME WITH TORSION SPRING TO MOUNT OPEN CONICAL SHAPE REFLECTOR.
3. RUGGED, ONE-PIECE, DIE-CAST HOUSING WITH WHITE INTERIOR DOME REFLECTOR.
4. GALVANIZED STEEL JUNCTION BOX WITH BOTTOM-HINGED ACCESS COVERS AND SPRING LATCHES. TWO COMBINATIONS 1/2"-3/4" AND THREE 1/2" KNOCKOUTS FOR STRAIGHT-THROUGH CONDUIT RUNS. CAPACITY 8 (4 IN, 4 OUT) NO. 12 AWG CONDUCTORS, RATED FOR 90°C.
5. UTILIZES HIGH-BRIGHTNESS LEDS MOUNTED TO A METAL CORE CIRCUIT BOARD, ENSURING COOL-RUNNING OPERATION, 3500K, CRI>80.
6. HIGH-EFFICIENCY, INTEGRAL ELECTRONIC LED DRIVER.
7. UL LISTED AND DAMP LOCATION LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON LITHONIA LIGHTING, "DOM4 600L D0 6" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
E	--	4000K LED	26	120/277 UNIVERSAL	RECESSED, CEILING

RECESSED 4" LED OPEN DOWNLIGHT



LUMINAIRE DESCRIPTION:

1. RECESSED DOWNLIGHT THAT PROVIDES VOLUMETRIC LIGHTING.
2. 16-GAUGE GALVANIZED STEEL MOUNTING PAN AND YOKE ASSEMBLY.
3. REFLECTOR IS DIE-FORMED OF 0.40 LOW IRIDESCENT ALUMINUM AND SELF-FLANGED.
4. GALVANIZED STEEL JUNCTION BOX WITH BOTTOM-HINGED ACCESS COVERS AND SPRING LATCHES. TWO COMBINATIONS 1/2"-3/4" AND THREE 1/2" KNOCKOUTS FOR STRAIGHT-THROUGH CONDUIT RUNS. CAPACITY 8(4 IN, 4 OUT) NO. 12 AWG CONDUCTORS, RATED FOR 90°C.
5. UTILIZES HIGH-BRIGHTNESS LEDS MOUNTED TO A METAL CORE CIRCUIT BOARD, ENSURING COOL-RUNNING OPERATION, 3500K, CRI>80.
6. HIGH-EFFICIENCY, INTEGRAL ELECTRONIC LED DRIVER.
7. PROVIDE WITH ACRYLIC LENS.
8. CERTIFICATION: UL LISTED AND WET LOCATION AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON GOTHAM LIGHTING, "6 EVO" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
F	1000	4000K LED	18W	120	RECESSED, CEILING

RECESSED 6" LED SHOWER FIXTURE

BASIS OF DESIGN:

FIXTURES SHOWN ARE REPRESENTATIVE OF THE DESIGN INTENT AND ARE TO BE USED AS A BASIS OF DESIGN. ACTUAL SELECTIONS AND QUANTITIES ARE TO BE DEVELOPED DURING FINAL DESIGN.

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

LIGHTING DETAILS

NOT FOR CONSTRUCTION

ISSUED FOR: MARK: DATE:
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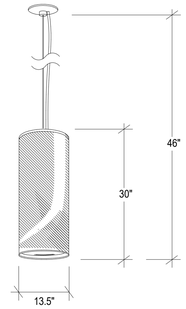


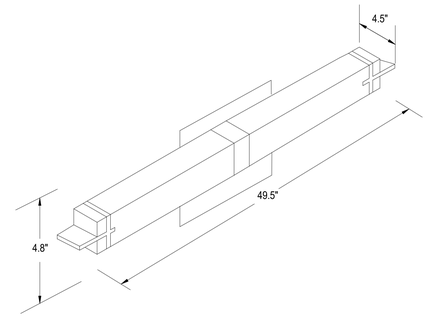
LUMINAIRE DESCRIPTION:

1. CANOPY SHALL BE PAINTED WHITE.
2. MATE WHITE ACRYLIC CYLINDER BODY.
3. HIGH POWER FACTOR CANOPY MOUNTED DRIVER WITH LED BODY LIGHT DIMMING 0V-10V.
4. PROVIDE WITH DOWNLIGHT OPTION.
5. UL LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON SPI LIGHTING, "AIP SAVANNAH" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
G	--	WHITE LED 4000K	102W	120	PENDANT, CEILING

CLASSIC LED PENDANT



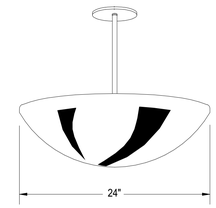
LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE STEEL CONSTRUCTION, SATIN NICKEL FINISH.
2. FIXTURE SHALL HAVE PLATED PRESSURE FORMED FRAME.
3. DIFFUSER SHALL BE MULTI LAYER WHITE GLASS.
4. BALLAST SHALL BE ELECTRONIC, WITH THD < 20%, HIGH POWER FACTOR ($\geq$ .95) CLASS P ELECTRONIC BALLAST WITH A SOUND RATING OF "A". PROVIDE BALLAST WITH "FINGER SAFE" DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73(G).

DETAIL BASED ON TECH LIGHTING, "METRO LONG" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
H	--	4000K LED	58	120/277 UNIVERSAL	APPROVE FINAL HEIGHT WITH OWNER/ARCHITECT

BATHROOM WALL SCONCE



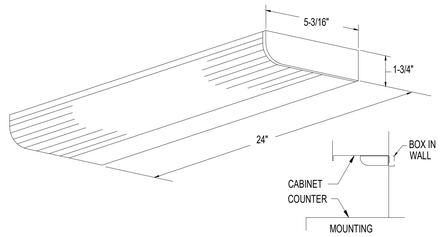
LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE SPUN FROM .063 THICK BASE MATERIAL (ALUMINUM) TRIM RINGS, CHASSIS IS FORMED FROM 18 GUAGE COLD-ROLLED STEEL WITH 3/8 IP (.6888" DIA.) STEM.
2. FORMED ACRYLIC BOWL WITH A MINIMUM WALL THICKNESS OF .118". OPAL FINISH IS STANDARD.
3. HIGH-EFFICIENCY, INTEGRAL ELECTRONIC LED DRIVER.
4. FIXTURE SHALL MOUNT TO 4" OCTAGONAL BOX WITH 45° SWIVEL CANOPY IS STANDARD AND MEETS ALL EARTHQUAKE RELATED CODES.
5. UL LISTED AND DAMP LOCATION LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON SPI LIGHTING, "AIP B152" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
J	--	WHITE LED 4000 K	---	120/277 UNIVERSAL	PENDANT, CEILING

LED PENDANT



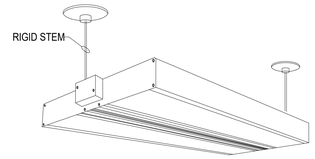
LUMINAIRE REQUIREMENTS

1. HOUSING SHALL BE EXTRUDED MARINE-GRADE ALUMINUM, TGIC POLYESTER COAT FINISH WITH FIVE-STEP PRETREATMENT. ANTIMICROBIAL FINISH STANDARD ON HOUSING AND DRIVER COVER.
2. FIXTURE SHALL BE UTILIZED WITH ELECTRONIC DRIVER.
3. LENS SHALL BE HIGH-IMPACT RESISTANT, EXTRUDED FROST, 100% ACRYLIC.
4. LED'S SHALL HAVE A COLOR TEMPERATURE OF 4000°K AND A COLOR RENDERING INDEX MINIMUM OF 80 CRI.
5. FIXTURE SHALL BE UL LISTED FOR DAMP LOCATIONS.

DETAIL BASED ON KENALL LIGHTING "AUC/MAUC" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
K	-	LED	13W	120	SURFACE MOUNTED, UNDERCABINET

LED UNDERCABINET LIGHTING FIXTURE



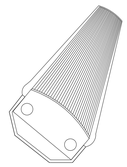
LUMINAIRE DESCRIPTION:

1. HOUSING: DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY. ENDCAPS SECURED WITH TABS, SCREWS OR RIVETS. FIXTURE SHALL NOT PERMANENTLY DEFORM OUT OF "SQUARE" WHEN PICKED UP FROM ANY CORNER. DEPTH AS INDICATED.
2. FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED MATTE WHITE FINISH.
3. LENS: UV-STABILIZED AND IMPACT-RESISTANT FROSTED 100%%% ACRYLIC WITH MINIMUM 0.120" THICKNESS.
4. LAMPS: THREE HUNDRED TWENTY WHITE EMITTING DIODES (LEDS), VERTICAL BASE UP POSITION, 4000°K.
5. DRIVER: HIGH PERFORMANCE LED DRIVER, FULLY ACCESSIBLE FROM BELOW THE CEILING. 120/277V.
6. PROVIDE WITH STEP DIMMING WHERE CONTROLLED BY DUAL-LEVEL SWITCHING.
7. UL LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON FINELITE LIGHTING, "HPR-LED" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
L	--	4000K LED	68	120/277	SURFACE PENDANT, CEILING

2' x 4' VOLUMETRIC LED



LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE HARD ANODIZED EXTRUDED ALUMINUM WITH FINS FOR PROPER HEAT MANAGEMENT.
2. PROVIDE WITH 4000K LED.
3. FIXTURE SHALL HAVE POLYCARBONATE LENS.
4. FIXTURE SHALL BE APPROXIMATELY 48" LONG.
5. PROVIDE WITH 12VDC POWER SUPPLY/ DRIVER SHALL BE PROVIDED FOR COMPLETE INSTALLATION.
6. FIXTURE COLOR SHALL BE ALUMINUM, PLASTIC MOUNTING BRACKET INCLUDED.
7. UL LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON EATON LIGHTING, "H VL" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
M	--	4000K LED	12	277	SURFACE WALL, MOUNT X'-0" AFF. APPROVE FNL HT. WITH OWNER/ARCHITECT

VANDAL RESISTANT LED

BASIS OF DESIGN:

FIXTURES SHOWN ARE REPRESENTATIVE OF THE DESIGN INTENT AND ARE TO BE USED AS A BASIS OF DESIGN. ACTUAL SELECTIONS AND QUANTITIES ARE TO BE DEVELOPED DURING FINAL DESIGN.

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ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

LIGHTING DETAILS

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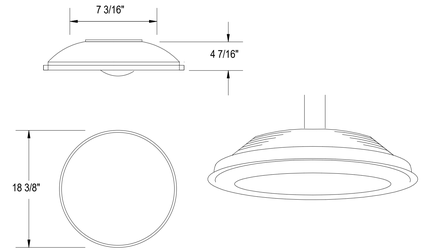


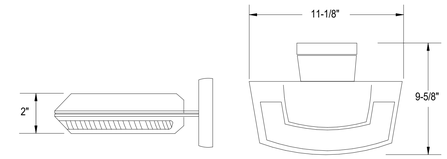
LUMINAIRE DESCRIPTION:

1. HOUSING: DIE CAST ALUMINUM HOUSING.
2. FINISH: POLYESTER POWDER FINISH, IMPACT, CORROSION AND UV RESISTANCE.
3. LENS: GLASS LENS.
4. DRIVER: HIGH PERFORMANCE ELECTRONIC LED DRIVER, FULLY ACCESSIBLE FROM BELOW THE CEILING.
5. PROVIDE 10kv SURGE PROJECTOR.
6. UL LISTED AND WET LOCATION LISTED IP66, TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON COOPER MCGRAW EDISON LIGHTING, "TOP TIER (TT)" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
N	11,201	4000K LED	108	120/277 UNIVERSAL	SURFACE MOUNT/PENDANT

LED FIXTURE



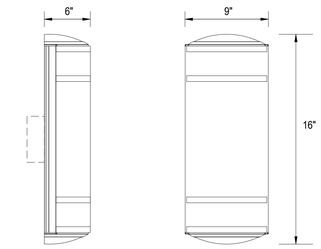
LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE WEATHER RESISTANT ALUMINUM HOUSING WITH BRONZE FINISH.
2. LENS: PROVIDE WITH A CLEAR POLYCARBONATE LENS.
3. ELECTRICAL : LIGHTING OUTPUT PROVIDED BY 8-LED. STANDARD WITH MULTI-VOLT PHOTOCELL WHICH CAN BE DISABLED BY ROTATING THE PHOTOCELL COVER AND 6KV SURGE PROTECTION.
4. DRIVER : HIGH PERFORMANCE M-VOLT ELECTRONIC DRIVER.
5. LABELS : FIXTURE SHALL BE UL LISTED FOR WET LOCATIONS AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON LITHONIA LIGHTING, "OLW" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
S	3970	4000K LED	33	120/277	SURFACE, WALL MOUNT

LED WALL PACK



LUMINAIRE REQUIREMENTS:

1. HOUSING SHALL BE ALL ALUMINUM CONSTRUCTION.
2. DIFFUSER SHALL BE SMOOTH WHITE ACRYLIC, UV STABLE, ACCENT BARS SHALL BE EXTRUDED ALUMINUM.
3. FINISHED: BRUSHED ALUMINUM.
4. INTEGRAL ACRYLIC/STEEL FRAME, SEALED CONSTRUCTION.
5. ELECTRICAL SYSTEM: PROVIDE HIGH POWER FACTOR, ELECTRONIC, LOW HARMONIC, UNIVERSAL VOLTAGE DRIVER.
6. INSTALLATION: MOUNT TO WALL WITH KEY HOLE SLOTS ON TOP AND BOTTOM.
7. LISTING: UL LISTED FOR WET LOCATIONS.

DETAIL BASED ON LIGHTWAY, "DKAW" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
T	1250	4000K LED	111	120/277	SURFACE, WALL.

WALL MOUNT SCONCE

LUMINAIRE REQUIREMENTS

1. ALUMINUM HOUSING WITH HIGH-POLISH, INJECTION-MOLDED VIRGIN ACRYLIC EDGE-LIT PANEL. GRADUATED DEPTH OF MOLDED LETTERS PROVIDES UNIFORM LIGHT DISTRIBUTION ON GRAPHICS.
2. 6 INCH TALL LETTERS.
3. RED ILLUMINATION PROVIDED BY LIGHT EMITTING DIODES (LED).
4. DIRECTIONAL ARROWS AS INDICATED.
5. UNIVERSAL MOUNTING.
6. BRUSHED ALUMINUM AND CLEAR ACRYLIC FINISH.
7. POWER FAILURE PROTECTION, BROWN OUT PROTECTION AND SURGE PROTECTION.
8. SEALED MAINTENANCE FREE NICKEL CADMIUM BATTERY WITH SOLID STATE CHARGER, WITH OVERCHARGE PROTECTION.
9. TEST BUTTON IN BOTTOM OF HOUSING.
10. INDICATOR LIGHTS IN FACE TO INDICATE WHEN UNIT IS ON NORMAL POWER OR ON BATTERY POWER.

DETAIL BASED ON DUAL-LITE, "LE" SERIES

FIXTURE TYPE	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
H	LED	5	277	UNIVERSAL MOUNT, CEILING, WALL

EDGE-LIT EXIT LIGHT

BASIS OF DESIGN:

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LIGHTING DETAILS

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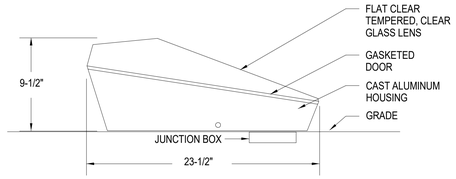
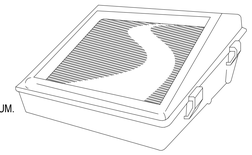




LUMINAIRE REQUIREMENTS

1. HOUSING: DIE CAST ALUMINUM.
2. DR530mA POWER FACTOR >90% AND THD <20%.
3. REFLECTOR: FORMED ANODIZED ALUMINUM.
4. OPTICS: PRECISION-MOLDED ACRYLIC LENSES.
5. FINISH: ELECTROSTATIC POWDER COATING. PROVIDE WITH PHOTOCELL.
6. RATINGS: U.L. LISTED FOR WET LOCATIONS. EPA: 1.2, AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

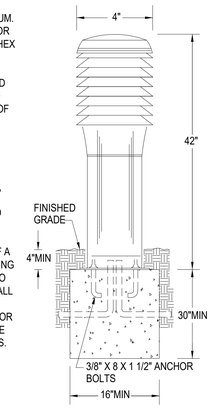
DETAIL BASED ON METROLUX LIGHTING, "SI -17" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
	1	LED	180	277	GROUND SURFCE

FLAG POLE LED FLOOD LIGHT

LUMINAIRE DESCRIPTION:

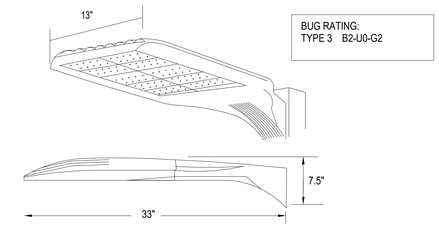
1. BOLLARD SHALL BE CAST AND EXTRUDED ALUMINUM. BOTTOM SECTION HAS A WELDED-IN CAST RING FOR ATTACHMENT TO BASE ASSEMBLY WITH FOUR (4) HEX HEAD SET SCREWS.
2. TOP HOUSING MOUNTS ON 4" DIAMETER EXTRUDED ALUMINUM COLUMN. LUMINAIRE SHALL BE SEALED AND GASKETED PROVIDING A FULL WEATHERPROOF SEAL.
3. FIXTURE SHALL HAVE A CLEAR MOLDED ACRYLIC LENS WITH A WIDE LIGHT DISTRIBUTION.
4. PROVIDE A BALLAST WITH A HIGH POWER FACTOR, INTERALLY MOUNTED WITHIN THE COLUMN WITH DIECAST ALUMINUM HANDHOLE COVER GASKETED AND MOUNTED FLUSH WITH COLUMN.
5. ANCHORAGE: BASE ASSEMBLY SHALL CONSIST OF A CAST ALUMINUM PLATFORM AND BALLAST MOUNTING BRACKET. TWO DOORS SHALL PROVIDE ACCESS TO ANCHORAGE AND WIRING ACCESS. ASSEMBLY SHALL BE SECURED AND LEVELED TO THE CONCRETE FOUNDATION WITH FOUR (4) 3/8" X 8" X 1 1/2" ANCHOR BOLTS ON A 2-3/4" BOLT CIRCLE. BALLAST SHALL BE PREWIRED WITH QUICK ELECTRICAL DISCONNECTS.
6. COORDINATE FINISH WITH ARCHITECT PRIOR TO ORDERING.
7. U.L. LISTED FOR WET LOCATIONS.



DETAIL BASED ON GARDCO LIGHTING, "LD452CL" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
	1	LED	54	277	SURFACE, GROUND

LED BOLLARD



BUG RATING:
TYPE 3 B2-U0-G2

LUMINAIRE REQUIREMENTS

1. HOUSING: SINGLE PIECE DIE CAST ALUMINUM.
2. DR530mA POWER FACTOR >90% AND THD <20%.
3. FIXTURE HAS 60 LEDS; 2 LIGHT ENGINES - 4000K, 70 CRI MOUNTED TO A METAL-CORE CIRCUIT BOARD AND ALUMINUM HEAT SINK.
4. REFLECTOR: FORMED ANODIZED ALUMINUM.
5. OPTICS: PRECISION-MOLDED ACRYLIC LENSES.
6. FINISH: ELECTROSTATIC POWDER COATING. FINISH COLOR BY ARCHITECT.
7. RATINGS: U.L. LISTED FOR WET LOCATIONS. EPA: 1.2, ENCLOSURE CLASSIFIED IP66 PER IEC 529 AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON LITHONIA, "DSX1 60C530 LED" SERIES

TYPE	LUMENS	DISTRIBUTION TYPE	INPUT WATTS	VOLTS	MOUNTING
	10630	TYPE III	99	120/277	POLE MOUNTED, 30' AFG

LED AREA FIXTURE

BASIS OF DESIGN:

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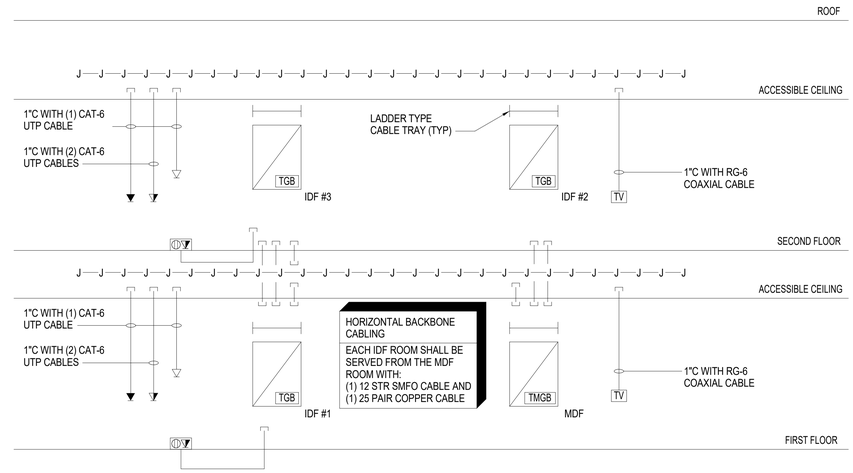
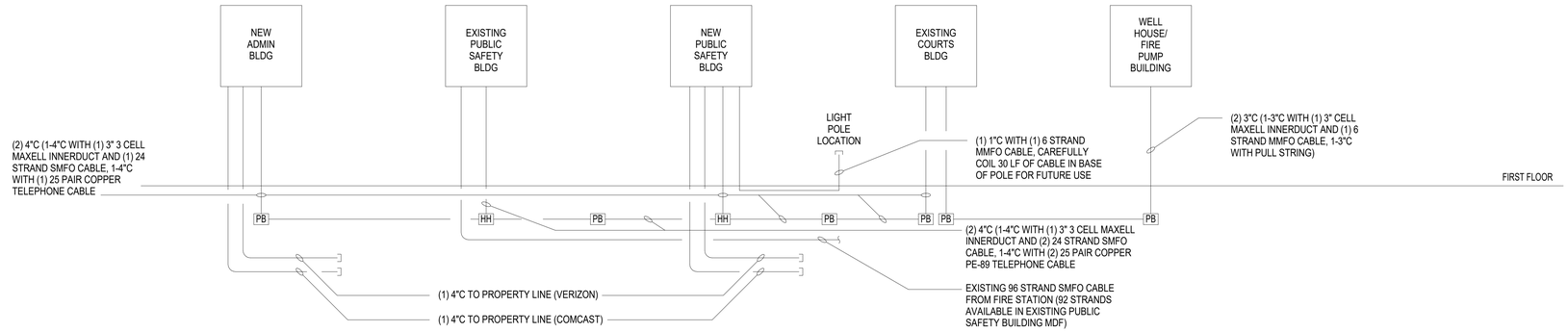


NOTES:

1. MINIMUM CONDUIT SIZE SHALL BE 1".
2. ALL CABLE SHALL BE PLENUM RATED.
3. PROVIDE CONDUIT SLEEVES WHERE CABLES PASS THROUGH WALLS, FLOORS, OR CEILINGS.

TELECOMMUNICATIONS RISER DIAGRAM - ISP

NO SCALE



TELECOMMUNICATIONS RISER DIAGRAM - OSP

NO SCALE

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SPECIAL SYSTEMS RISER DIAGRAMS

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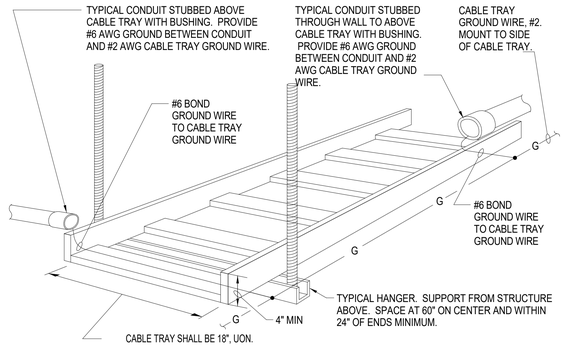
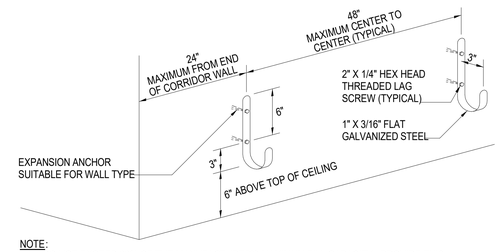


NOTES:
1. CONTRACTOR SHALL PROVIDE PATHWAY FOR ALL LISTED SYSTEMS CABLING. TRAY MUST COMPLY WITH NEC FOR CABLE TRAY FILL REQUIREMENTS. IN NO CASE MAY THE CABLE TRAY BE LESS THAN THE STATED MINIMUM SIZE.
2. MOUNT CABLE TRAY AT A MINIMUM OF 12" BELOW MECHANICAL DUCT WORK BUT AS HIGH AS POSSIBLE TO AVOID TAMPERING.
3. TYPICAL MOUNT OVER RACKS IN TELCOM ROOM.

LADDER CABLE TRAY DETAIL

TELECOMMUNICATIONS ROOMS ONLY

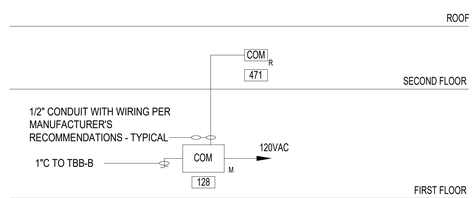
NO SCALE



NOTE:
1. DO NOT EXCEED 80% OF THE MANUFACTURER'S MAXIMUM FILL CAPACITY. PROVIDE THIS INFORMATION WITHIN SUBMITTALS FOR VERIFICATION. PROVIDE ADDITIONAL TIERS AS REQUIRED TO ENSURE ALL CABLES ARE PROPERLY SUPPORTED.

J-HOOK CABLE MANAGEMENT DETAIL (WALL MOUNT)

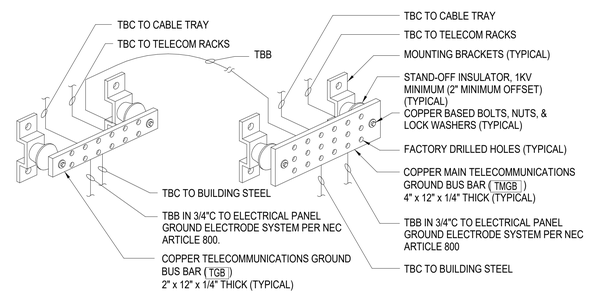
NO SCALE



NOTE:
THE MASTER STATION SHALL BE LOCATED AT A CENTRAL CONTROL POINT ON THE FIRST FLOOR AND HAVE VISUAL INDICATORS TO KNOW WHICH REMOTE STATION NEEDS ASSISTANCE. THE REMOTE STATIONS SHALL BE HANDS FREE, PUSH-BUTTON-ONCE TO TALK TYPE WITH THE WORDS "HELP PHONE, "INTERNATIONAL PHONE SYMBOL, RAISED BRAILLE LETTERING AND BE LOCATED AT EACH ELEVATOR LOBBY. UPON ACTIVATION OF THE EMERGENCY PUSH BUTTON, A CALL WILL BE AUTOMATICALLY PLACED TO THE MASTER STATION. IF NO ONE ANSWERS AT THE MASTER STATION, THE SYSTEM MUST DIAL A SECONDARY LOCATION OUTSIDE THE BUILDING TO ACTIVATE TWO WAY OFF-SITE PERSON TO PERSON VOICE COMMUNICATION. PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM IN ACCORDANCE WITH IBC (2009) SECTION 1007.8 AND THE ADA.

TWO WAY INTERCOM SYSTEM RISER DIAGRAM - ADMINISTRATION BUILDING

NO SCALE



TYPICAL GROUND BUS BAR DETAIL

NO SCALE

CONTRACTOR SHALL SIZE TELECOMMUNICATIONS GROUNDING AND BONDING INFRASTRUCTURE PER ANSI J-STD-607-B	
TBB/TBC LENGTH M (FT)	TBB/TBC SIZE (AWG)
LESS THAN 4 (13)	6
4 - 6 (14 - 20)	4
6 - 8 (21 - 26)	3
8 - 10 (27 - 33)	2
10 - 13 (34 - 41)	1
13 - 16 (42 - 52)	1/0
16 - 20 (53 - 66)	2/0
20 - 26 (67 - 84)	3/0
26 - 32 (85 - 105)	4/0
32 - 38 (106 - 125)	250kcmil
38 - 46 (126 - 150)	300kcmil
46 - 53 (151 - 175)	350kcmil
53 - 76 (176 - 250)	500kcmil
76 - 91 (251 - 300)	600kcmil
GREATER THAN 91 (301)	750kcmil
TBB - TELECOMMUNICATIONS BONDING BACKBONE TBC - TELECOMMUNICATIONS BONDING CONDUCTOR	

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SPECIAL SYSTEMS DETAILS

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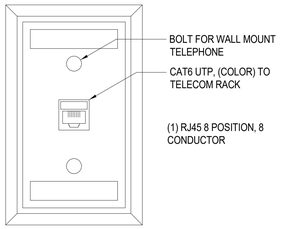
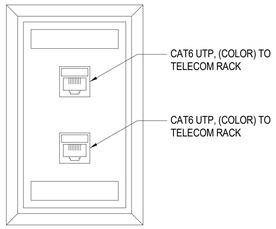


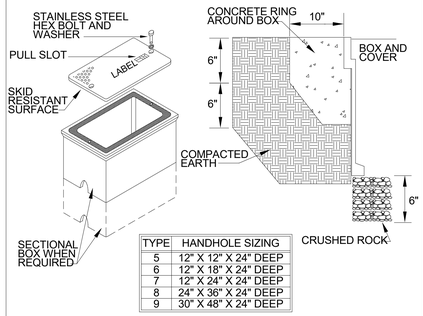
WALL MOUNT TELEPHONE DETAIL

NO SCALE



TELECOM OUTLET

NO SCALE



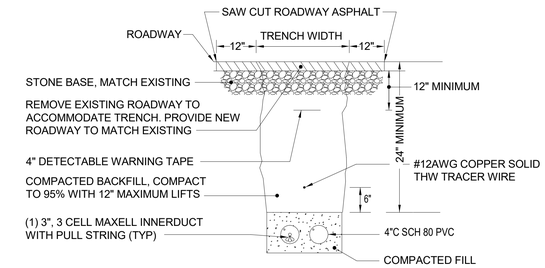
TYPE	HANDHOLE SIZING
5	12" X 12" X 24" DEEP
6	12" X 18" X 24" DEEP
7	12" X 24" X 24" DEEP
8	24" X 36" X 24" DEEP
9	30" X 48" X 24" DEEP

HANDHOLE REQUIREMENTS

1. HOUSING SHALL BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
2. COVER AND BOX SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" x 10" AREA.
3. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
4. PROVIDE WITH (2) 2 1/2" MOUSEHOLES.
5. PROVIDE LABEL "ELECTRICAL" FOR POWER HANDHOLES OR "TELEPHONE" FOR TELEPHONE HANDHOLES, OR AS INDICATED.

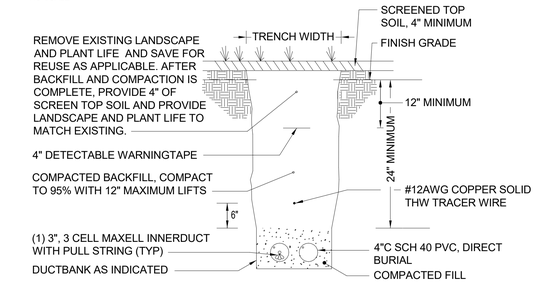
STANDARD ELECTRICAL HANDHOLE (NONTRAFFIC) (COMPOSITE/FIBERGLASS) TYPES 5, 6, 7, 8 & 9

SKETCH DATE	JUNE 2002	STYLE	UG-6



DUCTBANK TRENCH DETAIL (PAVED AREA) - TYPE B

NO SCALE



DUCTBANK TRENCH DETAIL (GRASS AREA) - TYPE A

NO SCALE

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DINWIDDIE COUNTY MUNICIPAL FACILITIES

ADMINISTRATION BUILDING

DINWIDDIE COUNTY, VIRGINIA

SPECIAL SYSTEMS DETAILS

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
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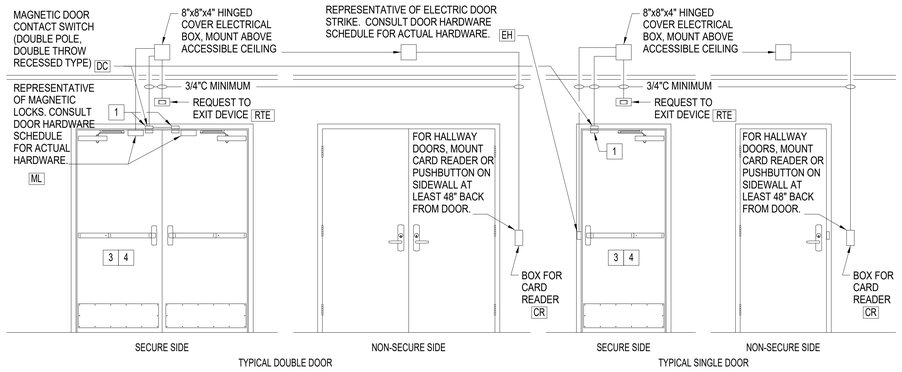
E-603

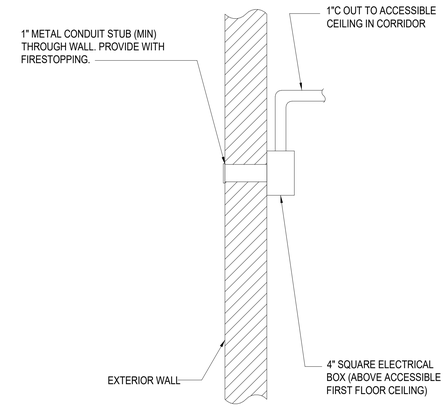


NOTES:

1. DOOR FRAME TO BE PRE-DRILLED FOR DOOR CONTACTS AND DOOR ELECTRIFIED HARDWARE. COORDINATE INSTALLATION WITH DOOR HARDWARE PROVIDER.
2. ELECTRICAL CONTRACTOR TO PROVIDE PATHWAYS AND PULLSTRINGS FOR OWNERS VENDOR ACCESS CONTROL SYSTEM.
3. COORDINATE DOOR HARDWARE WITH ARCHITECTURAL DOOR SCHEDULE.
4. ALL DOOR HARDWARE (LOCKS, HINGES, EXIT DEVICES) TO BE PROVIDED BY DOOR HARDWARE PROVIDER.

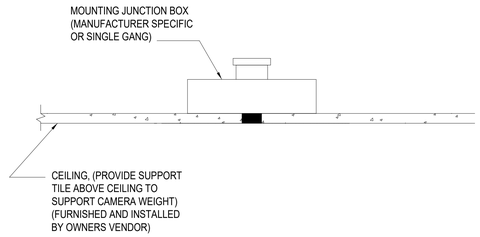
TYPICAL SECURITY DOOR CONFIGURATION

NO SCALE



EXTERIOR WALL MOUNT CAMERA DETAIL

NO SCALE



INTERIOR CEILING MOUNT CAMERA DETAIL

NO SCALE

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ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

SPECIAL SYSTEMS DETAILS

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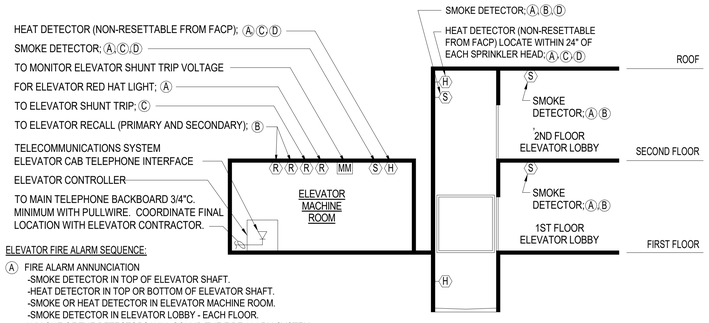


ELEVATOR FIRE ALARM SEQUENCE:

A FIRE ALARM ANNUNCIATION
-SMOKE DETECTOR IN TOP OF ELEVATOR SHAFT.
-HEAT DETECTOR IN TOP OR BOTTOM OF ELEVATOR SHAFT.
-SMOKE OR HEAT DETECTOR IN ELEVATOR MACHINE ROOM.
-SMOKE DETECTOR IN ELEVATOR LOBBY - EACH FLOOR.
ANY ONE OF THE DETECTORS WILL SOUND THE FIRE ALARM SYSTEM.

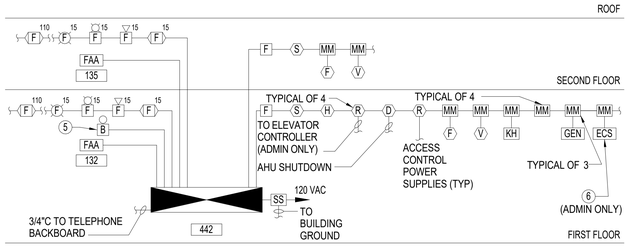
B ELEVATOR RECALL (EMERGENCY MODE)
-SMOKE DETECTOR IN TOP OF ELEVATOR SHAFT.
-SMOKE DETECTOR IN ELEVATOR MACHINE ROOM.
-SMOKE DETECTOR IN ELEVATOR LOBBY - EACH FLOOR.
SMOKE DETECTOR ON FIRST FLOOR IN THE ELEVATOR LOBBY WILL SIGNAL THE ELEVATOR CONTROLLER TO SEND THE ELEVATOR TO THE ALTERNATE FLOOR (SECOND FLOOR) ALL OTHER REMAINING SMOKE DETECTORS WILL SIGNAL THE ELEVATOR CONTROLLER TO SEND THE ELEVATOR TO THE DESIGNATED FLOOR (FIRST FLOOR).

C ELEVATOR SHUNT TRIP
-HEAT DETECTOR IN TOP OF ELEVATOR SHAFT.
-HEAT DETECTOR IN BOTTOM OF ELEVATOR SHAFT.
-HEAT DETECTOR IN ELEVATOR EQUIPMENT ROOM.
ANY ONE OF THE HEAT DETECTORS WILL SHUNT THE POWER TO THE ELEVATOR.

D RED HAT FLASHING
-SMOKE OR HEAT IN ELEVATOR SHAFT
-SMOKE OR HEAT IN ELEVATOR MACHINE ROOM.

ELEVATOR RECALL AND SHUNT TRIP RISER DIAGRAM

NO SCALE



NOTES:

1. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF SYSTEM COMPONENTS. QUANTITIES SHOWN HERE ARE EXAMPLE ONLY. CERTAIN VENDOR DETERMINED ITEMS, SUCH AS MONITOR MODULES AND CONTROL MODULES ARE NOT SHOWN ON THE FLOOR PLANS.
2. PROVIDE WIRING PER MANUFACTURER'S INSTRUCTIONS IN 3/4"C MINIMUM.
3. CONTRACTOR SHALL DETERMINE QUANTITY AND SIZE OF CONDUITS, ENCLOSURE AND JUNCTION BOXES TO COMPLY WITH MANUFACTURER'S RECOMMENDED INSTALLATION REQUIREMENTS.
4. DO NOT LOAD ANY CIRCUIT BEYOND 80% OF RATED CAPACITY. SUBMIT CALCULATIONS TO SUBSTANTIATE. ADD ADDITIONAL CIRCUITS AS NECESSARY. PROVIDE NOTIFICATION EXTENDER PANELS, POWER SUPPLIES, ETC. AS REQUIRED. CONTRACTOR TO PROVIDE 120V FROM CLOSEST UNSWITCHED CIRCUIT, OR AS INDICATED.
5. PROVIDE BELL ON SEPARATE CIRCUIT THAT ALARMS ONLY ON SPRINKLER WATERFLOW ACTIVATION.
6. CONTRACTOR SHALL COORDINATE WITH ELEVATOR CONTRACTOR TO ENSURE THAT ALL REQUIRED FIRE SAFETY INTERFACE RELAY(S), FIRE ALARM VOLTAGE MONITORING RELAY(S) (TO MONITOR SHUNT TRIP VOLTAGE) ARE PROVIDED INTEGRAL WITH THE ELEVATOR CONTROL SWITCH.

FIRE ALARM RISER DIAGRAM TYPICAL 1, 2, 3, 4

NO SCALE

		CONTROL UNIT ANNUNCIATION							NOTIFICATION					FIRE SAFETY CONTROL						SUP		
		ACTUATE COMMON ALARM SIGNAL	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ACTIVATE DISPLAY ON FACP AND ANNUNCIATORS	ACTUATE AUDIBLE EVACUATION SIGNALS	ACTIVATE VISUAL EVACUATION SIGNALS	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	RECALL ELEVATORS TO PRIMARY RECALL FLOOR	RECALL ELEVATORS TO ALTERNATE RECALL FLOOR	SHUNT TRIP MAIN POWER TO ELEVATOR CAR	ACTIVATE ELEVATOR RED HAT FLASHING	ACTIVATE ELEVATOR RED HAT STEADY	SIGNAL ACCESS CONTROL SYSTEM FOR DOOR RELEASE	SHUTDOWN ASSOCIATED KITCHEN GAS AND ELECTRIC SERVICE R	SHUTDOWN ASSOCIATED AHU	
	SYSTEM INPUTS BELOW	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
1	MANUAL FIRE ALARM BOXES	X	X					X	X	X	X								X			1
2	SMOKE DETECTORS - 1ST FLOOR ELEVATOR LOBBY	X	X					X	X	X	X				X			X	X			2
3	SMOKE DETECTORS - 1ST FLOOR OTHER AREAS	X	X					X	X	X	X								X			3
4	SMOKE DETECTORS - 2ND FLOOR ELEVATOR LOBBY	X	X					X	X	X	X			X				X	X			4
5	SMOKE DETECTORS - 2ND FLOOR OTHER AREAS	X	X					X	X	X	X								X			5
6	SMOKE DETECTORS - ALL OTHER ELEVATOR LOBBY'S	X	X					X	X	X	X							X	X			6
7	SMOKE DETECTORS - TOP OF ELEVATOR SHAFT	X	X					X	X	X	X			X			X		X			7
8	SMOKE DETECTORS - ALL OTHER AREAS	X	X					X	X	X	X								X			8
9	SMOKE DETECTORS - ELEVATOR MACHINE ROOM	X	X					X	X	X	X			X			X		X			9
10	DUCT SMOKE DETECTORS FOR AHU'S			X	X			X				X									X	10
11	KITCHEN HOOD MONITOR MODULE	X	X					X	X	X	X								X	X		11
12	HEAT DETECTORS - TOP OF ELEVATOR SHAFT	X	X					X	X	X	X			X			X		X			12
13	HEAT DETECTORS - BOTTOM OF ELEVATOR SHAFT	X	X					X	X	X	X				X		X		X			13
14	HEAT DETECTORS -ALL AREAS OTHER THAN ELEVATOR CONTROL	X	X					X	X	X	X								X			14
15	HEAT DETECTORS - ELEVATOR MACHINE ROOM	X	X					X	X	X	X			X			X		X			15
16	MONITOR MODULE - MONITOR ELEVATOR SHUNT TRIP CIRCUIT VOLTAGE					X	X	X					X									16
17	WATERFLOWS - ALL FLOORS	X	X					X	X	X	X								X			17
18	WATERFLOW (DEDICATED) - ELEVATOR MAIN POWER SHUNT TRIP																					18
19	SPRINKLER CONTROL VALVES TAMPER SWITCH - ALL FLOORS			X	X			X				X										19
20	FIRE PUMP RUNNING			X	X			X	X	X	X								X			20
21	FIRE PUMP POWER FAILURE/PHASE REVERSAL					X	X	X					X									21
22	FIRE PUMP POWER PHASE LOST					X	X	X					X									22
23	FIRE PUMP ALTERNATE POWER SOURCE					X	X	X					X									23
24	GENERATOR RUNNING			X	X			X				X										24
25	GENERATOR FAULT			X	X			X				X										25
26	GENERATOR SWITCH IN NONAUTOMATIC POSITION			X	X			X				X										26
27	FIRE ALARM AC POWER FAILURE					X	X	X					X									27
28	FIRE ALARM SYSTEM LOW BATTERY					X	X	X					X									28
29	OPEN CIRCUIT					X	X	X					X									29
30	GROUND FAULT					X	X	X					X									30
31	NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X	X					X									31
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

NO SCALE

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

SPECIAL SYSTEMS DETAILS

NOT FOR CONSTRUCTION

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MARK:
DATE: 9/19/2016

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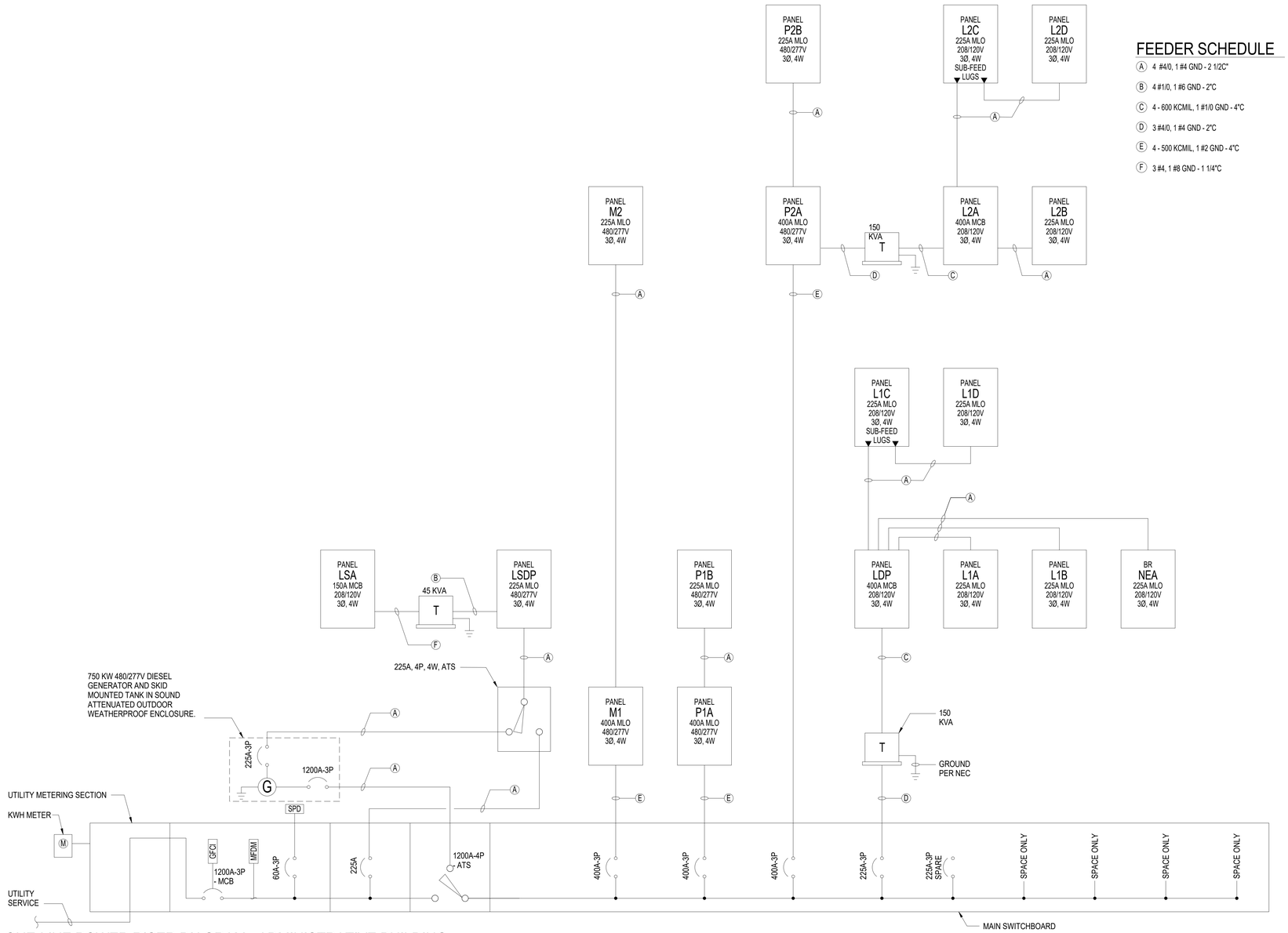

FEEDER SCHEDULE

- (A) 4 #4/0, 1 #4 GND - 2 1/2"C
- (B) 4 #1/0, 1 #6 GND - 2"C
- (C) 4 - 600 KCMIL, 1 #1/0 GND - 4"C
- (D) 3 #4/0, 1 #4 GND - 2"C
- (E) 4 - 500 KCMIL, 1 #2 GND - 4"C
- (F) 3 #4, 1 #8 GND - 1 1/4"C

ONE-LINE POWER RISER DIAGRAM - ADMINISTRATIVE BUILDING

NO SCALE

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
ADMINISTRATION BUILDING
DINWIDDIE COUNTY, VIRGINIA

POWER RISER DIAGRAM

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DINWIDDIE COUNTY MUNICIPAL FACILITIES

PUBLIC SAFETY BUILDING

DINWIDDIE COUNTY, VIRGINIA

COMPREHENSIVE AGREEMENT SET

EXHIBIT B

SHELL ARCHITECT

HBA ARCHITECTURE & INTERIOR DESIGN
ONE COLUMBUS CENTER, SUITE 1000
VIRGINIA BEACH, VIRGINIA 23462
PHONE: (757) 490-9048 FAX: (757) 490-7081

PUBLIC SAFETY ARCHITECT

BRINKLEY SARGENT ARCHITECTS
5000 QUORUM DRIVE, SUITE 600
DALLAS, TX 75254
972-960-9970 (T)
972-960-9751 (F)

CIVIL

MSA PC
5033 ROUSE DRIVE
VIRGINIA BEACH, VIRGINIA 23462
PHONE: (757) 490-9264

STRUCTURAL

SPEIGHT, MARSHALL & FRANCIS, P.C.
2125 MCCOMAS WAY, SUITE 103
VIRGINIA BEACH, VIRGINIA 23456
PHONE: (757) 427-1020 FAX: (757) 427-5919

MEP

PACE COLLABORATIVE PC
1277 PERIMETER PKWY
VIRGINIA BEACH, VIRGINIA 23454
PHONE: (757) 499-7223 FAX: (757) 301-6060

CONTRACTOR

ARMADA HOFFLER CONSTRUCTION CO.
249 CENTRAL PARK AVENUE, SUITE 300
VIRGINIA BEACH, VIRGINIA 23462
PHONE: (757) 366-4000 FAX: (757) 523-0782

LIST OF DRAWINGS

SHEET NO.	DRAWING TITLE	COMPREHENSIVE AGREEMENT SET
*CVR		
CVR	COVER SHEET	●
STRUCTURAL		
S001	STRUCTURAL NOTES	●
S002	STRUCTURAL NOTES AND ABBREVIATIONS	●
S101	FOUNDATION PLAN	●
S111	ROOF FRAMING PLAN	●
S501	TYPICAL DETAILS	●
S502	TYPICAL DETAILS	●
S503	TYPICAL DETAILS	●
S504	TYPICAL DETAILS	●
S505	TYPICAL DETAILS	●
ARCHITECTURAL		
A021	CODE PLAN	●
A200	ADD ALTERNATE #1	●
A201	SLAB EDGE PLAN	●
A211	LEVEL 1 FLOOR PLAN WALL TYPES AND DIMENSIONS	●
A212	LEVEL 1 FLOOR PLAN EQUIPMENT AND INTERIOR ELEVATIONS	●
A270	ENLARGED FLOOR PLANS	●
A301	REFLECTED CEILING PLAN	●
A401	BUIDING ELEVATIONS	●
A511	WALL SECTIONS	●
A701	PARTITION TYPES	●
A702	DOOR SCHEDULE DOOR TYPES	●
A811	FLOOR FINISH PLAN	●
A821	FINISH DETAILS	●
DD - SHEETS		
DD101	FLOOR PLAN	●
SP101	SECURITY PLAN	●
FIRE PROTECTION		
FP001	GENERAL NOTES, LEGEND, AND ABBREVIATIONS	●
FP101	FIRST FLOOR PLAN	●
PLUMBING		
P001	LEGEND, NOTES, DETAILS AND ABBREVIATIONS	●
P101	FIRST FLOOR PLAN	●
P401	ENLARGED PLANS	●
P402	ENLARGED PLANS	●
MECHANICAL		
M001	LEGEND, NOTES AND ABBREVIATIONS	●
M101	FIRST FLOOR PLAN	●
M501	DETAILS	●
M502	DETAILS	●
M503	DETAILS	●
M601	SCHEDULES	●
ELECTRICAL		
E001	LEGEND, NOTES AND ABBREVIATIONS	●
E002	LEGEND, NOTES AND ABBREVIATIONS	●
E101	FIRST FLOOR LIGHTING PLAN	●
E201	FIRST FLOOR POWER PLAN	●
E202	ROOF POWER PLAN	●
E301	FIRST FLOOR SPECIAL SYSTEMS PLAN	●
E501	LIGHTING DETAILS	●
E502	LIGHTING DETAILS	●
E503	LIGHTING DETAILS	●
E601	RISER DIAGRAM	●
E602	SPECIAL SYSTEMS DETAILS	●
E603	SPECIAL SYSTEMS DETAILS	●
E604	SPECIAL SYSTEMS DETAILS	●
E605	SPECIAL SYSTEMS DETAILS	●
E606	SMOKE CONTROL PANEL DIAGRAM	●
E607	POWER RISER DIAGRAM	●

BRINKLEY SARGENT WIGINTON ARCHITECTS

DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

DINWIDDIE, VA

HISTORY

#	DATE	DESCRIPTION

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TEXAS LIC. #9944
10/26/2016

COVER SHEET

20513
9/19/2016
CVR

COMPREHENSIVE AGREEMENT SET

9/13/2016 3:11:55 PM

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GENERAL NOTES:

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION, AS ADOPTED BY THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, 2012 EDITION.

3. THE WORK UNDER THE FOLLOWING SPECIFICATION SECTIONS IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN SECTION 1704 OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION.
   A. 312000 - EARTHWORK
   B. 033000 - CAST-IN-PLACE CONCRETE
   C. 042000 - UNIT MASONRY
   D. 051200 - STRUCTURAL STEEL
   E. 052100 - STEEL JOISTS
   F. 053100 - STEEL DECK
   G. 054000 - COLD-FORMED METAL FRAMING

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

5. BEFORE PROCEEDING WITH WORK WITHIN THE EXISTING STRUCTURE THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING STRUCTURAL CONDITIONS. THE SHORING AND BRACING SHOWN IS A PARTIAL AND SCHEMATIC REPRESENTATION OF THAT REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SAFEGUARDS NECESSARY TO PROTECT THE EXISTING STRUCTURE FROM DAMAGE.

6. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND OTHER REQUIREMENTS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS.

7. THE PROJECT SPECIFICATIONS ARE NOT SUPERSEDED BY THE STRUCTURAL NOTES BUT ARE INTENDED TO BE COMPLEMENTARY TO THEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS IN EACH SECTION.

8. SPECIFIC NOTES AND SPECIFIC DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER STRUCTURAL NOTES AND TYPICAL DETAILS.

9. CONSULTANTS' DRAWINGS, INCLUDING STRUCTURAL DRAWINGS, ARE CONSIDERED SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. ANY OMISSIONS OR CONFLICTS, INCLUDING DIMENSIONS, BETWEEN VARIOUS ELEMENTS OF THE CONSULTANTS' DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

10. THE DOCUMENTS DEFINING THE STRUCTURE ARE INSTRUMENTS OF SERVICE PREPARED BY SPEIGHT, MARSHALL AND FRANCIS, P.C. FOR ONE USE ONLY. THE STRUCTURAL DOCUMENTS SHALL NOT BE REPRODUCED, OR COPIED, IN WHOLE OR IN PART BY THE CONTRACTOR OR SUBCONTRACTORS FOR PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.

11. LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:
   A. LIVE LOADS:

SLAB-ON-GRADE	100 PSF
OFFICES	50 PSF
(PLUS 15 PSF PARTITION ALLOWANCE)	
LOBBIES	100 PSF
STAIRWAYS	100 PSF
ROOF	20 PSF
STORAGE	125 PSF

   B. SNOW DESIGN DATA:

GROUND SNOW LOAD	20 PSF
EXPOSURE FACTOR	1.0
SNOW IMPORTANCE FACTOR	1.0
THERMAL FACTOR	1.0
FLAT ROOF SNOW LOAD	14 PSF
RAIN-ON-SNOW SURCHARGE LOAD	5 PSF

   C. WIND DESIGN DATA:

ULTIMATE DESIGN WIND SPEED	120 MPH
NOMINAL DESIGN WIND SPEED	93 MPH
RISK CATEGORY	IV
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	0.18
COMPONENTS AND CLADDING DESIGN PRESSURES	
(ZONE 1 WITH 10 SF TRIBUTARY AREA)	50 PSF
(ZONE 4 WITH 10 SF TRIBUTARY AREA)	40 PSF

   D. SEISMIC DESIGN DATA:

RISK CATEGORY	IV
SEISMIC IMPORTANCE FACTOR	1.5
SS	0.010g
S1	0.06g
SITE CLASS	D
SDS	0.107g
SD1	0.096g
SEISMIC DESIGN CATEGORY	B
DESIGN BASE SHEAR	40 KIPS
SEISMIC RESPONSE COEFFICIENT	1.5
RESPONSE MODIFICATION FACTOR	0.042
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

   BASIC SEISMIC-FORCE-RESISTING SYSTEM IS ORDINARY REINFORCED MASONRY SHEAR WALLS AND ORDINARY STEEL CONCENTRICALLY BRACED FRAMES

12. MECHANICAL UNIT WEIGHTS AND LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS AND WEIGHTS SHOWN AND REPORT DISCREPANCIES TO THE ARCHITECT.

FOUNDATION NOTES:

1. FOUNDATIONS FOR THIS STRUCTURE HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE PRELIMINARY GEOTECHNICAL EXPLORATION REPORT, PREPARED BY ATLANTIC GEOTECHNICAL SERVICES, DATED NOVEMBER 18, 2013.

2. FOUNDATIONS HAVE BEEN DESIGNED FOR A BEARING PRESSURE OF 2,500 PSF.

3. PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER TO EXPLORE THE EXTENT OF LOOSE, SOFT OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. THE GEOTECHNICAL ENGINEER WILL PROVIDE DIRECTION FOR CORRECTIVE ACTION WHERE REQUIRED.

4. NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.

5. FROST LINE DEPTH IS 1'-6" BELOW GRADE. BOTTOM OF ALL EXTERIOR FOUNDATIONS SHALL BE A MINIMUM OF 1'-6" BELOW EXTERIOR FINISHED GRADE ELEVATION.

CAST-IN-PLACE CONCRETE NOTES:

1. CAST-IN-PLACE CONCRETE FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-11) AND COMMENTARY (ACI 318R-11)".

2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:

A.	SLAB-ON-GRADE	3,500 PSI
B.	SUPPORTED FLOOR SLABS	4,000 PSI
C.	COLUMNS PEDESTALS AND WALLS	4,000 PSI
D.	CONCRETE NOT OTHERWISE NOTED	3,000 PSI

3. REINFORCING MATERIALS SHALL BE AS FOLLOWS:
   A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.
   B. WELDED WIRE FABRIC - ASTM A1064, WELDED STEEL WIRE FABRIC.

4. ALL REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE ACCURATELY PLACED IN THE POSITIONS SHOWN AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.

5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS INDICATED ON THE DRAWINGS SHALL GOVERN WHEN IN CONFLICT WITH ACI 318-11.

6. UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS:
   A. LAP SPLICE LENGTHS SHALL COMPLY WITH 'CAST-IN-PLACE CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE' ON SHEET S-002
   B. USE TENSION BAR LAP SPLICE LENGTHS
   C. SPLICES MAY BE MADE WITH MECHANICAL SPLICES (AT CONTRACTOR'S OPTION). MECHANICAL SPLICES SHALL BE:
      1. CAPABLE OF RESISTING 125% OF THE TENSION CAPACITY OF THE SPLICED BAR
      2. POSITIVE-CONNECTING TYPE COUPLERS
      3. SUBMITTED FOR REVIEW
      4. STAGGERED A MINIMUM OF 24" ALONG THE LONGITUDINAL AXIS OF ADJACENT BARS.

CONCRETE MASONRY NOTES:

1. CONCRETE MASONRY FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530-11 / ASCE 5-11 / TMS 402-11.

2. CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1-11 / ASCE 6-11 / TMS 602-11.

3. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND BE MADE WITH LIGHTWEIGHT AGGREGATE. THE COMPRESSIVE STRENGTH OF MASONRY, F'm, EXPRESSED AS FORCE PER UNIT OF NET CROSS-SECTIONAL AREA, SHALL BE 2,000 PSI AT 28 DAYS.

4. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.

5. GROUT SHALL COMPLY WITH ASTM C476 OR IBC SECTION 2103.13, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI.

6. MORTAR SHALL COMPLY WITH ASTM C270, TYPE S OR M. AGGREGATE FOR MORTAR SHALL COMPLY WITH ASTM C144. AGGREGATE FAILING TO COMPLY WITH ASTM C144 GRADATION REQUIREMENTS MAY BE USED PROVIDED THE MORTAR CAN BE PREPARED TO COMPLY WITH THE AGGREGATE RATIO, WATER RETENTION, AND COMPRESSIVE STRENGTH REQUIREMENTS OF THE PROPERTY SPECIFICATIONS OF ASTM C270. USE TYPE M BELOW GRADE AND TYPE S ABOVE GRADE (UNLESS CELLS ARE GROUTED SOLID).

7. VERTICAL REINFORCING BARS SHALL BE THE GIVEN SIZE AND SPACING SHOWN. LAP REINFORCING AT ALL SPLICES AS FOLLOWS:

#3 - 19"	#6 - 52"	#9 - 119"
#4 - 25"	#7 - 67"	#10 OR LARGER -
#5 - 31"	#8 - 93"	'MECHANICALLY SPLICED'

8. REBAR DOWELS SHALL BE THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM FOUNDATION. DOWELS SHALL HAVE STANDARD ACI HOOKS.

9. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR THE BOND BEAMS AT JOIST BEARING ELEVATIONS. HORIZONTAL BOND BEAMS SHALL HAVE CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. INTERMEDIATE BOND BEAMS SHALL CONFORM WITH THE MAXIMUM SPACING OF HORIZONTAL REINFORCING SHOWN IN SCHEDULE ON SHEET [*].

10. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD 9 GAGE LADDER TYPE IN CMU WALLS AT 16" ON-CENTER. JOINT REINFORCING SHALL COMPLY WITH ASTM A951 AND BE HOT-DIPPED GALVANIZED ACCORDING TO ASTM A153, CLASS B.

11. GROUT ALL CELLS SOLID BELOW FINISHED FIRST FLOOR.

12. VERTICAL REINFORCING SHALL HAVE BAR POSITIONERS AT SPACING NOT TO EXCEED 200 BAR DIAMETERS, AT GROUT LIFT HEIGHTS, OR BAR SPLICE LOCATIONS, WHICHEVER IS LESS.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOURTEENTH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360-10) "STEEL CONSTRUCTION MANUAL" - ALLOWABLE STRESS DESIGN.

2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
   A. STRUCTURAL STEEL W- AND WT-SHAPES - ASTM A992, Fy=50 KSI
   B. RECTANGULAR AND SQUARE HSS - ASTM A500, GRADE B, Fy=46 KSI
   C. ANCHOR RODS - ASTM F1554, GRADE 36 (WELDABLE)
   D. CHECKERED PLATE - ASTM A786, Fy = 36 KSI MINIMUM
   E. HEADED STUDS - ASTM A 108, GRADES 1015 THROUGH 1020, TYPE B, Fu=65 KSI
   F. ALL OTHER STRUCTURAL STEEL SHAPES, PLATES AND BARS - ASTM A36, Fy=36 KSI (UNLESS OTHERWISE NOTED)

3. THE SUPPORTED FLOORS FOR THIS STRUCTURE HAVE BEEN DESIGNED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR UNSHORED CONSTRUCTION.

4. UNLESS OTHERWISE NOTED, ALL BEAM CONNECTIONS SHALL BE ACCORDING TO "TYPICAL BOLTED WEB PLATE CONNECTION DETAILS" ON SHEET S__ USING ASTM A325 BOLTS.

5. BRACED FRAME CONNECTIONS SHALL BE DESIGNED AND DETAILED FOR THE FORCES INDICATED ON THE DRAWINGS. CONNECTIONS SHALL COMPLY WITH THE "STEEL CONSTRUCTION MANUAL", ALLOWABLE STRESS DESIGN. CONNECTIONS MAY BE WELDED OR BOLTED USING SLIP CRITICAL BOLTS. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF VIRGINIA FOR ALL BRACED FRAME CONNECTIONS NOT DETAILED ON THE CONSTRUCTION DOCUMENTS.

6. HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF FULL PRETENSIONING, EXCEPT FOR THE FOLLOWING CONNECTIONS WHICH SHALL BE FULLY PRETENSIONED:
   A. SLIP-CRITICAL CONNECTIONS (SC) IDENTIFIED ON DRAWINGS. PROVIDE CLASS [A] CONTACT SURFACE FOR SLIP-CRITICAL CONNECTIONS.
   B. DIRECT TENSION CONNECTIONS IDENTIFIED AS (DT) ON DRAWINGS.

7. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL". WELD ELECTRODES SHALL BE E70XX. CONTINUOUS 3/16" FILLET WELDS ARE REQUIRED UNLESS OTHERWISE NOTED.

8. SEE THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL STEEL (IF ANY) NOT SHOWN ON THE STRUCTURAL DRAWINGS.

9. UNLESS OTHERWISE NOTED, THE TOP OF ALL STEEL COLUMNS SHALL HAVE A STEEL CAP PLATE. UNLESS OTHERWISE DETAILED OR NOTED, MINIMUM CAP PLATE DIMENSIONS SHALL MATCH COLUMN WIDTH AND DEPTH, AND MINIMUM THICKNESS OF CAP PLATE SHALL EQUAL COLUMN WEB THICKNESS (1/2" MIN).

10. UNLESS OTHERWISE NOTED, ATTACH BLOCKING AND NAILERS TO STEEL FRAMING USING 3/16" DIAMETER POWDER ACTUATED FASTENERS AT 24" ON-CENTER OR 1/2" DIAMETER BOLTS AT 48" ON-CENTER. STAGGER FASTENERS TO ALTERNATE SIDES OF BEAM WEB.

11. STRUCTURAL STEEL NOTED TO BE GALVANIZED SHALL CONFORM TO ASTM A123 OR ASTM A153. GALVANIZE AFTER FABRICATION WHERE PRACTICAL. REPAIR DAMAGED GALVANIZED COATING USING ASTM A780 ZINC-RICH PAINT.

12. APPLY NO PAINT OR PRIMER ON STRUCTURAL STEEL SURFACES RECEIVING SPRAYED FIRE-RESISTIVE MATERIALS. SEE THE ARCHITECTURAL DRAWINGS FOR EXTENTS OF SPRAYED FIRE RESISTIVE MATERIALS.

STEEL JOIST NOTES:

1. STEEL JOISTS SHALL CONFORM TO THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS.

2. PREPARE AND SUBMIT FOR REVIEW SHOP DRAWINGS SHOWING THE LAYOUT OF JOIST MEMBERS, SPECIAL CONNECTIONS, JOINING AND ACCESSORIES. INCLUDE MARK, NUMBER, TYPE, LOCATION AND SPACING OF JOISTS AND BRIDGING.

3. THE JOIST MANUFACTURER SHALL BE RESPONSIBLE FOR CONTINUOUS JOIST BRIDGING LINES SATISFYING THE REQUIREMENTS OF THE SJI SPECIFICATION FOR THE TOP AND BOTTOM CHORDS OF ALL STEEL JOISTS, AS WELL AS ANY ADDITIONAL BRIDGING / BRACING SHOWN ON THE DRAWINGS OR REQUIRED FOR JOISTS SUBJECTED TO NET UPLIFT OR OTHER SPECIAL LOADS. ALL REQUIRED JOIST BRIDGING SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS. CROSS-BRIDGING IS REQUIRED AT CHANGES OF JOIST DEPTHS AND AT ENDS OF ALL BRIDGING LINES UNLESS SUCH ENDS ARE PROPERLY ANCHORED INTO INTERSECTING INTERIOR OR END WALLS. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE PLACING OF ANY CONSTRUCTION LOADS ON THE JOISTS.

4. ROOF JOISTS SHALL BE DESIGNED FOR A NET UPLIFT LOAD INDICATED BELOW. UPLIFT LOAD BASED ON COMPONENT AND CLADDING WIND LOAD WITH 50 SQ. FOOT EFFECTIVE AREA. ROOF ZONE 3 IS 10 FOOT BY 10 FOOT CORNER AREA, ZONE 2 IS A CONTINUOUS 10 FOOT WIDE STRIP ALONG EXTERIOR WALLS (EXCLUDING AREA DEFINED AS ZONE 3) AND ZONE 1 IS ALL OTHER ROOF AREAS.
   A. ZONE 1 25 PSF
   B. ZONE 2 35 PSF
   C. ZONE 3 50 PSF

   ONE-THIRD STRESS INCREASE NOT PERMITTED FOR LOAD COMBINATIONS INVOLVING WIND PER IBC SECTION 1605.3.1.1.

5. STEEL JOISTS DESIGNATED "SP" ON PLANS ARE SPECIAL JOISTS WHICH SHALL BE DESIGNED FOR THE SPECIAL CRITERIA INDICATED. JOIST MANUFACTURER SHALL SUBMIT CALCULATIONS FOR SPECIAL JOISTS.

6. WHERE JOIST SPAN EQUALS 40 FEET OR GREATER JOIST SHALL BE ERECTION BOLTED TO STEEL BEAM UNLESS PANELIZED JOIST ERECTION IS EMPLOYED. GENERAL CONTRACTOR SHALL COORDINATE BOLT HOLE LOCATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS.

7. CONCENTRATED LOADS NOT LOCATED AT JOIST PANEL POINTS SHALL BE REINFORCED PER 'TYPICAL DETAIL AT CONCENTRATED LOADS ON JOISTS'.

8. UNLESS OTHERWISE NOTED ON THE FRAMING PLANS, JOIST SEAT DEPTHS SHALL BE AS FOLLOWS:
   A. 2-1/2" DEEP SEATS AT 'K' SERIES JOISTS
   B. 5" DEEP SEATS AT 'LH' AND 'DLH' SERIES JOISTS

9. APPLY NO PAINT OR PRIMER ON SURFACES OF STEEL JOISTS AND JOIST ACCESSORIES RECEIVING SPRAYED FIRE-RESISTIVE MATERIALS. SEE THE ARCHITECTURAL DRAWINGS FOR EXTENTS OF SPRAYED FIRE-RESISTIVE MATERIALS.

STEEL DECK NOTES:

1. STEEL DECK SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND THE STEEL DECK INSTITUTE (SDI), "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS."

2. STEEL DECK UNITS SHALL COMPLY WITH THE FOLLOWING:
   A. 1-1/2" ROOF DECK SHALL BE 22 GAGE PAINTED GALVANIZED TYPE B RIB DECK SPANNING PERPENDICULAR TO SUPPORTS UNLESS OTHERWISE NOTED. ATTACH DECK TO STRUCTURAL STEEL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS AT EVERY RIB, INCLUDING RIBS WHERE SIDELAPS OCCUR AT EVERY OTHER RIB AND ALL RIBS WHERE SIDELAPS OCCUR. FASTEN ADJACENT DECK UNITS WITH #10 SELF-TAPPING HEX HEAD SCREWS AT 1/3 POINTS BETWEEN SUPPORTS ALONG SIDELAPS AND FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH 5/8" DIAMETER PUDDLE WELDS AT SAME SPACING AS SIDELAP FASTENERS.

3. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL". FIELD WELDS SHALL BE WIRE BRUSHED AND PRIMED PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS.

4. DECK OPENINGS MEASURING GREATER THAN 12" ON ANY SIDE SHALL HAVE SUPPORTS ON ALL SIDES OF OPENING. SUPPORTS SHALL SPAN BETWEEN ADJACENT BEAMS OR JOISTS ON TWO SIDES. UNLESS OTHERWISE NOTED OR DETAILED ON THE DRAWINGS, USE 5x5x5/16" ANGLES FOR SPANS EXCEEDING 6'-0" AND 3x3x1/4" ANGLES FOR SPANS LESS THAN 6'-0". COORDINATE OPENING SIZES, LOCATIONS AND DETAILS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

5. PERMANENT SUSPENDED LOADS SUCH AS SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, OR OTHER UTILITIES, SHALL NOT BE SUPPORTED BY STEEL ROOF DECK.

6. DURING STEEL DECK ERECTION, ROOFING AND CONCRETING OPERATIONS DISTRIBUTE CONSTRUCTION LOADS TO PREVENT DAMAGE TO DECK. CONCENTRATED CONSTRUCTION LOADS OF 200 POUNDS OR LESS DISTRIBUTED OVER A 1'-0" WIDE SECTION OF DECK SHALL NOT REQUIRE ANY FURTHER DISTRIBUTION. USE WORKING PLATFORMS FOR CONCENTRATED CONSTRUCTION LOADS OF OVER 200 POUNDS, SUCH THAT THE RESULTING UNIFORM CONSTRUCTION LOAD ON THE DECK DOES NOT EXCEED 50 PSF.

7. DURING POURING OF CONCRETE OVER FLOOR FORM DECKS TAKE CARE TO AVOID EXCESSIVE CONCRETE HEAPING. POUR CONCRETE OVER BEAMS AND SPREAD TO THE CENTER OF THE DECK.

8. ANY MAN-LIFT (OR OTHER CONSTRUCTION EQUIPMENT) PLACED ON THE CONCRETE ON METAL DECK SHALL HAVE A TOTAL OPERATIONAL WEIGHT (GROSS WEIGHT PLUS PLATFORM CAPACITY) NOT IN EXCESS OF WEIGHT SHOWN BELOW. A BAY OF FRAMING SHALL NOT HAVE MORE THAN ONE PIECE OF CONSTRUCTION EQUIPMENT IN IT AT ANY GIVEN TIME. A BAY OF FRAMING IS DEFINED AS THE AREA CONFINED BY FOUR COLUMNS.
   A. 3,500 POUNDS MAX. TOTAL WEIGHT AT CONCRETE ON METAL DECK REINFORCED WITH REBAR, AND SUPPORTED BY COMPOSITE STRUCTURAL STEEL W-SHAPES.
   B. 2,000 POUNDS MAX. TOTAL WEIGHT AT ALL OTHER AREAS OF CONCRETE ON METAL DECK REINFORCED WITH WELDED WIRE FABRIC (OR SYNTHETIC FIBERS).
   C. EQUIPMENT WEIGHTS EXCEEDING THOSE ABOVE SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. SUBMITTAL SHALL INCLUDE EQUIPMENT WHEEL LOADS, WHEEL DIMENSIONS, AND THE AREAS OF PROJECT WHERE THE EQUIPMENT WILL BE USED.

9. PREPARE AND SUBMIT SHOP DRAWINGS FOR REVIEW SHOWING THE LAYOUT AND TYPES OF DECK UNITS, ANCHORAGE DETAILS AND CONDITIONS REQUIRING CLOSURE STRIPS, SUPPLEMENTARY FRAMING AND OTHER ACCESSORIES.

10. TOUCH-UP ALL SCARRED, ABRADED, AND RUST AREAS IN STEEL DECK IN ACCORDANCE WITH THE SPECIFICATIONS.

COLD-FORMED METAL FRAMING NOTES:

1. COLD-FORMED METAL FRAMING FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "COLD-FORMED STEEL DESIGN MANUAL".

2. COLD-FORMED METAL FRAMING MEMBERS SHALL BE FORMED OF CORROSION-RESISTANT STEEL CONFORMING TO ASTM A653 WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR TRACKS AND RUNNERS AND 33 KSI (50 KSI FOR 54 MILS 16 GAGE AND HEAVIER) FOR ALL OTHER MEMBERS.

3. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL".

4. COLD-FORMED METAL FRAMING MEMBER SIZES AND GAGES INDICATED ARE IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) NOMENCLATURE.

5. COLD-FORMED METAL FRAMING MEMBERS SHALL BE DESIGNED FOR THE LOADS GIVEN IN THE GENERAL NOTES. THE DESIGN LOADS ARE UNFACTORED SERVICE LOADS, ALL APPLICABLE FACTORS SHALL BE APPLIED.

6. MAXIMUM LATERAL DEFLECTION OF COLD-FORMED FRAMING MEMBERS SHALL BE DETERMINED BY THE FOLLOWING TABLE:

STUD USE	L/y RATIO (LIMIT)
BACKING UP MASONRY	L/600 (0.4 IN)
BACKING UP EIFS	L/240 (MANUF. RECOMMENDATION)
BACKING UP METAL PANEL	L/360 (MANUF. RECOMMENDATION)

7. COLD-FORMED METAL FRAMING MEMBERS SHALL BE DESIGNED FOR ALL FRAMING CONDITIONS FOUND IN THE STRUCTURE, INCLUDING WALLS, CORNERS, HEADERS, AND JAMBS. SOME CONDITIONS MAY REQUIRE MODIFICATION OF COLD-FORMED FRAMING MEMBERS (SUCH AS NOTCHING OR REVISING SIZES) OR MULTIPLE STUDS TO SUPPORT INCREASED LOADS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL CONDITIONS AND DETAILS.

8. COLD-FORMED METAL FRAMING CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED FOR ALL FRAMING CONDITIONS. CONNECTIONS ARE SCHEMATICALLY SHOWN ON THE STRUCTURAL DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL CONNECTION CONDITIONS AND LOCATIONS.

POST-INSTALLED ANCHOR NOTES:

1. POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES (OR APPROVED EQUIVALENT - SEE NOTE 2) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   A. ANCHORAGE TO CRACKED AND/OR UNCRACKED CONCRETE:
      1. ADHESIVE ANCHORS:
         HILTI HIT-HY 200, SAFE SET SYSTEM WITH HILTI HIT-Z ROD OR HILTI HOLLOW DRILL BIT SYSTEM WITH HAS-E THREADED ROD AT CONTRACTOR'S OPTION
   B. REBAR DOWELING INTO CRACKED AND/OR UNCRACKED CONCRETE:
      1. ADHESIVE ANCHORS:
         HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH CONTINUOUSLY DEFORMED REBAR
   C. ANCHORAGE TO SOLID GROUTED MASONRY:
      1. ADHESIVE ANCHORS:
         HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM WITH HILTI HAS-E THREADED ROD OR HILTI HIS-N INTERNALLY THREADED INSERT
   D. ANCHORAGE TO HOLLOW MASONRY:
      1. ADHESIVE ANCHORS:
         HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM WITH HILTI HAS-E THREADED ROD OR HILTI HIT-IC INTERNALLY THREADED INSERT
         THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION

2. REQUESTS FOR ANCHOR SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD. CONTRACTOR SHALL SUBMIT TECHNICAL DATA DEMONSTRATING THE PROPOSED ANCHOR SUBSTITUTIONS MEET OR EXCEED THE STRENGTH AND PERFORMANCE VALUES OF THE SPECIFIED ANCHORS.

3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

4. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFI SYSTEM (OR EQUIVALENT).

5. THE CONTRACTOR SHALL ARRANGE A REPRESENTATIVE OF THE ANCHOR MANUFACTURER TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

6. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

7. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY HILTI FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
PUBLIC SAFETY BUILDING
DINWIDDIE COUNTY, VIRGINIA

STRUCTURAL NOTES

ISSUED FOR:	MARK:	DATE:
PRICING PLAN COORDINATION SET		09.01.16
COMPREHENSIVE AGREEMENT SET		09.19.16

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S-001

SPECIAL INSPECTIONS:

1. SPECIAL INSPECTIONS SHALL BE COMPLETED FOR THE FOLLOWING ELEMENTS ACCORDING TO IBC SECTION 1704.

2. EARTHWORK SHALL BE SPECIAL INSPECTED AS FOLLOWS:
   A. PRIOR TO PLACEMENT OF PREPARED FILL, QUALITY ASSURANCE AGENT SHALL DETERMINE THE SITE HAS BEEN PREPARED ACCORDING TO THE GEOTECHNICAL REPORT.
   B. QUALITY ASSURANCE AGENT SHALL DETERMINE FILL MATERIAL AND LIFT THICKNESSES COMPLY WITH GEOTECHNICAL REPORT

3. DEEP FOUNDATION SYSTEMS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION AND TESTING. QUALITY ASSURANCE AGENT SHALL SUBMIT RECORDS OF INSTALLATION FOR EACH DEEP FOUNDATION AND RESULTS OF LOAD TESTS. RECORDS SHALL INCLUDE CUTOFF AND TIP ELEVATIONS.

4. CONCRETE AND ELEMENTS EMBEDDED IN CONCRETE SHALL BE SPECIAL INSPECTED PRIOR TO, AND DURING, PLACEMENT OF CONCRETE. SPECIAL INSPECTIONS SHALL INCLUDE THE FOLLOWING:
   A. PERIODIC INSPECTION:
      1. REINFORCING STEEL SIZE AND PLACEMENT
      2. VERIFY USE OF APPROVED MIX DESIGN
      3. AFTER PLACEMENT TO ENSURE ADEQUATE CURING AND WEATHER PROTECTION PROCEDURES
      4. SURFACE PREPARATION AND DETAILS AT COLD JOINTS, INCLUDING PLACEMENT OF KEYWAYS
      5. INSPECTION OF CONCRETE FORMWORK, SHORING AND RESHORING
      6. VERIFICATION OF IN-PLACE CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES OR FORMS.
   B. CONTINUOUS INSPECTION:
      1. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE
      2. DURING PLACEMENT OF CONCRETE

5. STRUCTURAL MASONRY SHALL BE SPECIAL INSPECTED ACCORDING TO THE FOLLOWING:
   A. PERIODIC INSPECTION:
      1. PROPORTIONS OF SITE-PREPARED MORTAR
      2. CONSTRUCTION OF MORTAR JOINTS
      3. SPECIFIED SIZE, LOCATION, GRADE AND TYPE OF REINFORCEMENT
      4. SIZE AND LOCATION OF STRUCTURAL ELEMENTS
      5. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO PRIMARY STRUCTURAL SYSTEM
      6. CLEANLINESS OF GROUT SPACE
      7. PROTECTION OF MASONRY DURING HOT AND COLD WEATHER PLACEMENT.
   B. CONTINUOUS INSPECTION:
      1. PREPARATION OF ANY GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS
      2. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.

6. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SPECIAL INSPECTED AS FOLLOWS:
   A. PERIODIC INSPECTION:
      1. HIGH-STRENGTH BOLTS, NUTS AND WASHERS ACCORDING TO AISC 360-10.
      2. SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"
      3. FLOOR AND ROOF DECK WELDS
      4. STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS INCLUDING MEMBER LOCATIONS, CONNECTION DETAILS AND ANY OTHER BRACING AND STIFFENING DETAILS
      5. HEADED STUD WELDING, QUANTITY AND LOCATIONS
   B. CONTINUOUS INSPECTION:
      1. SLIP-CRITICAL CONNECTIONS ACCORDING TO AISC 360-10.
      2. FILLET WELDS GREATER THAN 5/16" AND ALL MULTI-PASS WELDS
      3. GROOVE WELDS, INCLUDING PARTIAL AND COMPLETE PENETRATION
      4. WELDING OF PRIMARY MEMBERS OF MOMENT FRAMES AND THEIR CONNECTIONS.

7. COLD-FORMED STEEL FRAMING (ROOF RAFTERS AND EXTERIOR CLADDING STUDS) SHALL BE SPECIAL INSPECTED AS FOLLOWS:
   A. PERIODIC INSPECTION:
      1. SIZE, GRADE AND LAYOUT OF FRAMING MEMBERS
      2. WELDING OPERATIONS
      3. CONNECTION DETAILS SUCH AS SCREWING, BOLTING, ANCHORING, BRACING AND HOLD DOWNS.

8. POST-INSTALLED ANCHORS, INCLUDING BUT NOT LIMITED TO EXPANSION ANCHORS, ADHESIVE ANCHORS, AND LOW VELOCITY FASTENERS SHALL BE SPECIAL INSPECTED ACCORDING TO THE RELEVANT ANCHOR CODE EVALUATION REPORTS.
   A. CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF POST-INSTALLED ANCHORS. SPECIAL INSPECTOR SHALL VERIFY THE FOLLOWING:
      1. ANCHOR SIZE AND STEEL GRADE
      2. HOLE DIAMETER, LOCATION AND TYPE OF DRILL BIT
      3. COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING HOLE AND ANCHOR CLEANLINESS, AND ADHESIVE APPLICATION
      4. ANCHOR EMBEDMENT DEPTH.

9. SEE THE IBC AND OTHER CONSULTANTS' DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRED TO BE SPECIAL INSPECTED.

STRUCTURAL TESTING:

1. THE FOLLOWING MATERIALS SHALL BE TESTED ACCORDING TO IBC SECTION 1705. ANY ITEMS FOUND TO BE DEFICIENT SHALL BE CORRECTED AND RE-TESTED AT NO ADDITIONAL COST TO THE OWNER.

2. EARTHWORK: THE IN-PLACE DRY DENSITY OF COMPACTED FILL SHALL BE TESTED FOR COMPLIANCE WITH THE GEOTECHNICAL REPORT. SEE THE PRELIMINARY GEOTECHNICAL REPORT AND SPECIFICATIONS FOR THE FREQUENCY OF TESTING.

3. CONCRETE STRENGTH VERIFICATION AND TESTING: ALL CONCRETE SHALL BE TESTED TO VERIFY STRENGTH, SLUMP, UNIT WEIGHT, AIR CONTENT AND TEMPERATURE. SEE THE SPECIFICATIONS FOR TESTING CRITERIA, FREQUENCY, AND ACCEPTABILITY CRITERIA.

4. STRUCTURAL MASONRY STRENGTH VERIFICATION AND TESTING: MASONRY STRENGTH, Fm SHALL BE VERIFIED USING THE 'UNIT STRENGTH METHOD' PER IBC CHAPTER 2105 AND AS FOLLOWS:
   A. PRIOR TO CONSTRUCTION THE MASONRY UNITS AND GROUT SHALL BE TESTED FOR COMPRESSIVE STRENGTH.
   B. CERTIFICATES OF COMPLIANCE WITH STRENGTH REQUIREMENTS OF THE MASONRY UNITS AND GROUT SHALL BE SUBMITTED BY THE MASONRY AND GROUT SUPPLIERS.
   C. DURING CONSTRUCTION THE MASONRY UNITS AND GROUT SHALL BE TESTED FOR EVERY 5,000 SQUARE FEET OF MASONRY CONSTRUCTED.
   D. PROPORTIONS OF MATERIALS IN MORTAR AND GROUT DELIVERED TO THE SITE SHALL BE VERIFIED.

5. STRUCTURAL STEEL: WELDED CONNECTIONS SHALL BE TESTED FOR COMPLIANCE WITH THE SPECIFICATIONS, AWS D.1.1 AND THE CONTRACT DOCUMENTS. MINIMUM TESTING SHALL INCLUDE THE FOLLOWING:
   A. ALL COMPLETE PENETRATION GROOVE WELDS SHALL BE TESTED ACCORDING TO METHODS DESCRIBED IN THE SPECIFICATIONS.
   B. A MINIMUM OF 50% OF PARTIAL PENETRATION GROOVE WELDS SHALL BE TESTED ACCORDING TO METHODS DESCRIBED IN THE SPECIFICATIONS.
   C. BASE METALS THICKER THAN 1-1/2" THAT ARE SUBJECT TO THROUGH THICKNESS WELD SHRINKAGE STRAINS SHALL BE ULTRASONICALLY TESTED FOR DISCONTINUITIES. TESTING SHALL BE PERFORMED DIRECTLY BEHIND SUCH WELDS AND THREE INCHES ABOVE AND BELOW THE WELD AFTER JOINT COMPLETION.
   D. ALL DEFICIENT WELDS SHALL BE CORRECTED AND RE-TESTED AT NO ADDITIONAL COST TO THE OWNER.

6. POST-INSTALLED ANCHORS, INCLUDING BUT NOT LIMITED TO EXPANSION ANCHORS, ADHESIVE ANCHORS, AND LOW VELOCITY FASTENERS SHALL BE TESTED ACCORDING TO THE RELEVANT ANCHOR CODE EVALUATION REPORTS.

7. SEE THE IBC AND OTHER CONSULTANTS' DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRED TO BE TESTED.

STRUCTURAL ABBREVIATION LIST:

¾	WITH	K	KIPS
±	PLUS/MINUS	K.S.F.	KIPS PER SQUARE FOOT
Ø	DIAMETER	K.S.I.	KIPS PER SQUARE INCH
	CENTERLINE		
	SQUARE	LG.	LONG
¿	ON CENTER	LLH	LONG LEG HORIZONTAL
		LLO	LONG LEG OUTSTANDING
A.B.	ANCHOR BOLT	LLV	LONG LEG VERTICAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LSH	LONG SIDE HORIZONTAL
		LSV	LONG SIDE VERTICAL
ACI	AMERICAN CONCRETE INSTITUTE		
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M.O.S.	MIDDLE OF SLAB
		M.O.W.	MIDDLE OF WALL
A.R.	ANCHOR ROD	MANUF.	MANUFACTURER or MANUFACTURER'S
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS		
		MAS.	MASONRY
ADJ.	ADJACENT	MATL.	MATERIAL
ARCH.	ARCHITECT or ARCHITECTURAL	MAX.	MAXIMUM
		MECH.	MECHANICAL
B.	BOTTOM	MIN.	MINIMUM
B.E.J.	BUILDING EXPANSION JOINT	MTL.	METAL
B.D.	BAR DIAMETER		
BLDG.	BUILDING	N.T.S.	NOT TO SCALE
BM.	BEAM		
BRCG.	BRACING	OSB	ORIENTED STRAND BOARD
BRDG.	BRIDGING	OPP.	OPPOSITE
BRG.	BEARING		
BTWN.	BETWEEN	P/T	POST-TENSIONED
		PAF	POWDER ACTUATED FASTENER
C.G.	CENTER OF GRAVITY	P.C.	PRECAST
C.I.P.	CAST IN PLACE	P.E.B.	PRE-ENGINEERED BUILDING
C.J.P.	COMPLETE JOINT PENETRATION	PLF	POUNDS PER LINEAR FOOT
CANT.	CANTILEVER	P.S.	PRE-STRESSED
CL.	CLEAR	PSF	POUNDS PER SQUARE FOOT
CMU	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
COL.	COLUMN	P.T.	PRESSURE TREATED
CONC.	CONCRETE	Pc	PIECE
CONN.	CONNECT or CONNECTION	PLUMB.	PLUMBING
CONT.	CONTINUOUS	PROJ.	PROJECTION
COORD.	COORDINATE		
		R.	RADIUS
D.	DEEP or DEPTH	REF.	REFERENCE
DBL.	DOUBLE	REINF.	REINFORCED or REINFORCING
DET.	DETAIL	REQD.	REQUIRED
DIA.	DIAMETER	REV.	REVISION
DIAG.	DIAGONAL		
DWG.	DRAWING	SLO	SHORT LEG OUTSTANDING
DWL.	DOWEL	S.D.I.	STEEL DECK INSTITUTE
		S.E.J.	SEISMIC EXPANSION JOINT
E.F.	EACH FACE	S.J.I.	STEEL JOIST INSTITUTE
E.O.	EDGE OF	S.O.G.	SLAB ON GRADE
E.W.	EACH WAY	S.F.	STEPPED FOOTING
EA.	EACH	SCHED.	SCHEDULE
EL.	ELEVATION	SECT.	SECTION
ELEC.	ELECTRICAL	SHT.	SHEET
ELEV.	ELEVATOR or ELEVATION	SIM.	SIMILAR
EMB.	EMBED or EMBEDMENT	S.I.R.D.A.	SLOPED INTEGRAL ROOF DECK ASSEMBLY
ENG.	ENGINEER		
EQ.	EQUAL	SL.	SLOPE
EQUIV.	EQUIVALENT	SPA.	SPACE
EXIST.	EXISTING	STD.	STANDARD
EXP.	EXPANSION	STIFF.	STIFFENER
		STIR.	STIRRUP
F.L.	FULL LENGTH	STL.	STEEL
F.O.	FACE OF	STRUCT.	STRUCTURAL
F.R.	FIRST RISER		
FIN.	FINISH or FINISHED	T.	TOP
FLR.	FLOOR	T.O.S.	TOP OF STEEL
FTG.	FOOTING	TEMP.	TEMPERATURE
		TYP.	TYPICAL
G.C.	GENERAL CONTRACTOR		
ga	GAGE	U.O.N.	UNLESS OTHERWISE NOTED
GALV.	GALVANIZED		
GD.	GRADE	VERT.	VERTICAL
H.C.	HOLLOW CORE	W.	WIDE or WIDTH
HK.	HOOK	W.P.	WORKING POINT
HORIZ.	HORIZONTAL	W.W.F.	WELDED WIRE FABRIC
J.B.E.	JOIST BEARING ELEVATION		
JT.	JOINT		

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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DINWIDDIE COUNTY, VIRGINIA

STRUCTURAL NOTES AND ABBREVIATIONS

ISSUED FOR:	MARK:	DATE:
PRICING PLAN COORDINATION SET		09.01.16
COMPREHENSIVE AGREEMENT SET		09.19.16

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S-002

FOUNDATION PLAN NOTES :

A. SEE THE CIVIL DRAWINGS FOR ACTUAL FINISHED FLOOR ELEVATION. TOP OF SLAB EQUALS FINISHED FLOOR ELEVATION AND SHALL SERVE AS THE REFERENCE ELEVATION 0'-0".

B. FLOOR SLAB SHALL BE A 4" THICK FIBRILLATED SYNTHETIC FIBER REINFORCED CONCRETE SLAB-ON-GRADE, OVER 15 MIL. VAPOR BARRIER, OVER 4" DEPTH OF POROUS FILL.

C. FIRST FLOOR SLAB SHALL BE A 6" THICK UNREINFORCED CONCRETE SLAB-ON-GRADE, OVER 15 MIL. VAPOR BARRIER, OVER 6" DEPTH OF POROUS FILL.

D. TOP OF ALL FOOTINGS SHALL BE 1'-4" BELOW REFERENCE ELEVATION 0'-0" UNLESS OTHERWISE NOTED.

E. FOR DIMENSIONS NOT SHOWN AND LOCATIONS OF MASONRY CONTROL JOINTS SEE THE ARCHITECTURAL DRAWINGS.

G. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED ON TOTAL WIDTH OF THE FOUNDATION WALL.

H. FOR STRUCTURAL NOTES SEE SHEETS S-001 AND S-002. FOR COLUMN SCHEDULE SEE THIS SHEET.

FOUNDATION PLAN LEGEND :

KCJ = SLAB-ON-GRADE KEYED CONSTRUCTION JOINT - SEE TYPICAL DETAIL ON SHEET S-501

CJ = SLAB-ON-GRADE CONTROL JOINT - SEE TYPICAL DETAIL ON SHEET S-501

= INDICATES SLAB-ON-GRADE JOINT (CONTROL JOINT UNLESS OTHERWISE REQUIRED)

TS = THICKENED SLAB - SEE TYPICAL DETAIL ON SHEET S-501

-XX" = INDICATES TOP OF SLAB ELEVATION - MEASURED FROM REFERENCE ELEVATION 0'-0"

= INDICATES CHANGE IN SLAB ELEVATION - SEE ARCH. DWGS. FOR EXACT SIZE AND LOCATION

= INDICATES EXTENT OF SLAB SLOPE - SEE ARCH. DWGS. FOR EXACT LOCATION

WFX.X = WALL FOOTING MARK - SEE SCHEDULE ON THIS SHEET

CFX.X = COLUMN FOOTING MARK - SEE SCHEDULE ON THIS SHEET

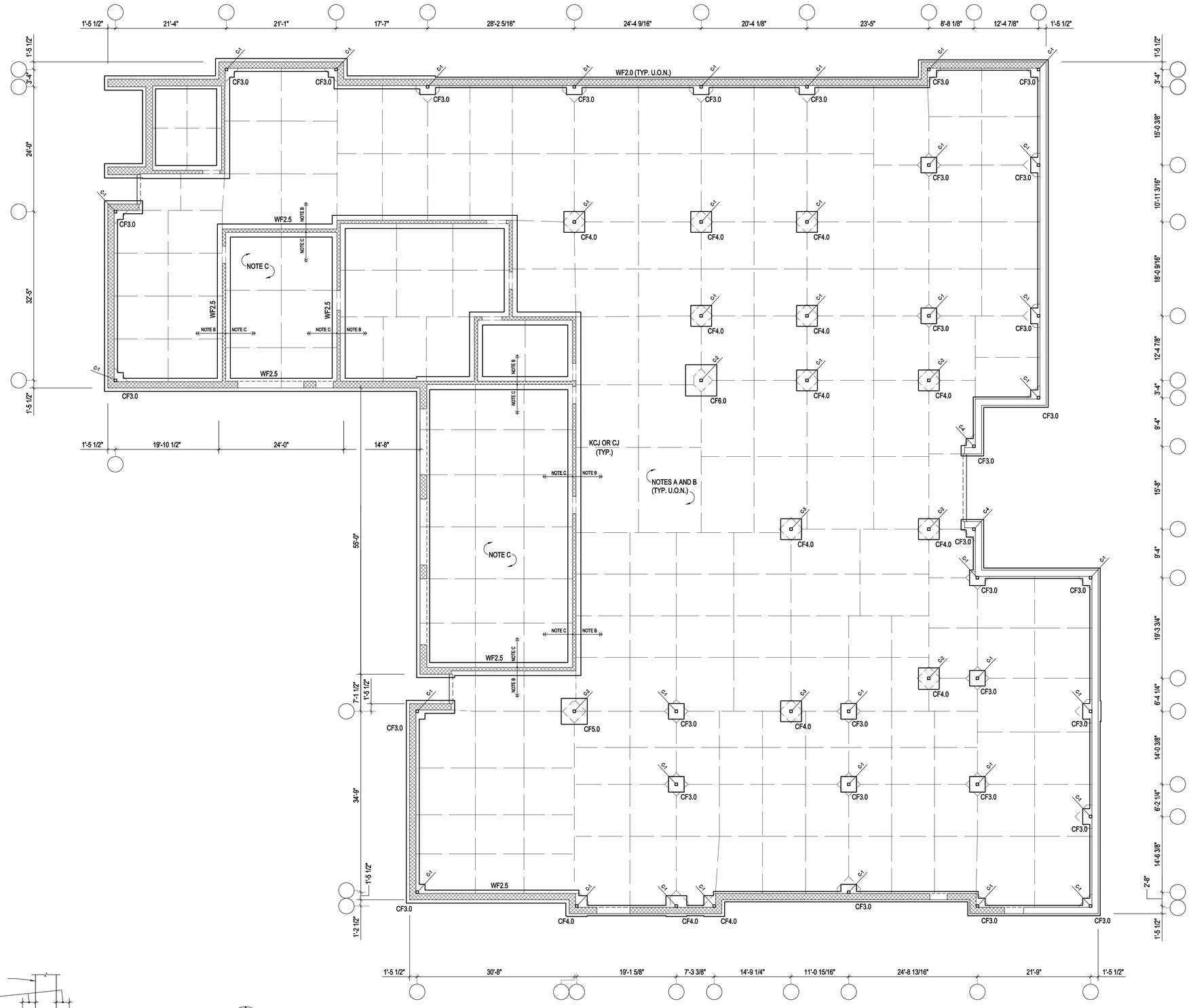
SF = STEPPED FOOTING - SEE TYPICAL DETAIL ON SHEET S-501

(-X'-X") = INDICATES TOP OF FOOTING ELEVATION - MEASURED FROM REFERENCE ELEVATION 0'-0"

(X) = COLUMN GRID MARK

± = APPROXIMATE DIMENSION OR ELEVATION (FIELD VERIFY)

= COLUMN MARK - SEE COLUMN SCHEDULE ON THIS SHEET



PLAN NORTH

FOUNDATION PLAN

1/8" = 1'-0"

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE TYPE	REMARKS
C-1	HSS4x4x1/4	1	—
C-2	HSS5x5x1/4	2	—
C-3	HSS6x6x1/4	3	—
C-4	HSS6x6x3/8	3	—

COLUMN SCHEDULE NOTES:

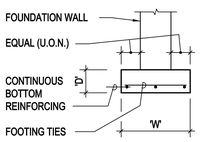
1. SEE SHEET S-502 FOR COLUMN BASE PLATE DETAILS.

COLUMN FOOTING SCHEDULE

MARK	SIZE (SQUARE U.O.N.)	DEPTH	REINFORCING (BOTTOM U.O.N.)
CF3.0	3'-0"	12"	3 - #5 EACH WAY
CF4.0	4'-0"	12"	4 - #5 EACH WAY
CF5.0	5'-0"	12"	5 - #5 EACH WAY

WALL FOOTING SCHEDULE

MARK	WIDTH 'W'	DEPTH 'D'	REINFORCING (BOTTOM U.O.N.)	
			CONTINUOUS	TIES
WF2.0	2'-0"	12"	3 - #4	#4 AT 4'-0"o/c
WF2.5	2'-6"	12"	3 - #4	#4 AT 4'-0"o/c



WALL FOOTING DIAGRAM

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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FOUNDATION PLAN

ISSUED FOR:	MARK:	DATE:
PRICING PLAN COORDINATION SET		09.01.16
COMPREHENSIVE AGREEMENT SET		09.19.16

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S-101

FRAMING PLAN NOTES :

A. SEE FOUNDATION PLAN ON SHEET S-101 AND THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. SEE THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS.

B. FOR JOIST BEARING ELEVATIONS NOT SHOWN ON PLAN INTERPOLATE LINEARLY BETWEEN GIVEN ELEVATIONS.

C. ROOF JOISTS AND OTHER ROOF DECK SUPPORTS SHALL BE SPACED EQUALLY BETWEEN GIVEN LOCATIONS, WITH A MAXIMUM SPACING OF 5'-6" ON CENTER.

D. FOR STRUCTURAL NOTES SEE SHEET S-001 AND S-002. FOR COLUMN SCHEDULE SEE SHEET S-101.

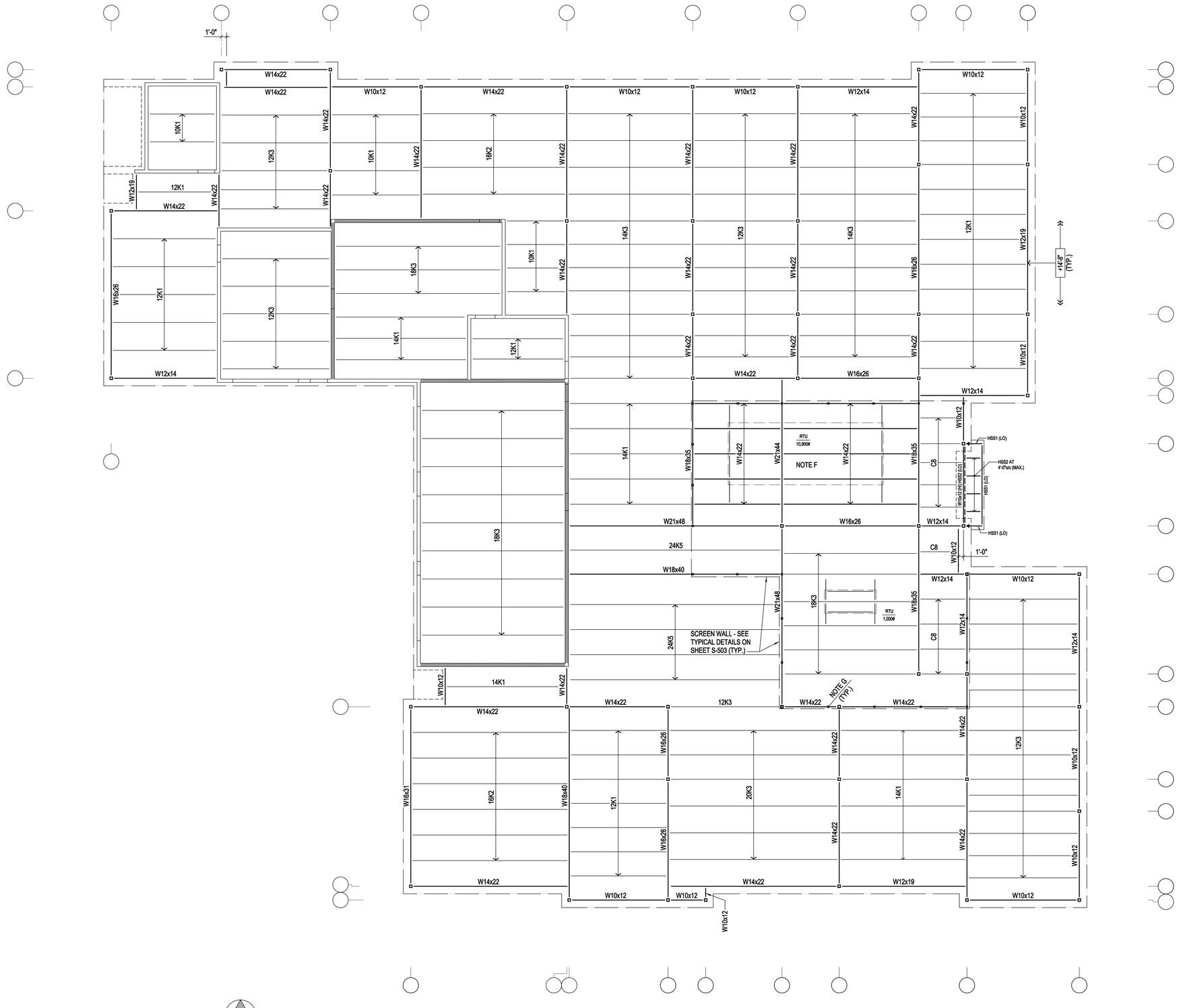
E. 8" CMU SHEARWALL REINFORCED WITH #5 AT 32" ON CENTER. GROUT WALL FULL HEIGHT.

F. PROVIDE 4" TOTAL DEPTH CONCRETE SLAB BELOW RTU.

G. GALVANIZED HSS4x4x1/4 SCREEN WALL POST SPACED AT 10'-0" ON-CENTER.

FRAMING PLAN LEGEND :

+XX'-XX"	=	JOIST BEARING ELEVATION (J.B.E) - MEASURED FROM REFERENCE ELEVATION 0'-0"
(+XX'-XX")	=	TOP OF STEEL (T.O.S.) ELEVATION - MEASURED FROM REFERENCE ELEVATION 0'-0" (HI = HIGH; LO = LOW; SL = SLOPE)
XXX#	=	MECHANICAL UNIT - MAXIMUM OPERATING WEIGHT GIVEN IN POUNDS, COORDINATE WITH MECHANICAL DRAWINGS
X	=	COLUMN GRID MARK
HSS1	=	HSS6x4x1/4 (LSV)
HSS2	=	HSS4x4x1/4
	=	CMU SHEARWALL - SEE NOTE E FOR ADDITIONAL INFORMATION



PLAN NORTH

ROOF FRAMING PLAN

1/8" = 1'-0"

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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ROOF FRAMING PLAN

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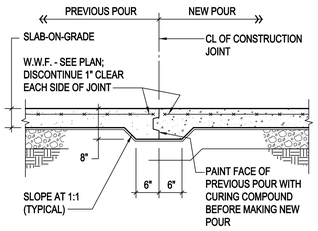
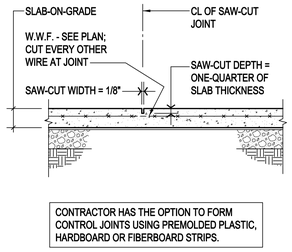
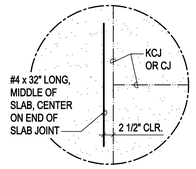
S-111



KEYED CONSTRUCTION JOINT

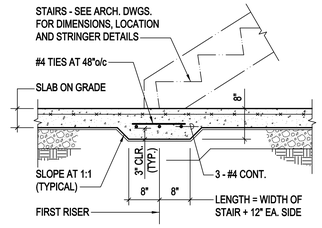


CONTROL JOINT

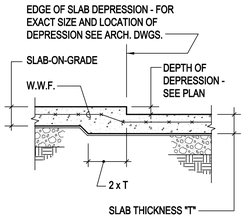


PLAN VIEW

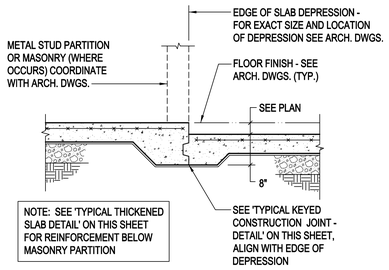
PLAN DETAIL AT DISCONTINUOUS SLAB JOINT



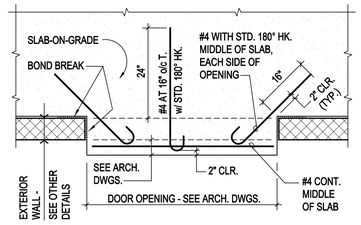
THICKENED SLAB AT STAIR LANDING



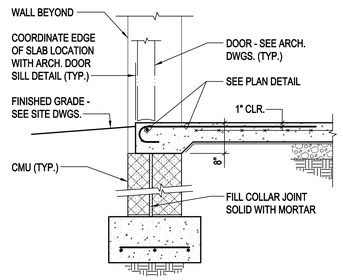
DEPRESSION



DEPRESSION AT KEYED CONSTRUCTION JOINT

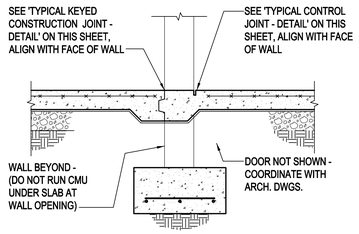


PLAN



SECTION

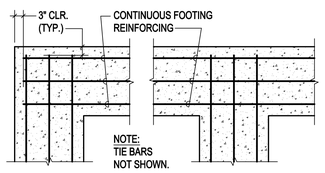
SLAB AT EXTERIOR DOOR



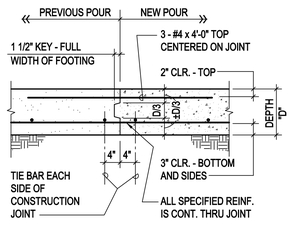
SECTION AT INTERIOR DOOR

TYPICAL SLAB-ON-GRADE DETAILS

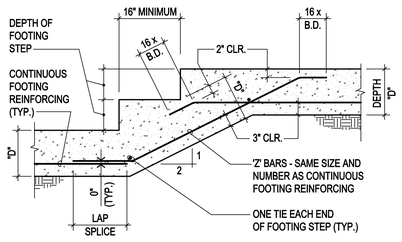
NOT TO SCALE



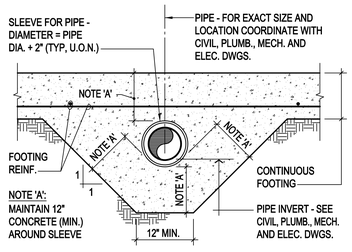
CORNERS AND INTERSECTIONS



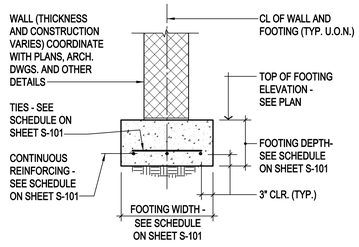
CONSTRUCTION JOINT



STEPPED FOOTING



PIPE SLEEVE THRU CONTINUOUS FOOTING



TYPICAL SECTION

TYPICAL WALL FOOTING DETAILS

NOT TO SCALE

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TYPICAL DETAILS

ISSUED FOR:	MARK:	DATE:
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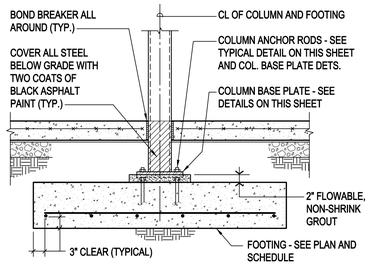
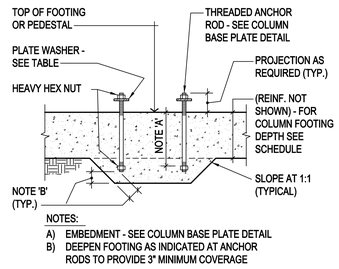
S-501



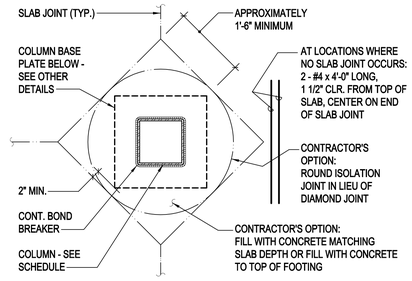
TYPICAL SECTION



NOTES:
A) EMBEDMENT - SEE COLUMN BASE PLATE DETAIL
B) DEEPEN FOOTING AS INDICATED AT ANCHOR RODS TO PROVIDE 3" MINIMUM COVERAGE

ANCHOR ROD

PLATE WASHER TABLE	
ANCHOR ROD DIAMETER	DIMENSIONS
3/4"	1/4" x 2" SQ.
7/8"	5/16" x 2 1/2" SQ.
1"	3/8" x 3" SQ.
1 1/4"	1/2" x 3" SQ.
1 1/2"	1/2" x 3 1/2" SQ.
1 3/4"	5/8" x 4" SQ.
2"	3/4" x 5" SQ.
2 1/2"	7/8" x 5 1/2" SQ.

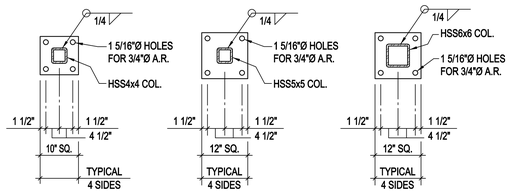


GENERAL CONTRACTOR NOTE :
COLUMN ISOLATION JOINTS ARE OPTIONAL WHEN STRUCTURAL STEEL ERECTION IS COMPLETED PRIOR TO SLAB-ON-GRADE PLACEMENT.

COLUMN ISOLATION JOINT

TYPICAL COLUMN AND FOOTING DETAILS

NOT TO SCALE



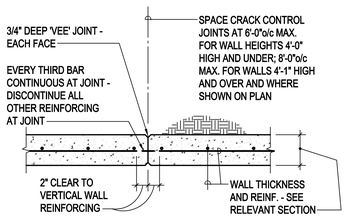
TYPE 1
PL3/4x10x10 WITH 4 - 3/4"Ø ANCHOR RODS (9" EMB.)

TYPE 2
PL3/4x12x12 WITH 4 - 3/4"Ø ANCHOR RODS (9" EMB.)

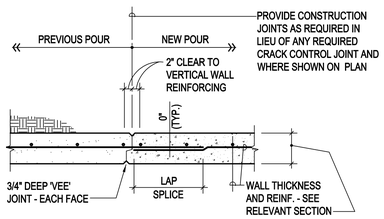
TYPE 3
PL3/4x12x12 WITH 4 - 3/4"Ø ANCHOR RODS (9" EMB.)

COLUMN BASE PLATE DETAILS

NOT TO SCALE

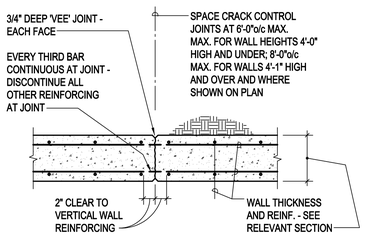


CRACK CONTROL JOINT

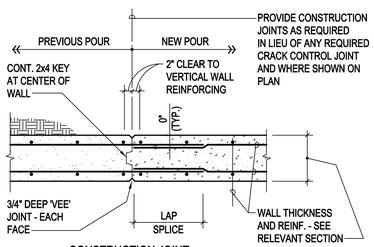


CONSTRUCTION JOINT

SINGLE MAT REINFORCING



CRACK CONTROL JOINT

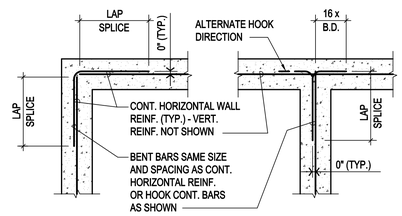


CONSTRUCTION JOINT

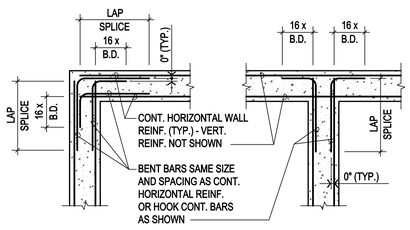
DOUBLE MAT REINFORCING

TYPICAL CONCRETE WALL VERTICAL JOINT DETAILS

NOT TO SCALE



SINGLE MAT REINFORCING

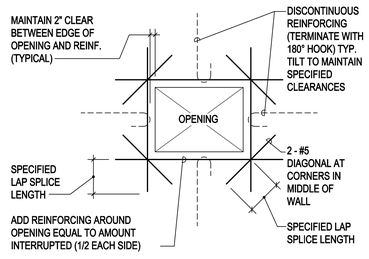


DOUBLE MAT REINFORCING

TYPICAL DETAIL AT CORNERS AND INTERSECTIONS OF CONCRETE WALLS

NOT TO SCALE

CONCRETE WALL OPENING DETAIL NOTE:
ALL OPENINGS REQUIRE ADDITIONAL REINFORCING EXCEPT WHERE OPENING SIZE OR LOCATION IS SUCH THAT REINFORCING STEEL IS NOT INTERRUPTED. CONDUITS, SMALL PIPES AND OTHER SMALL SLEEVES THAT DO NOT REQUIRE PRECISE LOCATION SHALL BE SHIFTED SLIGHTLY TO CLEAR REINFORCING. WHERE SLEEVES ARE LARGER THAN THE SPACING BETWEEN THE BARS AND ARE SUCH THAT THE REINFORCING CANNOT BE SHIFTED TO CLEAR, THEN THIS DETAIL SHALL APPLY.



TYPICAL CONCRETE WALL OPENING DETAIL

NOT TO SCALE

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
PUBLIC SAFETY BUILDING
DINWIDDIE COUNTY, VIRGINIA

TYPICAL DETAILS

ISSUED FOR:

MARK:	DATE:
PRICING PLAN COORDINATION SET	09.01.16
COMPREHENSIVE AGREEMENT SET	09.19.16

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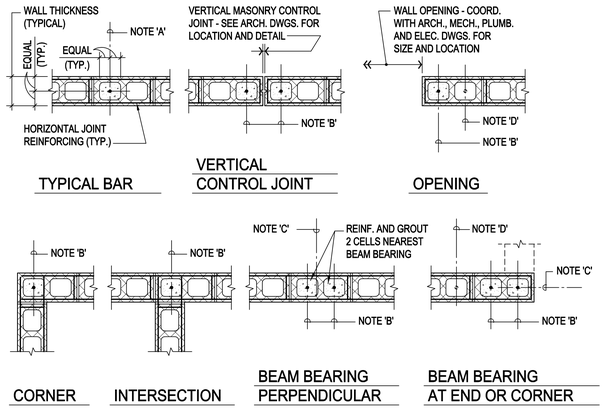


NOTES:

A. VERTICAL WALL REINFORCING BAR AS SPECIFIED. SEE OTHER DETAILS AND SECTIONS FOR SIZE AND SPACING.

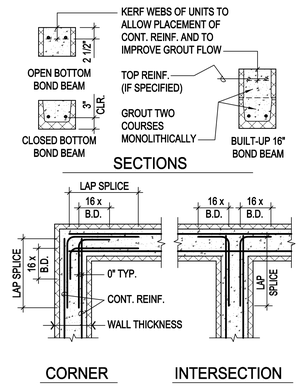
B. VERTICAL WALL REINFORCING BAR AS SPECIFIED (#4 BAR WHERE NOT OTHERWISE SPECIFIED).

C. CENTERLINE OF BEAM/GIRDER ABOVE, SEE FRAMING PLANS FOR EXACT LOCATION.

D. ADDITIONAL VERTICAL WALL REINFORCING BARS MAY BE REQUIRED, SEE PLANS AND OTHER DETAILS.

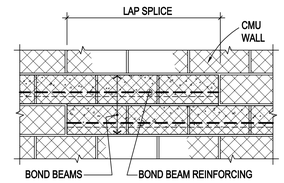
TYPICAL CONCRETE MASONRY VERTICAL WALL REINFORCING DETAILS

NOT TO SCALE



TYPICAL BOND BEAM REINFORCING DETAILS

NOT TO SCALE



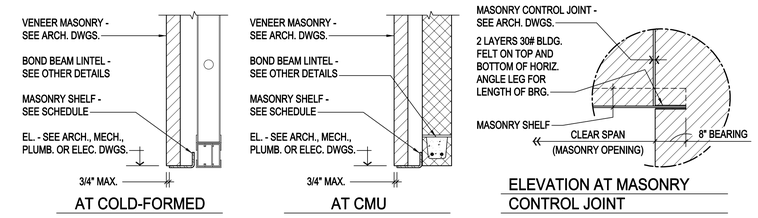
TYPICAL STEPPED BOND BEAM DETAIL

NOT TO SCALE

MASONRY SHELF ANGLE SCHEDULE	
CLEAR SPAN	ANGLE SIZE
0 TO 3'-4"	L 3 1/2 x 3 1/2 x 1/4
3'-5" TO 5'-4"	L 5 x 3 1/2 x 1/4 (LLV)
5'-5" TO 6'-8"	L 6 x 4 x 5/16 (LLV)
6'-9" TO 8'-0"	L 6 x 4 x 3/8 (LLV)
8'-1" TO 10'-0"	L 7 x 4 x 3/8 (LLV)
10'-1" TO 13'-0"	L 8 x 4 x 3/8 (LLV)

MASONRY SHELF NOTES:

1. PROVIDE 8" BEARING EACH END OF SHELF.
2. FOR EXACT SIZE AND LOCATION OF ALL WALL OPENINGS COORDINATE WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
3. MASONRY SHELF SCHEDULE APPLIES ONLY TO MASONRY SHELVES NOT OTHERWISE SHOWN ON THE DRAWINGS.
4. MASONRY SHELVES IN EXTERIOR WALLS SHALL BE HOT-DIP GALVANIZED.



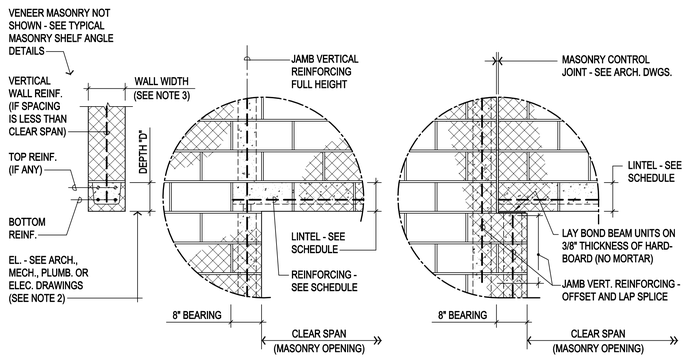
TYPICAL MASONRY SHELF DETAILS

NOT TO SCALE

BOND BEAM LINTEL SCHEDULE		
CLEAR SPAN	DEPTH "D"	REINFORCING
		8" WIDE
0 TO 3'-4"	8	2 - #4 BOTTOM
3'-5" TO 5'-4"	8	2 - #5 BOTTOM
5'-5" TO 6'-8"	16	2 - #5 BOTTOM
6'-9" TO 8'-0"	16	2 - #5 TOP AND BOTT.
8'-1" TO 13'-0"	16	2 - #6 TOP AND BOTT.

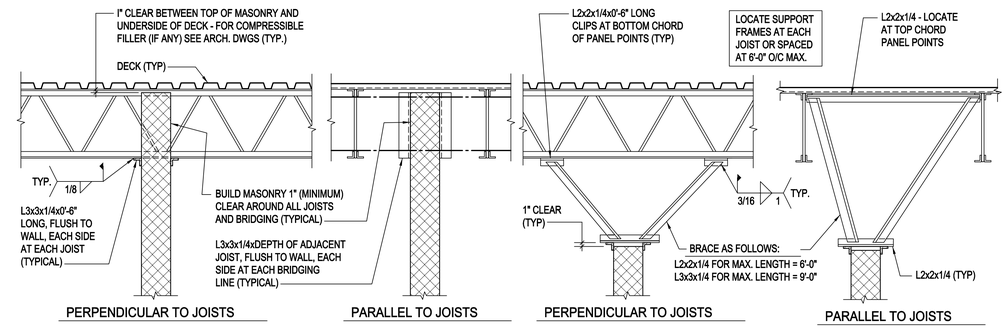
BOND BEAM LINTEL NOTES:

1. PROVIDE 8" CMU BEARING EACH END OF LINTEL.
2. FOR EXACT SIZE AND LOCATION OF ALL WALL OPENINGS COORDINATE WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR WIDTH OF WALL AND REQUIRED WIDTH OF LINTEL, IF DIFFERENT FROM WIDTH OF WALL.
4. BOND BEAM LINTEL SCHEDULE APPLIES ONLY TO LINTELS NOT OTHERWISE SHOWN ON THE DRAWINGS.
4. BOND BEAM LINTEL SCHEDULE APPLIES ONLY TO LINTELS NOT OTHERWISE SHOWN ON THE DRAWINGS.



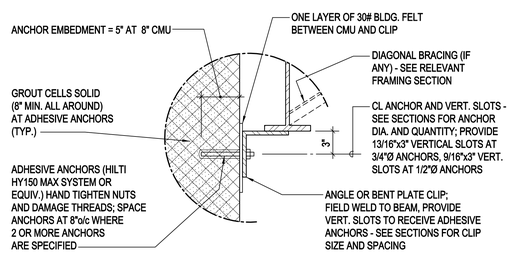
TYPICAL BOND BEAM LINTEL DETAILS

NOT TO SCALE



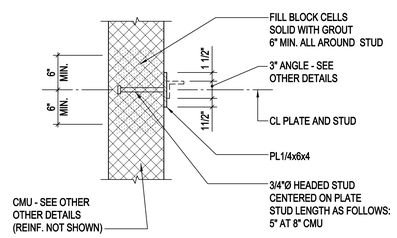
TYPICAL NON-BEARING MASONRY PARTITION DETAILS

NOT TO SCALE



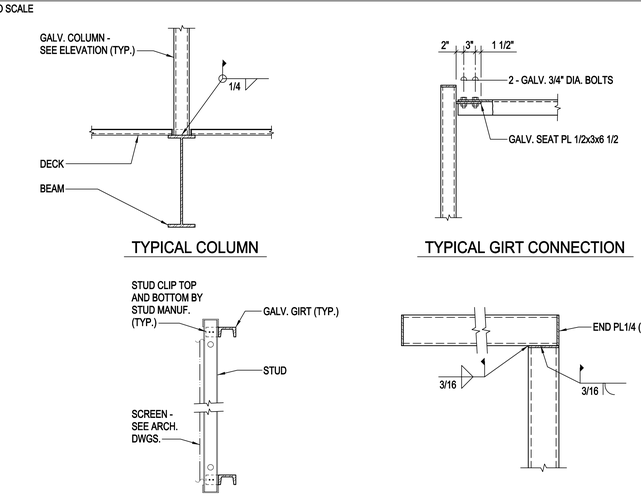
TYPICAL NON-BEARING MASONRY WALL BRACING DETAIL

NOT TO SCALE



TYPICAL EMBED PLATE DETAIL FOR STEEL ANGLE CONNECTION TO MASONRY WALL

NOT TO SCALE



TYPICAL SCREEN WALL FRAMING DETAILS

3/4" = 1'-0"

09.19.16 COMPREHENSIVE AGREEMENT SET
09.01.16 PRICING PLAN COORDINATION SET

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
PUBLIC SAFETY BUILDING
DINWIDDIE COUNTY, VIRGINIA

TYPICAL DETAILS

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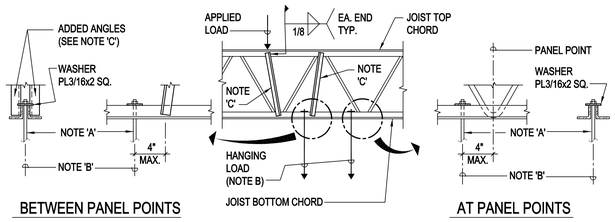


BETWEEN PANEL POINTS

AT PANEL POINTS

NOTES:

A) HANGER RODS - SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

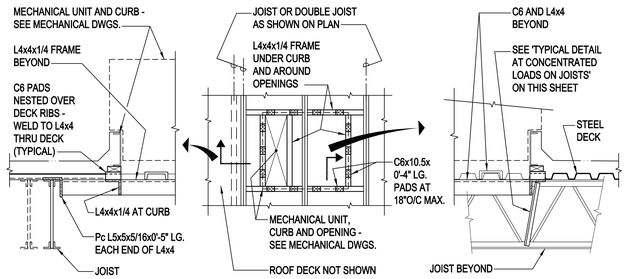
B) POSITION HANGER RODS ON JOIST CENTERLINE BETWEEN BOTTOM CHORD ANGLES. "C" CLAMP CONNECTIONS ARE NOT ALLOWED.

C) WHERE CONCENTRATED LOADS ARE APPLIED TO TOP CHORDS OR HUNG FROM BOTTOM CHORDS BETWEEN PANEL POINTS REINFORCE JOIST WITH DOUBLE ANGLES AS INDICATED. AT "K" SERIES PROVIDE DBL. L1x1x1/8; AT "LH" AND "DLH" SERIES PROVIDE DBL. L2 1/2x2 1/2x1/4.

TYPICAL DETAIL AT CONCENTRATED LOADS ON JOISTS

NOT TO SCALE

NOTE: THIS DETAIL IS FOR ALL LOADS WHICH EXCEED 50 POUNDS



SECTION

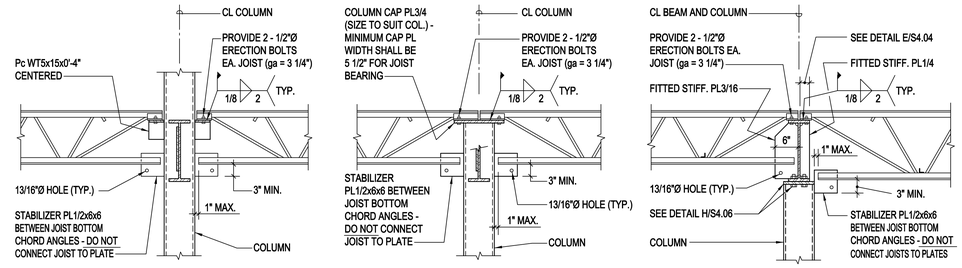
PART FRAMING PLAN

SECTION

DETAILS FOR AREAS WITH 1 1/2" DECK

TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAILS

NOT TO SCALE



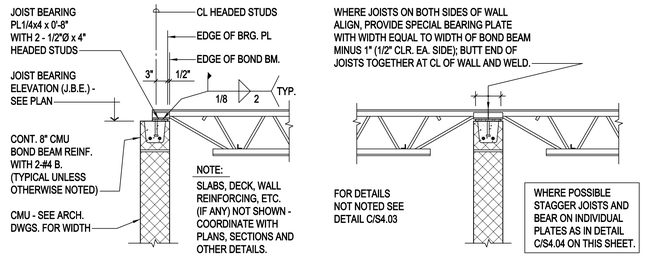
AT FLOOR

AT ROOF
(OR FLOOR WHERE
COLUMN STOPS)

AT BEAM FRAMED
OVER COLUMN

TYPICAL JOIST TO COLUMN CONNECTION DETAILS

NOT TO SCALE



MASONRY, ONE SIDE

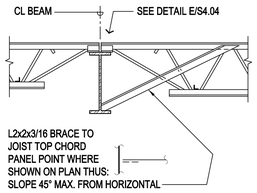
MASONRY, BOTH SIDES

STEEL BEAM

ROOF DECK, WALL REINFORCING, MULTIPLE-WYTHE WALLS, PARAPETS AND VENEER MASONRY NOT SHOWN. COORDINATE WITH PLANS, OTHER DETAILS AND ARCHITECTURAL DRAWINGS. (DETAILS FOR 'K' SERIES JOISTS ARE APPLICABLE WHEN TUBE OR CHANNEL JOIST SUBSTITUTES ARE USED)

TYPICAL JOIST BEARING DETAILS

NOT TO SCALE



TYPICAL BEAM BOTTOM FLANGE BRACE DETAIL

NOT TO SCALE

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
PUBLIC SAFETY BUILDING
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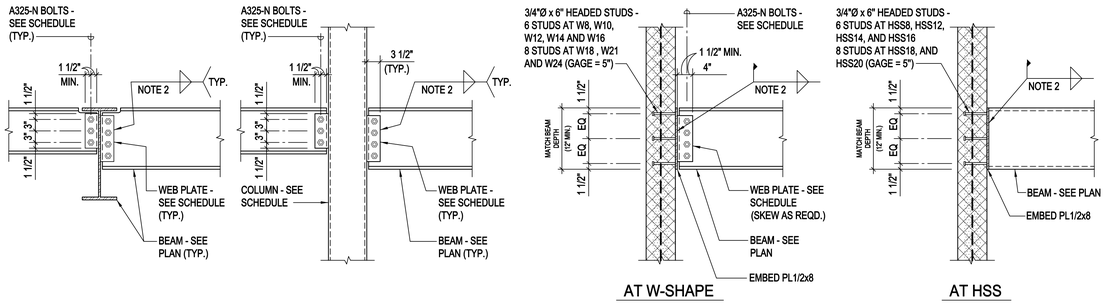


BEAM TO BEAM

BEAM TO HSS AND PIPE COLUMNS

AT W-SHAPE

AT HSS

BEAM TO EMBED PLATES

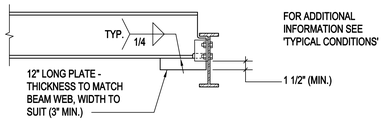
WEB PLATE CONNECTION SCHEDULE			
MAXIMUM BEAM SIZE IN EACH BEAM DEPTH GROUP	WEB PLATE THICKNESS	A325-N BOLTS	
		QUANTITY	SIZE
W10	3/8"	2	3/4" DIA.
W12	3/8"	3	3/4" DIA.
W14	3/8"	3	3/4" DIA.
W16	3/8"	4	3/4" DIA.
W18	3/8"	5	3/4" DIA.
W21	3/8"	6	3/4" DIA.
W24	3/8"	7	3/4" DIA.

WEB PLATE CONNECTION NOTES:

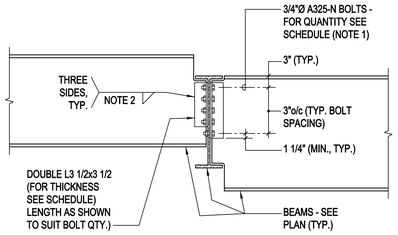
1. BOLT EDGE DISTANCE SHALL BE 1 1/2" MIN. AT ALL EDGES. BOLT SPACING SHALL BE 3" MIN.
2. FILLET WELDS SHALL BE 3/4 OF THE PLATE THICKNESS (1/4" MIN.) EACH SIDE.
3. THICKNESS EQUALS FLANGE THICKNESS OF BEAM FRAMING INTO COLUMN WEB (3/8" MIN.).

TYPICAL BOLTED WEB PLATE CONNECTION DETAILS

NOT TO SCALE



CONDITION WITH BEAM DEPTH EXTENDED



TYPICAL CONDITIONS

BOLTED DOUBLE ANGLE CONNECTION SCHEDULE		
BEAM SIZE	MIN. ANGLE THICKNESS	MIN. BOLT QUANTITY
W8 - W10	5/16"	2
W12	5/16"	2
W14	5/16"	2
W16	5/16"	3
W18	3/8"	4
W21	3/8"	4
W24	3/8"	5

DOUBLE ANGLE CONNECTION NOTES :

1. BOLT QUANTITY SHOWN IS MINIMUM NUMBER REQUIRED ON EACH SIDE OF BEAM WEB.
2. FILLET WELDS SHALL BE 3/4 OF THE ANGLE THICKNESS (1/4" MIN.).

THESE DETAILS ARE APPLICABLE AT CONNECTIONS WHERE THERE IS INSUFFICIENT DEPTH AT THE BEAM TO BEAM CONNECTION TO ALLOW USE OF A BOLTED WEB PLATE CONNECTION AS SHOWN IN THE DETAILS ON THIS SHEET AND NO OTHER CONNECTION IS SPECIFIED.

TYPICAL BOLTED DOUBLE ANGLE BEAM TO BEAM CONNECTION DETAILS

NOT TO SCALE

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DINWIDDIE COUNTY, VIRGINIA

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Project Information

Dinwiddie County Sherriff's Office and Fire Administration
XXX Courthouse Rd
Dinwiddie, VA 23841

One story building housing offices and holding facility. The Dinwiddie County Sherriff's Office and Fire Administration facility will consist of 23,034 SF of new construction.

Adopted Building Codes*

2012 VA Construction Code
2012 VA Mechanical Code
2011 National Electrical Code
2012 VA Plumbing Code
2012 VA Fire Prevention Code
2012 VA Energy Conservation Code
2012 VA Fuel Gas Code
2009 A117.1 Accessible and Usable Buildings and Facilities

*ALL CODES REQUIREMENTS TO INCLUDE LOCAL AMMENDMENTS

Construction Type

Main Building: II-B

Occupancy Type

- **EOC/Training:** A-3
- **Office:** B
- **Detention Center:** I-3
- **Parking:** S-2

AUTOMATIC SPRINKLER SYSTEM

Building will be fully equipped with an automatic fire sprinkler system

Fire Resistance Requirements: II-B

Structural Frame	- 0-hr: per IBC Table 601
Bearing Walls (Exterior)	- 0-hr: per IBC Table 601
Bearing Walls (Interior)	- 0-hr: per IBC Table 601
Nonbearing Walls	- 0-hr: per IBC Table 601
Floor Construction	- 0-hr: per IBC Table 601
Roof Construction	- 0-hr: per IBC Table 601

Allowable Height and Area:

Per Table 503 and Section 504.2

Maximum Height: Type II-B: 55' + 20' = 75'

Maximum Number of Stories: Group A-3: 2 +1 = 3 stories
Group B: 3 +1 = 4 stories
Group S-2: 3 +1 = 4 stories
Proposed Building: 1

Maximum Area per Floor Plate: Reference adjacent calculations for allowable area increase.

Area Modification Calculation, per IBC 506:
I_f = [F/P - 0.25]*W/30
I_f = [1-0.25]*30/30
I_f = 0.75

Required # Exits (per story)

Level	Required	Provided
1	3	5

Building is Nonseparated Occupancy

Per 508.3

Tabular Areas:

Group A-3:	9,500
Group B:	23,000
Group S-2:	26,000

Most restrictive = 9,500

Type II-B Area Modifications

$A_a = \{A_1+[A_1*I_f]+[A_2*I_f]\}$
A = {9,500 + [9,500*0.75] + [9,500*3]}
A = {23,000 + 7,125 + 28,500}
A = 45,125 SF allowed

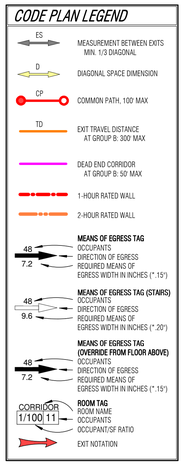
23,034 SF < 45,125 SF [OK]

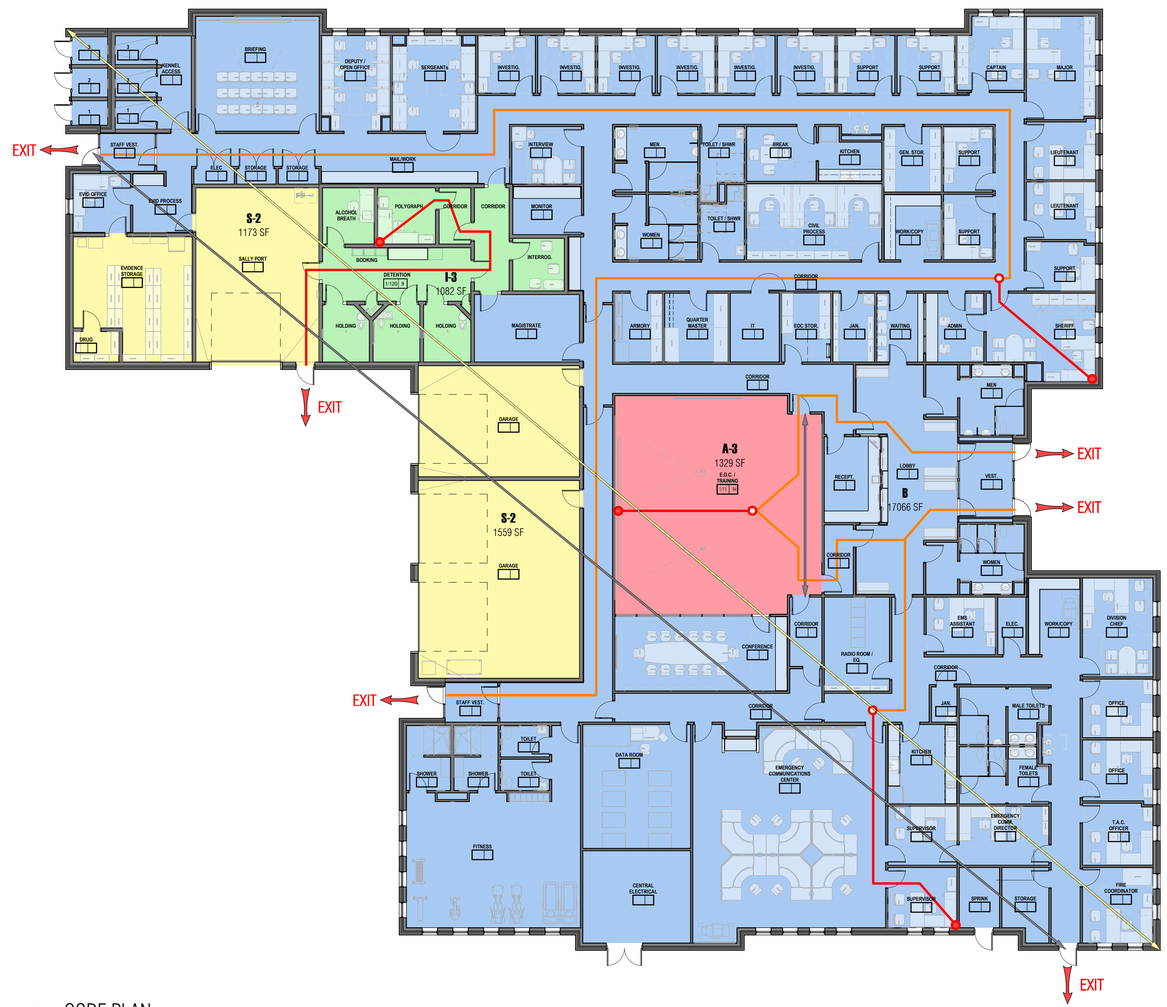
Energy Compliance

Virginia = Zone 4A

Envelope
Insulation above deck = R-25ci
Walls, metal framed = R-13 batt + R-7.5ci
Opaque Doors, swinging = U-0.61
Opaque Doors, roll-up or sliding = R-4.75

Fenestration
Fixed = 0.38 U-factor
Operable = 0.45 U-factor
Entrance doors = 0.77 U-factor
SHGC = 0.40





1 CODE PLAN
SCALE: 3/32" = 1'-0"

0' 5'4" 10'8"
PLAN

Shell Architect: H&A Architecture & Interior Design (757) 490-9048
Public Safety Architect: Brinkley Sargent Wigginton Architects (972) 960-9970
Structural: Speight, Marshall & Francis, P.C. (757) 427-1020
MEP: PACE Collaborative PC (757) 499-7223
Civil: Freeman- Millican (757) 490-9264

BRINKLEY SARGENT WIGINTON ARCHITECTS

DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

DINWIDDIE, VA

HISTORY

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CODE PLAN

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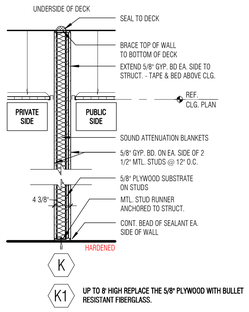
ALTERNATE #1: WALL PROTECTION AT PUBLIC SAFETY BUILDING LOBBY.



3 PARTITION TYPE - ALTERNATE #1
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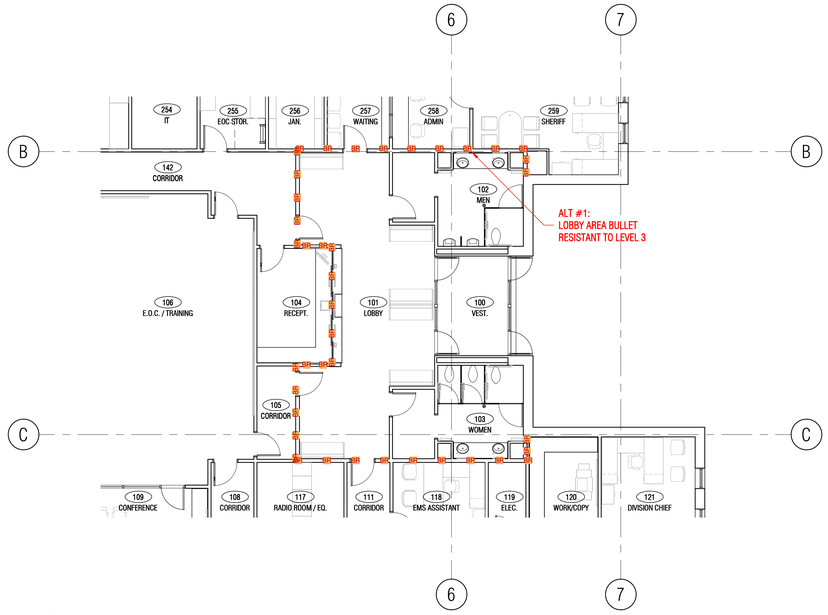
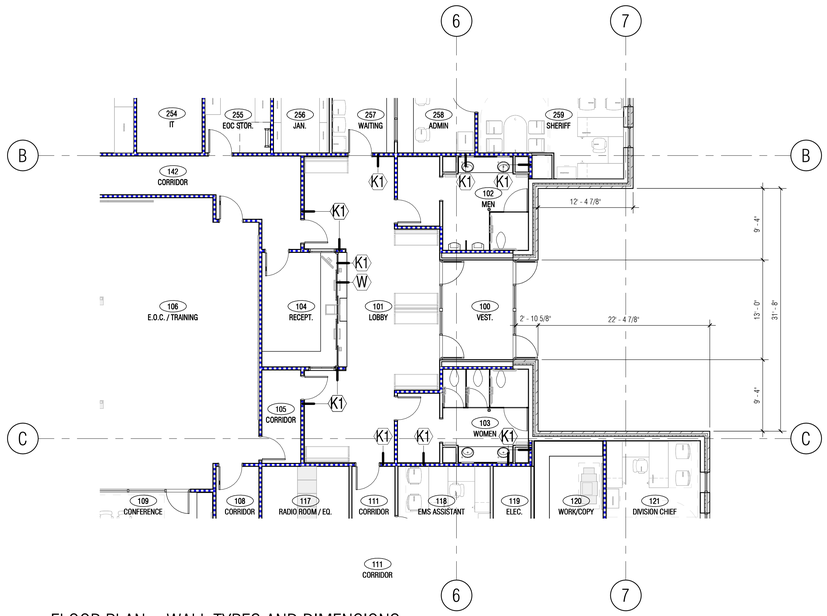


1 SECURITY PLAN - ALTERNATE #1
SCALE: 1/8" = 1'-0"
0' 4'0" 8'0"



2 FLOOR PLAN - WALL TYPES AND DIMENSIONS - ALTERNATE #1
SCALE: 1/8" = 1'-0"
0' 4'0" 8'0"

Shell Architect: H&A Architecture & Interior Design (757) 490-9048
Public Safety Architect: Brinkley Sargent Wigginton Architects (972) 960-9970
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DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

DINWIDDIE, VA

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ADD ALTERNATE #1

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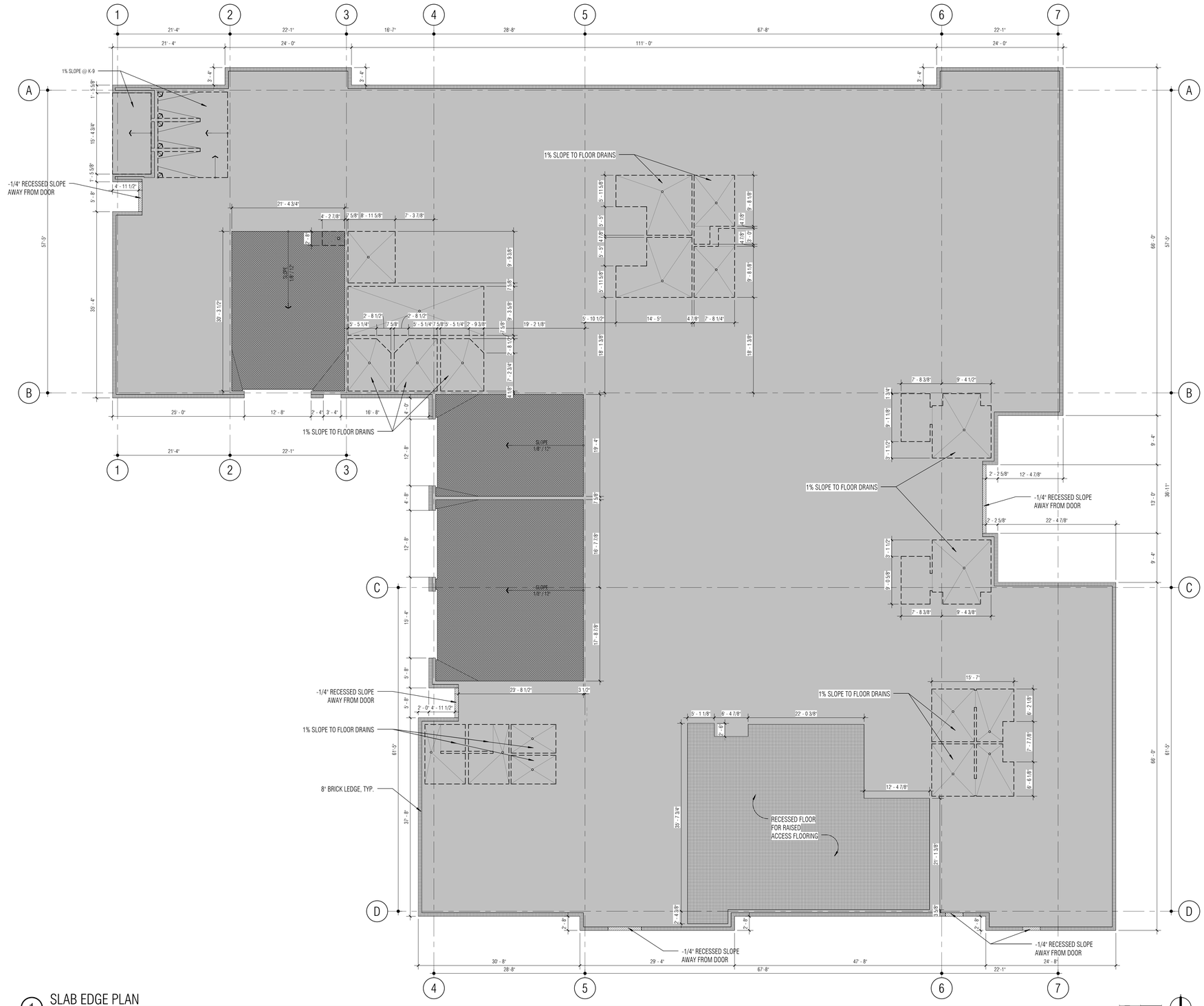
SLAB EDGE LEGEND

- (+0") CONCRETE SLAB
- (-8") BELOW FLOOR
- (-1/4") RECESS (AT DOOR LOCATIONS, SLOPE AWAY FROM DOOR AND BUILDING MAX 2%
- SLOPE 1/8" / 12" MAX. TO EXTERIOR, NO BRIDBATHS
- 1% SLOPE TO DRAIN

SHEET NOTES:

1. SLAB EDGE PROVIDED FOR HORIZONTAL CONTROL OF POURED SLABS RELATED TO EDGES, OPENINGS, RECESSES, MAJOR PIPE PENETRATIONS, FLOOR BOXES AND BRICK LEDGES. COORDINATE WITH STRUCTURAL DRAWINGS. ALERT ARCHITECT TO DISCREPANCIES BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS
2. PIPE SLEEVE LOCATIONS ARE NOT PROVIDE FOR ALL PIPE PENETRATIONS, JUST THOSE THROUGH CONCRETE BEAMS WHERE LOCATION IS CRITICAL. REFERENCE PLUMBING DRAWINGS FOR PIPE SIZES AND ADDITIONAL PENETRATION LOCATIONS.
3. ELECTRICAL FLOOR BOXES SHOWN FOR LOCATION PURPOSES, REFERENCE ELECTRICAL DRAWINGS FOR BOX TYPE AND SIZE



1 SLAB EDGE PLAN

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

0' 4'0" 8'0"

PLAN

Shell Architect: HSBA Architecture & Interior Design (757) 490-9048
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SLAB EDGE PLAN

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LEGEND

- STUD WALL (NOT TO DECK)
- CMU WALL (NOT TO DECK)
- WALL (TO-DECK)
- 1-HOUR RATED WALL
- 2-HOUR RATED WALL
- SECURE PERIMETER A (TO DECK)
- SECURE PERIMETER B (TO DECK)
- SECURE PERIMETER B (NOT TO DECK)

SHEET NOTES:

1. STUD WALL DIMENSIONS ARE FACE OF STUD UNLESS NOTED OTHERWISE
2. CMU WALL DIMENSIONS ARE FACE OF CMU UNLESS NOTED OTHERWISE
3. PER SPECIFICATION 09 29 00 GYPSUM BOARD, USE TILE BACKER BOARD IN LIEU OF GYP AT LOCATIONS WHERE TILE IS CALLED OUT AS A WALL FINISH. REFERENCE FINISH SCHEDULE AND FINISH PLAN
4. GRIND RADIUS PROFILE AT ALL CMU OUTSIDE CORNERS
5. REFERENCE **1 / A701** FOR PARTITION TYPES
6. REFERENCE INTERIOR ELEVATIONS AND FINISH PLANS FOR LOCATIONS THAT MAY REQUIRE BACKER BOARD OR APPLIED FINISHES
7. REFERENCE ENLARGED PLANS FOR ADDITIONAL DIMENSIONS, TAGS AND NOTES
8. CEILINGS AT 9' - 0" ABOVE FINISH FLOOR U.N.O.
9. ALL WALLS TYPE "B" U.N.O.

1 FLOOR PLAN - WALL TYPES AND DIMENSIONS

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

Shell Architect: HBA Architecture & Interior Design (757) 490-9048
Public Safety Architect: Brinkley Sargent Wigginton Architects (972) 960-9970
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LEVEL 1 FLOOR PLAN WALL TYPES AND DIMENSIONS

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1 FLOOR PLAN - EQUIPMENT AND INTERIOR ELEVATIONS

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

EQUIPMENT SCHEDULE - CFCI								
EQ #	Description	Mfgr. Prod #	Provider	Width	Depth	Height	Data Reqd	Elec Reqd
114-144	CEILING MOUNTED PROJECTION SCREEN		CFCI	12' - 0"	0"	0"		Y
150-05	EVIDENCE LOCKER WITH REFRIGERATOR	TIFFIN 05AB W/ FRIDGE- 4 DR INSERT	CFCI	3' - 0"	2' - 0"	6' - 10"		Y
323-1	LOCKER		CFCI	1' - 0"	1' - 6"	6' - 0"		
614	COMBO DRENCH SHOWER/EYEWASH	BRADLEY S19-310AC	CFCI	2' - 8"	3' - 11 3/8"	7' - 6 1/2"		
642	THROUGH WALL DOGGY DOOR W/ DOUBLE FLAP	04HS11	CFCI	1' - 3 1/2"	0"	2' - 3 1/2"		
702-3C	FLOOR MOUNTED SECURE DETENTION BENCH W/ CUFF	FSI INDUSTRIES #MF2080 - TRIPLE BENCH W/ CUFF	CFCI	6' - 0"	1' - 4"	2' - 0"		
MEP-HR-WATER	HOSE REEL - WATER		CFCI	0"	0"	0"		

EQUIPMENT SCHEDULE - OFOI								
EQ #	Description	Mfgr. Prod #	Provider	Width	Depth	Height	Data Reqd	Elec Reqd
147-X	EXISTING MAGAZINE STORAGE		OFOI	2' - 6"	3' - 6"	7' - 0"		
901	STAND-UP COPY/PRINT	N/A	OFOI	0"	0"	0"	Y	Y
907-30	VENDING MACHINE		OFOI	0"	0"	0"	Y	Y
909	COFFEE MAKER	BUNN VP17-3	OFOI	1' - 4 1/2"	1' - 5 1/2"	1' - 6"		Y
923	INTOXILIZER		OFOI	1' - 7"	1' - 6"	6"	Y	Y
924	FINGERPRINT SCANNER KIOSK		OFOI	2' - 6"	2' - 0"	0"	Y	Y
926	DIGITAL SIGNATURE PAD		OFOI	6"	4"	2"		
928-M	COMPUTER MONITOR	N/A VARIOUS SIZES BY OWNER	OFOI	0"	0"	0"	Y	Y
950	STATIONARY BIKE		OFOI	4' - 0"	1' - 9"	5' - 2"	Y	Y
951	ELLIPTICAL		OFOI	6' - 8"	2' - 8"	3' - 8"	Y	Y
952	TREADMILL		OFOI	7' - 4"	2' - 9"	5' - 10 1/2"	Y	Y
953	FLAT BENCH		OFOI	4' - 5"	2' - 6"	1' - 5"		
957	BEAUTYBELL RACK		OFOI	4' - 6"	2' - 2"	3' - 4"		
980-2	2 POST RACK		OFOI	1' - 9"	2' - 6"	7' - 0"	Y	Y
980-4	SERVER ROOM RACKS - SEE TECHNOLOGY		OFOI	2' - 7 1/2"	4' - 0"	7' - 0"	Y	Y
982	UPS - GENERIC - CLARIFY SIZE	UPS CLARIFY WITH TECHNOLOGY	OFOI	3' - 6"	8' - 0"	4' - 0"	Y	Y
AV-PR	OVERHEAD PROJECTOR	REF. AV DRAWINGS	OFOI	0"	0"	0"	Y	Y

EQUIPMENT SCHEDULE - MILLWORK								
EQ #	Description	Mfgr. Prod #	Provider	Width	Depth	Height	Data Reqd	Elec Reqd
122	S.S. DEAL TRAY	C.R. LAURENCE CO. #CTDB16	MILLWORK	1' - 4"	10"	1 9/16"		
125	DEAL DRAWER	C.R. LAURENCE CO. #DD1616	MILLWORK	1' - 3 3/4"	1' - 10 1/4"	4 15/16"		

EQUIPMENT SCHEDULE - FFE								
EQ #	Description	Mfgr. Prod #	Provider	Width	Depth	Height	Data Reqd	Elec Reqd
103-96	MARKER BD	CLARIDGE 1300 SERIES	FFE	8' - 0"	0"	4' - 0"		
104-64	TACK BD	CLARIDGE SERIES 8 TYPE 'CO'	FFE	6' - 0"	0"	4' - 0"		
104-74	TACK BD	CLARIDGE SERIES 8 TYPE 'CO'	FFE	7' - 0"	0"	4' - 0"		
104-84	TACK BD	CLARIDGE SERIES 8 TYPE 'CO'	FFE	8' - 0"	0"	4' - 0"		
141	WALL MNT. PISTOL LOCKER (4)	AMERICAN LOCKER - PISTOL LOCKER KEYED - 4 COMPARTMENT	FFE	1' - 2 1/4"	4"	2' - 4 3/32"		
145-24	GUN SAFE (24 LONG GUN)	U.S. SAFE CO. PATRIOT SERIES P22	FFE	2' - 6"	2' - 0"	4' - 11"	Y	Y
145-C	CASH SAFE		FFE	0"	0"	0"		
147-48	40" EXPANDABLE WEAPONS RACK	DLS GSA EWR 40" wide	FFE	4' - 0"	1' - 4"	7' - 0"		
161-7230	STAINLESS STEEL WORK TABLE	BLUE STEEL MODEL TS SERIES	FFE	6' - 0"	2' - 6"	2' - 11"		
508-TF	REFRIGERATOR W/ TOP FREEZER	TBD	FFE	2' - 9 1/2"	2' - 7 1/4"	5' - 7 1/2"		Y
512	HIGH HEAT COMMERCIAL DISHWASHER	WAREFORCE #WF-UH30	FFE	2' - 1"	2' - 1 3/8"	2' - 9 1/2"		Y
516	STACKABLE MICROWAVE	AMANA HDC12A2	FFE	1' - 8"	1' - 3"	1' - 1 1/2"		Y

Shell Architect: HBA Architecture & Interior Design (757) 490-9048
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Structural: Speight, Marshall & Francis, P.C. (757) 427-1020
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Civil: Freeman- Millican (757) 490-9264

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DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

DINWIDDIE, VA

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LEVEL 1 FLOOR PLAN EQUIPMENT AND INTERIOR ELEVATIONS

20513
9/19/2016
A212

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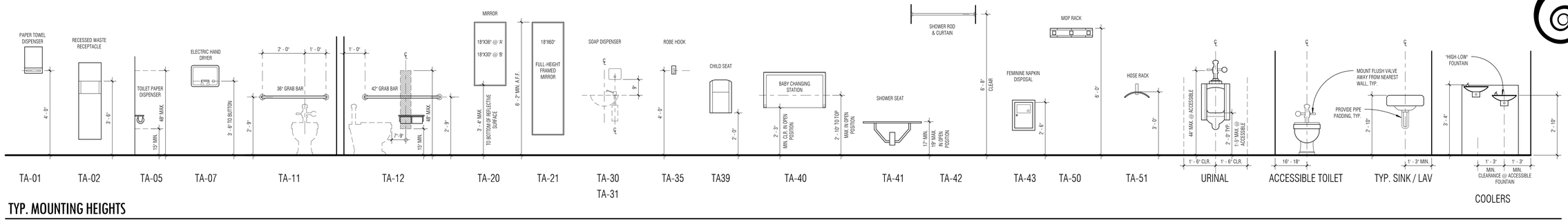
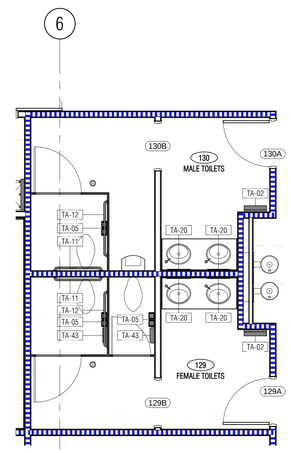
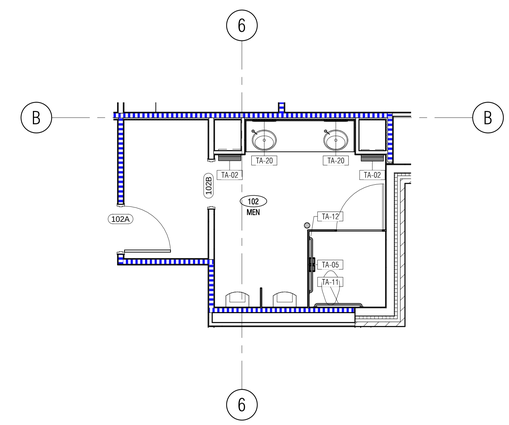


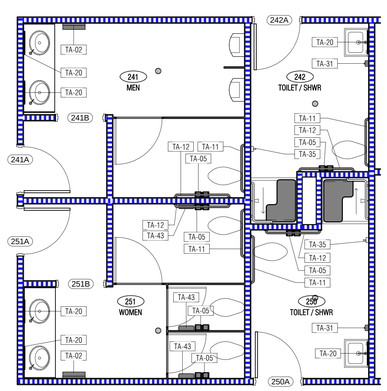
TYP. MOUNTING HEIGHTS



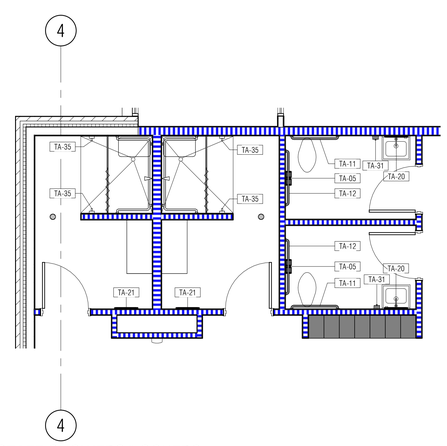
3 EP_STAFF TOILETS
SCALE: 1/4" = 1'-0"



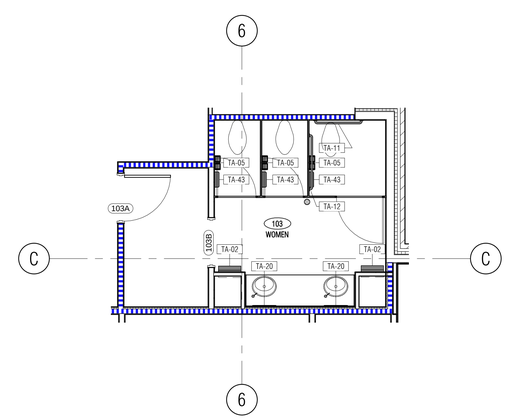
1 EP_LOBBY TOILETS_MEN
SCALE: 1/4" = 1'-0"



5 EP_STAFF TOILETS / SHOWER2
SCALE: 1/4" = 1'-0"



4 EP_STAFF SHOWERS/LOCKERS
SCALE: 1/4" = 1'-0"



2 EP_LOBBY TOILETS_WOMEN
SCALE: 1/4" = 1'-0"

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DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

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ENLARGED FLOOR PLANS

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9/19/2016
A270

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REFLECTED CEILING PLAN LEGEND

SHEET NOTES

1. ALL CEILINGS AT 9'-4" U.N.O.

EXPOSED TO ABOVE-PAINTED STRUCTURE	2'X2' LAY-IN ACOUSTICAL CEILING	8'X8' ALUMINUM OPEN CELL SYSTEM (IN 2'X2' LAY-IN GRID)	WOOD CEILING	SECURITY CONCRETE CEILING SLAB	BIRDSCREEN
PAINTED DRYWALL	2'X4' LAY-IN ACOUSTICAL CEILING	8'X8' WOOD OPEN CELL SYSTEM (IN 2'X2' LAY-IN GRID)	LINEAR WOOD CEILING	SECURITY STEEL CEILING	MOISTURE AND MOLD RESISTANT GYPSUM BOARD, WITH EPOXY PAINT.
PAINTED DRYWALL (2 LAYERS)	UPGRADE 2'X2' LAY-IN ACOUSTICAL CEILING	FURDOWN, 2" - 2' A.F.F. - U.N.O.	ARCHITECTURAL WIRE MESH	SECURITY PLANK METAL	
PAINTED DRYWALL (1 HR ASSEMBLY)	2'X2' LAY-IN (PERFORATED)	METAL PANEL	GRANITE	2'X2' SECURITY LAY-IN METAL	
PAINTED DRYWALL (2 HR ASSEMBLY)	12"X12" ACOUSTIC CEILING ADHERED TO HIGH-IMPACT DRYWALL	STRETCHED FABRIC CEILING	CERAMIC TILE	2'X2' WASHABLE FIBERGLASS LAY-IN	

1 REFLECTED CEILING PLAN

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

0' 4'0" 8'0"

PLAN

Shell Architect: HBA Architecture & Interior Design (757) 490-9048
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C:\Users\jperrit\Desktop\Revit Locals\27614-Dinwidie_JPL_R16_2016-08-15_jperrit.rvt

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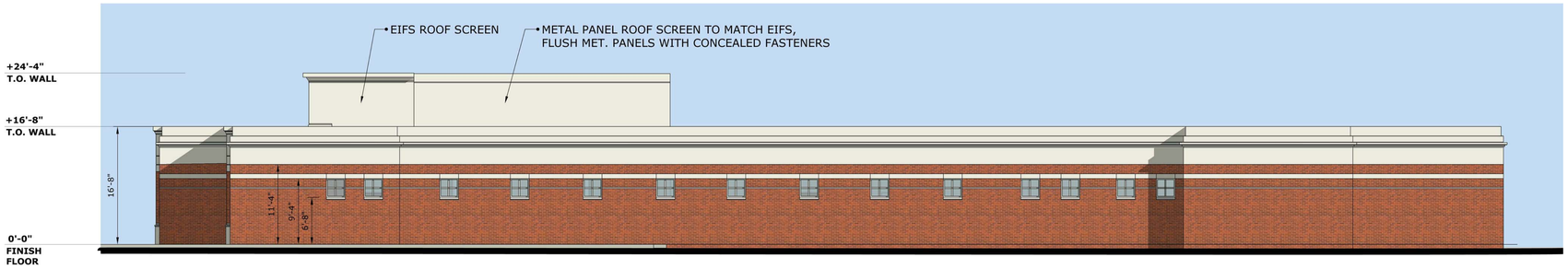
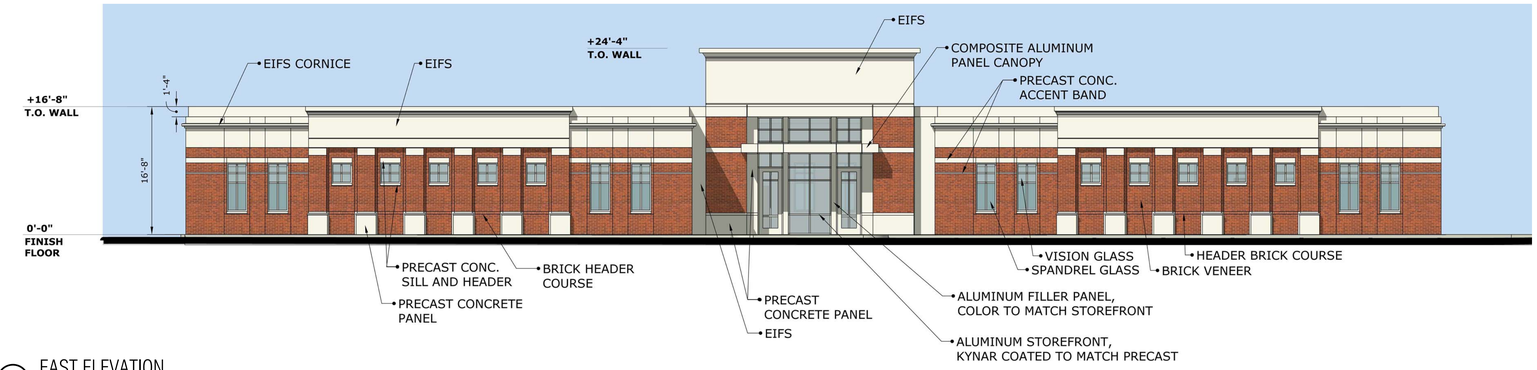
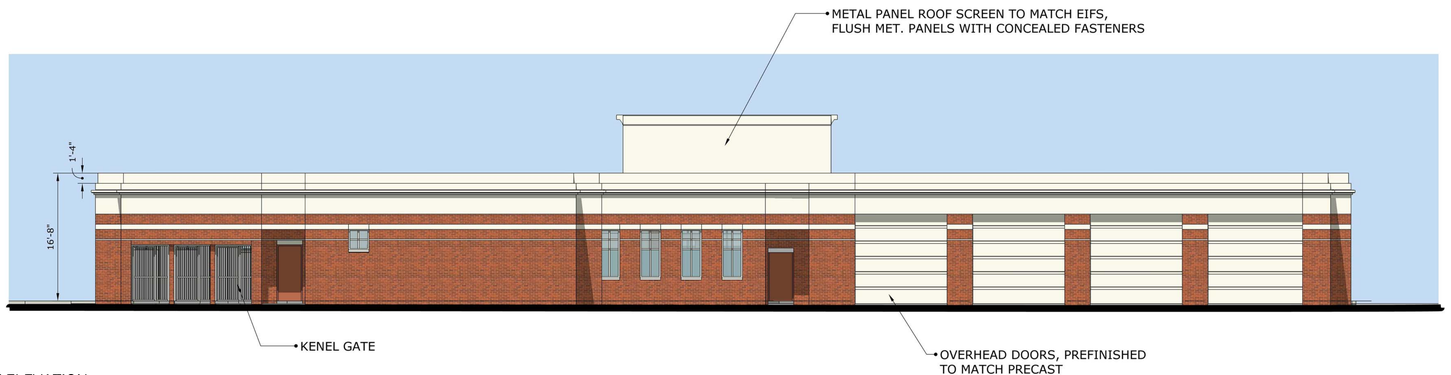


1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

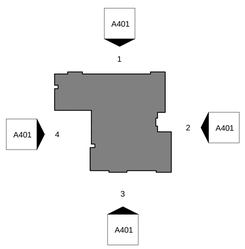


2 EAST ELEVATION
SCALE: 1/8" = 1'-0"

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



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



KEYPLAN

BRINKLEY SARGENT WIGINTON ARCHITECTS

Shell Architect: HBA Architecture & Interior Design (757) 490-9048
Public Safety Architect: Brinkley Sargent Wigginton Architects (972) 960-9970
Structural: Speight, Marshall & Francis, P.C. (757) 427-1020
MEP: PACE Collaborative PC (757) 499-7223
Civil: Freeman- Millican (757) 490-9264

DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

DINWIDDIE, VA

HISTORY

#	DATE	DESCRIPTION

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TEXAS LIC. #9944
9/19/2016

BUIDING ELEVATIONS

COMPREHENSIVE AGREEMENT SET

20513
9/19/2016
A401

9/13/2016 9:52:17 AM

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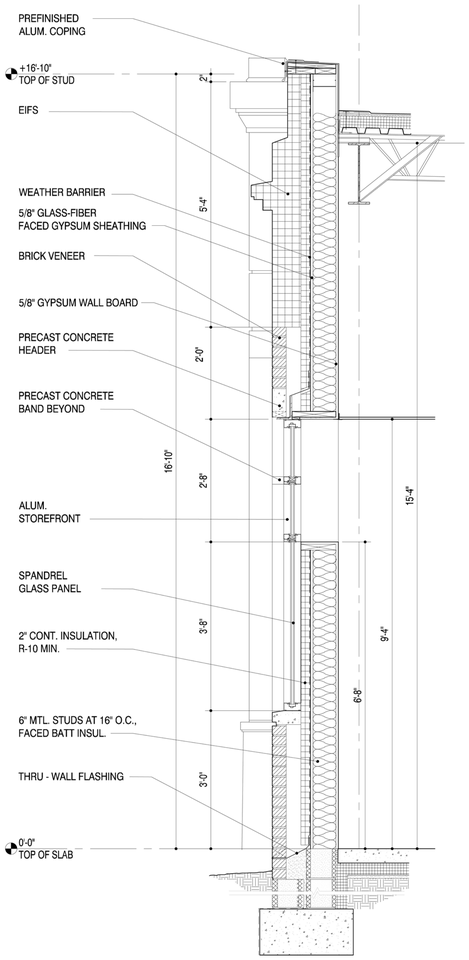
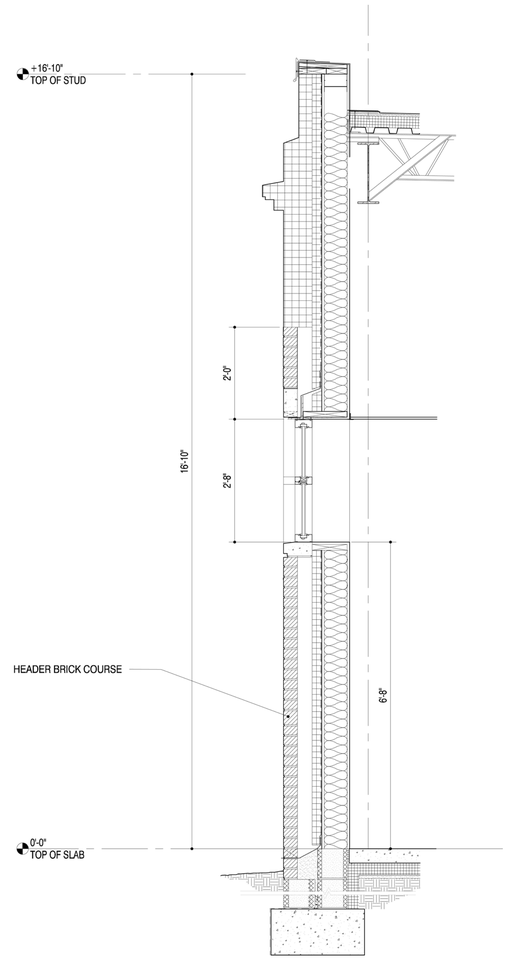


2 TYPICAL WALL SECTION @ HIGH WINDOW

SCALE: 3/4" = 1'-0"



1 WALL SECTION 1

SCALE: 3/4" = 1'-0"

Shell Architect: HBA Architecture & Interior Design (757) 490-9048
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BRINKLEY SARGENT WIGINTON ARCHITECTS

DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

DINWIDDIE, VA

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#	DATE	DESCRIPTION

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9/19/2016

WALL SECTIONS

COMPREHENSIVE AGREEMENT SET

20513
9/19/2016

A511

9/19/2016 9:33:22 AM

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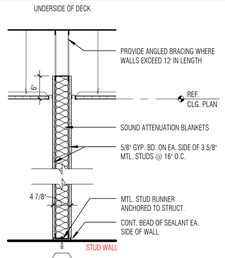
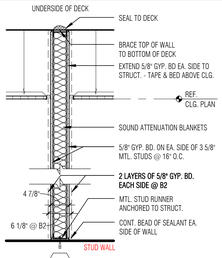


A

A3 SAME AS WALL "A", BUT W/ NO SOUND ATTENUATION BLANKETS



B

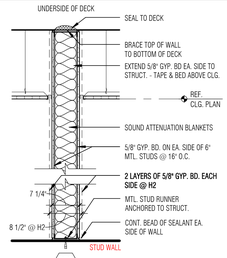
C NOT USED

D NOT USED

E NOT USED

F NOT USED

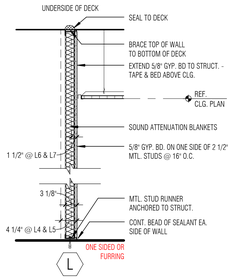
G NOT USED



H

J NOT USED

K NOT USED



L

L3 SAME AS WALL "L", BUT GYP. BD. STOPS 6" ABOVE CLG. & NO SOUND ATTENUATION BLANKETS; WALL TO BE BRACED AS REQ. FOR RIGIDITY

L4 SAME AS WALL "L", BUT WITH 3 5/8" MTL. STUDS

L5 SAME AS WALL "L4", BUT GYP. BD. STOPS 6" ABOVE CLG. & NO SOUND ATTENUATION BLANKETS; WALL TO BE BRACED AS REQ. FOR RIGIDITY

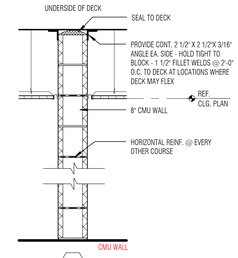
L6 SAME AS WALL "L", BUT WITH 7/8" FURRING CHANNELS & NO SOUND ATTENUATION BLANKETS

L7 SAME AS WALL "L6", BUT GYP. BD. & FURRING STUDS STOP 6" ABOVE CEILING

M NOT USED

N NOT USED

O NOT USED



P

P1 1 HR RATED - UL# U907

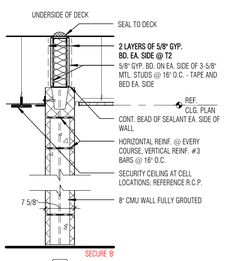
P2 2 HR RATED - UL# U907

P3 SAME AS WALL "P", BUT STOP WALL ONE COURSE ABOVE CEILING

Q NOT USED

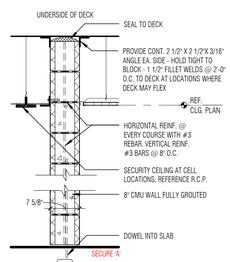
R NOT USED

S NOT USED

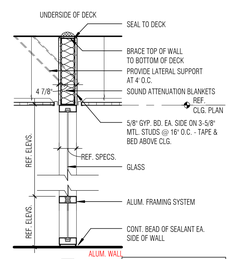


T

U NOT USED



V



W

REF INT. ELEVS. FOR MULLION COUNT, SPACING, & GLASS TYPE

W3 SAME AS WALL "W" BUT GYP. BD. STOPS 6" ABOVE CLG. & NO SOUND ATTENUATION BLANKETS; WALL TO BE BRACED AS REQ. FOR RIGIDITY

X NOT USED

Y NOT USED

Z NOT USED

PARTITION TYPES GENERAL NOTES:

1. REFER TO INTERIOR ELEVATIONS FOR SPECIAL APPLIED FINISHES (TILE, STONE, FINISH CARPENTRY, ETC.)

2. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL WALL CONSTRUCTION REQUIREMENTS.

3. ALL CMU WALLS TO RECEIVE CONTINUOUS HORIZONTAL REINFORCEMENT @ 16" O.C. VERTICALLY (MINIMUM) - TYP.

4. SECURITY WALL TYPES SHOWN ARE MINIMUM REQUIREMENTS FOR SECURITY WALLS. STRUCTURAL REQUIREMENTS ON STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SECURITY REQUIREMENTS - AND ARE IN LIEU OF OR ADDITIVE TO SECURITY REINFORCING.

BRINKLEY SARGENT WIGINTON ARCHITECTS

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DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

DINWIDDIE, VA

HISTORY

#	DATE	DESCRIPTION

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TEXAS LIC. #9941
9/19/2016

PARTITION TYPES

20513
9/19/2016

A701

COMPREHENSIVE AGREEMENT SET

9/13/2016 9:53:51 AM

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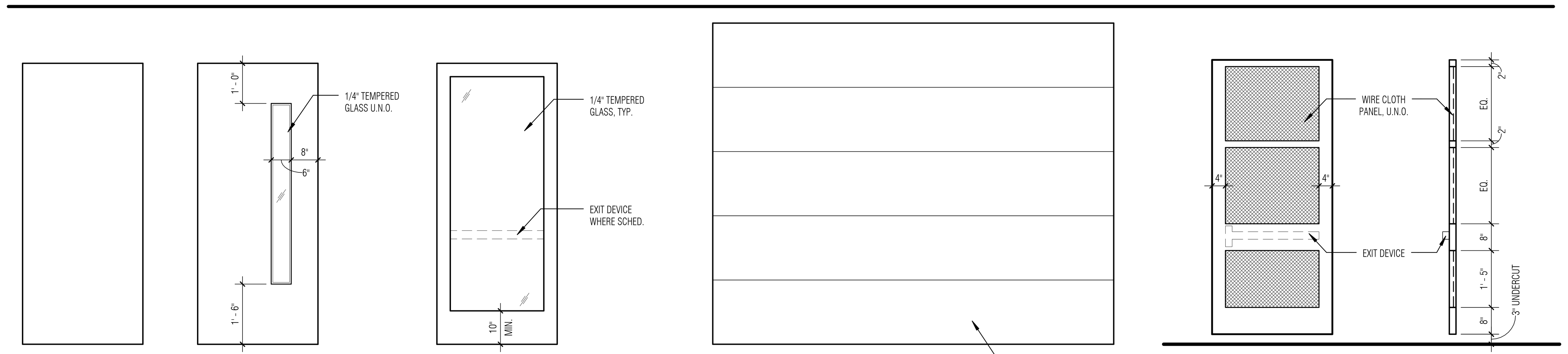
DOOR SCHEDULE

#	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	TYPE MARK	DOOR MAT.	FRAME	FIRE RATING	HW SET NO.	REMARKS
100A	3' - 0"	7' - 0"	G	AL/GL	ALUM	-	7	
100B	3' - 0"	7' - 0"	G	AL/GL	ALUM	-	7	
101A	3' - 0"	7' - 0"	G	AL/GL	ALUM	-	11	
101B	3' - 0"	7' - 0"	G	AL/GL	ALUM	-	11	
102A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	4	
102B	3' - 0"	7' - 0"	-	--	HMTL	-		CASED OPENING
103A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	4	
103B	3' - 0"	7' - 0"	-	--	HMTL	-		CASED OPENING
104A	3' - 0"	7' - 0"	BF	WOOD/GL	HMTL	-	9	
105A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	7	
106A	3' - 0"	7' - 0"	BF	WOOD/GL	HMTL	-	7	
106B	3' - 0"	7' - 0"	A	WOOD	HMTL	-	4	
106C	3' - 0"	7' - 0"	BF	WOOD/GL	HMTL	-	4	
106D	3' - 0"	7' - 0"	A	AL/GL	ALUM	-	2	
108A	3' - 0"	7' - 0"	BF	WOOD/GL	HMTL	-	10	
110A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	6	
111A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	6	
111B	3' - 0"	7' - 0"	A	HMTL	HMTL	-	6	1, 5
112A	3' - 0"	7' - 0"	A	WOOD	ALUM	-	1	
113A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	4	
114A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
114B	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	2
115A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
116A	3' - 0"	7' - 0"	BF	WOOD/GL	HMTL	-	6	
116B	3' - 0"	7' - 0"	BF	WOOD/GL	HMTL	-	6	
117A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	2	
118A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
119A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	2	
121A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
122A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
123A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
124A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
125A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
126A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
127A	3' - 0"	7' - 0"	A	HMTL	HMTL	-	13	5
128A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
129A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	4	
129B	3' - 0"	7' - 0"	-	--	HMTL	-		CASED OPENING
130A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	4	
130B	3' - 0"	7' - 0"	-	--	HMTL	-		CASED OPENING
131A	6' - 0"	7' - 0"	A2	HMTL	HTML	-	14	
132A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	6	
133A	12' - 0"	12' - 0"	O	STL	STL	-		OVERHEAD DOOR
133A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	2
133B	12' - 0"	12' - 0"	O	STL	STL	-		OVERHEAD DOOR
133C	12' - 0"	12' - 0"	O	STL	STL	-		OVERHEAD DOOR
134A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	3	
135A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	3	
136A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	3	
137A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	3	
138A	3' - 0"	7' - 0"	G	AL/GL	ALUM	-	7	
138B	3' - 0"	7' - 0"	G	AL/GL	ALUM	-	11	
139A	3' - 0"	7' - 0"	A	HMTL	HMTL	-	5	
140A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	6	
140B	3' - 0"	7' - 0"	BF	WOOD/GL	HMTL	-	6	
141A	3' - 0"	7' - 0"	A	HMTL	HMTL	-	5	
142A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	7	
142B	3' - 0"	7' - 0"	BF	WOOD/GL	HMTL	-	6	
200A	3' - 0"	7' - 0"	G	AL/GL	ALUM	-	7	
200B	3' - 0"	7' - 0"	G	AL/GL	ALUM	-	11	
201A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	5	COMBO BOTH SIDES
202A	2' - 10"	7' - 0"	R	STL	HMTL	-	15	
203A	2' - 10"	7' - 0"	R	STL	HMTL	-	15	
204A	2' - 10"	7' - 0"	R	STL	HMTL	-	15	
205A	2' - 10"	7' - 0"	R	STL	HMTL	-	15	
206A	2' - 10"	7' - 0"	R	STL	HMTL	-	15	

DOOR SCHEDULE

#	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	TYPE MARK	DOOR MAT.	FRAME	FIRE RATING	HW SET NO.	REMARKS
207A	2' - 10"	7' - 0"	R	STL	HMTL	-	15	
209A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	9	
210A	3' - 0"	7' - 0"	AX	DHM	DHM	-	34	2
211A	3' - 0"	7' - 0"	A	HMTL	HMTL	-	33	
212A	3' - 0"	7' - 0"	A	HMTL	HMTL	-	33	1, DOUBLE VIEWER
212B	3' - 0"	7' - 0"	BX-S	DHM	DHM	-	32	1, DOUBLE VIEWER
212C	3' - 0"	7' - 0"	A	HMTL	HMTL	-	33	DOUBLE VIEWER
212D	12' - 0"	12' - 0"	O	STL	STL	-		SALLY PORT DOOR
213A	3' - 0"	7' - 0"	AX	DHM	DHM	-	32	DOUBLE VIEWER
213B	1' - 4"	7' - 0"	A	HMTL	HMTL	-	8	
213C	2' - 0"	7' - 0"	A	HMTL	HMTL	-	8	
214A	3' - 0"	7' - 0"	BX-SP	DHM/SG	DHM	-	31	1/2" TEMPERED GLAZING
215A	3' - 0"	7' - 0"	BX-SP	DHM/SG	DHM	-	31	1/2" TEMPERED GLAZING
216A	3' - 0"	7' - 0"	BX-SP	DHM/SG	DHM	-	31	1/2" TEMPERED GLAZING
217A	3' - 0"	7' - 0"	A	HMTL	HMTL	-	6	KEYED BOTH SIDES
217B	3' - 0"	7' - 0"	AX	DHM	DHM	-	32	VIEWER
218A	3' - 0"	7' - 0"	A	HMTL	HMTL	-	5	VIEWER
219A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	2
220A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	2
221A	3' - 0"	7' - 0"	AX	DHM	DHM	-	32	VIEWER
222A	3' - 0"	7' - 0"	A	HMTL	HMTL	-	5	
223A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	12	2
224A	3' - 0"	7' - 0"	A	HMTL	HMTL	-	5	
227A	6' - 0"	7' - 0"	A2	WOOD	HMTL	-	12	
227B	6' - 0"	7' - 0"	A2	WOOD	HMTL	-	12	
227C	5' - 8 15/16"	7' - 0"	A2	WOOD	HMTL	-	12	
228A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
228B	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
229A	4' - 0"	7' - 0"	-	--	HMTL	-		CASED OPENING
230A	3' - 0"	7' - 0"	A	WOOD	ALUM	-	1	
231A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
232A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
233A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
234A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
235A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
236A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
237A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
238A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
239A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
241A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	4	
241B	3' - 0"	7' - 0"	-	--	HMTL	-		CASED OPENING
242A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	3	
243A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	4	
244A	3' - 0"	7' - 0"	-	--	HMTL	-		CASED OPENING
245A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
246A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
247A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
248A	4' - 0"	7' - 0"	-	--	HMTL	-		CASED OPENING
249A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
250A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	3	
251A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	4	
251B	3' - 0"	7' - 0"	-	--	HMTL	-		CASED OPENING
252A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	6	
253A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	9	
254A	3' - 0"	7' - 0"	A	WOOD	ALUM	-	1	
255A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
256A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
257A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	6	
257B	3' - 0"	7' - 0"	BF	WOOD/GL	HMTL	-	6	
258A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	2	
258B	3' - 0"	7' - 0"	A	WOOD	HMTL	-	9	2
259A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	9	2
260A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
261A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
262A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	1	
263A	3' - 0"	7' - 0"	A	WOOD	HMTL	-	9	

DOOR TYPES



A — FLUSH DOOR

BF — DOOR W/ FULL BORROWED LIGHT

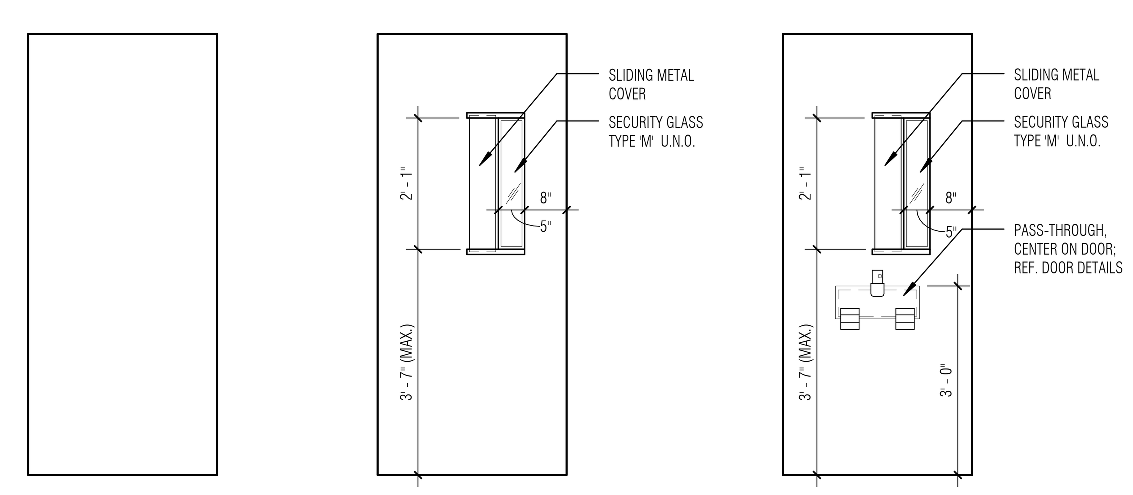
G — STILE & RAIL DOOR

O — SECTIONAL DOOR (SOLID PANELS)

R — H. MTL. DOOR W/ WIRE CLOTH PANELS

SECTION OF TYPE 'R'

DETENTION DOORS



AX — DETENTION FLUSH

BX-S — DETENTION DOOR W/ BORROWED LIGHT & SLIDE COVER

BX-SP — DETENTION DOOR W/ BORROWED LIGHT, SLIDE COVER, & PASS-THROUGH

DOOR SCHEDULE LEGEND

ABBREVIATIONS

ALUM	ALUMINUM
AL/GL	ALUMINUM & GLASS
DHM	DETENTION GRADE HOLLOW METAL
DHM/SG	DETENTION GRADE HOLLOW METAL W/ SECURITY GLAZING
DHM/SM	DETENTION GRADE HOLLOW METAL W/ STEEL MESH
FBRG	FIBERGLASS
HMTL	HOLLOW METAL
STL	STEEL
WD/GL	WOOD & GLASS

REMARKS

CR	CARD READER
CK	CARD READER W/ KEYPAD
B	BIOMETRIC READER
BK	BIOMETRIC W/ KEYPAD
MC	MECHANICAL KEYPAD
120DG	120 VOLT DETENTION GRADE LOCK
24DG	24 VOLT DETENTION GRADE LOCK
JC	JAIL ACCESS CONTROL
PP	PUSH PAD AUTO DOOR CONTROL

1. WEATHERSTRIPPING
2. SOUND SEAL
3. DOOR CONTACT
4. W/ DEAD BOLT
5. RAIN DRIP
6. 12" KICK PLATE
7. 36" KICK PLATE
8. FLUSH BOLT

GENERAL DOOR SCHEDULE NOTE:
NUMERICAL SUFFIX FOLLOWING DOOR DESIGNATION IS EQUAL TO NUMBER OF DOORS IN OPENING.
EXAMPLE: "A2" = (2) TYPE A DOORS

BRINKLEY SARGENT WIGINTON ARCHITECTS

Shell Architect: HBA Architecture & Interior Design (757) 490-9048
Public Safety Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Structural: Speight, Marshall & Francis, P.C. (757) 427-1020
MEP: PACE Collaborative PC (757) 499-7223
Civil: Freeman- Millican (757) 490-9264

DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

DINWIDDIE, VA

COMPREHENSIVE AGREEMENT SET

HISTORY

#	DATE	DESCRIPTION

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9/19/2016

DOOR SCHEDULE
DOOR TYPES

20513
9/19/2016
A702

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FINISH PLAN LEGEND

SHEET NOTES

1. ALL WALLS ARE PAINTED 'P1'; UNLESS NOTED OTHERWISE.
2. ALL TOILET PARTITIONS HIGH DENSITY POLYETHYLENE.

- FLOOR TRANSITION
- MOTORIZED SHADE
- MANUAL SHADE
- MOTORIZED SHADE/BLACKOUT
- CORNER GUARD
- CORNER GUARD-STAINLESS
- LINEAR PATTERN DIRECTION

MILLWORK TAG

TRANSACTION — XXX
COUNTERTOP — XXX
UPPERS/LOWERS — XXX

PL PLASTIC LAMINATE
SS SOLID SURFACE
STL STAINLESS STEEL

WALL FINISHES

- ACROVYN WALL COVER TO CRASH RAIL, MIRROR ABOVE
- EPOXY PAINT
- PORCELAIN TILE
- ACCOUSTICAL WALL CARPET
- 42" METAL PANEL WITH WOOD PANELS ABOVE
- 42" TILE WAINSCOT
- VINYL WALL COVERING & CHAIR RAIL
- DOUBLE CRASH RAIL
- ACOUSTICAL WALL PANELS
- VINYL WALL COVERING

FLOOR FINISHES

- ACCESS FLOOR CARPET
- ACCESS FLOOR HPL
- ANTI-STATIC VINYL FLOORING
- CARPET
- EXERCISE FLOORING
- PORCELAIN TILE
- SEALED CONCRETE
- VCT
- WALK OFF MAT

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

0' 4'0" 8'0'
PLAN

Shell Architect: H&A Architecture & Interior Design (757) 490-9048
Public Safety Architect: Brinkley Sargent Wigginton Architects (972) 960-9970
Structural: Speight, Marshall & Francis, P.C. (757) 427-1020
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BRINKLEY SARGENT WIGINTON ARCHITECTS

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DINWIDDIE, VA

HISTORY

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FLOOR FINISH PLAN

COMPREHENSIVE AGREEMENT SET

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9/19/2016
A811

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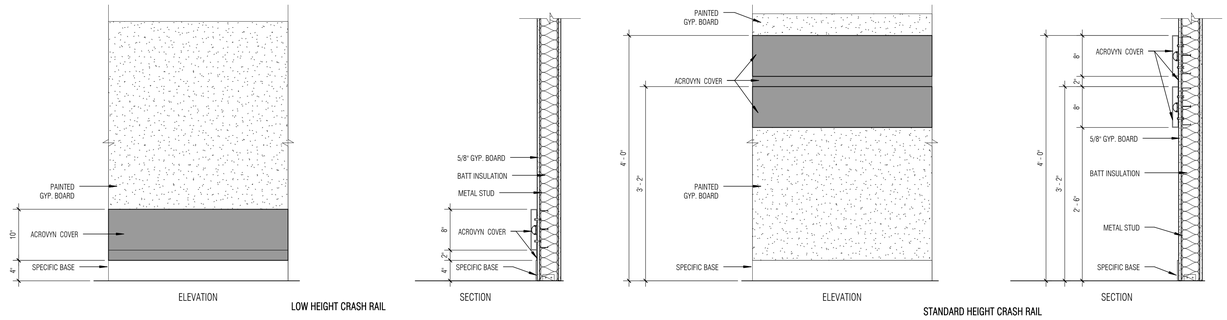
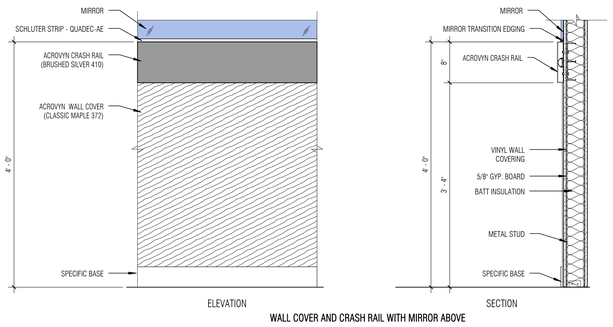


1 CRASH RAIL ELEVATION AND SECTION DETAIL

SCALE: 1" = 1'-0"



2 WALL COVER, CRASH RAIL, MIRROR ELEVATION & SECTION DETAIL

SCALE: 1" = 1'-0"

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Structural: Speight, Marshall & Francis, P.C. (757) 427-1020
MEP: PACE Collaborative PC (757) 499-7223
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BRINKLEY SARGENT WIGINTON ARCHITECTS

DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

DINWIDDIE, VA

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FINISH DETAILS

COMPREHENSIVE AGREEMENT SET

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9/19/2016
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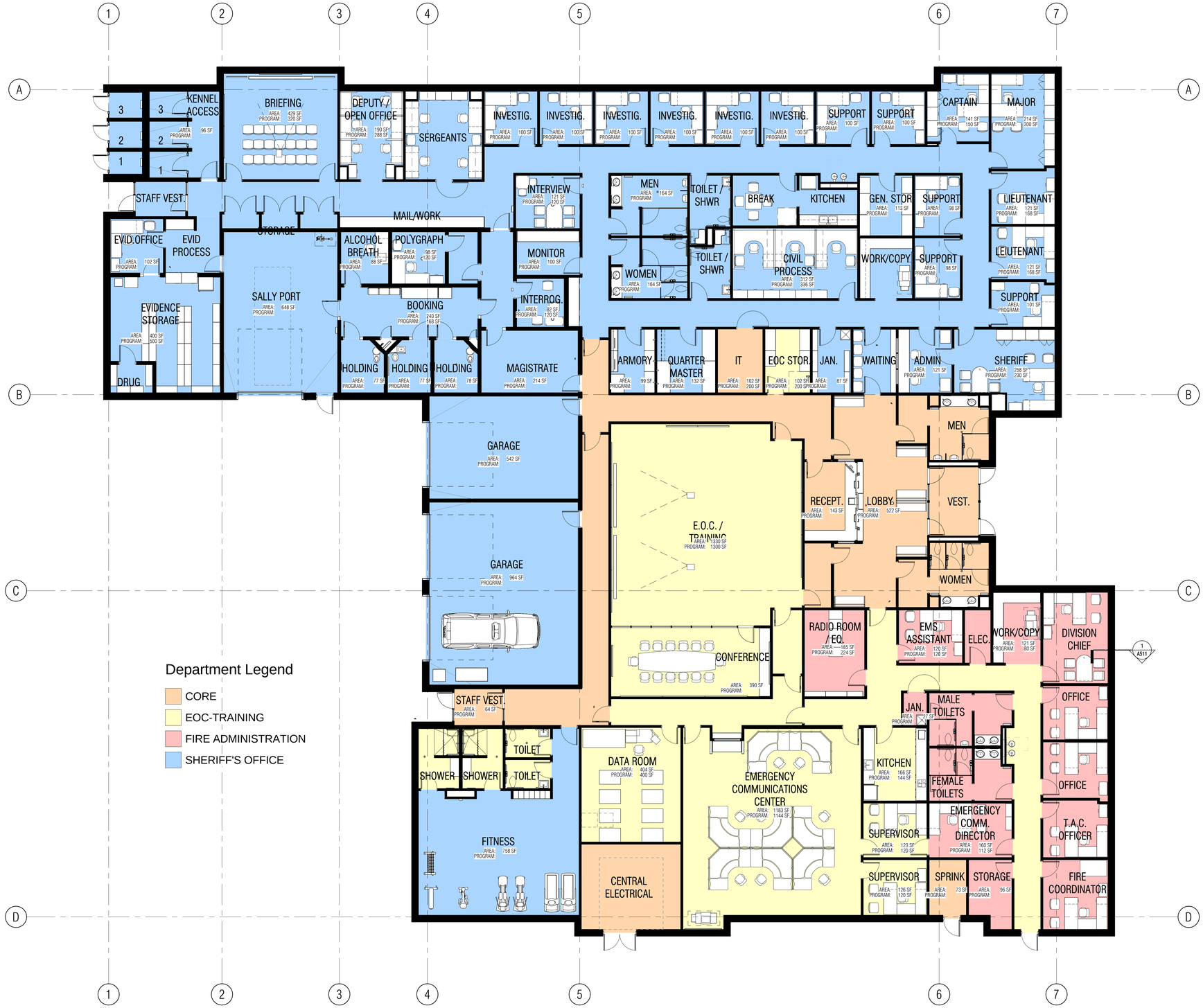

1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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Date: 9/19/2016

DD101 - FLOOR PLAN

BRINKLEY SARGENT WIGINTON ARCHITECTS

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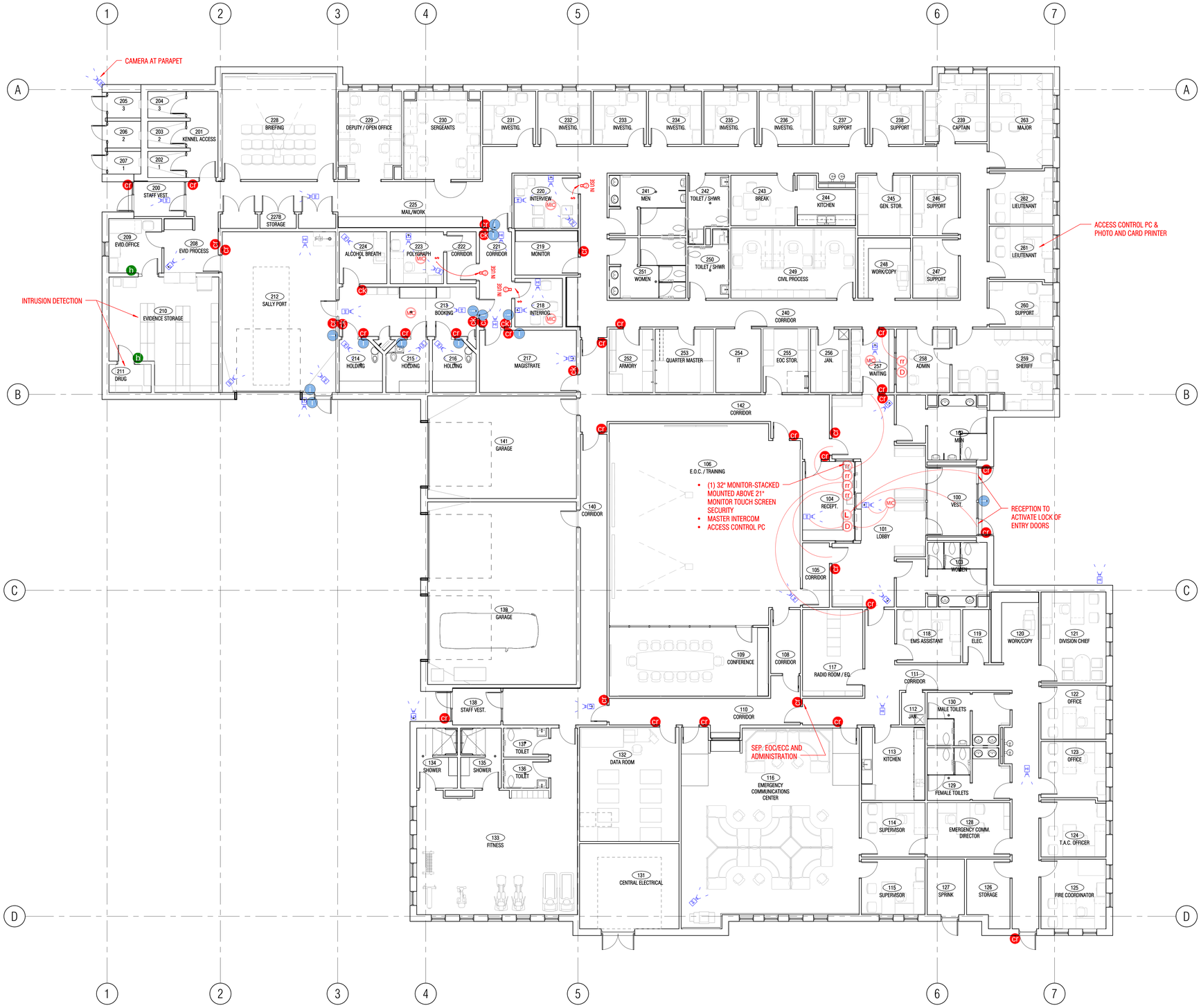

1 SECURITY PLAN

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

SECURITY SYMBOL LEGEND

- cr CARD READER
- b BIOMETRIC READER
- I INTERCOM
- ck CARD READER W/ KEYPAD
- MIC MICROPHONE, CEILING MNTD
- D DURESS, TO DISPATCH & 104
- rr REMOTE RELEASE
- L LOCK
- SECURITY CAMERA

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DINWIDDIE COUNTY SHERRIFF'S OFFICE & FIRE ADMINISTRATION

Date: 9/19/2016

SP101 - SECURITY PLAN

BRINKLEY SARGENT WIGINTON ARCHITECTS

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SPRINKLER NOTE:

THIS CONTRACTOR SHALL PROVIDE NEW SPRINKLER SYSTEM INSTALLATION AS REQUIRED TO SUIT NEW FLOOR PLANS AND REFLECTED CEILING PLANS WITHIN THE ENTIRE BUILDING. SPRINKLER SYSTEM DESIGN, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, STATE, AND LOCAL AUTHORITIES. SPACING AND LOCATION OF SPRINKLERS SHALL NOT EXCEED THAT PERMITTED FOR LIGHT, ORDINARY I AND II HAZARD OCCUPANCY.

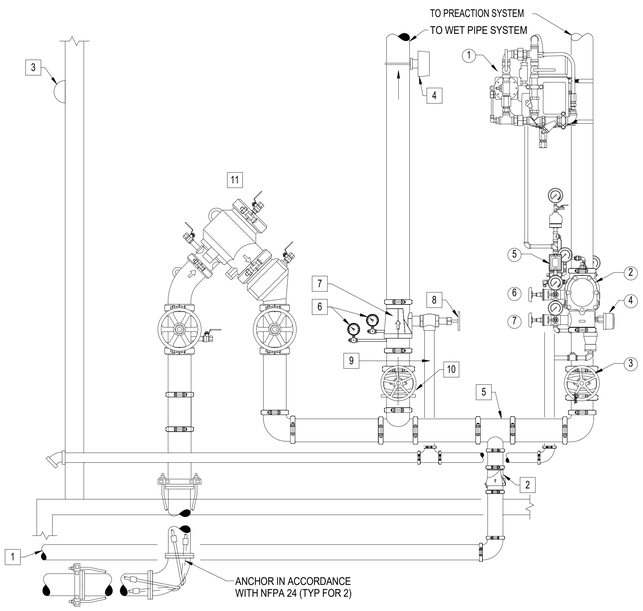
SPRINKLER HEADS SHOWN ON PLANS INDICATE DESIGN INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING QUANTITY OF MATERIALS AND FINAL DESIGN OF THE SYSTEM TO MEET NFPA-13 REQUIREMENTS.

SPRINKLER SCHEDULE:
USE SPRINKLER TYPES BELOW FOR THE FOLLOWING APPLICATIONS:

ROOMS WITHOUT CEILINGS: UPRIGHT SPRINKLERS

ROOMS WITH SUSPENDED CEILINGS: CONCEALED SPRINKLERS

WALL MOUNTING: CONCEALED SIDEWALL SPRINKLERS



SINGLE ZONE WET PIPE & PREACTION SPRINKLER RISER DETAIL

NO SCALE

WET SYSTEM NOTES (TYP)

1. TO FIRE DEPARTMENT CONNECTION (FDC) ON SITE
2. CHECK VALVE
3. ELECTRIC ALARM BELL
4. FLOW SWITCH
5. TEE CONNECTION
6. WATER PRESSURE GAUGE
7. RISER CHECK VALVE
8. MAIN DRAIN VALVE
9. MAIN DRAIN
10. O S & Y GATE VALVE W / SUPERVISORY SWITCH
11. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER

PREACTION SYSTEM NOTES

1. RISER MOUNTED AIR COMPRESSOR W/PRESSURE MAINTENANCE DEVICE
2. PREACTION VALVE (ELECTRO-PNEUMATIC)
3. RISER CONTROL VALVE
4. PRESSURE SWITCH
5. AIR SUPERVISORY PRESSURE SWITCH
6. SYSTEM DRAIN VALVE
7. WATER SUPPLY FLOW TEST VALVE

GENERAL NOTES

SCOPE
CONTRACTOR SHALL DESIGN AND PROVIDE A FULLY AUTOMATIC WET PIPE FIRE EXTINGUISHING SPRINKLER SYSTEM TO PROVIDE COMPLETE COVERAGE THROUGHOUT THIS BUILDING WITH EXCEPTION TO DRY AUTOMATIC SYSTEMS SERVING AREAS SUBJECT TO FREEZING. SPRINKLER SYSTEM DESIGN, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, AND STATE AUTHORITIES. SPRINKLER SYSTEM DESIGN SHALL BE BY HYDRAULIC CALCULATIONS FOR LIGHT HAZARD OCCUPANCY, EXCEPT WHERE REQUIRED BY THE CONSTRUCTION DOCUMENTS, THE AUTHORITY HAVING JURISDICTION, OR NFPA-13.
STANDARDS
FIRE PROTECTION SYSTEMS SHALL COMPLY WITH:

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS
VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC).

GENERAL
ARRANGE AND COMPLETE FINAL INSPECTIONS AND APPROVALS REQUIRED BY OWNER AND ENGINEER.

PROVIDE ADDITIONAL SPRINKLERS, PIPING, FITTINGS, APPURTENANCES, AND ALL OTHER WORK NECESSARY TO ACCOMMODATE ANY INTERIOR DESIGN LAYOUTS WHICH ARE OR MAY BE INCLUDED IN THE WORK. THESE SPRINKLERS AND ASSOCIATED WORK SHALL BE PROVIDED WHERE REQUIRED TO RESOLVE ANY CONFLICTS OR OTHER LAYOUT CHANGES NEEDED TO ACCOMMODATE ALL MISCELLANEOUS ITEMS (I.E. CEILING OFFSETS, SOFFITS, COVES, CODE INSPECTION/INTERPRETATIONS, STRUCTURAL SYSTEM CONFLICTS, ETC.)

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FIRE RATINGS
PENETRATIONS OF FIRE RESISTANT CONSTRUCTION SHALL COMPLY WITH TESTING AGENCY DOCUMENTS, I.E. UL FIRE RESISTANCE DIRECTORY, INCLUDING BUT NOT LIMITED TO SIZE OF HOLE, ANNULAR SPACES, ETC. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH PENETRATION REQUIREMENTS PRIOR TO BEGINNING WORK ON FIRE RESISTANT CONSTRUCTION PENETRATION.

HAZARDS
- ORDINARY II HAZARD INCLUDES BUT IS NOT LIMITED TO ALL STORAGE SPACES, CLOSETS, EQUIPMENT SPACES, ELEVATOR RELATED SPACES, TRASH AND RECYCLE STORAGE SPACES, BOILER AND OTHER SIMILAR FIRED EQUIPMENT.

- ORDINARY I HAZARD INCLUDES BUT IS NOT LIMITED TO UTILITY SPACES, KITCHENS, LAUNDRIES, MECHANICAL ROOMS.

ALL OTHER SPACES WITHIN BUILDING ARE LIGHT HAZARD OCCUPANCY UNLESS OTHERWISE NOTED.

AREAS OF GREATER HAZARD SHALL EXTEND 15' INTO LOWER HAZARD AREAS UNLESS SEPARATED BY A WALL WITH AUTO CLOSING DOORS. REFER TO NFPA 13 FOR SPECIFIC DEFINITIONS OF HAZARDS.

PIPING
ALL PIPING SHALL BE METAL. ALL GROOVED END PIPING SHALL BE APPROVED PRIOR TO INSTALLATION BY OWNER AND ENGINEER.

ALL SCREWED PIPING SHALL BE MIN. SCHEDULE 30 PIPE IN ACCORDANCE WITH SPECIFICATIONS ASTM A120 AND SHALL BE JOINED BY SCREWED JOINTS IN ACCORDANCE WITH SPECIFICATIONS ANSI B2.1.

PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY. THE ENTIRE PIPING SYSTEM SHALL BE FLUSHED CLEAN. THE UNDERGROUND PIPING SHALL BE FLUSHED BEFORE CONNECTION TO ANY ABOVE GROUND PIPING TO REMOVE ANY DEBRIS.

ALL SPRINKLER PIPING & FITTINGS SHALL BE INSTALLED RUST-FREE, AND MAINTAINED RUST-FREE AT ALL TIMES.

FIRE SPRINKLER PIPING SHALL NOT BE LOCATED ABOVE ELECTRICAL PANELBOARDS PER ARTICLE 384-4 OF NFPA 70.

VALVES AND FITTINGS
ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY THE UNDERWRITER'S LABORATORIES, INC. (UL) AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "UL" AND "FM", 175 PSI WORKING PRESSURE.

ALL VALVES ON THE FIRE PROTECTION SYSTEM SHALL BE ELECTRICALLY SUPERVISED. PROVIDE TAMPER SWITCHES. COORDINATE LOCATIONS OF SUPERVISED DEVICES WITH FIRE ALARM CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.

BUTTERFLY VALVES SHALL BE ALLOWED DOWNSTREAM OF THE DISCHARGE SIDE OF THE BACKFLOW PREVENTER.

PLAIN END FITTINGS WITH MECHANICAL COUPLINGS SHALL NOT BE USED.

SPRINKLERS
PUBLIC SPACES SUCH AS LOBBIES, CORRIDORS, SEATING AREAS, INDIVIDUAL OFFICES, BATHROOMS, CONFERENCE ROOMS, ETC. SHALL BE PROVIDED WITH CONCEALED TYPE SPRINKLER HEADS.

PROVIDE SPRINKLER PROTECTION UNDER STAIRS AS REQUIRED BY NFPA 13.

AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS SHALL BE ORDINARY, UNLESS NOTED OTHERWISE.

PROVIDE CABINET AND STOCK OF EXTRA SPRINKLER HEADS OF ALL TYPES USED IN ACCORDANCE WITH NFPA 13.

PROVIDE HEAD GUARDS ON SPRINKLE HEADS IN ELECTRIC, MECHANICAL, GYM, ELEVATOR, TELEPHONE, AND STORAGE ROOMS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ENTERING BUILDING SPRINKLER HEAD INFORMATION INTO THE STATE MANAGED SPRINKLER HEAD DATABASE.

SPRINKLERS ARE TO BE COORDINATED WITH ALL ARCHITECTURAL FEATURES, DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, CEILING SYSTEMS, AND STRUCTURAL SYSTEMS. COORDINATION SHALL RESULT IN CODE COMPLIANT SPRINKLER SYSTEM.

ALARMS AND ATTACHMENTS
COORDINATE ALARM DEVICES WITH FIRE ALARM CONTRACTOR.

PROVIDE FLOW SWITCH WITHOUT RETARD CAPABILITIES FOR SYSTEMS SERVING ELEVATORS AND ELEVATOR MACHINE ROOMS. PROVIDE INSPECTOR'S TEST PROVISION FOR EACH FLOW SWITCH.

PROVIDE SMOOTH BORE CORROSION RESISTANT OUTLETS FOR INSPECTOR'S TEST VALVES GIVING FLOW EQUIVALENT TO 1 SPRINKLER.

SHOP DRAWINGS
FINAL SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED TO OWNER AND ENGINEER. NO INSTALLATION SHALL BE PERMITTED UNTIL SPRINKLER SHOP DRAWINGS HAVE BEEN APPROVED.

INDICATE THE TOTAL SQUARE FOOT AREA PROTECTED BY SYSTEM.

INDICATE THE NUMBER OF SPRINKLERS ON EACH RISER.

CONTRACTOR SHALL VERIFY THE WATER SUPPLY BY PERFORMING A FIRE HYDRANT FLOW TEST PRIOR TO THE DESIGN.

INDICATE ALL CEILING HEIGHTS INCLUDING CHANGES FOR CONDITIONS SUCH AS SOFFITS, BULKHEADS, ETC.

PROVIDE DETAIL AND INDICATE TYPE OF HANGERS TO BE INSTALLED FOR SPRINKLER PIPING. METHODS OF HANGING PIPES, HEADERS, AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13. HANGERS SHALL NOT INTERFERE WITH ANY OTHER TRADES.

LEGENDS & ABBREVIATIONS

- FIRE PROTECTION PIPING
- PA — PRE-ACTION PIPING (PA)
- SMOKE PARTITION
- 1 HOUR FIRE RATED WALL
- 1 HOUR FIRE & SMOKE RATED WALL
- 2 HOUR FIRE RATED WALL
- 2 HOUR FIRE & SMOKE RATED WALL
- FIRE SPRINKLER RISER
- NEW WORK NOTE DESIGNATION
- DETAIL/RISER/ENLARGED PLAN
- SHEET WHERE SHOWN/CUT

AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
FDC	FIRE DEPARTMENT CONNECTION
GPM	GALLONS PER MINUTE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
W/	WITH

HBA ARCHITECTURE & INTERIOR DESIGN, INC.
ONE COLUMBUS CENTER, SUITE 1000
VIRGINIA BEACH, VIRGINIA 23462
PHONE: (757) 490-9048
FAX: (757) 490-7081

DINWIDDIE COUNTY MUNICIPAL FACILITIES
PUBLIC SAFETY BUILDING
DINWIDDIE COUNTY, VIRGINIA

LEGEND, NOTES AND ABBREVIATIONS

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
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WWW.PACE-ENGINEERING.COM

FP001

FIRST FLOOR PLAN

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

NOTES THIS SHEET

1. THIS SPACE SHALL BE DESIGNATED AS ORDINARY HAZARD, GROUP I.
2. THIS SPACE SHALL BE DESIGNATED AS ORDINARY HAZARD, GROUP II.
3. PROVIDE PRE- ACTION AND CLEAN AGENT SYSTEMS TO SERVE THIS AREA.

1ST FLOOR ROOM SCHEDULE

100	VEST.
101	LOBBY
102	MEN
103	WOMEN
104	RECEPT.
105	CORRIDOR
106	E.O.C. / TRAINING
108	CORRIDOR
109	CONFERENCE
110	CORRIDOR
111	CORRIDOR
112	JAN.
113	KITCHEN
114	SUPERVISOR
115	SUPERVISOR
116	EMERGENCY COMMUNICATIONS CENTER
117	RADIO ROOM / EQ.
118	EMS ASSISTANT
119	ELEC.
120	WORK/COPY
121	DIVISION CHIEF
122	OFFICE
123	OFFICE
124	T.A.C. OFFICER
125	FIRE COORDINATOR
126	STORAGE
127	SPRINK
128	EMERGENCY COMM. DIRECTOR
129	FEMALE TOILETS
130	MALE TOILETS
131	CENTRAL ELECTRICAL
132	DATA ROOM
133	FITNESS
134	SHOWER
135	SHOWER
136	TOILET
137	TOILET
138	STAFF VEST.
139	GARAGE
140	CORRIDOR
141	GARAGE
142	CORRIDOR
200	STAFF VEST.
201	KENNEL ACCESS
202	1
203	2
204	3

1ST FLOOR ROOM SCHEDULE

205	3
206	2
207	1
208	EVID PROCESS
209	EVID.OFFICE
210	EVIDENCE STORAGE
211	DRUG
212	SALLY PORT
213	BOOKING
214	HOLDING
215	HOLDING
216	HOLDING
217	MAGISTRATE
218	INTERROG.
219	MONITOR
220	INTERVIEW
221	CORRIDOR
222	CORRIDOR
223	POLYGRAPH
224	ALCOHOL BREATH
225	MAIL/WORK
227B	STORAGE
228	BRIEFING
229	DEPUTY / OPEN OFFICE
230	SERGEANTs
231	INVESTIG.
232	INVESTIG.
233	INVESTIG.
234	INVESTIG.
235	INVESTIG.
236	INVESTIG.
237	SUPPORT
238	SUPPORT
239	CAPTAIN
240	CORRIDOR
241	MEN
242	TOILET / SHWR
243	BREAK
244	KITCHEN
245	GEN. STOR.
246	SUPPORT
247	SUPPORT
248	WORK/COPY
249	CIVIL PROCESS
250	TOILET / SHWR
251	WOMEN
252	ARMORY
253	QUARTER MASTER
254	IT
255	EOC STOR.
256	JAN.
257	WAITING
258	ADMIN
259	SHERIFF
260	SUPPORT
261	LEIUTENANT
262	LIEUTENANT
263	MAJOR

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VIRGINIA BEACH, VIRGINIA 23462
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FAX: (757) 490-7081

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PUBLIC SAFETY BUILDING

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FIRST FLOOR PLAN

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FP-101

RIGID GLASS FIBER PIPE INSULATION SCHEDULE

PIPING SYSTEM	SYSTEM TEMPERATURE RANGE (°F)	PIPING INSULATION THICKNESS		
		LESS 1"	1" TO LESS 1-1/2"	1-1/2" & MORE
DOMESTIC HW	110 - 140	1"	1"	1-1/2"
DOMESTIC CW	48 - 80	1/2"	1/2"	1"
HORIZONTAL RL & ORL	35 - 80	1/2"'	1/2"	1/2"
FLOOR DRAINS	ALL	1/2"	1/2"	1/2"

FIXTURE HW DISCHARGE TEMPERATURES

PLUMBING FIXTURE	MAXIMUM DISCHARGE TEMPERATURE	REFERENCE STANDARD
PUBLIC HAND-WASHING FACILITIES	>85°F & <110°F	ASSE 1070
INDIVIDUAL SHOWER VALVES	<120°F	ASSE 1016 OR CSA B125

NOTE: PROVIDE LISTED TEMPERING DEVICE FOR EACH FIXTURE PER TABLE.

SPRINKLER NOTE:

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SPRINKLER SCHEDULE:
USE SPRINKLER TYPES BELOW FOR THE FOLLOWING APPLICATIONS:

ROOMS WITHOUT CEILINGS: UPRIGHT SPRINKLERS

ROOMS WITH SUSPENDED CEILINGS: CONCEALED SPRINKLER

SPACES SUBJECT TO FREEZING: UPRIGHT, PENDANT, DRY SPRINKLERS; AND SIDEWALL, DRY SPRINKLERS AS INDICATED.

FIRE STOPPING NOTE:

CONTRACTOR SHALL PROVIDE AN APPROPRIATE LISTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY AT EACH PENETRATION OF FIRE RATED CONSTRUCTION (I.E. WALLS AND SLABS, ETC.). FIRE STOPPING OF DUCT PENETRATIONS THROUGH RATED ASSEMBLIES ARE ONLY PERMITTED WHEN FIRE AND/ OR SMOKE DAMPERS ARE NOT REQUIRED. SLEEVES SHALL ONLY BE PERMITTED WHERE INDICATED IN THE CONTRACTOR SELECTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL RATED ASSEMBLIES AND ASSOCIATED UL DESIGNATIONS. DEVICES INSTALLED RECESSED WITHIN FIRE RATED CONSTRUCTION (I.E. LIGHT SWITCHES, RECEPTACLES, ICE MAKER BOXES, ETC.) ARE ONLY PERMITTED WHEN AN APPROVED LISTED FIRE STOPPING SYSTEM EXISTS FOR THE APPLICATION. IF AN APPROVED LISTED FIRE STOPPING SYSTEM IS NOT AVAILABLE, THE CONTRACTOR SHALL BRING THE CONDITION TO THE ATTENTION OF THE A/E FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK.

MECHANICAL EQUIPMENT NOTE:

PROVIDE WATER SUPPLY INCLUDING BACKFLOW PREVENTER WHERE CONNECTION TO CRAC UNITS AND HUMIDFIERS ARE REQUIRED. REFER TO MECHANICAL DRAWINGS.

VENTING NOTE:

PROVIDE A COMPLETE VENTING PIPING SYSTEM FROM FIXTURE GROUPS TO VTR'S ON ROOF.

ROOF DRAINS AND EMERGENCY OVERFLOWS DRAINS:

CONTRACTOR TO PROVIDE A ROOF DRAIN SYSTEM THAT INCLUDES AN EMERGENCY OVERFLOW SYSTEM. THE SYSTEMS WILL BE INSTALLED ACCORDING TO THE 2012 VIRGINIA PLUMBING CODE. THE WORK INCLUDES PIPE, HANGERS AND SUPPORTS AND INSULATION ON ALL HORIZONTAL PIPE. ROOF DRAINS SHALL BE PROVIDED COMPLETE, WITH ROOF SUMP AND UNDERDECK CLAMPS. ALL ROOF DRAIN AND OVERFLOW DRAIN SUMPS SHALL BE INSULATED. OVERFLOW SYSTEMS WILL BE CONVEYED TO GRADE AND DISCHARGE USING DOWNSPOUT NOZZLES. ALL PRODUCTS ARE J.R.SMITH OR EQUAL. HORIZONTAL PIPE WILL BE CONVEYED TO THE SITE AND SHALL BE COORDINATED WITH SITE WORK. PIPE MATERIALS BELOW GRADE SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS. FOAM CORE PIPING IS PROHIBITED. ABOVE GROUND PIPING SHALL BE CAST IRON NO-HUB PIPE AND FITTINGS.

CONTRACTOR SHALL ALLOW FOR THE FOLLOWING:

ADMINISTRATION ROOF

BOARD ROOM ROOF- 3,500 SQ. FT. ALLOW FOR A MINIMUM OF:

2- 4 INCH ROOF DRAINS 1,750 SQ. FT. EACH

MAIN ROOF- 26,035 SQ. FT. ALLOW FOR A MINIMUM OF:

15- 4 INCH ROOF DRAINS 1,750 SQ. FT. EACH,
OR 8- 5 INCH ROOF DRAINS 3255 SQ. FT. EACH,
OR 6- 6 INCH ROOF DRAINS 4,339 SQ. FT. EACH

PUBLIC SAFETY ROOF -23,036 SQ. FT. ALLOW FOR A MINIMUM OF:

13- 4 INCH ROOF DRAINS 1,772 SQ. FT. EACH,
OR 8- 5 INCH ROOF DRAINS 2,879 SQ. FT. EACH,
OR 6- 6 INCH ROOF DRAINS 3,839 SQ. FT. EACH

GENERAL NOTES

ALL PLUMBING VENTS WITHIN A 10'-0" RADIUS OF EXHAUST VENTS SHALL BE EXTENDED TO A HEIGHT OF 2'-0" ABOVE EXHAUST VENT CROWN.

ALL PLUMBING VENTS WITHIN A 10'-0" RADIUS OF ANY ROOF TOP UNIT SHALL BE EXTENDED TO A HEIGHT OF 3'-0" ABOVE THE FRESH AIR INTAKE.

ALL PLUMBING & PLUMBING MATERIALS SHALL MEET THE REQUIREMENTS OF THE STATE & LOCAL PLUMBING CODES.

ALL WALL HYDRANTS SHALL BE MOUNTED 24" ABOVE FINISHED GRADE UNLESS OTHERWISE SPECIFIED.

SLOPES & INVERT ELEVATIONS OF ALL INTERIOR PIPING SHALL BE ESTABLISHED BEFORE ANY PIPING IS INSTALLED, IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. ALL PIPING SHALL BE RUN TO AVOID CONFLICTS WITH OTHER TRADES.

COORDINATE WITH ARCHITECTURAL WORKING DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES.

MAKE PROPER HOT & COLD WATER, HOT WATER RECIRCULATING, WASTE, & VENT PIPING CONNECTIONS TO ALL FIXTURES & EQUIPMENT EVEN THOUGH ALL BRANCHES, FITTINGS & CONNECTIONS ARE NOT SHOWN.

COORDINATE LOCATION OF ALL EQUIPMENT, FIXTURES & PIPING WITH STRUCTURAL & ALL OTHER TRADES. PIPING RUN AC SHALL BE RUN AS HIGH AS POSSIBLE.

ALL OPENINGS IN CEILINGS & PLENUM WALLS FOR PLUMBING PIPES SHALL BE SEALED AIR TIGHT.

SEE SITE PLAN FOR EXTENT OF ALL PIPING LEAVING & ENTERING BUILDING.

ALL HOT & COLD WATER PIPING INDICATED TO RUN ABOVE FINISHED CEILINGS OR IN EXTERIOR WALLS SHALL BE INSTALLED ON THE CONDITIONED SPACE SIDE OF THE BUILDING INSULATION.

SLOPES & INVERT ELEVATIONS OF EXTERIOR SEWERS, MANHOLES, ETC., SHALL BE ESTABLISHED & VERIFIED BY PLUMBING CONTRACTOR BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED & NECESSARY INVERT ELEVATIONS OBTAINED.

PROVIDE AUTOMATIC TRAP PRIMERS FOR ALL FLOOR DRAINS.

IT IS THE INTENTION OF THESE DRAWINGS TO COVER ALL WORK & MATERIAL FOR A COMPLETE FIRST CLASS INSTALLATION. ANY EQUIPMENT, PLUMBING FIXTURE, TRIM HARDWARE &/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED & INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.

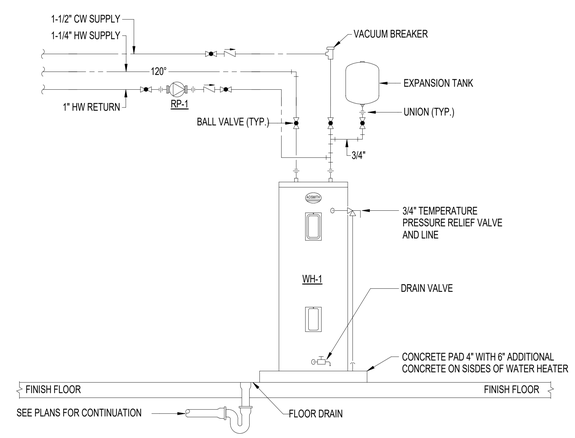
THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS. NOT ALL EQUIPMENT AND APPURTENANCES ARE SHOWN. FAILURE TO FOLLOW THIS STEP SHALL NOT BE A BASIS FOR CHANGE ORDERS.

VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT, PIPING, FIXTURES, ETC.

SEAL AROUND ALL WALL PENETRATIONS AIR TIGHT AT MECHANICAL ROOM, & FILL ANY VOIDS WITH MORTAR.

INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS & ALL APPLICABLE LISTING REQUIREMENTS.

CONTRACTOR SHALL PROVIDE BALL VALVES AT ALL BREACH LINE LOCATIONS OFF DOMESTIC WATER MAIN PIPING. BALL VALVES ARE ALSO REQUIRED AT ALL EQUIPMENT AND WALL HYDRANTS.



WATER HEATER DETAIL (WH-1)

NO SCALE

ELECTRIC WATER HEATER SCHEDULE

MARK	TYPE	LOCATION	STORAGE CAPACITY	ELECTRICAL			EXPANSION TANK		MOUNTING	REMARKS
				KILOWATTS	VOLTS	PHASE	ACCEPTANCE	TOTAL		
WH-1	STORAGE	ROOM 466	200	-	480	3	1.90	4.52	FLOOR	INSTALL PER MANUFACTURER'S RECOMMENDATION.

NOTE: ALL WATER HEATERS WITH AN INPUT OF 200,000 BTUH OR GREATER OR STORAGE VOLUME OF 120 GALLONS OR GREATER SHALL BEAR THE ASME STAMP.

PUMP SCHEDULE

MARK	TYPE	MANUFACTURER	MODEL	LOCATION	VOLTAGE	HP	PHASE	GPM	HEAD	REMARKS
RP-1	RECIRCULATOR	BELL & GOSSET	PL-30	ROOM 466	115	1/4	1	20.0	10	DOMESTIC HOT WATER RECIRCULATION

LEGENDS & ABBREVIATIONS

- FIRE PROTECTION PIPING
- DOMESTIC COLD WATER (CW)
- DOMESTIC HOT WATER (HW)
- DOMESTIC HOT WATER RETURN (HWR)
- SANITARY WASTE PIPE (WP)
- PIPE SLEEVE
- PIPE TURN UP
- PIPE TURN DOWN (DN)
- PIPE CAPPED
- WALL HYDRANT (WH)
- CLEAN OUT (CO)
- WALL CLEAN OUT (WCO)
- REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
- BALANCING VALVE (BV)
- BALL VALVE (BV)
- CHECK VALVE (CV)
- STRAINER
- FLOOR CLEAN OUT (FCO) GROUND CLEAN OUT (GCO)
- FLOOR DRAIN (FD)
- VENT THROUGH ROOF (VTR)
- NEW WORK NOTE DESIGNATION
- DETAIL/RISER/ENLARGED PLAN
- SHEET WHERE SHOWN/CUT

AC	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT COMPLIANT
ASSE	AMERICAN SOCIETY SAFETY ENGINEERS
BF	BELOW FLOOR
CFM	CUBIC FEET PER MINUTE
COMP	COMPARTMENT
DFU	DRAINAGE FIXTURE UNIT
ELEV	ELEVATION
F	FAHRENHEIT
FDC	FIRE DEPARTMENT CONNECTION
FT	FEET
GAL	GALLON
GPM	GALLONS PER MINUTE
HP	HORSE POWER
INV	INVERT
MAX	MAXIMUM
MIN	MINIMUM
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
P-#	PLUMBING FIXTURE MARK
RD	ROOF DRAIN
SFU	SUPPLY FIXTURE UNIT
SQ	SQUARE
TP	AUTOMATIC TRAP PRIMER
TYP	TYPICAL
W/	WITH
WH-#	WATER HEATER MARK
°	DEGREE
Ø	PHASE/DIAMETER

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LEGEND, NOTES, DETAILS AND ABBREVIATIONS

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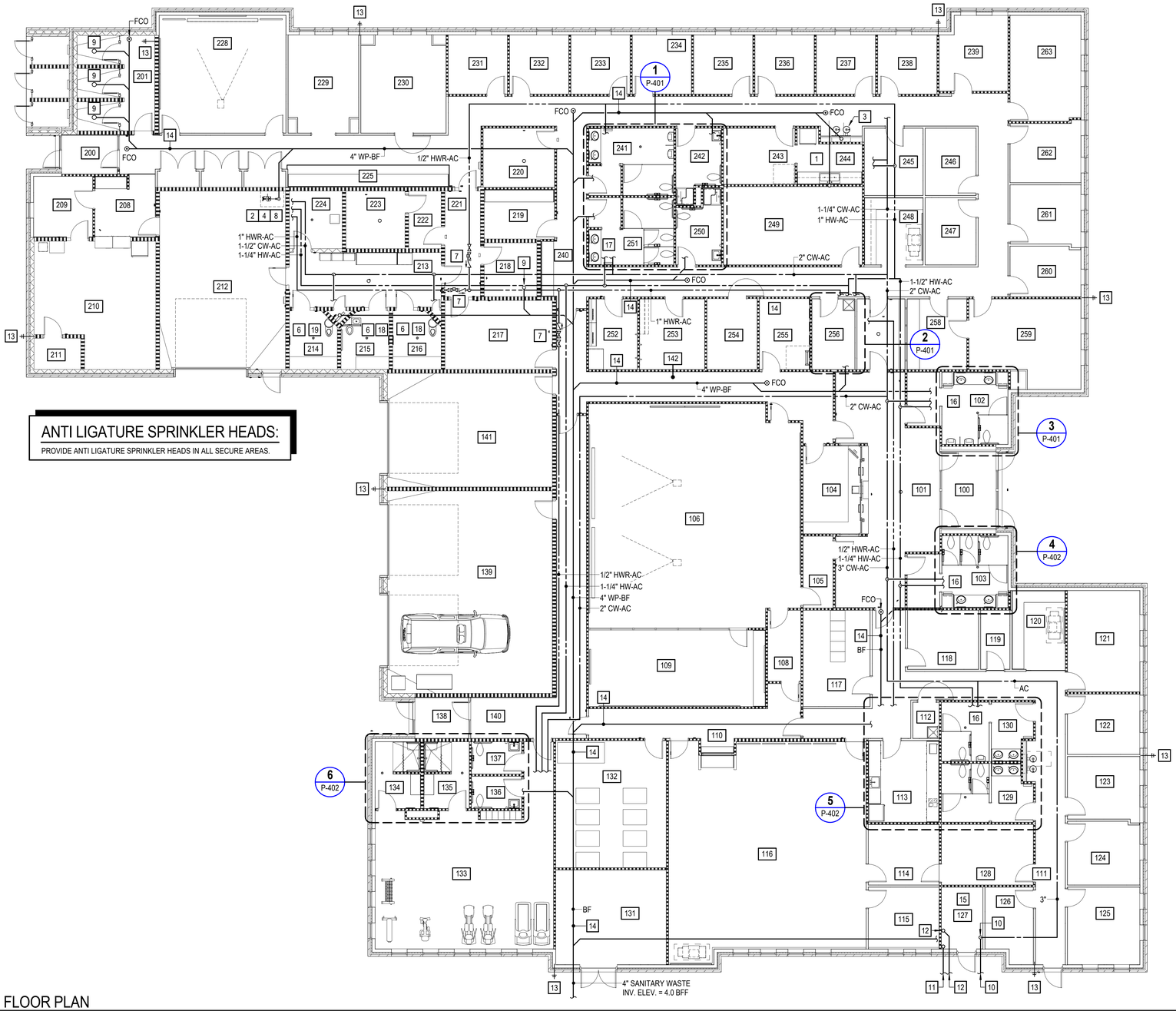

ANTI LIGATURE SPRINKLER HEADS:

PROVIDE ANTI LIGATURE SPRINKLER HEADS IN ALL SECURE AREAS.

FIRST FLOOR PLAN

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

NOTES THIS SHEET

1. PROVIDE ICE MAKER IN REFRIGERATOR WATER BOX. PROVIDE STAINLESS STEEL 2 COMPARMENT ADA SINK, MANUAL FAUCET WITH SPRAY HOSE 1.5 GPM, AND DISHWASHER.
2. PROVIDE DELUXE EMERGENCY SHOWER AND EYEWASH COMPLETE.
3. PROVIDE FOR BI-LEVEL ELKAY SWIRLFLOW WATER COOLER, WITH 1/2" CW SUPPLY, 2" WP-DN AND 2" VP-UP.
4. PROVIDE 20 GPM FLOW TO MIXING VALVE FOR EMERGENCY SHOWER SET MIXING VALVE AT 85 DEGREES.
5. PROVIDE ISOLATION VALVE, CHECK VALVE AND BALANCE VALVE SET AT 20 GPM.
6. PROVIDE COMBINATION STAINLESS STEEL TOILET AND LAVATORY AS INDICATED OF PENAL FIXTURE QUALITY, INCLUDE ALL CONNECTIONS FOR WATER AND SEWER.
7. PROVIDE ISOLATION VALVE, CHECK VALVE AND BALANCE VALVE SET AT 0.5 GPM.
8. PROVIDE 4" FD WITH TRAP PRIMER DEVICE.
9. PROVIDE 3" FD WITH TRAP PRIMER DEVICE.
10. PROVIDE FOR 3" CW SERVICE AND AN RPBP DEVICE IN ROOM, PROVIDE PIPE, STRAINER, AND FLOOR DRAIN.
11. PROVIDE 4" FDC TO 5'-0" OUT OF BUILDING.
12. PROVIDE 6" FIRE MAIN AND AN RBPB DEVICE.
13. PROVIDE WALL HYDRANT AND ISOLATION VALVE, INCLUDING WATER PIPE BACK TO MAINS.
14. PROVIDE 4" SANITARY SEWER BELOW FLOOR ALONG ROUTE SHOWN.
15. PROVIDE 4" FD IN ALL MECHANICAL ROOMS AND TOILETS. PROVIDE TRAP PRMIER DEVICE AND CONNECT TO FD.
16. 1-1/2" CW AND 3/4" HW.
17. 2" CW AND 1" HW.
18. 1" CW TO FIXTURE.
19. 1-1/2" CW TO FIXTURE, 1" CW FOR FIXTURE SUPPLY.

1ST FLOOR ROOM SCHEDULE

100	VEST.
101	LOBBY
102	MEN
103	WOMEN
104	RECEPT.
105	CORRIDOR
106	E.O.C. / TRAINING
108	CORRIDOR
109	CONFERENCE
110	CORRIDOR
111	CORRIDOR
112	JAN.
113	KITCHEN
114	SUPERVISOR
115	SUPERVISOR
116	EMERGENCY COMMUNICATIONS CENTER
117	RADIO ROOM / EQ.
118	EMS ASSISTANT
119	ELEC.
120	WORK/COPY
121	DIVISION CHIEF
122	OFFICE
123	OFFICE
124	T.A.C. OFFICER
125	FIRE COORDINATOR
126	STORAGE
127	SPRINK
128	EMERGENCY COMM. DIRECTOR
129	FEMALE TOILETS
130	MALE TOILETS
131	CENTRAL ELECTRICAL
132	DATA ROOM
133	FITNESS
134	SHOWER
135	SHOWER
136	TOILET
137	TOILET
138	STAFF VEST.
139	GARAGE
140	CORRIDOR
141	GARAGE
142	CORRIDOR
200	STAFF VEST.
201	KENNEL ACCESS
202	1
203	2
204	3

1ST FLOOR ROOM SCHEDULE

205	3
206	2
207	1
208	EVID PROCESS
209	EVID.OFFICE
210	EVIDENCE STORAGE
211	DRUG
212	SALLY PORT
213	BOOKING
214	HOLDING
215	HOLDING
216	HOLDING
217	MAGISTRATE
218	INTERROG.
219	MONITOR
220	INTERVIEW
221	CORRIDOR
222	CORRIDOR
223	POLYGRAPH
224	ALCOHOL BREATH
225	MAIL/WORK
227B	STORAGE
228	BRIEFING
229	DEPUTY / OPEN OFFICE
230	SERGEANTs
231	INVESTIG.
232	INVESTIG.
233	INVESTIG.
234	INVESTIG.
235	INVESTIG.
236	INVESTIG.
237	SUPPORT
238	SUPPORT
239	CAPTAIN
240	CORRIDOR
241	MEN
242	TOILET / SHWR
243	BREAK
244	KITCHEN
245	GEN. STOR.
246	SUPPORT
247	SUPPORT
248	WORK/COPY
249	CIVIL PROCESS
250	TOILET / SHWR
251	WOMEN
252	ARMORY
253	QUARTER MASTER
254	IT
255	EOC STOR.
256	JAN.
257	WAITING
258	ADMIN
259	SHERIFF
260	SUPPORT
261	LEIUTENANT
262	LIEUTENANT
263	MAJOR

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

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FIRST FLOOR PLAN

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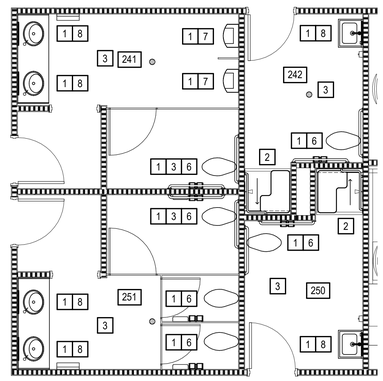
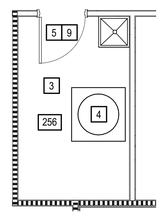
P-101

NOTES THIS SHEET

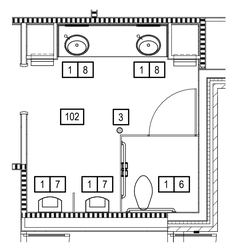
1. PROVIDE FLOOR MOUNTED FLUSH VALVE TOILETS.
   SENSOR OPERATED FLUSH VALVES 1.28 GPF.
   PROVIDE LAVATORIES WITH SENSOR OPERATED FAUCETS 0.5 GPM.
   PROVIDE URINAL WITH SENSOR OPERATED FLUSH VALVE .0125 GPF.
2. PROVIDE SHOWERS COMPLETE WITH ASSE APPROVED PRESSURE BALANCE SHOWER VALVES.
   PROVIDE ADA WAND, BAR AND 5FT HOSE WHERE REQUIRED.
3. PROVIDE 4" FD IN ALL MECHANICAL ROOMS AND TOILETS, PROVIDE TRAP PRIMER DEVICE AND CONNECT TO FD.
4. PROVIDE 200 GALLON ELECTRIC WATER HEATER WH-1 ON PAD WITH RECIRCULATOR PUMP RP-1,
   PROVIDE FLOOR DRAIN FOR RELIEF LINE AND DRAIN PAN.
5. PROVIDE 24" x 24" x 10" MOP SINK AND FAUCET WITH ALL WATER AND WASTE CONNECTIONS TO MAINS.
6. PROVIDE 1" SUPPLY TO TOILETS.
7. PROVIDE 3/4" SUPPLY TO URINALS.
8. PROVIDE 1/2" HW AND 1/2" CW TO LAVATORIES.
9. PROVIDE 3/4" HW AND 3/4" CW TO MOP SINK.



1 / P-101 FIRST FLOOR NEW WORK ENLARGED PLAN - TOILETS
SCALE: 1/4" = 1'-0"



2 / P-101 FIRST FLOOR NEW WORK ENLARGED PLAN - JANITOR CLOSET
SCALE: 1/4" = 1'-0"



3 / P-101 FIRST FLOOR NEW WORK ENLARGED PLAN - MEN TOILETS
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE:
1/4" = 1'-0" 5' 0' 5' 10'

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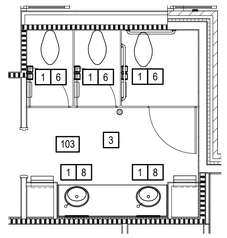
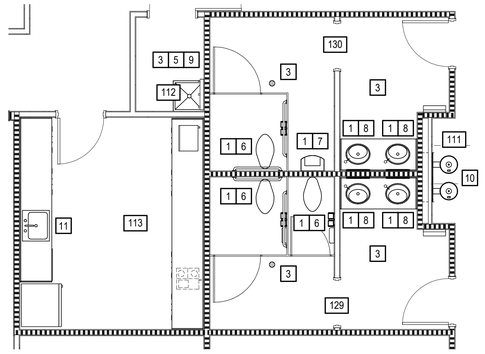
NOTES THIS SHEET

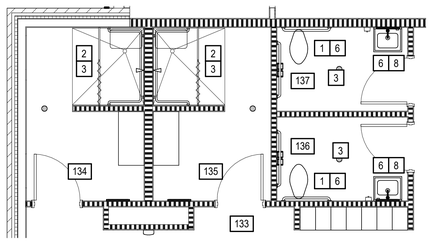
1. PROVIDE FOR FLOOR MOUNTED FLUSH VALVE TOILETS,
   SENSOR OPERATED FLUSH VALVES 1.28 GPF.
   PROVIDE LAVATORIES WITH SENSOR OPERATED FAUCETS 0.5 GPM.
   PROVIDE URINAL WITH SENSOR OPERATED FLUSH VALVE 0.125 GPF.
2. PROVIDE SHOWERS COMPLETE WITH ASSE APPROVED PRESSURE BALANCE SHOWER VALVES. PROVIDE ADA WAND, BAR AND 5FT HOSE WHERE REQUIRED.
3. PROVIDE 4" FD IN ALL MECHANICAL ROOMS AND TOILETS, PROVIDE TRAP PRIMER DEVICE AND CONNECT TO FD.
4. PROVIDE 200 GALLON ELECTRIC WATER HEATER ON PAD WITH RECIRCULATOR PUMP, PROVIDE FLOOR DRAIN FOR RELIEF LINE AND DRAIN PAN.
5. PROVIDE 24" x 24" x 10" MOP SINK AND FAUCET WITH ALL WATER AND WASTE CONNECTIONS TO MAINS.
6. PROVIDE 1" SUPPLY TO TOILETS.
7. PROVIDE 3/4" SUPPLY TO URINALS.
8. PROVIDE 1/2" HW AND 1/2" CW TO LAVATORIES.
9. PROVIDE 3/4" HW AND 3/4" CW TO MOP SINK.
10. PROVIDE BI-LEVEL ELKAY SWIRLFLOW WATER COOLER. 1/2" CW SUPPLY, 2 WP-DN AND 2" VP-UP.
11. PROVIDE ICE MAKER IN REFRIGERATOR WATER BOX.
    PROVIDE STAINLESS STEEL ADA SINK, MANUAL FAUCET WITH SPRAY HOSE 1.5 GPM, AND DISHWASHER.



4 P-101 FIRST FLOOR NEW WORK ENLARGED PLAN - WOMEN TOILETS
SCALE: 1/4" = 1'-0"



5 P-101 FIRST FLOOR NEW WORK ENLARGED PLAN - MEN/WOMEN TOILETS & JANITOR CLOSET/KITCHEN
SCALE: 1/4" = 1'-0"



6 P-101 FIRST FLOOR NEW WORK ENLARGED PLAN - MEN/WOMEN TOILETS & SHOWERS
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE:
1/4" = 1'-0"
5' 0' 5' 10'

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GENERAL NOTES

GENERAL ITEMS

GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH HVAC DRAWING OF THIS SET. SEE EACH DRAWING FOR SPECIFIC NOTES APPLICABLE TO THAT DRAWING.

COORDINATE THAT OUTSIDE AIR INTAKE OPENINGS FOR VENTILATION AIR ARE LOCATED AT LEAST 10 FEET MEASURED IN ANY DIRECTION FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SOURCE SUCH AS FLUES, VENTS, CHIMNEYS, GAS METERS, GAS REGULATORS, PLUMBING VENTS, ETC., UNLESS TOP OF SUCH INTAKE OPENING IS 3 FEET OR GREATER BELOW ANY OF THE LISTED ITEMS.

OVERHEAD PIPING IN SPACES WITHOUT HUNG CEILINGS SHALL BE RUN AS CLOSE TO ROOF DECK AS PRACTICAL, AS CLOSE TO PARALLEL JOISTS AS POSSIBLE AND ABOVE LIGHTING FIXTURES TO CONCEAL PIPING.

OVERHEAD DUCTWORK AND PIPING IN SPACES WITH CEILINGS SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

PROVIDE PIPE SLEEVES LARGE ENOUGH TO ALLOW FOR REQUIRED LATERAL MOVEMENT OF PIPING.

EXERCISE DUE CAUTION IN INSTALLING RUNOUTS AND BRANCH PIPING FROM MAINS FOR EXPANSION MOVEMENT.

COORDINATE LOCATION OF GRILLES, REGISTERS, DIFFUSERS, THERMOSTATS AND OTHER WALL OR CEILING MOUNTED HVAC ACCESSORIES WITH REFLECTED CEILING PLAN, LIGHTING FIXTURE LAYOUT AND ACCESSORIES INSTALLED BY OTHER TRADES SO AS TO PRESENT A NEAT AND ATTRACTIVE INSTALLATION THROUGHOUT THE ENTIRE BUILDING. IT IS THE INTENT FOR GRILLES, REGISTERS AND DIFFUSERS TO BE INSTALLED IN THE CENTER OF CEILING PANELS.

EQUIPMENT ON THE ROOF SHALL BE INSTALLED SO AT LEAST 10 FEET OF CLEARANCE SHALL BE MAINTAINED BETWEEN EQUIPMENT AND THE ROOF EDGE.

THE DIAMETER OF THE SUPPLY PIPE AT ANY GAS FIRED EQUIPMENT SHALL NOT BE OF A SMALLER SIZE THAN THE INLET CONNECTION TO THE EQUIPMENT.

ARRANGE PIPING AND DUCTWORK, PARTICULARLY ABOVE CEILING AS REQUIRED TO CLEAR STRUCTURE, DUCTS, CONDUITS, ETC. ALLOWING SPACE FOR PIPE HANGERS, EXPANSION LOOPS AND ACCESS TO VALVES, FILTERS, AND MAINTENANCE OF EQUIPMENT.

CONTRACTOR SHALL VERIFY REFRIGERANT PIPE SIZES WITH EQUIPMENT MANUFACTURER FOR THE INDICATED INSTALLATION.

COORDINATE LOCATION AND INSTALLATION OF EQUIPMENT WITH OTHER TRADES.

PROVIDE STANDARD EMERGENCY CUT-OFF SWITCH FOR EACH OIL (GAS) BURNER NEAR THE BOILER ROOM OR EQUIPMENT ROOM DOOR.

DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, ETC.

THERMOSTATS AND/OR TEMPERATURE SENSORS SHALL BE LOCATED IN THE ROOMS INDICATED. INSTALL AT APPROX. 46" ABOVE FINISH FLOOR TO MATCH THE HEIGHT OF WALL SWITCHES OR OTHER WALL MOUNTED DEVICES.

PIPING, DUCTWORK, VENTS, ETC., EXTENDING THROUGH EXTERIOR WALLS AND ROOF SHALL BE FLASHED AND COUNTER FLASHED IN A WEATHERPROOF MANNER.

CONCRETE BASES FOR PUMPS SHALL:
- EXTEND 4" ON EACH SIDE BEYOND THE PUMPS BASE
- BE SECURELY BOLTED AND GROUTED TO THE PUMPS
- BE LOCATED A MINIMUM OF ONE PUMP BASE WIDTH APART
- BE 4" THICK.

VALVES AND SPECIALTIES SHALL BE LINE SIZE EXCEPT FOR CONTROL VALVES OR UNLESS NOTED OTHERWISE.

EXTEND DRAIN LINES TO NEAREST FLOOR DRAIN OR AS INDICATED. ROUTING SHALL NOT INTERFERE WITH PASSAGEWAYS AND MAINTENANCE. DRAINS FROM AIR CONDITIONING CONDENSATE DRAIN PANS SHALL BE TRAPPED. SLOPE CONDENSATE DRAIN PIPING AT 1/4" PER FOOT. VERIFY INVERT IS ESTABLISHED AFTER AIR HANDLING UNIT IS INSTALLED BUT PRIOR TO DUCTWORK INSTALLATION.

ROOFTOP UNITS AND OTHER EQUIPMENT CONTAINING AIR CONDITIONING COILS WHICH DO NOT HAVE A SECONDARY DRAIN OR AUXILIARY DRAIN PAN SHALL BE FITTED WITH A WATER LEVEL SENSOR IN THE PRIMARY DRAIN PAN. THE SENSOR SHALL BE WIRED TO DE-ENERGIZE THE EQUIPMENT IF WATER RISES ABOVE THE DRAIN OUTLET.

PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH NON-RATED FLOORS, WALLS, ROOF AND PARTITIONS, UNLESS OTHERWISE INDICATED.

NO PIPING SHALL BE SMALLER THAN (1/2") 3/4" UNLESS OTHERWISE NOTED.

RUNOUTS SHALL PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF 1" IN 3'.

COOLING TOWER BASIN OUTLET CENTER LINE SHALL BE LOCATED A MINIMUM OF 3'-0" ABOVE CONDENSER WATER PUMP SUCTION CENTER LINE.

FOR PIPE SIZES NOT INDICATED ON PLANS, SEE EQUIPMENT CONNECTION DETAILS, FLOW DIAGRAMS AND RISER DIAGRAMS AND PIPE SIZING SCHEDULE.

PROVIDE UNION OR FLANGED CONNECTIONS AT EACH PIECE OF EQUIPMENT AND ON BOTH SIDES OF CONTROL VALVES AND PRESSURE REGULATING VALVES. PROVIDE SHUT-OFF VALVES ON BOTH SIDES OF AUTOMATIC VALVES.

RELIEF VALVE PIPING SHALL BE EXTENDED TO THE NEAREST FLOOR DRAIN.

FLOOR MOUNTED EQUIPMENT IN THE MECHANICAL ROOMS SHALL BE LOCATED ON (4") 6" THICK CONCRETE HOUSEKEEPING PADS UNLESS OTHERWISE INDICATED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL SUPPORTS OR HANGERS SHALL BE ADJACENT TO ELBOWS, TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT.

CORRECT SETTING ON BALANCING FITTINGS SHALL BE PERMANENTLY MARKED.

INSTALL ANCHORS AND EXPANSION LOOPS WHERE INDICATED AND WHERE REQUIRED TO ALLOW FOR EXPANSION.

LOCATE AND SIZE CONCRETE PADS AND CURBS FOR MECHANICAL EQUIPMENT IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED.

FOR LOCATION OF MOTOR STARTERS, SEE ELECTRICAL DRAWINGS.

THROUGH-PENETRATION FIRESTOP ASSEMBLIES

PROVIDE APPROVED UL LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS FOR DUCTWORK AND PIPE PENETRATIONS THROUGH RATED ASSEMBLIES. REVIEW ARCHITECTURAL DRAWINGS FOR FIRE PARTITION LOCATIONS AND UL LISTINGS.

SHEET METAL

PROVIDE INTERNAL SOUND ABSORPTIVE DUCT LINING FOR EXTENT NOTED. DUCT DIMENSIONS ARE CLEAR INSIDE DUCT LINING DIMENSIONS.

PROVIDE ACCESS DOORS IN DUCTWORK WHERE INDICATED OR REQUIRED FOR ACCESS TO SYSTEM COMPONENTS INCLUDING THE FOLLOWING:
- DAMPER MOTORS AND/OR MOTOR OPERATED DAMPERS
- HUMIDIFIERS
- FILTERS
- BOTH SIDES OF HEATING AND COOLING COILS
- FAN BEARINGS ENCLOSED IN DUCTS OR PLENUMS
- FIRE DAMPERS AND SMOKE DAMPERS
- CONTROL DAMPERS
- SMOKE DETECTORS

HIGH SIDEWALL REGISTERS OR GRILLES SHALL BE LOCATED 6" FROM CEILING TO TOP OF REGISTER OR GRILLE.

FLOOR SIDEWALL REGISTERS OR GRILLES SHALL BE LOCATED 12" FROM BOTTOM OF REGISTER OR GRILLE TO FINISHED FLOOR.

INSTALL FLOOR REGISTERS AND CEILING REGISTERS A MINIMUM OF 4" FROM EXTERIOR WALL.

SPACE ABOVE CEILING IS TO BE USED AS A RETURN AIR PLENUM WHERE DUCTWORK IS NOT INDICATED ABOVE RETURN AIR GRILLES.

PROVIDE A MINIMUM OF THREE TIMES THE FAN DIAMETER OF STRAIGHT DUCTWORK OFF THE SUPPLY AIR FAN DISCHARGE BEFORE ANY TAKEOFFS OR ELBOWS.

DUCTWORK UPSTREAM OF VAV TERMINAL UNITS SHALL BE CONSTRUCTED TO THE SMACNA STATIC PRESSURE CLASSIFICATION OF 4 IN. WG AND SEAL CLASS "A". OTHER DUCTWORK SHALL BE CONSTRUCTED TO THE SMACNA STATIC PRESSURE CLASSIFICATION OF 2 IN. WG AND SEAL CLASS "B".

PROVIDE EXTENDED VOLUME DAMPER CONTROL RODS SO THAT HANDLES ARE WELL CLEAR OF DUCT INSULATION.

MAINTENANCE

EQUIPMENT WITH FILTERS SHALL BE INSTALLED SO THAT FILTERS CAN BE EASILY REMOVED AND REPLACED.

EQUIPMENT INSTALLED ABOVE CEILINGS SHALL BE MOUNTED APPROX. 12" ABOVE CEILING (UON) FOR MAINTENANCE ACCESS.

INSTALL PIPE RUNS AT LEAST 6" ABOVE CEILING TILES. WHERE PRACTICAL INSTALL VALVES, AND OTHER MAINTAINABLE DEVICES LOW ENOUGH TO REACH WITH A 6' LADDER.

PROVIDE ACCESS TO ANY INSPECTION OR MAINTAINABLE DEVICE, EQUIPMENT, ETC. - ACCESS OR ACCESS DOOR SHALL BE OF ADEQUATE SIZE TO WORK ON DEVICE.

EXAMINE MANUFACTURER'S LITERATURE TO DETERMINE RECOMMENDED CLEARANCES. THESE CLEARANCES SHALL BE ESTABLISHED AND MAINTAINED. THIS APPLIES TO NEW AND EXISTING EQUIPMENT IMPACTED BY THIS PROJECT AS WELL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE REQUIREMENTS WITH ALL OTHER TRADES.

LEGEND and ABBREVIATIONS

1	NEW WORK NOTE DESIGNATION
	SECTION
	SHEET WHERE SECTION IS SHOWN
	SHEET WHERE SECTION IS CUT
CU-1	CONDENSING UNIT DESIGNATION
CUH-1	CABINET UNIT HEATER DESIGNATION
CRAC-1	COMPUTER ROOM AIR HANDLING UNIT DESIGNATION
CP-1	CONDENSATE PUMP DESIGNATION
DU-1	DEHUMIDIFICATION UNIT DESIGNATION
EF-1	EXHAUST FAN DESIGNATION
EUH-1	ELECTRIC UNIT HEATER DESIGNATION
FPVAV-1	FAN POWERED VARIABLE AIR VOLUME DESIGNATION
RTU-1	ROOFTOP AIR HANDLING UNIT DESIGNATION

FS	FAN SWITCH
H	WALL HUMIDISTAT
T	WALL THERMOSTAT
T N	WALL THERMOSTAT WITH NIGHT SET-BACK
BDD	BACKDRAFT DAMPER
M	MOTORIZED DAMPER
	VOLUME DAMPER
D	DOOR LOUVER
UC	DOOR UNDERCUT (1")
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
F/S	FIRE / SMOKE DAMPER [120 VOLT]
S	SMOKE DETECTOR
X 200	GRILLE, REGISTER OR DIFFUSER MARK (CFM AS INDICATED)
	SUPPLY AIR/OUTSIDE AIR DUCT SECTION
	RETURN/EXHAUST DUCT SECTION
	SUPPLY AIR/OUTSIDE AIR DUCT SECTION THROUGH ROOF
	RETURN/EXHAUST DUCT SECTION THROUGH ROOF
	DUCT TURNING UP
	DUCT TURNING DOWN
	CEILING DIFFUSER WITH FLEXIBLE DUCTWORK
	RETURN/EXHAUST REGISTER
	MITERED ELBOW WITH TURNING VANES
	FLEXIBLE DUCT CONNECTOR
	DUCT MOUNTED HUMIDIFIER
	FLEXIBLE PIPE CONNECTOR
	PIPE TURNING UP
	PIPE TURNING DOWN
	PIPE GUIDE
	PIPE ANCHOR
	DIRECTION OF PITCH DOWN
	DIRECTION OF FLOW
D	CONDENSATE DRAIN
RL	REFRIGERANT LIQUID PIPING
RS	REFRIGERANT SUCTION PIPING

A.F.F.	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
APPROX.	APPROXIMATELY
CALC.	CALCULATED
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CSR	CURRENT SENSING RELAY
db	DECIBELS
DB	DRY BULB TEMPERATURE
E.A.	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EL.	ELEVATION
EWB	ENTERING WET BULB TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
FA	FREE AREA
FLA	FULL LOAD AMPS
F.O.B.	FLAT ON BOTTOM
F.O.T.	FLAT ON TOP
FPM	FEET PER MINUTE
FT	FEET
FV	FACE VELOCITY
HD	HEAD
HP	HORSEPOWER
IN.	INCH
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MIN CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAX OVERCURRENT PROTECTION
NC	NOISE CRITERIA
O.A.	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PSIG	POUND PER SQUARE INCH GAUGE
P.D.	PRESSURE DROP
RPM	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATING
SENS.	SENSIBLE
SF	SQUARE FEET
TSP	TOTAL STATIC PRESSURE
(TYP)	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
ø	PHASE/DIAMETER
°F	DEGREE FAHRENHEIT

REFRIGERANT PIPING SIZING/ROUTING NOTES:

1. REFRIGERANT PIPING SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. REFRIGERANT PIPING ROUTING IS DIAGRAMMATIC, SYSTEMS SHALL BE INSTALLED PER ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

RETURN AIR PLENUM NOTE:

THE AREA ABOVE THE CEILING SHALL BE USED AS A RETURN AIR PLENUM FOR THIS PROJECT. AIR WILL BE ROUTED THROUGH RETURN/TRANSFER GRILLES. ALL MATERIALS USED WITHIN THE RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR COMPLY WITH VIRGINIA MECHANICAL CODE SECTION 602 IN ALL RESPECTS.

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LEGEND, NOTES AND ABBREVIATIONS

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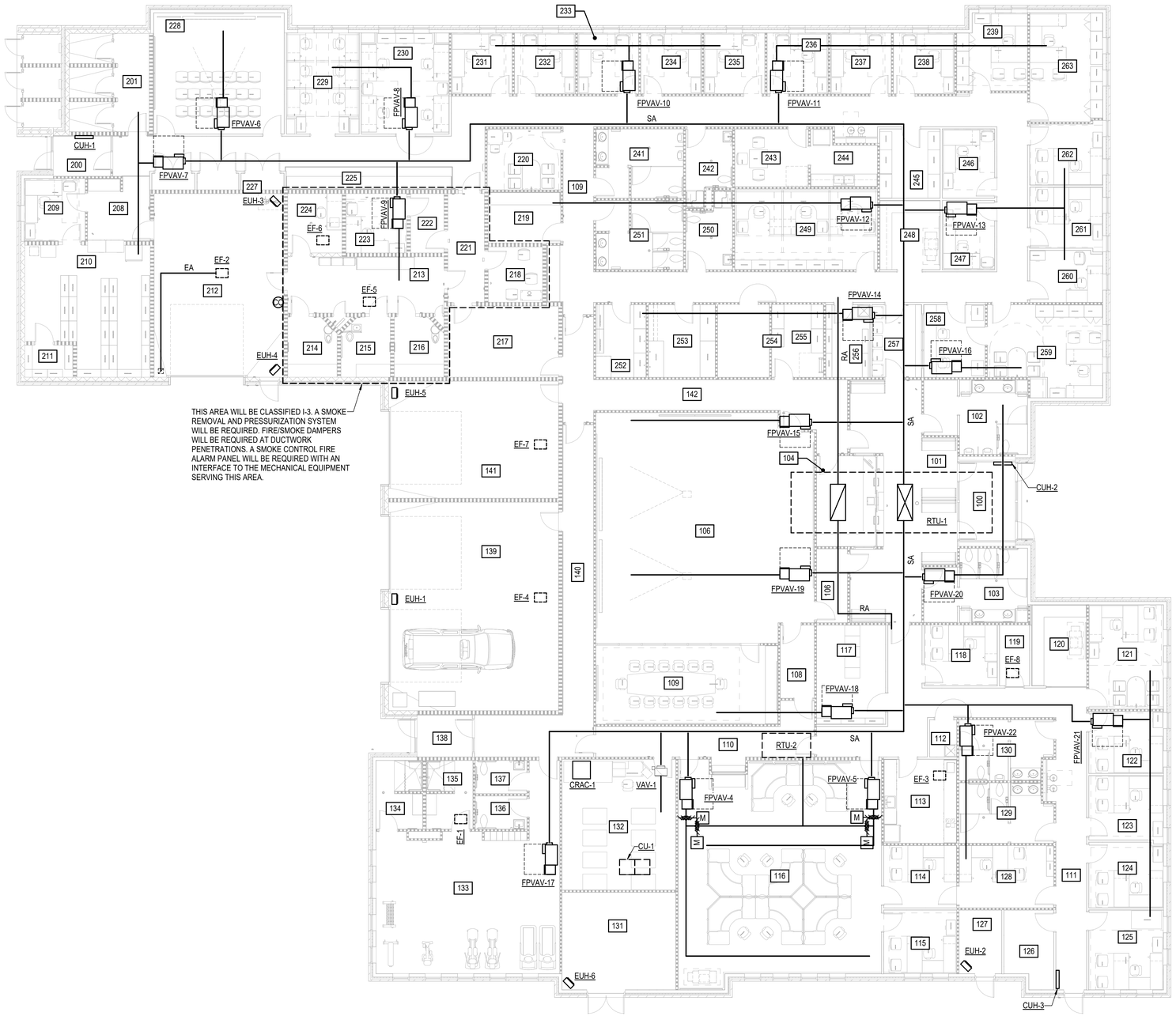

FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

1ST FLOOR ROOM SCHEDULE

100	VEST.
101	LOBBY
102	MEN
103	WOMEN
104	RECEPT.
106	
108	CORRIDOR
109	CORRIDOR
110	CORRIDOR
111	CORRIDOR
112	JAN.
113	KITCHEN
114	SUPERVISOR
115	SUPERVISOR
116	EMERGENCY COMMUNICATIONS CENTER
117	RADIO ROOM / EQ.
118	EMS ASSISTANT
119	ELEC.
120	WORK/COPY
121	FIRE COORDINATOR
122	T.A.C. OFFICER
123	EMERGENCY COMM. DIRECTOR
124	T.A.C. OFFICER
125	DIVISION CHIEF
126	STORAGE
127	SPRINK
128	OFFICE
129	FEMALE TOILETS
130	MALE TOILETS
131	CENTRAL ELECTRICAL
132	DATA ROOM
133	FITNESS
134	SHOWER
135	SHOWER
136	TOILET
137	TOILET
138	STAFF VEST.
139	STAFF VEST.
140	CORRIDOR
141	EXERCISE
142	CORRIDOR
200	STAFF VEST.
201	KENNEL ACCESS
208	EVID PROCESS
209	EVID.OFFICE
210	EVIDENCE STORAGE
211	DRUG
212	SALLY PORT

1ST FLOOR ROOM SCHEDULE

213	BOOKING
214	HOLDING
215	HOLDING
216	HOLDING
217	MAGISTRATE
218	INTERROG.
219	MONITOR
220	INTERVIEW
221	CORRIDOR
222	CORRIDOR
223	POLYGRAPH
224	ALCOHOL BREATH
225	MAIL/WORK
227	ELEC
228	BRIEFING
229	DEPUTY / OPEN OFFICE
230	SERGEANTs
231	INVESTIG.
232	INVESTIG.
233	INVESTIG.
234	INVESTIG.
235	INVESTIG.
236	INVESTIG.
237	SUPPORT
238	SUPPORT
239	CAPTAIN
241	MEN
242	TOILET / SHWR
243	BREAK
244	KITCHEN
245	GEN. STOR.
246	SUPPORT
247	SUPPORT
248	WORK / COPY
249	CIVIL PROCESS
250	TOILET / SHWR
251	WOMEN
252	ARMORY
253	QUARTER MASTER
254	IT
255	EOC STOR.
256	JAN
258	SECRETARY
259	SHERIFF
260	SUPPORT
261	LEIUTENANT
262	LIEUTENANT
263	MAJOR

GRAPHIC SCALE:
1/8" = 1'-0" 5' 0' 5' 10' 20'

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FIRST FLOOR PLAN

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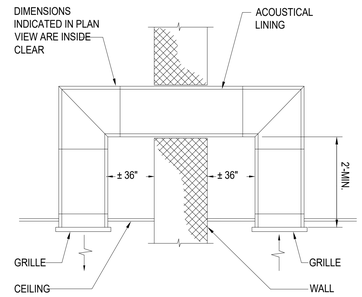
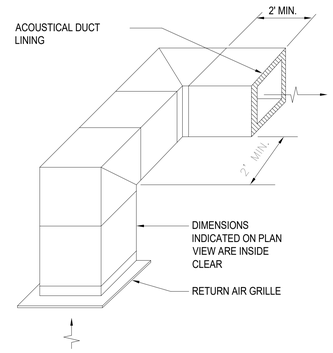


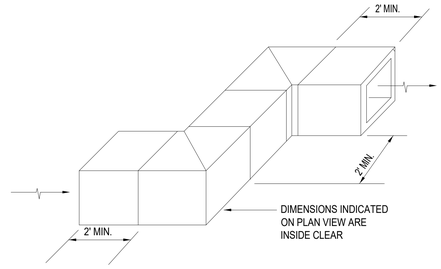
TRANSFER DUCT DETAIL (SECTION)

NO SCALE



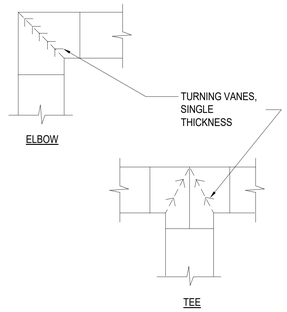
TRANSFER DUCT DETAIL (ISOMETRIC)

NO SCALE



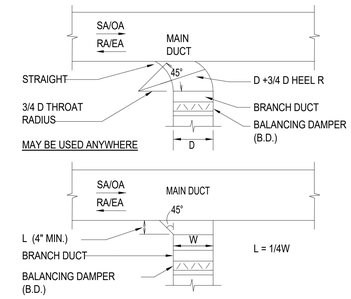
TRANSFER DUCT DETAIL "Z"

NO SCALE

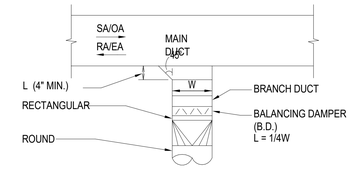


DUCTWORK FITTING DETAIL

NO SCALE



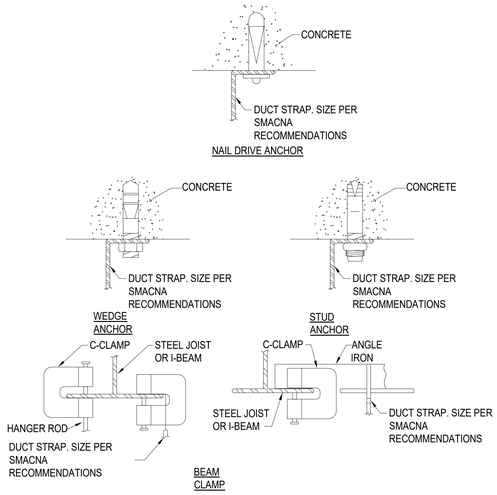
USE ONLY WHERE RECTANGULAR RUN-OUTS ARE INDICATED ON DRAWINGS



USE ONLY WHERE ROUND RUN-OUTS ARE INDICATED ON DRAWINGS

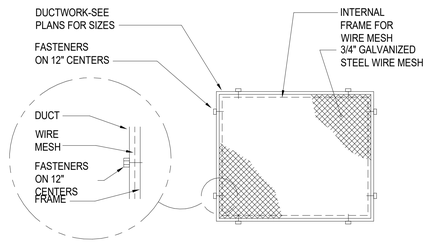
TYPICAL BRANCH CONNECTION

NO SCALE



DUCTWORK UPPER ATTACHMENTS

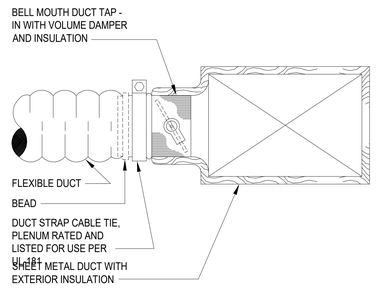
NO SCALE



NOTE: SECURE FRAME TO DUCT AND MESH TO FRAME.

OPEN END DUCT WIRE MESH DETAIL

NO SCALE



FLEXIBLE DUCT INSTALLATION DETAIL

NO SCALE

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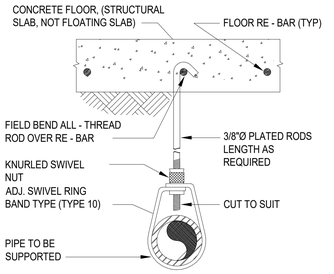
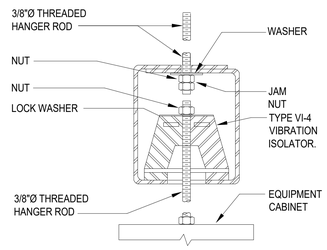


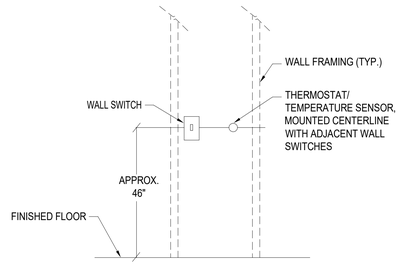
(FOR USE ONLY WHERE SOIL BENEATH STRUCTURAL SLAB IS EXPECTED TO SETTLE BASED ON GEOTECHNICAL INFORMATION)

NOTE: HANGERS TO BE SPACED AS FOR SUSPENDED PIPING WITH ALLOWANCE FOR SOIL AND CONCRETE LOADS AND AT ALL VERTICAL RISERS AND CLEANOUTS. FOR HORIZONTAL RUNS MAXIMUM SPACING IS 5'-0" O.C. FOR 5'-0" LENGTHS, 10'-0" O.C. FOR LONGER SECTIONS.

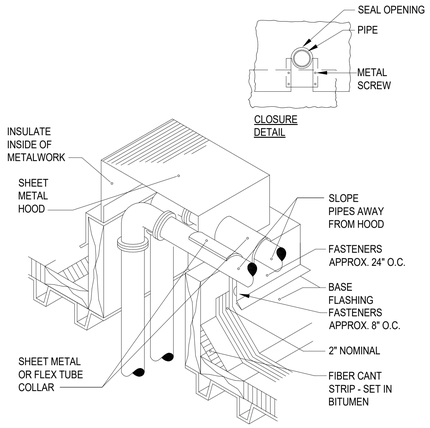
PIPE SUPPORT DETAIL
NO SCALE



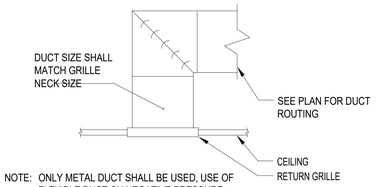
VIBRATION ISOLATOR DETAIL
NO SCALE



SWITCH/THERMOSTAT MOUNTING HEIGHT DETAIL
NO SCALE

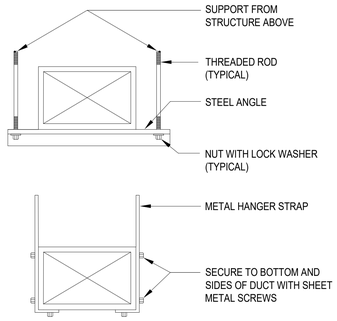


TYPICAL PITCH POCKET DETAIL
NO SCALE



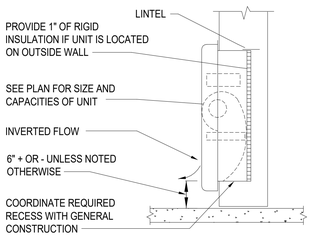
NOTE: ONLY METAL DUCT SHALL BE USED, USE OF FLEXIBLE DUCT ON NEGATIVE PRESSURE SYSTEMS IS NOT PERMITTED.

RETURN/EXHAUST GRILLE INSTALLATION DETAIL
NO SCALE

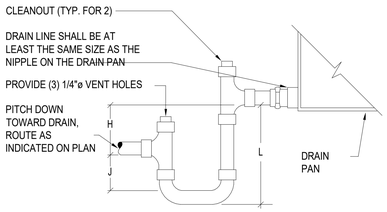


NOTE: FOR ANGLE SIZE AND HANGER STRAP GAUGE, SEE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS.

DUCT SUPPORT DETAIL
NO SCALE



CABINET HEATER DETAIL
NO SCALE



DRAIN PAN TRAPPING FOR SECTION UNDER NEGATIVE PRESSURE:

L = H + J + PIPE DIAMETER WHERE:

H = 1 INCH FOR EACH INCH OF NEGATIVE PRESSURE PLUS 1 INCH

J = 1/2 H

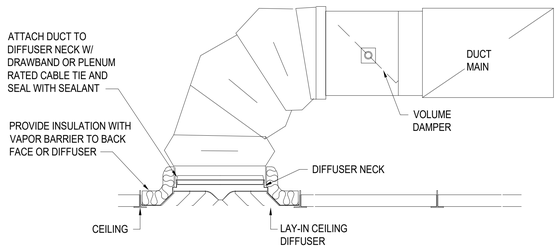
DRAIN PAN TRAPPING FOR SECTION UNDER POSITIVE PRESSURE:

L = H + J + PIPE DIAMETER WHERE:

H = 1/2 INCH (MINIMUM)

J = 1/2 INCH PLUS THE UNIT POSITIVE STATIC PRESSURE AT COIL DISCHARGE (LOADED FILTERS)

CONDENSATE DRAIN TRAP DETAIL
NO SCALE



TYPICAL LAY-IN SUPPLY DIFFUSER DETAIL
NO SCALE

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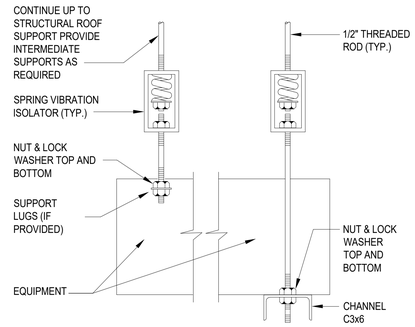
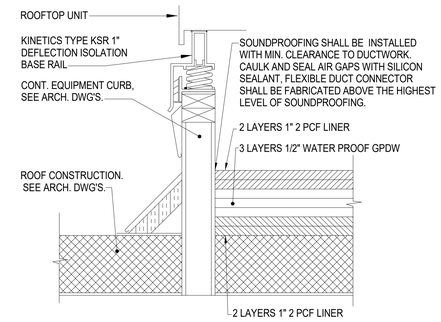


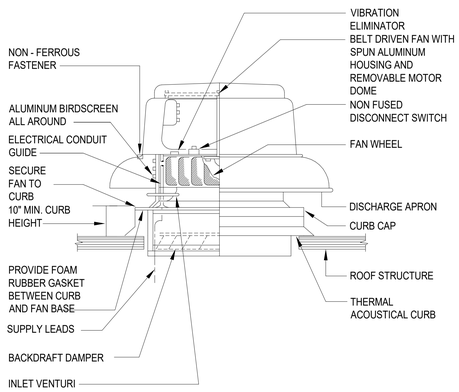
SUSPENDED EQUIPMENT SUPPORT DETAIL

NO SCALE



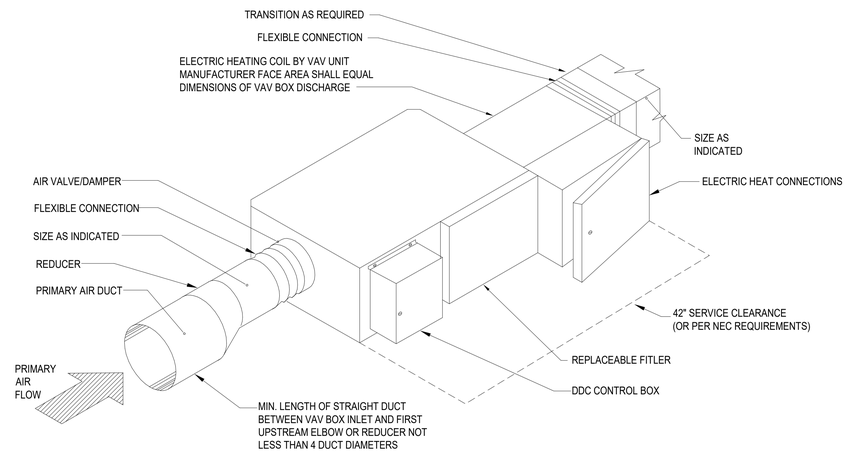
ROOFTOP UNIT ACOUSTICAL CURB DETAIL

NO SCALE



POWER ROOF VENTILATOR DETAIL

NO SCALE



NOTE:
PROVIDE MINIMUM SERVICE CLEARANCE PER NEC REQUIREMENTS AT SIDE OF VAV BOX FOR ELECTRICAL DISCONNECTS AND SERVICE BOXES. THERE SHALL BE NO OBSTRUCTIONS (SPRINKLER PIPING, LIGHTS, WALLS, ETC.) WITHIN THIS AREA.

NOTE:
DETAIL IS A DIAGRAMMATIC REPRESENTATION OF CONNECTIONS AND SERVICE CLEARANCE REQUIRED FOR TERMINAL UNIT. COORDINATE ACTUAL REQUIREMENTS WITH EQUIPMENT PROVIDED.

SERIES FAN POWERED TERMINAL UNIT W/ ELECTRIC HEAT DETAIL

NO SCALE

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PACKAGED ROOFTOP VARIABLE AIR VOLUME UNIT SCHEDULE

		SUPPLY FAN DATA								RETURN FAN DATA							COOLING DATA				HEATING DATA		ELECTRICAL DATA				
TAG	LOCATION	CFM	OA CFM	E.S.P (IN WG.)	T.S.P (IN WG)	FAN HP	FAN TYPE	VOLTS	PHASE	CFM	E.S.P (IN WG)	T.S.P (IN WG)	HP	FAN TYPE	VOLTS	PHASE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT °F D.B.	EAT °F W.B.	SELECTED KW	SELECTED STAGES	VOLTS	PHASE	MCA	MOCP	REMARKS
RTU-1	ROOF							208	3						208	3							208	3			60 TON UNIT
RTU-2	ROOF							208	3						208	3							208	3			7.5 TON UNIT

NOTES:
1. SELECTIONS BASED ON TRANE.
2. LEAVING AIR IS TO BE PROVIDED AT THE UNIT DISCHARGE, TOTAL AND SENSIBLE CAPACITES ARE "NET" VALUES TO BE PROVIDED DOWNSTREAM OF THE SUPPLY AIR FAN.
3. PROVIDE WITH MOTOR STARTER(S) SIZED IN ACCORDANCE WITH NEMA RECOMMENDATIONS.
4. PROVIDE WITH INVERTER DUTY RATED MOTOR(S) AND VARIABLE FREQUENCY DRIVE(S)
5. PROVIDE UNIT WITH 30% 2" THICK FILTER.

ELECTRIC UNIT HEATER SCHEDULE

TAG	LOCATION	NOMINAL CFM	WATTS	BTUH	NO. OF STEPS	VOLTS	PHASE	MANUFACTURER	MODEL NO.	REMARKS
CUH-1						208	3	TRANE	FORCE-FLO	
CUH-2						208	3	TRANE	FORCE-FLO	
CUH-3						208	3	TRANE	FORCE-FLO	
EUH-1						208	3	MARKEL	5100	
EUH-2						208	3	MARKEL	5100	
EUH-3						208	3	MARKEL	5100	
EUH-4						208	3	MARKEL	5100	
EUH-5						208	3	MARKEL	5100	
EUH-6						208	3	MARKEL	5100	

NOTES:
1. PROVIDE WITH INTEGRAL TAMPER RESISTANT THERMOSTAT, INTEGRAL ELECTRICAL DISCONNECT AND BLOWER.
2. PROVIDE WALL MOUNT SUPPORT.

FAN SCHEDULE

						ELECTRICAL DATA						
TAG	LOCATION	FAN TYPE	CFM	E.S.P (IN WG.)	DRIVE	HP	VOLTS	PHASE	MCA	MOCP	MODEL NO.	REMARKS
EF-1	ROOF	DOWNBLAST			DIRECT		208	3			G	
EF-2	ROOF	DOWNBLAST			DIRECT		208	3			G	
EF-3	ROOF	DOWNBLAST			DIRECT		208	3			G	
EF-4	ROOF	DOWNBLAST			DIRECT		208	3			G	
EF-5	ROOF	DOWNBLAST			DIRECT		208	3			G	
EF-6	ROOF	DOWNBLAST			DIRECT		208	3			G	
EF-7	ROOF	DOWNBLAST			DIRECT		208	3			G	
EF-8		INLINE			DIRECT		208	3			SQ	

NOTES:
1. SELECTIONS BASED ON GREENHECK.
2. DISCONNECT SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.

CONDENSING UNIT SCHEDULE

				ELECTRICAL DATA					
TAG	LOCATION	SERVES	NO. OF FANS	MCA	MOCP	VOLTS	PHASE	MODEL NO.	REMARKS
CU-1	ROOF	CRAC-1	2			208	3	MCL055	

NOTES:
1. SELECTIONS BASED ON LIEBERT.
2. PROVIDE LOW AMBIENT KIT FOR COOLING AT 0°F.
3. PROVIDE VARIABLE SPEED COMPRESSOR.

COMPUTER ROOM AIR CONDITIONER SCHEDULE - AIR COOLED

		FAN DATA			COOLING CAPACITY							ELECTRICAL DATA					
TAG	LOCATION	CFM	E.S.P (IN WG.)	FAN HP	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT °F D.B.	EAT °F W.B.	NO. OF COMPRESS ORS	SELECTED KW	HUMIDIFIER CAPACITY (LBS/HR)	MCA	MOCP	VOLTS	PHASE	MODEL NO.	REMARKS
CRAC-1	DATA ROOM													208	3	PX029HA1C8HH2	8 TON UNIT

NOTES:
1. SELECTIONS BASED ON LIEBERT.
2. PROVIDE WITH INFRARED HUMIDIFIER, SCR ELECTRIC HEAT, MICROPROCESSOR CONTROL WITH GRAPHIC DISPLAY, SMOKE DETECTOR, AND CONDENSATE PUMP.
3. PROVIDE IN FIELD REFRIGERANT HOT GAS AND LIQUID PIPING FOR EACH CIRCUIT AS INDICATED BY MANUFACTURER.

SHUT-OFF VAV TERMINAL BOX SCHEDULE

		VOL. REG. CFM				
TAG	LOCATION	CFM MIN	CFM MAX	INLET SIZE	MODEL NO.	REMARKS
VAV-1	DATA ROOM		2400		VSEF	

NOTES:
1. SELECTIONS BASED ON TRANE.
2. SELECT UNITS FOR A MAXIMUM NOISE CRITERIA OF 35.
3. CONTRACTOR SHALL PROVIDE A 24V CONNECTION TO EACH TERMINAL BOX.

SERIES FAN POWERED VAV TERMINAL BOX SCHEDULE (ELECTRIC HEAT)

		VOL. REG. CFM			FAN CAPACITY		FAN MOTOR			ELECTRIC HEATING COIL									
TAG	LOCATION	CFM MIN	CFM MAX	INLET SIZE	FAN CFM	E.S.P (IN WG.)	FAN HP	VOLTS	PHASE	SELECTED KW	NO. OF STAGES	MAX COIL EAT (°F)	MIN COIL EAT (°F)	VOLTS	PHASE	MCA	MOCP	MODEL NO.	REMARKS
FPVAV-1								277	1					277	1			VSEF	
FPVAV-2								277	1					277	1			VSEF	
FPVAV-3								277	1					277	1			VSEF	
FPVAV-4								277	1					277	1			VSEF	
FPVAV-5								277	1					277	1			VSEF	
FPVAV-6								277	1					277	1			VSEF	
FPVAV-7								277	1					277	1			VSEF	
FPVAV-8								277	1					277	1			VSEF	
FPVAV-9								277	1					277	1			VSEF	
FPVAV-10								277	1					277	1			VSEF	
FPVAV-11								277	1					277	1			VSEF	
FPVAV-12								277	1					277	1			VSEF	
FPVAV-13								277	1					277	1			VSEF	
FPVAV-14								277	1					277	1			VSEF	
FPVAV-15								277	1					277	1			VSEF	
FPVAV-16								277	1					277	1			VSEF	
FPVAV-17								277	1					277	1			VSEF	
FPVAV-18								277	1					277	1			VSEF	
FPVAV-19								277	1					277	1			VSEF	
FPVAV-20								277	1					277	1			VSEF	
FPVAV-21								277	1					277	1			VSEF	
FPVAV-22								277	1					277	1			VSEF	

NOTES:
1. SELECTIONS BASED ON TRANE.
2. PROVIDE SCR FAN SPEED CONTROLLER.
3. SELECT UNITS FOR MAXIMUM NOISE CRITERIA OF 30.
4. PROVIDE PULSE WIDTH MODULATION CONTROL OF ELECTRIC HEAT.
5. PROVIDE A SINGLE POINT POWER CONNECTION AND INTEGRAL DISCONNECT.

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GENERAL ELECTRICAL NOTES

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS INCLUDING CIVIL, STRUCTURAL, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE AND ADJUST ACCORDINGLY AS DIRECTED BY THE ENGINEER.

AS-BUILT DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK, DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS SHALL REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE ENGINEER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING #6 OR LARGER TO INSURE THAT ALL PORTIONS ARE FREE FROM SHORT-CIRCUITS AND GROUNDS.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE OWNER.

ELECTRICAL SERVICE: PROVIDE THE ELECTRICAL SERVICE. COMMUNICATE WITH THE LOCAL POWER COMPANY, VERIFY ALL REQUIREMENTS, AND COORDINATE ALL EFFORTS.

GROUNDING: PROVIDE GROUNDING IN ACCORDANCE WITH THE NEC FOR THE ENTIRE ELECTRICAL SYSTEM INCLUDING EQUIPMENT FRAMES CONDUITS, SWITCHES, CONTROLLERS, WIRE-WAYS, NEUTRAL CONDUCTORS, AND OTHER EQUIPMENT. PROVIDE A GROUNDING CONDUCTOR IN ALL POWER CONDUITS.

SHORT CIRCUIT AND COORDINATION STUDY: CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A SHORT CIRCUIT AND COORDINATION STUDY COMPLETED FOR THE AS-BUILT ELECTRICAL DISTRIBUTION SYSTEM BASED UPON ACTUAL EQUIPMENT AND FEEDER LENGTHS INSTALLED. THE STUDY SHALL BE COMPLETED WITH STANDARD COMMERCIAL SOFTWARE, AND INCLUDE RECOMMENDED SETTINGS FOR ALL ADJUSTABLE DEVICES. THE STUDY SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER.

LABELS: PROVIDE LABELS FOR ALL SWITCHBOARDS, SWITCHBOARD BREAKERS, PANELBOARDS, CABINETS, SAFETY SWITCHES, MOTOR-DISCONNECT SWITCHES, AND MOTOR CONTROLLERS. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC, PERMANENTLY ATTACHED WITH SELF-TAPPING SCREWS OR RIVETS. DO NOT USE SELF-ADHESIVE LABELS. LABEL SHALL INDICATE EQUIPMENT DESIGNATION AND ASSOCIATED PANEL AND CIRCUIT THAT SERVES IT.

J-BOX LABELING: LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING CIRCUIT NUMBER AND PANELBOARD OF CIRCUITS WITHIN.

WIRING DEVICES: LABEL ALL WIRING DEVICES WITH PANELBOARD AND CIRCUIT DESIGNATION PERMANENTLY ATTACHED WITH BLACK TYPED DESIGNATION ON CLEAR TAPE.

PANEL DIRECTORY: PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD WITH CIRCUIT LOAD INFORMATION AND ROOM NUMBER CLEARLY IDENTIFIED. USE ACTUAL ROOM NUMBERS IN THE BUILDING, NOT THE ROOM NUMBERS SHOWN ON THE CONTRACT DRAWINGS, AS THEY ARE OFTEN DIFFERENT.

CONDUCTORS: IN SITUATIONS WHERE CONDUCTOR SIZES AND/OR QUANTITIES OF PARALLEL SETS HAVE BEEN INCREASED DUE TO VOLTAGE DROP OR FOR OTHER REASONS, CONTRACTOR SHALL PROVIDE THE APPROPRIATE LUG SIZES/QUANTITIES WITHIN THE EQUIPMENT CONNECTED (SWITCHBOARD, PANELBOARD, DISCONNECT SWITCH, TRANSFER SWITCH ETC.) TO PERMIT SATISFACTORY CONNECTION OF THE INDICATED CONDUCTORS. WHERE SUFFICIENT LUG SIZES AND/OR QUANTITIES CANNOT BE PROVIDED TO ACCOMMODATE THE CONDUCTORS INDICATED, THEN PROVIDE REDUCING ADAPTERS, PIN TERMINALS, OR A JUNCTION BOX TO SPLICE LARGER CONDUCTORS TO APPROPRIATELY SIZED SMALLER CONDUCTORS TO FIT INTO THE LUGS PROVIDED. ALL CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE NEC.

MOTOR COORDINATION: MOTORS, MOTOR STARTERS, CONTROLLERS, INTEGRAL DISCONNECT SWITCHES, AND CONTACTORS SHALL BE PROVIDED WITH THEIR RESPECTIVE PIECES OF EQUIPMENT BY THE EQUIPMENT SUPPLIER. COMMUNICATE WITH THE TRADES PROVIDING THE EQUIPMENT, VERIFYING ALL REQUIREMENTS, PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED THEREIN, AND INSTALL MOTOR STARTERS.

MOTOR DISCONNECTS: ALL MOTORS SHALL HAVE DISCONNECTING MEANS.

MOTOR CONTROLLERS: ALL 3-PHASE MOTORS SHALL HAVE MAGNETIC MOTOR CONTROLLERS WITH SOLID STATE OVERLOAD RELAY PROTECTION. THE SOLID STATE OVERLOAD RELAY SHALL HAVE PHASE LOSS AND PHASE OVERCURRENT PROTECTION WITH AUTOMATIC RESET UPON RETURN OF NORMAL POWER.

MOTOR FUSE PROTECTION: WHERE FUSE PROTECTION IS SPECIFICALLY REQUIRED BY THE EQUIPMENT MANUFACTURER, PROVIDE FUSED SWITCHES IN LIEU OF NON-FUSED SWITCHES OR IN LIEU OF ENCLOSED CIRCUIT BREAKERS, OR OTHER DEVICES INDICATED.

REDUCED VOLTAGE STARTERS: REDUCED VOLTAGE STARTERS OR ELECTRONIC SOFT START CONTROLLERS OR VARIABLE FREQUENCY DRIVES (VFD) SHALL BE PROVIDED FOR ALL MOTORS 40HP AND LARGER AT 480 VOLTS, AND 20 HP AND LARGER AT 208 VOLTS.

CONNECTION DETAILS: SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS, ROUGH-IN AND HOOK UP DETAILS FROM OTHER INVOLVED CONTRACTORS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

COORDINATION DETAILS: MECHANICAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS.

WORKING CLEARANCE: COORDINATE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MECHANICAL DUCTWORK, PIPING ETC. AND ASSURE WORKING CLEARANCE REQUIRED BY NEC WILL BE MET. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF EQUIPMENT PROVIDED AND INSTALLED BY OTHER TRADES.

STARTER MOUNTING: WHERE AN INDIVIDUALLY MOUNTED SAFETY SWITCH, STARTER OR CIRCUIT BREAKER IS SHOWN ADJACENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL, PROVIDE ALL SUPPORTS, BRACKETS, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.

LIGHTING ARRANGEMENT: ARRANGE LIGHTING FIXTURES IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

LIGHTING COORDINATION: COORDINATE LIGHTING FIXTURES WITH GRILLES, DIFFUSERS, SPRINKLER HEADS, AND ACCESS PANELS, ETC. PROVIDE FIXTURE MOUNTING BRACKETS, ACCESSORIES, PLASTER FRAMES, ETC.. SUITABLE FOR THE CEILING TYPES INDICATED ON THE ARCHITECTURAL PLANS.

MATERIAL COORDINATION: VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO INSURE PROPER FIXTURE OR DEVICE IS FURNISHED TO MATCH CONSTRUCTION.

MOUNTING HEIGHTS: MOUNTING HEIGHTS INDICATED ARE FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE WIRING DEVICE UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURE UNLESS OTHERWISE NOTED.

DEVICE LOCATIONS: COORDINATE LOCATIONS OF SWITCHES, RECEPTACLES, AND TELE/DATA OUTLETS WITH OTHER WALL MOUNTED DEVICES SUCH AS THERMOSTATS AND CONTROL STATIONS.

EWC RECEPTACLES: RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) SHALL BE INSTALLED OUT OF VIEW AND BEHIND THE EWC ENCLOSURE. VERIFY THE MOUNTING HEIGHT WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

DEVICE COORDINATION: THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES.

FLOOR LOCATIONS: VERIFY THE LOCATION OF ALL FLOOR OUTLET BOXES AND OF CONDUIT STUB-UPS WITH THE ARCHITECT'S FURNITURE AND EQUIPMENT LAYOUT PRIOR TO INSTALLATION.

BARRIERS: WHERE A MULTIPLE-GANG BOX HAS CIRCUITS OF DIFFERENT VOLTAGES OR SYSTEMS WHICH ARE REQUIRED TO BE SEPARATED, PROVIDE THE CODE-REQUIRED SEPARATION USING A FULL HEIGHT AND DEPTH BARRIER PLATE.

FIRE STOPPING: FOR ANY WALL OR FLOOR PENETRATIONS THROUGH FIRE-RATED STRUCTURES PROVIDE FIRE-STOPPING TO SEAL ALL THE PENETRATIONS AFTER THE CONDUIT HAS BEEN INSTALLED. FIRE STOPPING FOR PENETRATIONS SHALL BE UL APPROVED PER THE PENETRATION MADE IN ORDER TO MAINTAIN FIRE-RATED INTEGRITY OF THE STRUCTURE.

CLEAN UP: ON PROJECT CLOSE-OUT CLEAN ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, LAMPS AND LENSES, AND REMOVE ALL PAINT SPATTERS FROM DEVICES, FIXTURES AND PLATES. REPLACE ALL INOPERATIVE LAMPS.

FIRE ALARM COORDINATION: THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM PROVIDER AND PROVIDE POWER CONNECTIONS TO ALL COMPONENTS WHETHER SHOWN OR NOT. MANUFACTURERS REQUIRE VARYING QUANTITIES OF POWER CONNECTIONS FOR EQUIPMENT LIKE EXPANDER PANELS AND POWER SUPPLIES. THESE DEVICES ARE DEPENDENT UPON THE SPECIFIC MANUFACTURERS SYSTEM. THE FIRE ALARM SYSTEM SUPPLIER SHALL NOTIFY THE OTHER APPROPRIATE SUB-CONTRACTORS ABOUT THESE REQUIREMENTS AND CONNECTION SHALL BE PROVIDED AS PART OF THE PROJECT.

HVAC DAMPERS, ETC: CONTRACTORS SHALL COORDINATE WITH THE EQUIPMENT AND SYSTEM BEING PROVIDED AND PROVIDE POWER CONNECTIONS ACCORDINGLY. THESE CONNECTIONS SHALL BE FOR FIRE/SMOKE DAMPERS, DDC CONTROL DEVICES, ETC. CONTRACTOR SHALL COORDINATE THE VOLTAGE REQUIREMENTS AND PROVIDE ALL NECESSARY CONNECTIONS, COMPONENTS, ETC. THIS INCLUDES TRANSFORMERS, BOXES, ETC.

FIRE ALARM EQUIPMENT SURVIVAL: ACCORDING TO APPLICABLE CODE, A SMOKE DETECTOR IS REQUIRED AT ALL CONTROL PANEL LOCATIONS (I.E. FIRE ALARM PANEL, NOTIFICATION EXTENDER PANELS, TRANSMITTERS, ETC.). CONTRACTOR SHALL PROVIDE SYSTEM SMOKE DETECTORS FOR ALL LOCATIONS OF FIRE ALARM PANELS, TO INCLUDE THOSE SHOWN AND THOSE THAT ARE ADDED BY THE CONTRACTOR FOR THEIR SPECIFIC DESIGN.

CEILING PLENUM: THE CEILING SPACE IS A RETURN AIR PLENUM. ALL LOW VOLTAGE CABLE SHALL BE PLENUM RATED. REFER TO NEC ART. 300.22 FOR PROVISIONS APPLICABLE TO PLENUMS.

OWNER STANDARDS: ALL WORK SHALL COMPLY WITH THE OWNER'S PUBLISHED STANDARDS WHICH ARE AVAILABLE DIRECTLY FROM THE OWNER.

EMERGENCY RESPONDER RADIO COVERAGE NOTE

CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE OF THE FOLLOWING COURSES OF ACTION.

1. ENGAGE A QUALIFIED TESTING AGENCY TO VERIFY EMERGENCY RESPONDER COMMUNICATIONS SIGNAL LEVELS IN ALL AREAS OF THE BUILDINGS ONCE ALL STRUCTURAL STEEL AND CONCRETE HAS BEEN CONSTRUCTED.
2. ENGAGE CITY OF **[CITY/COUNTY]** EMERGENCY RESPONSE GROUPS (FIRE, POLICE, EMS) AND HAVE THEM TEST THEIR SPECIFIC EQUIPMENT IN ALL AREAS OF THE BUILDINGS ONCE ALL STRUCTURAL STEEL AND CONCRETE HAS BEEN CONSTRUCTED.

IF SIGNAL LEVELS ARE BELOW COMMUNICATIONS EQUIPMENT MANUFACTURER'S STANDARDS, THEN THE SIGNALS SHALL BE SUPPLEMENTED IN ALL DEFICIENT AREAS OF THE SITE IN ACCORDANCE WITH PARAGRAPH BELOW.

PROVIDE A COMPLETE RADIATING CABLE SYSTEM CONSISTING OF COAXIAL CABLE OR EQUIVALENT ABOVE ACCESSIBLE CEILINGS (PREFERABLY SERVICE CORRIDORS) TO PROVIDE A SUPPORTING CABLE INFRASTRUCTURE FOR THE ADDITION OF A BUILDING DISTRIBUTION AMPLIFIER TO PERPETUATE CONTINUOUS EMERGENCY COMMUNICATION WITHIN THE BUILDING(S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CABLE EVERYWHERE NECESSARY TO ENSURE ADEQUATE COMMUNICATION IS ATTAINED IN ALL AREAS OF THE BUILDING(S). A 4' X 4' SPACE ON THE TELEPHONE BACKBOARD(S) SHALL BE ALLOCATED IN THE MAIN TELECOMMUNICATIONS DISTRIBUTION LOCATION(S) FOR THE AMPLIFIER AND ALL CABLE WILL BE RUN BACK TO THIS LOCATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING A PATHWAY (1"C MINIMUM) FROM THE AMPLIFIER LOCATION TO THE ROOF (THROUGH A PITCH POCKET) FOR THE POTENTIAL ADDITION OF A RADIO SYSTEMS ANTENNA. CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED RADIO COMMUNICATIONS CONTRACTOR TO PROVIDE A COMPLETE DESIGN. DESIGN, INSTALLATION, AND TESTING SHALL CONFORM WITH REQUIREMENTS OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE 2012, SECTION 510 OF THE INTERNATIONAL FIRE CODE 2012, EMERGENCY RESPONDER RADIO COVERAGE. THE COST OF THE DESIGN AND THE INSTALLATION OF THIS SYSTEM SHALL BE INCLUDED AS A SEPARATE ADDITIVE BID ITEM.

FIRE STOPPING NOTE:

CONTRACTOR SHALL PROVIDE AN APPROPRIATE LISTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY AT EACH PENETRATION OF FIRE RATED CONSTRUCTION (I.E. WALLS AND SLABS, ETC.). SLEEVES SHALL ONLY BE PERMITTED WHERE INDICATED IN THE CONTRACTOR SELECTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL RATED ASSEMBLIES AND ASSOCIATED UL DESIGNATIONS. DEVICES INSTALLED RECESSED WITHIN FIRE RATED CONSTRUCTION (I.E. LIGHT SWITCHES, RECEPTACLES, ETC.) ARE ONLY PERMITTED WHEN AN APPROVED LISTED FIRE STOPPING SYSTEM EXISTS FOR THE APPLICATION. IF AN APPROVED LISTED FIRE STOPPING SYSTEM IS UNAVAILABLE, THE CONTRACTOR SHALL BRING THE CONDITION TO THE ATTENTION OF THE A/E FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK.

ENERGY CODE COMPLIANCE PATH

- ■ ASHRAE 90.1
- ☐ VECC CHAPTER 4 - PRESCRIPTIVE
- ☐ VECC CHAPTER 4 - PERFORMANCE

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LEGEND, NOTES AND ABBREVIATIONS

NOT FOR CONSTRUCTION

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E-001

ELECTRICAL LEGEND

LIGHTING

- LIGHTING FIXTURE
- EMERGENCY LIGHTING FIXTURE [WITH EMERGENCY BATTERY BALLAST - CONNECT EMERGENCY BALLAST AHEAD OF LOCAL SWITCH.] [CONNECT TO LIFE SAFETY LIGHTING CIRCUIT] [SUBSCRIPT "NL", WHERE USED, INDICATES A NIGHT LIGHT (ALL BALLASTS UNSWITCHED)]
- DOWNLIGHT OR PENDANT MOUNTED FIXTURE
- TRACK LIGHTING FIXTURE. INDICATES AN INDIVIDUAL FIXTURE ON THE TRACK
- WALL MOUNTED LIGHTING FIXTURE
- AREA SITE LIGHTING FIXTURE
- POST-TOP TYPE AREA MOUNTED LIGHT
- EXIT LIGHTING FIXTURE, WITH DIRECTIONAL ARROWS AS INDICATED WITH BATTERY PACK - CONNECT AHEAD OF LOCAL SWITCH.
- EMERGENCY BATTERY LIGHTING UNIT, CONNECT AHEAD OF LOCAL SWITCH.
- A — LIGHTING FIXTURE TYPE SYMBOL. SEE LIGHTING FIXTURE DETAILS.
- S — SINGLE POLE SWITCH, 20A, 120/277V, 46" AFF UON
- SS — DUAL SWITCH (SINGLE POLE OR TYPE AS INDICATED BY SUBSCRIPT), 20A, 120/277V, 46" AFF UON. CONNECT EACH TO SEPARATELY CONTROL INBOARD AND OUTBOARD LAMPS OF EACH FIXTURE INDICATED. (CONTROL INBOARD AND OUTBOARD LAMPS CONSISTENTLY)
- S_3 — THREE-WAY SWITCH, 20A, 120/277V, 46" AFF UON
- S_4 — FOUR-WAY SWITCH, 20A, 120/277V, 46" AFF UON
- S_D — DIMMER SWITCH, 46" AFF UON. FOR INCANDESCENT FIXTURES, PROVIDE 1500W, 120V SWITCH. FOR FLUORESCENT OR L.E.D. FIXTURES, COORDINATE VOLTAGE AND RATINGS OF SWITCH WITH TYPE AND QUANTITY OF BALLASTS OR DRIVERS TO BE CONTROLLED.
- S_K — SINGLE POLE KEYED SWITCH, 20A, 120/277V, 46" AFF UON
- S_P — SINGLE POLE SWITCH, 20A, 120V, WITH PILOT LIGHT, MOUNT 46" AFF
- S_{MC} — MOMENTARY CONTACT SWITCH, TWO POLE WITH NEUTRAL CENTER POSITION, 20A, 120/277V, 46" AFF, UON
- LC — LIGHTING CONTACTOR
- TC — TIME CLOCK
- P — PHOTOCELL, 1500W, 120V SPST, MOUNT ON ROOF, AIM NORTH
- OC — CEILING MOUNTED DUAL TECHNOLOGY ULTRASONIC/PASSIVE INFRARED OCCUPANCY SENSOR.
- S_{OC} — WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH SINGLE POLE SWITCH, 120/277V, MOUNT 46"AFF.
- S_{OC2} — WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH TWO SINGLE POLE SWITCHES, 120/277V, MOUNT 46"AFF.

POWER

[RECEPTACLES SHALL BE [TAMPER RESISTANT] [HOSPITAL GRADE], (TYP, UON),]
THE FOLLOWING SUBSCRIPTS SHALL APPLY TO RECEPTACLES WHERE USED:

- GFI: GROUND FAULT INTERRUPTING TYPE RECEPTACLE
- E: RECEPTACLE CONNECTED TO EMERGENCY CIRCUIT. DEVICE SHALL BE RED WITH MATCHING COVERPLATE.
- +XX": DEVICE MOUNTING HEIGHT DESIGNATION ABOVE FINISHED FLOOR IF OTHER THAN 18" OR 46".
- TV: TELEVISION RECEPTACLE, COORDINATE MOUNTING HEIGHT WITH TELEVISION MOUNTING BRACKET.
- WP: WEATHER RESISTANT GFI RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER.
- EWC: ELECTRIC WATER COOLER RECEPTACLE, GROUND FAULT INTERRUPTING TYPE. LOCATE BEHIND THE EWC PER MANUFACTURER'S RECOMMENDATIONS.
- IG: ISOLATED GROUND RECEPTACLE.
- C: RECEPTACLE MOUNTED FLUSH IN CEILING
- VS: SWITCHED OUTLET CONTROLLED BY VACANCY SENSOR

- SINGLE RECEPTACLE 20A, 120V, 18" AFF, UON
- DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 18" AFF, UON
- TWO DUPLEX RECEPTACLES IN COMMON BOX, EACH 20A, 120V, 18" AFF, UON
- DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 46" AFF, UON (OR 6" ABOVE COUNTER AS APPLICABLE)
- TWO DUPLEX RECEPTACLES IN COMMON BOX, EACH 20A, 120V, 46" AFF, UON (OR 6" ABOVE COUNTER OR BACKSPLASH AS APPLICABLE
- TOP SWITCHED DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 18" AFF, UON. ONLY TOP RECEPTACLE SHALL BE CONTROLLED.

POWER (CONT.)

- SWITCHED DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 18" AFF, UON.
- SPECIAL RECEPTACLE, AS NOTED ON PLANS
- PT — DEVICE MOUNTED IN FLUSH FLOOR BOX. SUBSRIPT "PT", WHERE USED, INDICATES A FLUSH MOUNTED POKE-THRU DEVICE. PROVIDE 1"C WITH WIRING STUBBED ABOVE ACCESSIBLE CEILING FOR TELE/DATA CABLING. SEE TELE/DATA OUTLET SYMBOL, THIS SHEET FOR MORE INFORMATION.
- SURFACE METAL RACEWAY WITH 20A, 120V SINGLE RECEPTACLES AT 12" ON CENTER. MOUNT 1" ABOVE COUNTERTOP BACKSPLASH.
- GFI — HEAT TAPE CONNECTION, CLASS B GFI DEVICE WITH PUSH TO TEST AND RESET BUTTONS WITH WEATHER PROOF COVER. CONNECT AHEAD OF HEAT TRACE THERMOSTAT.
- UH — UNIT HEATER CONNECTION (UNIT HAS INTEGRAL DISCONNECTING MEANS)
- VAV-X — VAV TERMINAL UNIT CONNECTION - SEE SCHEDULE. "X" INDICATES UNIT NUMBER
- FCU — FAN COIL UNIT CONNECTION. PROVIDE MOTOR RATED DISCONNECT SWITCH.
- RTU — ROOF TOP UNIT CONNECTION 200A
- E — EQUIPMENT CONNECTION
- J — JUNCTION BOX
- MOTOR CONNECTION
- S_M — MOTOR RATED SWITCH WITH THERMAL OVERLOADS 20A, 120V, UON, MOUNTED WITHIN SIGHT OF MOTOR.
- SAFETY SWITCH, 60A-3P, FU @ 30A, 3R
  - SWITCH RATING
  - NUMBER OF POLES
  - FUSE RATING (NF INDICATES NON-FUSED)
  - NEMA ENCLOSURE IF OTHER THAN NEMA 1
- ENCLOSED CIRCUIT BREAKER, 60A-3P, 3R
  - BREAKER TRIP RATING
  - NUMBER OF POLES
  - NEMA ENCLOSURE IF OTHER THAN NEMA 1
- VFD — VARIABLE FREQUENCY DRIVE (UNIT SUPPLIED WITH DISCONNECTING MEANS)
- MAGNETIC MOTOR STARTER, MOUNT WITHIN SITE OF MOTOR 5'-0" AFF MAX, UON.
- SPD — SURGE PROTECTIVE DEVICE
- ELECTRICAL PANELBOARD
- T — DRY-TYPE TRANSFORMER
- T — PAD MOUNTED TRANSFORMER
  - INDICATES FRONT
- AND — ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE 1 #12 PHASE CONDUCTOR, 1 #12 NEUTRAL CONDUCTOR AND 1 #12 GROUNDING CONDUCTOR (PLUS 1 #12 INSULATED, ISOLATED GROUNDING CONDUCTOR WHEN SERVING ISOLATED GROUND TYPE DEVICES) IN 1/2" [3/4" MIN FOR VBJ CONDUIT. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE NEUTRAL CONDUCTOR TO ALL WALL SWITCH OUTLET BOXES WHETHER REQUIRED OR NOT. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS MAY BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. GROUNDING CONDUCTORS MAY BE SHARED AS ALLOWED BY THE NEC. NEUTRAL CONDUCTORS SHALL NOT BE SHARED. MULTI-POLE BREAKERS SHALL BE PROVIDED IN ACCORDANCE WITH THE NEC SHOULD MULTI-WIRE BRANCH CIRCUITS BE INSTALLED. CONDUIT LARGER THAN 1/2" AND CONDUCTORS LARGER THAN #12 SHALL BE AS INDICATED.
- PB — PULL BOX DIRECT BURIED, TOP FLUSH WITH GRADE, TYPE 8, SEE DETAIL SHEET E603.

GENERAL

DETAIL OR SECTION NOTATION
- ENUMERATION: A = DETAIL, 1 = SECTION
- SHEET WHERE SECTION IS SHOWN
- SHEET WHERE SECTION IS CUT

- 1 — NEW WORK NOTE SYMBOL
- 1 — DEMOLITION NOTE SYMBOL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- SMOKE PARTITION

TELECOMMUNICATIONS

- TELE/DATA OUTLET, 4"X4"X2 1/8"D BOX WITH SINGLE GANG PLASTER RING AND SINGLE GANG COVERPLATE TO MATCH ELECTRICAL OUTLET COVERPLATE MATERIAL AND COLOR , 18" AFF, UON, WITH 1"C WITH (2) CAT 6 UTP CABLES, STUBBED ABOVE ACCESSIBLE CEILING AND TERMINATED WITH BUSHING.
- TELEPHONE OUTLET, 4"X4"X2 1/8"D BOX WITH SINGLE GANG PLASTER RING AND SINGLE GANG COVERPLATE TO MATCH ELECTRICAL OUTLET COVERPLATE MATERIAL AND COLOR , 54" AFF, UON, WITH 1"C WITH (1) CAT 6 UTP CABLE, STUBBED ABOVE ACCESSIBLE CEILING AND TERMINATED WITH BUSHING.
- DATA OUTLET, 4"X4"X2 1/8"D BOX WITH SINGLE GANG PLASTER RING AND SINGLE GANG COVERPLATE TO MATCH ELECTRICAL OUTLET COVERPLATE MATERIAL AND COLOR , 18" AFF, UON, WITH 1"C WITH (1) CAT 6 UTP CABLE, STUBBED ABOVE ACCESSIBLE CEILING AND TERMINATED WITH BUSHING.
- TV — TELEVISION (TV) OUTLET, 4"X4"X2 1/8"D BOX WITH SINGLE GANG PLASTER RING AND SINGLE GANG COVERPLATE TO MATCH ELECTRICAL OUTLET COVERPLATE MATERIAL AND COLOR , 18" AFF, UON, WITH (1) RG-6 COAXIAL CABLE STUBBED ABOVE ACCESSIBLE CEILING. WHERE OUTLET IS ADJACENT TO A POWER RECEPTACLE, MOUNT AT SAME ELEVATION AS POWER RECEPTACLE, UON.
- TELECOMMUNICATIONS BACKBOARD - 4'W x 8'H x 3/4"THICK, TYPE AC FIRE RETARDANT
- TGB — GROUND BUS BAR, SEE DETAIL SHEET E-602.
- TMGB — MAIN GROUND BUS BAR, SEE DETAIL SHEET E-602.
- HH — HANDHOLE TYPE 9, SEE DETAIL SHEET E-603.
- J — J — J-HOOKS, SEE DETAIL SHEET E-602.
- CONDUIT SLEEVE 4"X12", UON. PROVIDE BUSHING ON EACH END.

FIRE ALARM

- FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM REMOTE ANNUNCIATOR PANEL
- SCP — SMOKE CONTROL PANEL. SEE DETAIL SHEET E-606
- F — FIRE ALARM MANUAL PULL STATION, 46" AFF TO ACTUATING ARM, UON
- F 15 — FIRE ALARM AUDIO/VISUAL (HORN/STROBE) APPLIANCE, CEILING MOUNT. NUMBER SUBSCRIPT INDICATES MINIMUM CANDELA RATING. SUBSCRIPT "VR" INDICATES VANDAL RESISTANT.
- F 15 — FIRE ALARM AUDIO/VISUAL (HORN/STROBE) APPLIANCE, 80" AFF, OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, UON. SUBSCRIPT INDICATES MINIMUM CANDELA RATING OF STROBE.
- F 15 — FIRE ALARM VISUAL (STROBE) APPLIANCE, 80" AFF, OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, UON. SUBSCRIPT INDICATES MINIMUM CANDELA RATING OF STROBE.
- F 15 — FIRE ALARM VISUAL (STROBE) APPLIANCE CEILING MOUNTED. SUBSCRIPT INDICATES MINIMUM CANDELA RATING OF STROBE.
- B — SPRINKLER SYSTEM BELL ALARM APPLIANCE, WEATHERPROOF, MOUNT 80" AFG
- F — SPRINKLER SYSTEM SUPERVISORY FLOW SWITCH CONNECTION
- V — SPRINKLER SYSTEM SUPERVISORY VALVE CONNECTION
- D — DUCT MOUNTED SMOKE DETECTOR
- S — FIRE ALARM SYSTEM PHOTOELECTRIC SMOKE DETECTOR, CEILING MOUNTED, UON. SUBSCRIPT "UF" INDICATES UNDER RAISED FLOOR.
- H — FIRE ALARM SYSTEM HEAT DETECTOR, CEILING MOUNTED
- SD — SMOKE DAMPER
- D — FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER DEVICE
- SS — SURGE SUPPRESSER
- MM — MONITOR MODULE

ACCESS CONTROL SYSTEM (RACEWAY INFRASTRUCTURE ONLY)

- CR — CARD READER
- DC — DOOR CONTACTS
- EH — ELECTRIFIED DOOR HARDWARE
- ML — MAGNETIC LOCKS
- RTE — REQUEST TO EXIT

SEE TYPICAL SECURITY DOOR CONFIGURATION DETAIL SHEET E604

IP VIDEO SURVEILLANCE SYSTEM (RACEWAY INFRASTRUCTURE ONLY)

- CAMERA LOCATION
- MON — MONITOR LOCATION

AUDIO/VISUAL SYSTEM (RACEWAY INFRASTRUCTURE ONLY)

- S — CEILING MOUNTED SPEAKER

ABBREVIATIONS

A	AMPERE
ACCU	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
BFG	BELOW FINISHED GRADE
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFL	COMPACT FLUORESCENT LAMP
CKT	CIRCUIT
CB	CIRCUIT BREAKER
DDC	DIRECT DIGITAL CONTROL
DSS	DUCTLESS SPLIT SYSTEM
DVP	DOMINION VIRGINIA POWER
EBU	EMERGENCY BATTERY UNIT
EC	EMPTY CONDUIT
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
ERU	ENERGY RECOVERY UNIT
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
FHP	FRACTIONAL AC HORSEPOWER
FLA	FULL LOAD AMPS
FSC	FIRE SAFETY CONTROL
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
H & V	HEATING AND VENTILATING UNIT
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER/HEAT PUMP
IG	ISOLATED GROUND
KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
KVA	KILO-VOLT-AMPERES
KW	KILO-WATTS
LTG	LIGHTING
MAU	MAKE-UP AIR UNIT
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
P	POLE
PCP	PUMP CONTROL PANEL
PF	POWER FACTOR
P	PROPERTY LINE
PNL	PANEL
PNLBD	PANELBOARD
	PHASE
PRI	PRIMARY
RECEPT	RECEPTACLE
REQ'D	REQUIRED
RTU	ROOF TOP UNIT
SE	SERVICE ENTRANCE
SEC	SECONDARY
SPD	SURGE PROTECTIVE DEVICE
TBB	TELEPHONE BACKBOARD
TRT	TRIPLE TUBE FLUORESCENT LAMP
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT(S)
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS/WIRE
WG	WIREGUARD
WP	WEATHERPROOF

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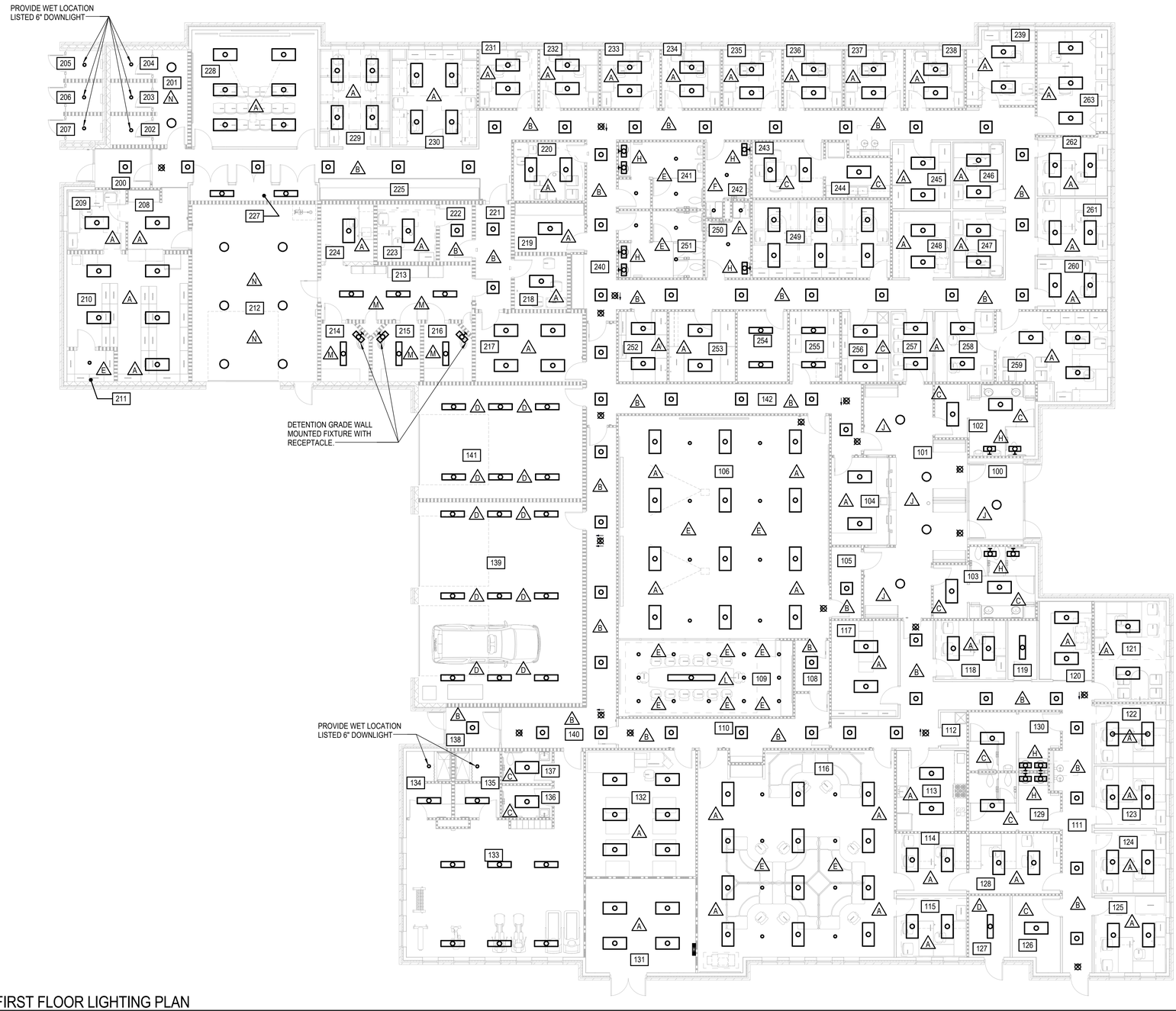
E-002

NOTES

1. PROVIDE OCCUPANCY SENSORS ON CEILING FOR EACH LARGE OFFICE, TOILETS, AND CORRIDOR FOR LIGHTING CONTROL. MINIMUM 2 PER OFFICE AND 3 PER TOILET AND CORRIDOR.
2. PROVIDE AT LEAST 1 WALL OCCUPANCY SENSOR FOR LIGHTING CONTROL IN EACH INDIVIDUAL OFFICE.
3. PROVIDE LIGHTING CONTROL SYSTEM FOR BOARD ROOM AND LOBBY TO CONTROL LED LIGHTING.
4. ALL LIGHTING IS LED.



1ST FLOOR ROOM SCHEDULE

100	VEST.
101	LOBBY
102	MEN
103	WOMEN
104	RECEPT.
105	CORRIDOR
106	E.O.C. / TRAINING
108	CORRIDOR
109	CONFERENCE
110	CORRIDOR
111	CORRIDOR
112	JAN.
113	KITCHEN
114	SUPERVISOR
115	SUPERVISOR
116	EMERGENCY COMMUNICATIONS CENTER
117	RADIO ROOM / EQ.
118	EMS ASSISTANT
119	ELEC.
120	WORK/COPY
121	DIVISION CHIEF
122	OFFICE
123	OFFICE
124	T.A.C. OFFICER
125	FIRE COORDINATOR
126	STORAGE
127	SPRINK
128	EMERGENCY COMM. DIRECTOR
129	FEMALE TOILETS
130	MALE TOILETS
131	CENTRAL ELECTRICAL
132	DATA ROOM
133	FITNESS
134	SHOWER
135	SHOWER
136	TOILET
137	TOILET
138	STAFF VEST.
139	GARAGE
140	CORRIDOR
141	GARAGE
142	CORRIDOR
200	STAFF VEST.
201	KENNEL ACCESS
202	1
203	2
204	3

1ST FLOOR ROOM SCHEDULE

205	3
206	2
207	1
208	EVID PROCESS
209	EVID.OFFICE
210	EVIDENCE STORAGE
211	DRUG
212	SALLY PORT
213	BOOKING
214	HOLDING
215	HOLDING
216	HOLDING
217	MAGISTRATE
218	INTERROG.
219	MONITOR
220	INTERVIEW
221	CORRIDOR
222	CORRIDOR
223	POLYGRAPH
224	ALCOHOL BREATH
225	MAIL/WORK
227	ELEC
228	BRIEFING
229	DEPUTY / OPEN OFFICE
230	SERGEANTs
231	INVESTIG.
232	INVESTIG.
233	INVESTIG.
234	INVESTIG.
235	INVESTIG.
236	INVESTIG.
237	SUPPORT
238	SUPPORT
239	CAPTAIN
240	CORRIDOR
241	MEN
242	TOILET / SHWR
243	BREAK
244	KITCHEN
245	GEN. STOR.
246	SUPPORT
247	SUPPORT
248	WORK/COPY
249	CIVIL PROCESS
250	TOILET / SHWR
251	WOMEN
252	ARMORY
253	QUARTER MASTER
254	IT
255	EOC STOR.
256	JAN.
257	WAITING
258	SECRETARY
259	SHERIFF
260	SUPPORT
261	LEIUTENANT
262	LIEUTENANT
263	MAJOR

FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE:
1/8" = 1'-0"
5' 0' 5' 10' 20'

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FIRST FLOOR LIGHTING PLAN

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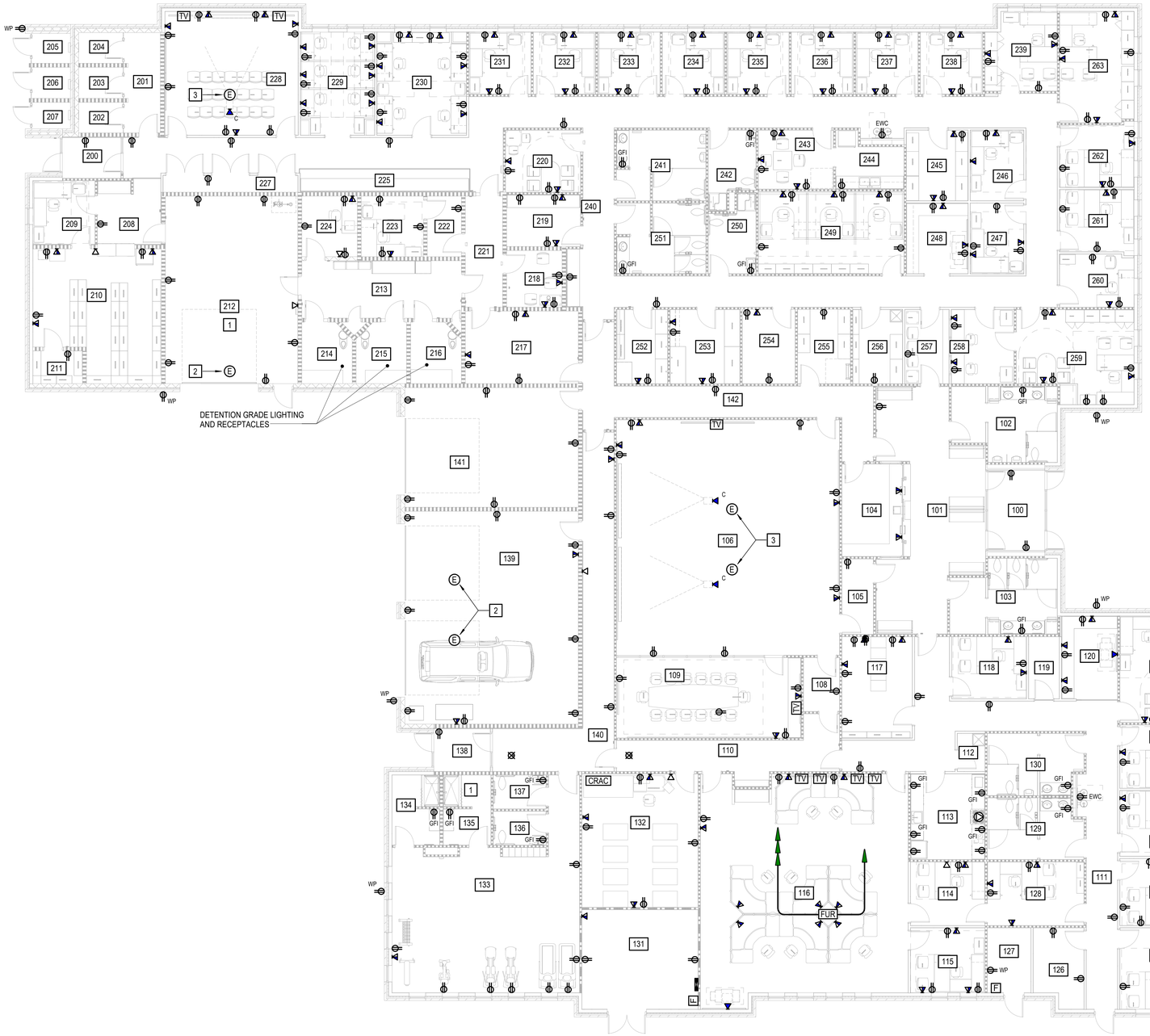
E-101

NOTES THIS SHEET

1. PROVIDE DEVICES +36" AFF. THE AREA BELOW 24" IS CONSIDERED CLASSIFIED PER NEC.
2. OVERHEAD DOOR CONNECTION; 30A, 208V, 3ø - DEDICATED CIRCUIT
3. OVERHEAD PROJECTOR; 120V - DEDICATED CIRCUIT



1ST FLOOR ROOM SCHEDULE

100	VEST.
101	LOBBY
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113	KITCHEN
114	SUPERVISOR
115	SUPERVISOR
116	EMERGENCY COMMUNICATIONS CENTER
117	RADIO ROOM / EQ.
118	EMS ASSISTANT
119	ELEC.
120	WORK/COPY
121	DIVISION CHIEF
122	OFFICE
123	OFFICE
124	T.A.C. OFFICER
125	FIRE COORDINATOR
126	STORAGE
127	SPRINK
128	EMERGENCY COMM. DIRECTOR
129	FEMALE TOILETS
130	MALE TOILETS
131	CENTRAL ELECTRICAL
132	DATA ROOM
133	FITNESS
134	SHOWER
135	SHOWER
136	TOILET
137	TOILET
138	STAFF VEST.
139	GARAGE
140	CORRIDOR
141	GARAGE
142	CORRIDOR
200	STAFF VEST.
201	KENNEL ACCESS
202	1
203	2
204	3

1ST FLOOR ROOM SCHEDULE

205	3
206	2
207	1
208	EVID PROCESS
209	EVID.OFFICE
210	EVIDENCE STORAGE
211	DRUG
212	SALLY PORT
213	BOOKING
214	HOLDING
215	HOLDING
216	HOLDING
217	MAGISTRATE
218	INTERROG.
219	MONITOR
220	INTERVIEW
221	CORRIDOR
222	CORRIDOR
223	POLYGRAPH
224	ALCOHOL BREATH
225	MAIL/WORK
227	ELEC
228	BRIEFING
229	DEPUTY / OPEN OFFICE
230	SERGEANTs
231	INVESTIG.
232	INVESTIG.
233	INVESTIG.
234	INVESTIG.
235	INVESTIG.
236	INVESTIG.
237	SUPPORT
238	SUPPORT
239	CAPTAIN
240	CORRIDOR
241	MEN
242	TOILET / SHWR
243	BREAK
244	KITCHEN
245	GEN. STOR.
246	SUPPORT
247	SUPPORT
248	WORK/COPY
249	CIVIL PROCESS
250	TOILET / SHWR
251	WOMEN
252	ARMORY
253	QUARTER MASTER
254	IT
255	EOC STOR.
256	JAN.
257	WAITING
258	SECRETARY
259	SHERIFF
260	SUPPORT
261	LEIUTENANT
262	LIEUTENANT
263	MAJOR

FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE:
1/8" = 1'-0" 5' 0' 5' 10' 20'

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HBA ARCHITECTURE & INTERIOR DESIGN, INC.
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DINWIDDIE COUNTY MUNICIPAL FACILITIES
PUBLIC SAFETY BUILDING
DINWIDDIE COUNTY, VIRGINIA

FIRST FLOOR POWER PLAN

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
COMPREHENSIVE AGREEMENT SET		9/19/2016

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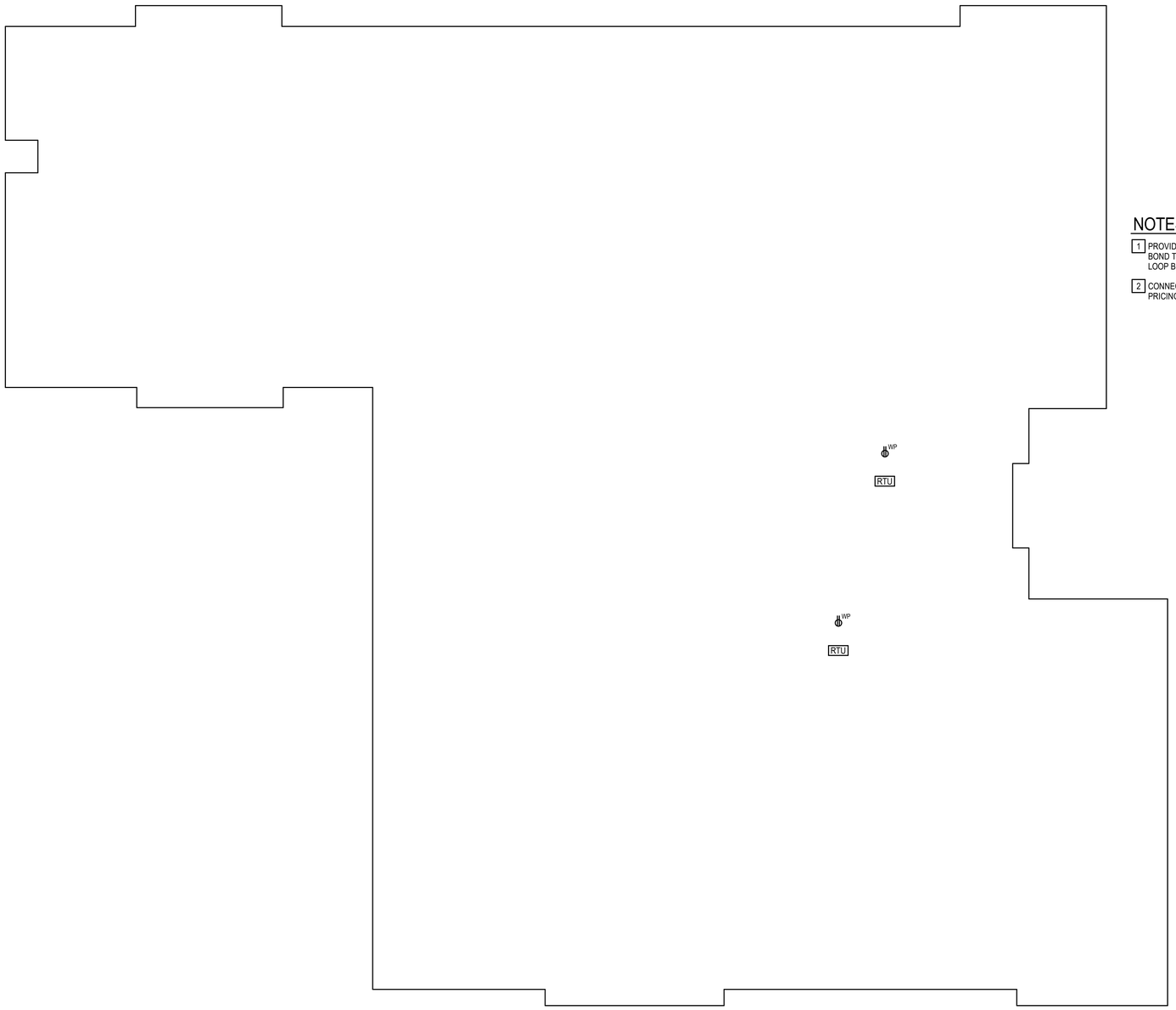

NOTES THIS SHEET

1. PROVIDE FULL LIGHNING PROTECTION SYSTEM. BOND TO ELECTRICAL SERVICE. PROVIDE GROUND LOOP BELOW GRADE AROUND BUILDING.
2. CONNECT ALL HVAC EQUIPMENT. SEE MECHANICAL PRICING DOCUMENTATION.

NOTES THIS SHEET
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

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DINWIDDIE COUNTY, VIRGINIA

ROOF POWER PLAN

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E-202

1ST FLOOR ROOM SCHEDULE

100	VEST.
101	LOBBY
102	MEN
103	WOMEN
104	RECEPT.
105	CORRIDOR
106	E.O.C. / TRAINING
108	CORRIDOR
109	CONFERENCE
110	CORRIDOR
111	CORRIDOR
112	JAN.
113	KITCHEN
114	SUPERVISOR
115	SUPERVISOR
116	EMERGENCY COMMUNICATIONS CENTER
117	RADIO ROOM / EQ.
118	EMS ASSISTANT
119	ELEC.
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122	OFFICE
123	OFFICE
124	T.A.C. OFFICER
125	FIRE COORDINATOR
126	STORAGE
127	SPRINK
128	EMERGENCY COMM. DIRECTOR
129	FEMALE TOILETS
130	MALE TOILETS
131	CENTRAL ELECTRICAL
132	DATA ROOM
133	FITNESS
134	SHOWER
135	SHOWER
136	TOILET
137	TOILET
138	STAFF VEST.
139	GARAGE
140	CORRIDOR
141	GARAGE
142	CORRIDOR
200	STAFF VEST.
201	KENNEL ACCESS
202	1
203	2
204	3

1ST FLOOR ROOM SCHEDULE

205	3
206	2
207	1
208	EVID PROCESS
209	EVID.OFFICE
210	EVIDENCE STORAGE
211	DRUG
212	SALLY PORT
213	BOOKING
214	HOLDING
215	HOLDING
216	HOLDING
217	MAGISTRATE
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219	MONITOR
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221	CORRIDOR
222	CORRIDOR
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224	ALCOHOL BREATH
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228	BRIEFING
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232	INVESTIG.
233	INVESTIG.
234	INVESTIG.
235	INVESTIG.
236	INVESTIG.
237	SUPPORT
238	SUPPORT
239	CAPTAIN
240	CORRIDOR
241	MEN
242	TOILET / SHWR
243	BREAK
244	KITCHEN
245	GEN. STOR.
246	SUPPORT
247	SUPPORT
248	WORK/COPY
249	CIVIL PROCESS
250	TOILET / SHWR
251	WOMEN
252	ARMORY
253	QUARTER MASTER
254	IT
255	EOC STOR.
256	JAN.
257	WAITING
258	SECRETARY
259	SHERIFF
260	SUPPORT
261	LEIUTENANT
262	LIEUTENANT
263	MAJOR

FIRST FLOOR SPECIAL SYSTEMS PLAN

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

NOTES THIS SHEET

1 THIS AREA IS CLASSIFIED AS USE GROUP I3. CONTRACTOR SHALL INTERFACE WITH SMOKE REMOVAL SYSTEM THIS AREA. COORDINATE WITH MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.

GRAPHIC SCALE:

1/8" = 1'-0" 5' 0' 5' 10' 20'

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PUBLIC SAFETY BUILDING

DINWIDDIE COUNTY, VIRGINIA

FIRST FLOOR SPECIAL SYSTEMS PLAN

NOT FOR CONSTRUCTION

ISSUED FOR: COMPREHENSIVE AGREEMENT SET

MARK: DATE: 9/19/2016

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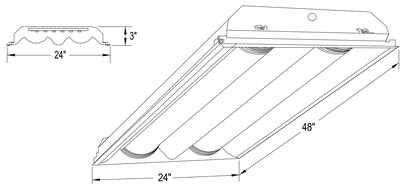


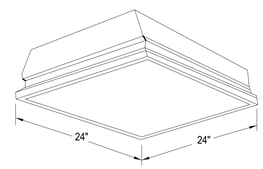
LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, ENDCAPS SECURED WITH TABS, SCREWS OR RIVETS.
2. FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED MATTE WHITE FINISH.
3. LENS - UV-STABILIZED AND IMPACT-RESISTANT FROSTED 100% ACRYLIC.
4. LAMPS - WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.
5. DRIVER SHALL HAVE POWER FACTOR >90% AND THD <20% OF FULL LOAD, WITH PROVIDE DIGITAL DRIVER COMPATABLE WITH THE LIGHTING CONTROL SYSTEM OR INTERFACE MODULE TO ENSURE FIXTURE IS FULLY COMPATABLE WITH THE LIGHTING CONTROL SYSTEM.
6. CERTIFICATION - UL LISTED AND LABELED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.
7. PROVIDE FIXTURES WITH 0-10V DIMMING.
8. LED COLOR TEMPERATURE SHALL BE 4000K.
9. FIXTURE SHALL BE CAPABLE OF PRODUCING 4900 NOMINAL LUMENS.

DETAIL BASED ON PHILLIPS DAY-BRITE "0837-AR" SERIES

TYPE		LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
A	-	4000K LED	55	120/277	RECESSED, CEILING

RECESSED 2' X 4' LED TROFFER



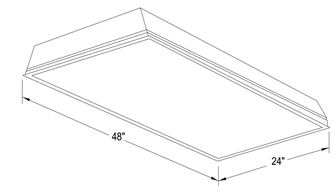
LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE CODE GAUGE STEEL, CHEMICALLY TREATED FOR RUST PREVENTION AND PAINT ADHESION. ENDS SHALL BE SECURED WITH SCREWS OR WELDED AND PAINTED WITH MINIMUM 85% REFLECTANCE WHITE ENAMEL.
2. LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION
3. MAXIMUM DEPTH OF HOUSING SHALL BE 6".
4. LENS DOOR SHALL BE EXTRUDED ALUMINUM, ASSEMBLED WITH SCREWS FOR LENS REPLACEMENT. LENS SHALL BE 0.156", PATTERN 19, PRISMATIC 100% ACRYLIC.
5. PROVIDE WITH HIGH EFFICIENCY DRIVER.
6. FIXTURE SHALL BE UL LISTED, SUITABLE FOR DAMP LOCATIONS.

DETAIL BASED ON LITHONIA LIGHTING, "TL" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
B	3,892	4000K LED	35	120/277	RECESSED, CEILING

LED RECESSED 2' X 2' LENSED TROFFER



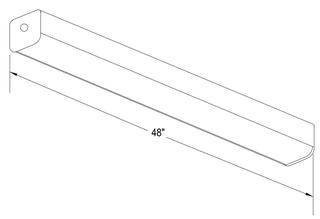
LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE CODE GAUGE STEEL, CHEMICALLY TREATED FOR RUST PREVENTION AND PAINT ADHESION. ENDS SHALL BE SECURED WITH SCREWS OR WELDED.
2. HOUSING SHALL BE PAINTED WITH MINIMUM 85% REFLECTANCE WHITE ENAMEL.
3. LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.
4. PROVIDE MOUNTING TRIM AND HARDWARE COMPATIBLE WITH CEILING MATERIAL.
5. MAXIMUM DEPTH OF HOUSING SHALL BE 3.25".
6. LENS DOOR SHALL BE EXTRUDED ALUMINUM, ASSEMBLED WITH SCREWS FOR LENS REPLACEMENT. LENS SHALL BE 0.156", PATTERN 12, PRISMATIC 100% ACRYLIC.
7. HIGH PERFORMANCE LED DRIVER FULLY ACCESSIBLE FROM BELOW WITHOUT TOOLS. LED BOARDS ARE FULLY REPLACEABLE, IF REQUIRED, VIA PLUG-IN CONNECTORS.
8. FIXTURE SHALL BE UL LISTED, SUITABLE FOR DAMP LOCATIONS.

DETAIL BASED ON LITHONIA LIGHTING, "2GTL 4 72L" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
C	7,200	4000K LED	71	120/277	RECESSED, CEILING

RECESSED 2' X 4' LENSED LED FIXTURE



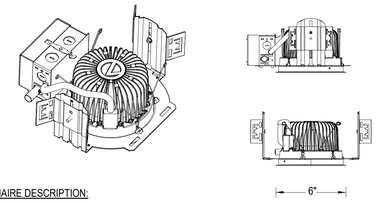
LUMINAIRE DESCRIPTION:

1. HOUSING: HEAVY DUTY EXTRUDED ALUMINUN HOUSING, FLAT END CAPS.
2. 2 LAMPS: FORTYEIGHT WHITE LEDS EACH LAMP, VERTICAL BASE-UP POSITION, 4000°K, EACH WITH CLEAR INTEGRAL LENS.
3. LENS: ACRYLIC LENS WITH FROSTED INTERIOR.
4. HIGH-EFFICIENCY, INTEGRAL ELECTRONIC LED DRIVER.
5. UL LISTED AND DAMP LOCATION LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON ALBEO LIGHTING, "ALV1" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
D	--	4000K LED	80	120/277	SURFACE MOUNT, CEILING

SURFACE MOUNT LED 4' WRAP



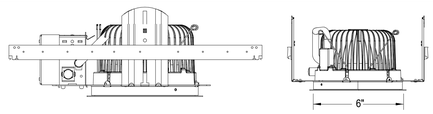
LUMINAIRE DESCRIPTION:

1. RECESSED DOWNLIGHT THAT PROVIDES VOLUMETRIC LIGHTING.
2. 16-GAUGE GALVANIZED STEEL MOUNTING/PLASTER FRAME WITH TORSION SPRING TO MOUNT OPEN CONICAL SHAPE REFLECTOR.
3. RUGGED, ONE-PIECE, DIE-CAST HOUSING WITH WHITE INTERIOR DOME REFLECTOR.
4. GALVANIZED STEEL JUNCTION BOX WITH BOTTOM-HINGED ACCESS COVERS AND SPRING LATCHES. TWO COMBINATIONS 1/2"-3/4" AND THREE 1/2" KNOCKOUTS FOR STRAIGHT-THROUGH CONDUIT RUNS. CAPACITY 8 (4 IN, 4 OUT) NO. 12 AWG CONDUCTORS, RATED FOR 90°C.
5. UTILIZES HIGH-BRIGHTNESS LEDS MOUNTED TO A METAL CORE CIRCUIT BOARD, ENSURING COOL-RUNNING OPERATION, 3500K, CRI>80.
6. HIGH-EFFICIENCY, INTEGRAL ELECTRONIC LED DRIVER.
7. UL LISTED AND DAMP LOCATION LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON LITHONIA LIGHTING, "DOM4 600L D0 6" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
E	--	4000K LED	26	120/277 UNIVERSAL	RECESSED, CEILING

RECESSED 4" LED OPEN DOWNLIGHT



LUMINAIRE DESCRIPTION:

1. RECESSED DOWNLIGHT THAT PROVIDES VOLUMETRIC LIGHTING.
2. 16-GAUGE GALVANIZED STEEL MOUNTING PAN AND YOKE ASSEMBLY.
3. REFLECTOR IS DIE-FORMED OF 0.40 LOW IRIDESCENT ALUMINUM AND SELF-FLANGED.
4. GALVANIZED STEEL JUNCTION BOX WITH BOTTOM-HINGED ACCESS COVERS AND SPRING LATCHES. TWO COMBINATIONS 1/2"-3/4" AND THREE 1/2" KNOCKOUTS FOR STRAIGHT-THROUGH CONDUIT RUNS. CAPACITY 8(4 IN, 4 OUT) NO. 12 AWG CONDUCTORS, RATED FOR 90°C.
5. UTILIZES HIGH-BRIGHTNESS LEDS MOUNTED TO A METAL CORE CIRCUIT BOARD, ENSURING COOL-RUNNING OPERATION, 3500K, CRI>80.
6. HIGH-EFFICIENCY, INTEGRAL ELECTRONIC LED DRIVER.
7. PROVIDE WITH ACRYLIC LENS.
8. CERTIFICATION: UL LISTED AND WET LOCATION AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON GOTHAM LIGHTING, "6 EVO" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
F	1000	4000K LED	18W	120	RECESSED, CEILING

RECESSED 6" LED SHOWER FIXTURE

BASIS OF DESIGN:

FIXTURES SHOWN ARE REPRESENTATIVE OF THE DESIGN INTENT AND ARE TO BE USED AS A BASIS OF DESIGN. ACTUAL SELECTIONS AND QUANTITIES ARE TO BE DEVELOPED DURING FINAL DESIGN.

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DINWIDDIE COUNTY MUNICIPAL FACILITIES
PUBLIC SAFETY BUILDING
DINWIDDIE COUNTY, VIRGINIA

LIGHTING DETAILS

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ISSUED FOR:	MARK:	DATE:
COMPREHENSIVE AGREEMENT SET		9/19/2016

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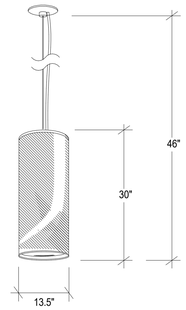


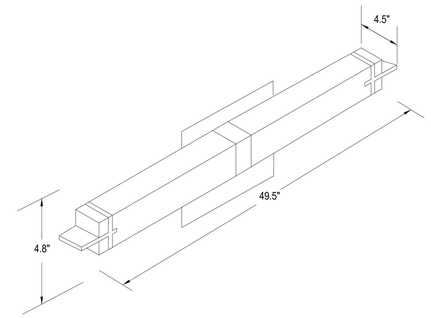
LUMINAIRE DESCRIPTION:

1. CANOPY SHALL BE PAINTED WHITE.
2. MATE WHITE ACRYLIC CYLINDER BODY.
3. HIGH POWER FACTOR CANOPY MOUNTED DRIVER WITH LED BODY LIGHT DIMMING 0V-10V.
4. PROVIDE WITH DOWNLIGHT OPTION.
5. UL LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON SPI LIGHTING, "AIP SAVANNAH" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
G	--	WHITE LED 4000K	102W	120	PENDANT, CEILING

CLASSIC LED PENDANT



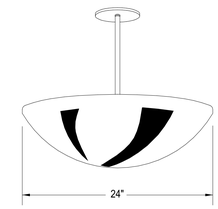
LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE STEEL CONSTRUCTION, SATIN NICKEL FINISH.
2. FIXTURE SHALL HAVE PLATED PRESSURE FORMED FRAME.
3. DIFFUSER SHALL BE MULTI LAYER WHITE GLASS.
4. BALLAST SHALL BE ELECTRONIC, WITH THD < 20%, HIGH POWER FACTOR (≥ .95) CLASS P ELECTRONIC BALLAST WITH A SOUND RATING OF "A". PROVIDE BALLAST WITH "FINGER SAFE" DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73(G).

DETAIL BASED ON TECH LIGHTING, "METRO LONG" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
H	--	4000K LED	58	120/277 UNIVERSAL	APPROVE FINAL HEIGHT WITH OWNER/ARCHITECT

BATHROOM WALL SCONCE



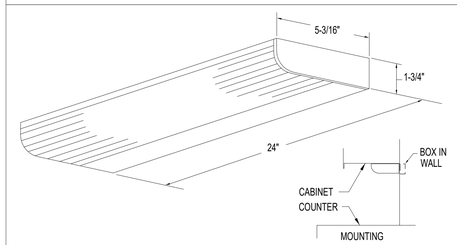
LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE SPUN FROM .063 THICK BASE MATERIAL (ALUMINUM) TRIM RINGS, CHASSIS IS FORMED FROM 18 GUAGE COLD-ROLLED STEEL WITH 3/8 IP (.6888" DIA.) STEM.
2. FORMED ACRYLIC BOWL WITH A MINIMUM WALL THICKNESS OF .118". OPAL FINISH IS STANDARD.
3. HIGH-EFFICIENCY, INTEGRAL ELECTRONIC LED DRIVER.
4. FIXTURE SHALL MOUNT TO 4" OCTAGONAL BOX WITH 45° SWIVEL CANOPY IS STANDARD AND MEETS ALL EARTHQUAKE RELATED CODES.
5. UL LISTED AND DAMP LOCATION LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON SPI LIGHTING, "AIP B152" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
J	--	WHITE LED 4000 K	---	120/277 UNIVERSAL	PENDANT, CEILING

LED PENDANT



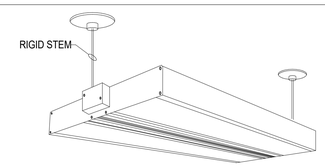
LUMINAIRE REQUIREMENTS

1. HOUSING SHALL BE EXTRUDED MARINE-GRADE ALUMINUM, TGIC POLYESTER COAT FINISH WITH FIVE-STEP PRETREATMENT. ANTIMICROBIAL FINISH STANDARD ON HOUSING AND DRIVER COVER.
2. FIXTURE SHALL BE UTILIZED WITH ELECTRONIC DRIVER.
3. LENS SHALL BE HIGH-IMPACT RESISTANT, EXTRUDED FROST, 100% ACRYLIC.
4. LED'S SHALL HAVE A COLOR TEMPERATURE OF 4000°K AND A COLOR RENDERING INDEX MINIMUM OF 80 CRI.
5. FIXTURE SHALL BE UL LISTED FOR DAMP LOCATIONS.

DETAIL BASED ON KENALL LIGHTING "AUC/MAUC" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
K	-	LED	13W	120	SURFACE MOUNTED, UNDERCABINET

LED UNDERCABINET LIGHTING FIXTURE



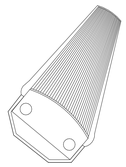
LUMINAIRE DESCRIPTION:

1. HOUSING: DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY. ENDCAPS SECURED WITH TABS, SCREWS OR RIVETS. FIXTURE SHALL NOT PERMANENTLY DEFORM OUT OF "SQUARE" WHEN PICKED UP FROM ANY CORNER. DEPTH AS INDICATED.
2. FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED MATTE WHITE FINISH.
3. LENS: UV-STABILIZED AND IMPACT-RESISTANT FROSTED 100%%% ACRYLIC WITH MINIMUM 0.120" THICKNESS.
4. LAMPS: THREE HUNDRED TWENTY WHITE EMITTING DIODES (LEDS), VERTICAL BASE UP POSITION 4000°K.
5. DRIVER: HIGH PERFORMANCE LED DRIVER, FULLY ACCESSIBLE FROM BELOW THE CEILING. 120/277V.
6. PROVIDE WITH STEP DIMMING WHERE CONTROLLED BY DUAL-LEVEL SWITCHING.
7. UL LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON FINELITE LIGHTING, "HPR-LED" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
L	--	4000K LED	68	120/277	SURFACE PENDANT, CEILING

2' x 4' VOLUMETRIC LED



LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE HARD ANODIZED EXTRUDED ALUMINUM WITH FINS FOR PROPER HEAT MANAGEMENT.
2. PROVIDE WITH 4000K LED.
3. FIXTURE SHALL HAVE POLYCARBONATE LENS.
4. FIXTURE SHALL BE APPROXIMATELY 48" LONG.
5. PROVIDE WITH 12VDC POWER SUPPLY/ DRIVER SHALL BE PROVIDED FOR COMPLETE INSTALLATION.
6. FIXTURE COLOR SHALL BE ALUMINUM, PLASTIC MOUNTING BRACKET INCLUDED.
7. UL LISTED AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON EATON LIGHTING, "H VL" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
M	--	4000K LED	12	277	SURFACE WALL, MOUNT X'-0" AFF. APPROVE FNL HT. WITH OWNER/ARCHITECT

VANDAL RESISTANT LED

BASIS OF DESIGN:

FIXTURES SHOWN ARE REPRESENTATIVE OF THE DESIGN INTENT AND ARE TO BE USED AS A BASIS OF DESIGN. ACTUAL SELECTIONS AND QUANTITIES ARE TO BE DEVELOPED DURING FINAL DESIGN.

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PUBLIC SAFETY BUILDING
DINWIDDIE COUNTY, VIRGINIA

LIGHTING DETAILS

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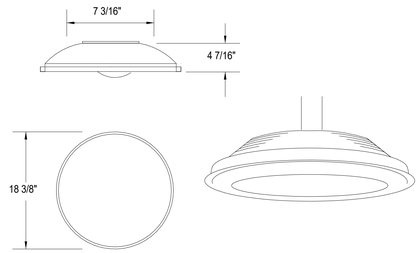


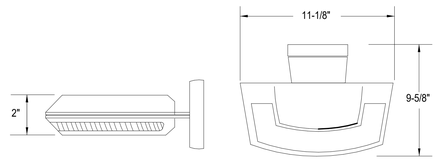
LUMINAIRE DESCRIPTION:

1. HOUSING: DIE CAST ALUMINUM HOUSING.
2. FINISH: POLYESTER POWDER FINISH, IMPACT, CORROSION AND UV RESISTANCE.
3. LENS: GLASS LENS.
4. DRIVER: HIGH PERFORMANCE ELECTRONIC LED DRIVER, FULLY ACCESSIBLE FROM BELOW THE CEILING.
5. PROVIDE 10kv SURGE PROJECTOR.
6. UL LISTED AND WET LOCATION LISTED IP66, TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON COOPER MCGRAW EDISON LIGHTING, "TOP TIER (TT)" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
N	11,201	4000K LED	108	120/277 UNIVERSAL	SURFACE MOUNT/PENDANT

LED FIXTURE



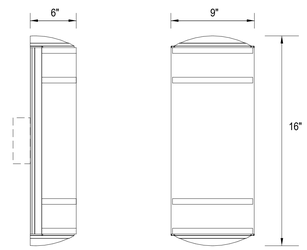
LUMINAIRE DESCRIPTION:

1. HOUSING SHALL BE WEATHER RESISTANT ALUMINUM HOUSING WITH BRONZE FINISH.
2. LENS: PROVIDE WITH A CLEAR POLYCARBONATE LENS.
3. ELECTRICAL : LIGHTING OUTPUT PROVIDED BY 8-LED. STANDARD WITH MULTI-VOLT PHOTOCELL WHICH CAN BE DISABLED BY ROTATING THE PHOTOCELL COVER AND 6KV SURGE PROTECTION.
4. DRIVER: HIGH PERFORMANCE M-VOLT ELECTRONIC DRIVER.
5. LABELS: FIXTURE SHALL BE UL LISTED FOR WET LOCATIONS AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON LITHONIA LIGHTING, "OLW" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
S	3970	4000K LED	33	120/277	SURFACE, WALL MOUNT

LED WALL PACK



LUMINAIRE REQUIREMENTS:

1. HOUSING SHALL BE ALL ALUMINUM CONSTRUCTION.
2. DIFFUSER SHALL BE SMOOTH WHITE ACRYLIC, UV STABLE, ACCENT BARS SHALL BE EXTRUDED ALUMINUM.
3. FINISHED: BRUSHED ALUMINUM.
4. INTEGRAL ACRYLIC/STEEL FRAME, SEALED CONSTRUCTION.
5. ELECTRICAL SYSTEM: PROVIDE HIGH POWER FACTOR, ELECTRONIC, LOW HARMONIC, UNIVERSAL VOLTAGE DRIVER.
6. INSTALLATION: MOUNT TO WALL WITH KEY HOLE SLOTS ON TOP AND BOTTOM.
7. LISTING: UL LISTED FOR WET LOCATIONS.

DETAIL BASED ON LIGHTWAY, "DKAW" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
T	1250	4000K LED	111	120/277	SURFACE, WALL.

WALL MOUNT SCONCE

LUMINAIRE REQUIREMENTS

1. ALUMINUM HOUSING WITH HIGH-POLISH, INJECTION-MOLDED VIRGIN ACRYLIC EDGE-LIT PANEL. GRADUATED DEPTH OF MOLDED LETTERS PROVIDES UNIFORM LIGHT DISTRIBUTION ON GRAPHICS.
2. 6 INCH TALL LETTERS.
3. RED ILLUMINATION PROVIDED BY LIGHT EMITTING DIODES (LED).
4. DIRECTIONAL ARROWS AS INDICATED.
5. UNIVERSAL MOUNTING.
6. BRUSHED ALUMINUM AND CLEAR ACRYLIC FINISH.
7. POWER FAILURE PROTECTION, BROWN OUT PROTECTION AND SURGE PROTECTION.
8. SEALED MAINTENANCE FREE NICKEL CADMIUM BATTERY WITH SOLID STATE CHARGER, WITH OVERCHARGE PROTECTION.
9. TEST BUTTON IN BOTTOM OF HOUSING.
10. INDICATOR LIGHTS IN FACE TO INDICATE WHEN UNIT IS ON NORMAL POWER OR ON BATTERY POWER.

DETAIL BASED ON DUAL-LITE, "LE" SERIES

FIXTURE TYPE	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	LED	5	277	UNIVERSAL MOUNT, CEILING, WALL

EDGE-LIT EXIT LIGHT

BASIS OF DESIGN:

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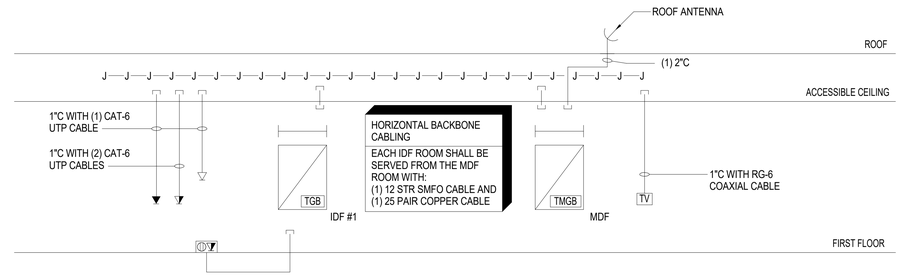
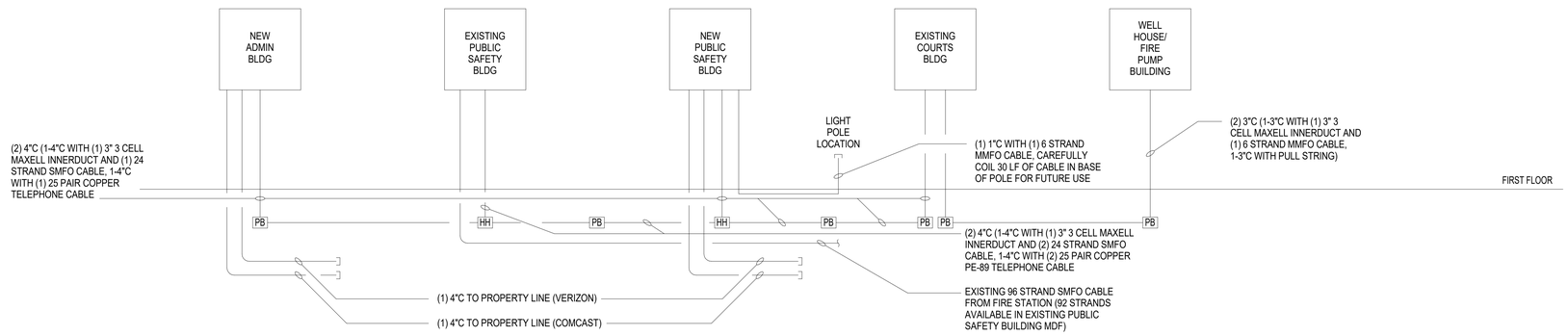


TELECOMMUNICATIONS RISER DIAGRAM - ISP

NO SCALE



TELECOMMUNICATIONS RISER DIAGRAM - OSP

NO SCALE

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RISER DIAGRAM

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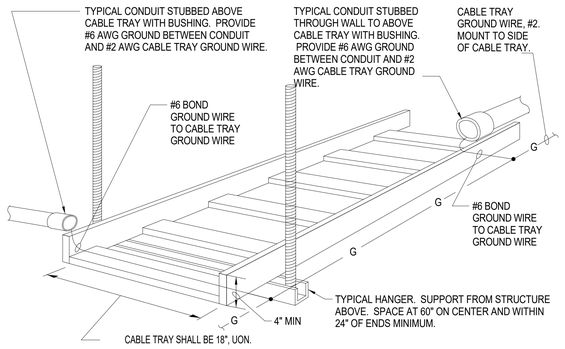
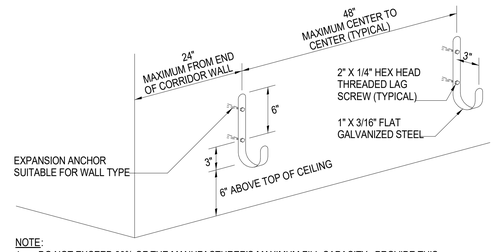


NOTES:
1. CONTRACTOR SHALL PROVIDE PATHWAY FOR ALL LISTED SYSTEMS CABLING. TRAY MUST COMPLY WITH NEC FOR CABLE TRAY FILL REQUIREMENTS. IN NO CASE MAY THE CABLE TRAY BE LESS THAN THE STATED MINIMUM SIZE.
2. MOUNT CABLE TRAY AT A MINIMUM OF 12" BELOW MECHANICAL DUCT WORK BUT AS HIGH AS POSSIBLE TO AVOID TAMPERING.
3. TYPICAL MOUNT OVER RACKS IN TELCOM ROOM.

LADDER CABLE TRAY DETAIL

TELECOMMUNICATIONS ROOMS ONLY

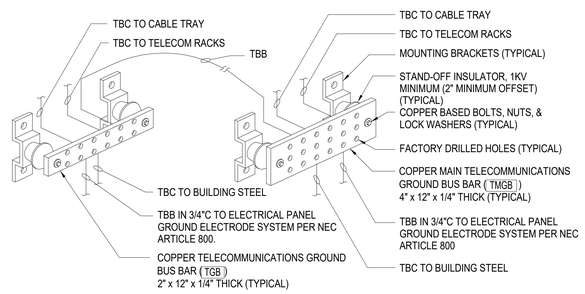
NO SCALE



NOTE:
1. DO NOT EXCEED 80% OF THE MANUFACTURER'S MAXIMUM FILL CAPACITY. PROVIDE THIS INFORMATION WITHIN SUBMITTALS FOR VERIFICATION. PROVIDE ADDITIONAL TIERS AS REQUIRED TO ENSURE ALL CABLES ARE PROPERLY SUPPORTED.

J-HOOK CABLE MANAGEMENT DETAIL (WALL MOUNT)

NO SCALE



CONTRACTOR SHALL SIZE TELECOMMUNICATIONS GROUNDING AND BONDING INFRASTRUCTURE PER ANSI J-STD-607-B	
TBB/TBC LENGTH M (FT)	TBB/TBC SIZE (AWG)
LESS THAN 4 (13)	6
4 - 6 (14 - 20)	4
6 - 8 (21 - 26)	3
8 - 10 (27 - 33)	2
10 - 13 (34 - 41)	1
13 - 16 (42 - 52)	1/0
16 - 20 (53 - 66)	2/0
20 - 26 (67 - 84)	3/0
26 - 32 (85 - 105)	4/0
32 - 38 (106 - 125)	250kcmil
38 - 46 (126 - 150)	300kcmil
46 - 53 (151 - 175)	350kcmil
53 - 76 (176 - 250)	500kcmil
76 - 91 (251 - 300)	600kcmil
GREATER THAN 91 (301)	750kcmil
TBB - TELECOMMUNICATIONS BONDING BACKBONE TBC - TELECOMMUNICATIONS BONDING CONDUCTOR	

TYPICAL GROUND BUS BAR DETAIL

NO SCALE

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SPECIAL SYSTEMS DETAILS

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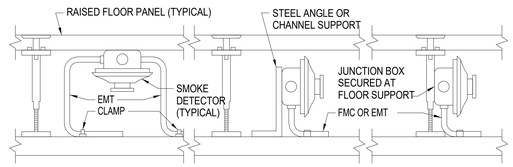
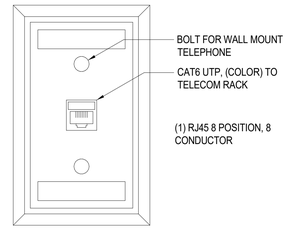


NOTE: ANY OF THE CONFIGURATIONS SHOWN ABOVE ARE ACCEPTABLE PER NFPA 72. PROVIDE MOUNTING OF DETECTORS IN ACCORDANCE WITH ON OF THE METHODS SHOWN.

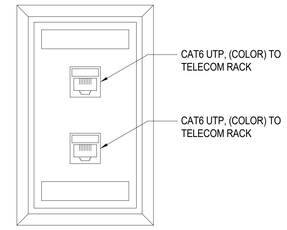
UNDERFLOOR SMOKE DETECTOR MOUNTING ARRANGEMENTS

NO SCALE



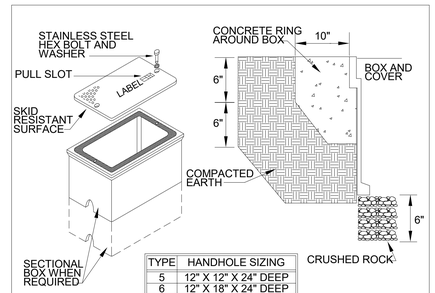
WALL MOUNT TELEPHONE DETAIL

NO SCALE



TELECOM OUTLET

NO SCALE



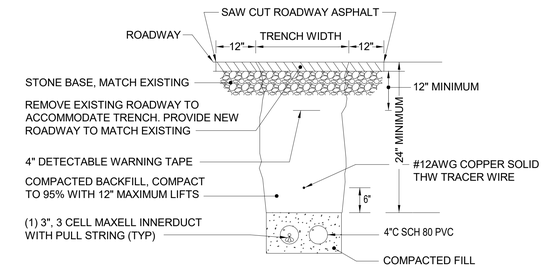
TYPE	HANDHOLE SIZING
5	12" X 12" X 24" DEEP
6	12" X 18" X 24" DEEP
7	12" X 24" X 24" DEEP
8	24" X 36" X 24" DEEP
9	30" X 48" X 24" DEEP

HANDHOLE REQUIREMENTS

1. HOUSING SHALL BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
2. COVER AND BOX SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" x 10" AREA.
3. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
4. PROVIDE WITH (2) 2 1/2" MOUSEHOLES.
5. PROVIDE LABEL "ELECTRICAL" FOR POWER HANDHOLES OR "TELEPHONE" FOR TELEPHONE HANDHOLES, OR AS INDICATED.

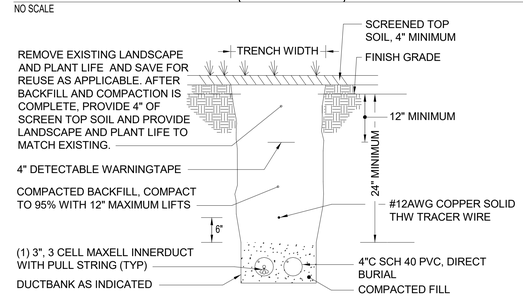
STANDARD ELECTRICAL HANDHOLE (NONTRAFFIC) (COMPOSITE/FIBERGLASS) TYPES 5, 6, 7, 8 & 9

SKETCH DATE	JUNE 2002	STYLE	UG-6



DUCTBANK TRENCH DETAIL (PAVED AREA) - TYPE B

NO SCALE



DUCTBANK TRENCH DETAIL (GRASS AREA) - TYPE A

NO SCALE

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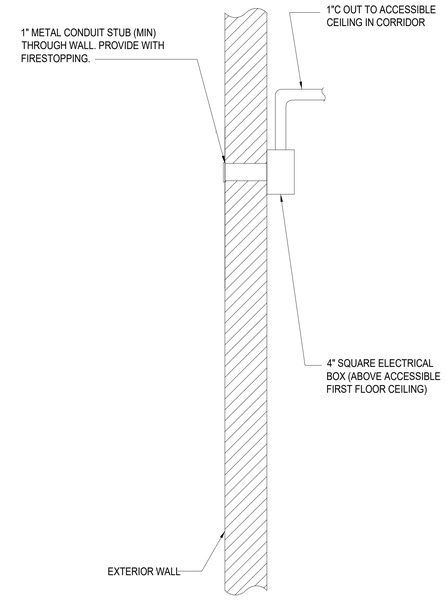
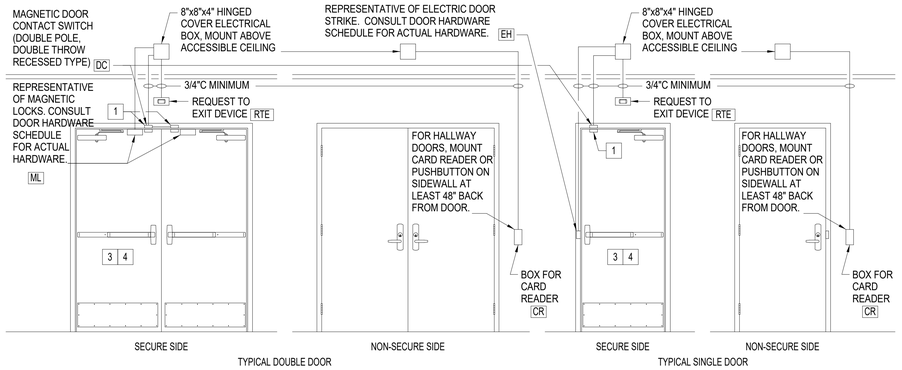


EXTERIOR WALL MOUNT CAMERA DETAIL

NO SCALE

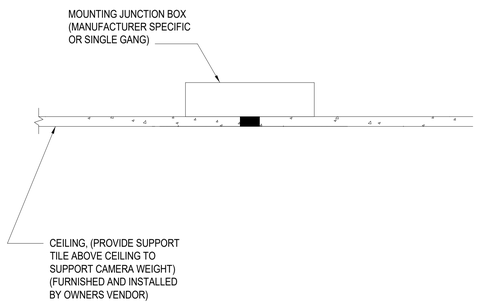


NOTES:

1. DOOR FRAME TO BE PRE-DRILLED FOR DOOR CONTACTS AND DOOR ELECTRIFIED HARDWARE. COORDINATE INSTALLATION WITH DOOR HARDWARE PROVIDER.
2. ELECTRICAL CONTRACTOR TO PROVIDE PATHWAYS AND PULLSTRINGS FOR OWNERS VENDOR ACCESS CONTROL SYSTEM.
3. COORDINATE DOOR HARDWARE WITH ARCHITECTURAL DOOR SCHEDULE.
4. ALL DOOR HARDWARE (LOCKS, HINGES, EXIT DEVICES) TO BE PROVIDED BY DOOR HARDWARE PROVIDER.

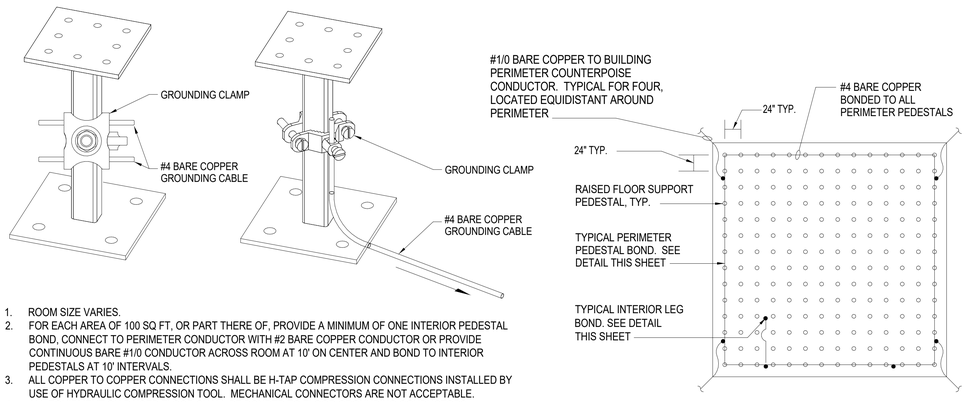
TYPICAL SECURITY DOOR CONFIGURATION

NO SCALE



INTERIOR CEILING MOUNT CAMERA DETAIL

NO SCALE



1. ROOM SIZE VARIES.
2. FOR EACH AREA OF 100 SQ FT, OR PART THERE OF, PROVIDE A MINIMUM OF ONE INTERIOR PEDESTAL BOND, CONNECT TO PERIMETER CONDUCTOR WITH #2 BARE COPPER CONDUCTOR OR PROVIDE CONTINUOUS BARE #1/0 CONDUCTOR ACROSS ROOM AT 10' ON CENTER AND BOND TO INTERIOR PEDESTALS AT 10' INTERVALS.
3. ALL COPPER TO COPPER CONNECTIONS SHALL BE H-TAP COMPRESSION CONNECTIONS INSTALLED BY USE OF HYDRAULIC COMPRESSION TOOL. MECHANICAL CONNECTORS ARE NOT ACCEPTABLE.
4. ALL EQUIPMENT ON RAISED FLOOR SHALL BE BONDED TO FLOOR GROUNDING CONDUCTORS.

PERIMETER PEDESTAL BOND RAISED FLOOR GROUNDING DETAIL

NO SCALE

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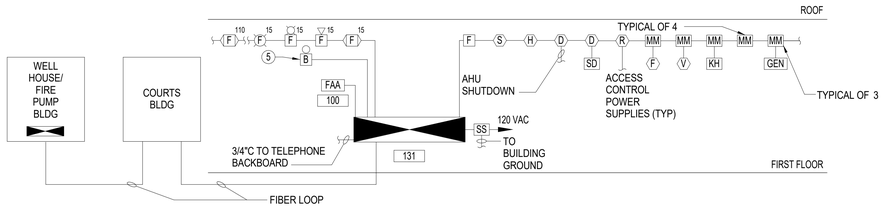

NOTES:

1. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF SYSTEM COMPONENTS. QUANTITIES SHOWN HERE ARE EXAMPLE ONLY. CERTAIN VENDOR DETERMINED ITEMS, SUCH AS MONITOR MODULES AND CONTROL MODULES ARE NOT SHOWN ON THE FLOOR PLANS.
2. PROVIDE WIRING PER MANUFACTURER'S INSTRUCTIONS IN 3/4"C MINIMUM.
3. CONTRACTOR SHALL DETERMINE QUANTITY AND SIZE OF CONDUITS, ENCLOSURE AND JUNCTION BOXES TO COMPLY WITH MANUFACTURER'S RECOMMENDED INSTALLATION REQUIREMENTS.
4. DO NOT LOAD ANY CIRCUIT BEYOND 80% OF RATED CAPACITY. SUBMIT CALCULATIONS TO SUBSTANTIATE. ADD ADDITIONAL CIRCUITS AS NECESSARY. PROVIDE NOTIFICATION EXTENDER PANELS, POWER SUPPLIES, ETC. AS REQUIRED. CONTRACTOR TO PROVIDE 120V FROM CLOSEST UNSWITCHED CIRCUIT, OR AS INDICATED.
5. PROVIDE BELL ON SEPARATE CIRCUIT THAT ALARMS ONLY ON SPRINKLER WATERFLOW ACTIVATION.

FIRE ALARM RISER DIAGRAM TYPICAL (1), (2), (3), (4)

NO SCALE

		ACTUATE COMMON ALARM SIGNAL	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ACTIVATE DISPLAY ON FACP AND ANNUNCIATORS	ACTUATE AUDIBLE EVACUATION SIGNALS	ACTIVATE VISUAL EVACUATION SIGNALS	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	SIGNAL ACCESS CONTROL SYSTEM FOR DOOR RELEASE	SHUTDOWN ASSOCIATED KITCHEN GAS AND ELECTRIC SERVICE	SHUTDOWN ASSOCIATED AHU	ACTIVATE SMOKE EXHAUST CONTROL SYSTEM	
		CONTROL UNIT ANNUNCIATION							NOTIFICATION					F.S.C	SUPPLEMENTARY			
	SYSTEM INPUTS BELOW	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
1	MANUAL FIRE ALARM BOXES	X	X					X	X	X	X			X			X	1
2	SMOKE DETECTORS - HOLDING AREA	X	X					X	X	X	X			X			X	2
3	SMOKE DETECTORS	X	X					X	X	X	X			X				3
4	DUCT SMOKE DETECTORS FOR AHU'S			X	X			X				X				X		4
5	KITCHEN HOOD MONITOR MODULE	X	X					X	X	X	X			X	X			5
6	HEAT DETECTORS	X	X					X	X	X	X			X				6
7	WATERFLOWS	X	X					X	X	X	X			X			X	7
8	SPRINKLER CONTROL VALVES TAMPER SWITCH			X	X			X				X						8
9	FIRE PUMP RUNNING			X	X			X	X	X	X			X				9
10	FIRE PUMP POWER FAILURE/PHASE REVERSAL					X	X	X					X					10
11	FIRE PUMP POWER PHASE LOST					X	X	X					X					11
12	FIRE PUMP ALTERNATE POWER SOURCE					X	X	X					X					12
13	GENERATOR RUNNING			X	X			X				X						13
14	GENERATOR FAULT			X	X			X				X						14
15	GENERATOR SWITCH IN NONAUTOMATIC POSITION			X	X			X				X						15
16	FIRE ALARM AC POWER FAILURE					X	X	X					X					16
17	FIRE ALARM SYSTEM LOW BATTERY					X	X	X					X					17
18	OPEN CIRCUIT					X	X	X					X					18
19	GROUND FAULT					X	X	X					X					19
20	NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X	X					X					20
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

NO SCALE

HBA
HBA ARCHITECTURE & INTERIOR DESIGN, INC.
ONE COLUMBUS CENTER, SUITE 1000
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DINWIDDIE COUNTY MUNICIPAL FACILITIES
PUBLIC SAFETY BUILDING
DINWIDDIE COUNTY, VIRGINIA

SPECIAL SYSTEMS DETAILS

NOT FOR CONSTRUCTION

ISSUED FOR: MARK: DATE:
COMPREHENSIVE AGREEMENT SET 9/19/2016

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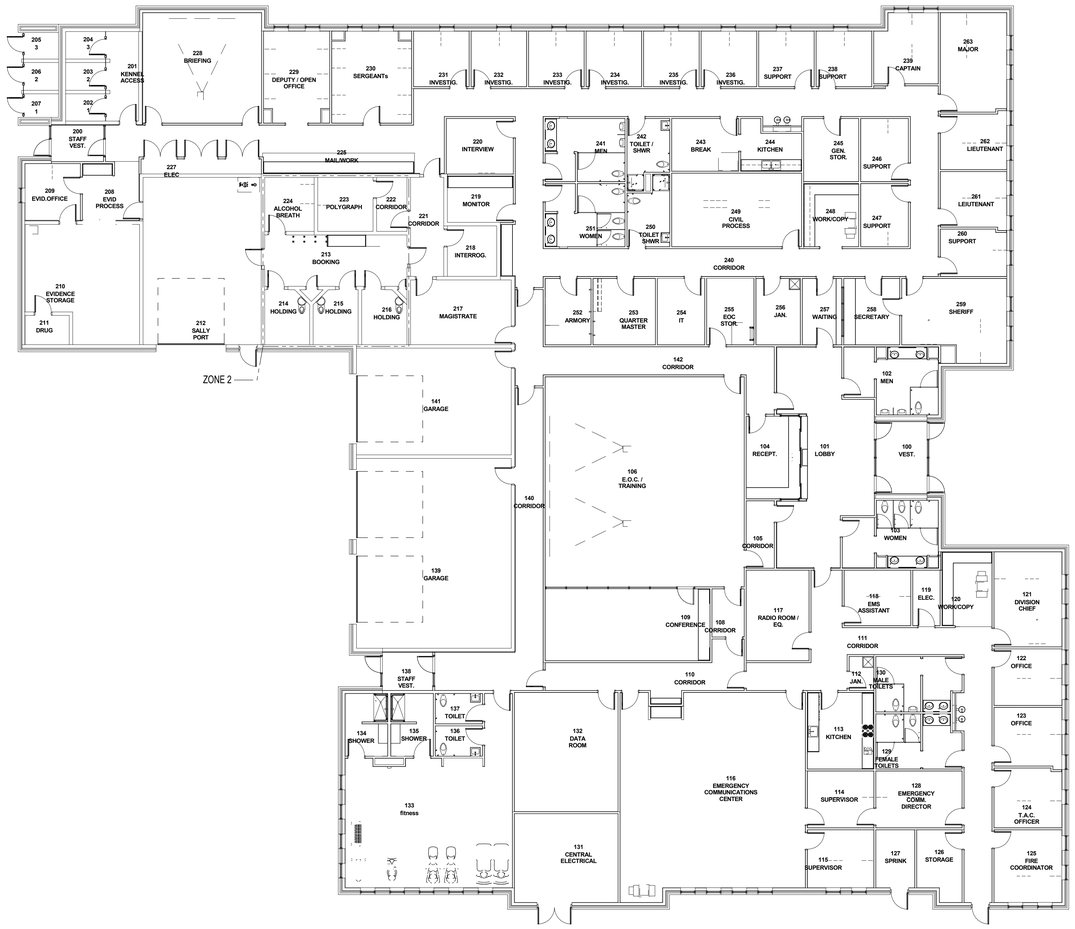
CITY OF DINWIDDIE PUBLIC SAFETY BUILDING
ANNUNCIATOR AND SMOKE CONTROL PANEL



SMOKE CONTROL ZONE 1

- Ⓡ PRESSURIZE
- AUTO
- Ⓡ EXHAUST

- Ⓡ AUTOMATIC OPERATION INITIATED
- Ⓐ TEST MODE ACTIVATED
- Ⓡ MANUAL OVERRIDE INITIATED
- Ⓖ NORMAL
- Ⓐ FAULT

SMOKE CONTROL ZONE 2

- Ⓡ PRESSURIZE
- AUTO
- Ⓡ EXHAUST

- Ⓡ AUTOMATIC OPERATION INITIATED
- Ⓐ TEST MODE ACTIVATED
- Ⓡ MANUAL OVERRIDE INITIATED
- Ⓖ NORMAL
- Ⓐ FAULT

SMOKE CONTROL PANEL - DIAGRAM (SEE E301 FOR NOTES)

NO SCALE

SMOKE CONTROL PANEL - NOTES

1) CIRCLES ON DRAWING REPRESENT LIGHT EMITTING DIODES (LED'S). LETTERS REPRESENT THE FOLLOWING:

   R = RED FOR ALARM
   A = AMBER FOR TROUBLE
   G = GREEN FOR SUPERVISORY OR NORMAL

2) LED'S ASSOCIATED WITH SWITCHES FOR SMOKE CONTROL SHALL BE ACTIVATED FROM FIRE ALARM SYSTEM OUTPUT THAT ACTUATES AT THE SAME TIME AS THE REQUIRED FUNCTION. DO NOT CONNECT LED DIRECTLY TO CONTACT ON SWITCH.

3) "PRESSURIZE" AND "EXHAUST" LEDS SHALL INDICATE THAT THE NECESSARY DEVICES ARE OPERATIONAL AND/OR IN THE CORRECT POSITION, SEE SEQUENCE OF OPERATION. HVAC EQUIPMENT VERIFICATION SHALL BE DETERMINED BY MEANS OF PHYSICAL CONFIRMATION OF AIR MOVEMENT. SMOKE DAMPER VERIFICATION SHALL BE DETERMINED BY MEANS OF PHYSICAL CONFIRMATION OF DAMPER POSITION.

4) "FAULT" LED SHALL INDICATE FAILURE TO RECEIVE POSITIVE CONFIRMATION AFTER ACTIVATION WITHIN 200 SECONDS.

5) WHEN SMOKE CONTROL PANEL IS IN TEST MODE, TROUBLE SIGNAL SHALL BE SENT TO THE FIRE ALARM PANEL.

6) A TROUBLE SIGNAL SHALL BE SENT TO THE FIRE ALARM PANEL WHEN THE FOLLOWING COMPONENTS DO NOT ACHIEVE THEIR DESIRED OPERATIONAL MODE OR POSITION IN THE TIME SPECIFIED.

   FAN OPERATION AT THE DESIRED STATE: 60 SECONDS
   COMPLETION OF DAMPER TRAVEL: 75 SECONDS

SEQUENCE OF OPERATION: (BY FIRE ALARM CONTROL PANEL)

FIRE ALARM CONTRACTOR TO PROVIDE ALL INTERFACE (MONITORING, CONTROL, AND PROGRAMMING) TO PROVIDE A FULLY OPERATIONAL SMOKE CONTROL SYSTEM IN ACCORDANCE WITH THE FOLLOWING ZONE SEQUENCES.

MANUAL SMOKE CONTROL OPERATION

ACTIVATION OF SWITCHES ON SMOKE CONTROL PANEL SHALL OVERRIDE ALL OTHER MODES OF OPERATION.

ZONE 1: (HOLDING CELL)

PRESSURIZED MODE (MANUAL)
ALL DUCT SMOKE DAMPERS SHALL CLOSE. THE FOLLOWING HVAC EQUIPMENT SHALL ENERGIZE OR REMAIN ENERGIZED, ANY HVAC EQUIPMENT NOT SPECIFIED BELOW SHALL DE-ENERGIZE OR REMAIN DE-ENERGIZED.
SF - XXX
VAV'S - XXX

AUTO MODE (AUTOMATIC)
SEE SEQUENCE OF OPERATION FOR SMOKE CONTROL ON SHEET M-301.

EXHAUST MODE (MANUAL)
ALL DUCT SMOKE DAMPERS SHALL CLOSE. THE FOLLOWING HVAC EQUIPMENT SHALL ENERGIZE OR REMAIN ENERGIZED, ANY HVAC EQUIPMENT NOT SPECIFIED BELOW SHALL DE-ENERGIZE OR REMAIN DE-ENERGIZED.
SF - XXX
EF - XXX
EF - XXX

ZONE 2: (SURROUNDING AREA)

PRESSURIZED MODE (MANUAL)
ALL DUCT SMOKE DAMPERS SHALL CLOSE. THE FOLLOWING HVAC EQUIPMENT SHALL ENERGIZE OR REMAIN ENERGIZED, ANY HVAC EQUIPMENT NOT SPECIFIED BELOW SHALL DE-ENERGIZE OR REMAIN DE-ENERGIZED.
SF - XXX
VAV'S - XXX
AUTO MODE (AUTOMATIC)
SEE SEQUENCE OF OPERATION FOR SMOKE CONTROL ON SHEET M-303.

EXHAUST MODE (MANUAL)
ALL DUCT SMOKE DAMPERS SHALL CLOSE. THE FOLLOWING HVAC EQUIPMENT SHALL ENERGIZE OR REMAIN ENERGIZED, ANY HVAC EQUIPMENT NOT SPECIFIED BELOW SHALL DE-ENERGIZE OR REMAIN DE-ENERGIZED.
SF - X
EF - XX
EF - XX

HBA ARCHITECTURE & INTERIOR DESIGN, INC.
ONE COLUMBUS CENTER, SUITE 1000
VIRGINIA BEACH, VIRGINIA 23462
PHONE: (757) 490-9048
FAX: (757) 490-7081

DINWIDDIE COUNTY MUNICIPAL FACILITIES
PUBLIC SAFETY BUILDING
DINWIDDIE COUNTY, VIRGINIA

SMOKE CONTROL PANEL DIAGRAM

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
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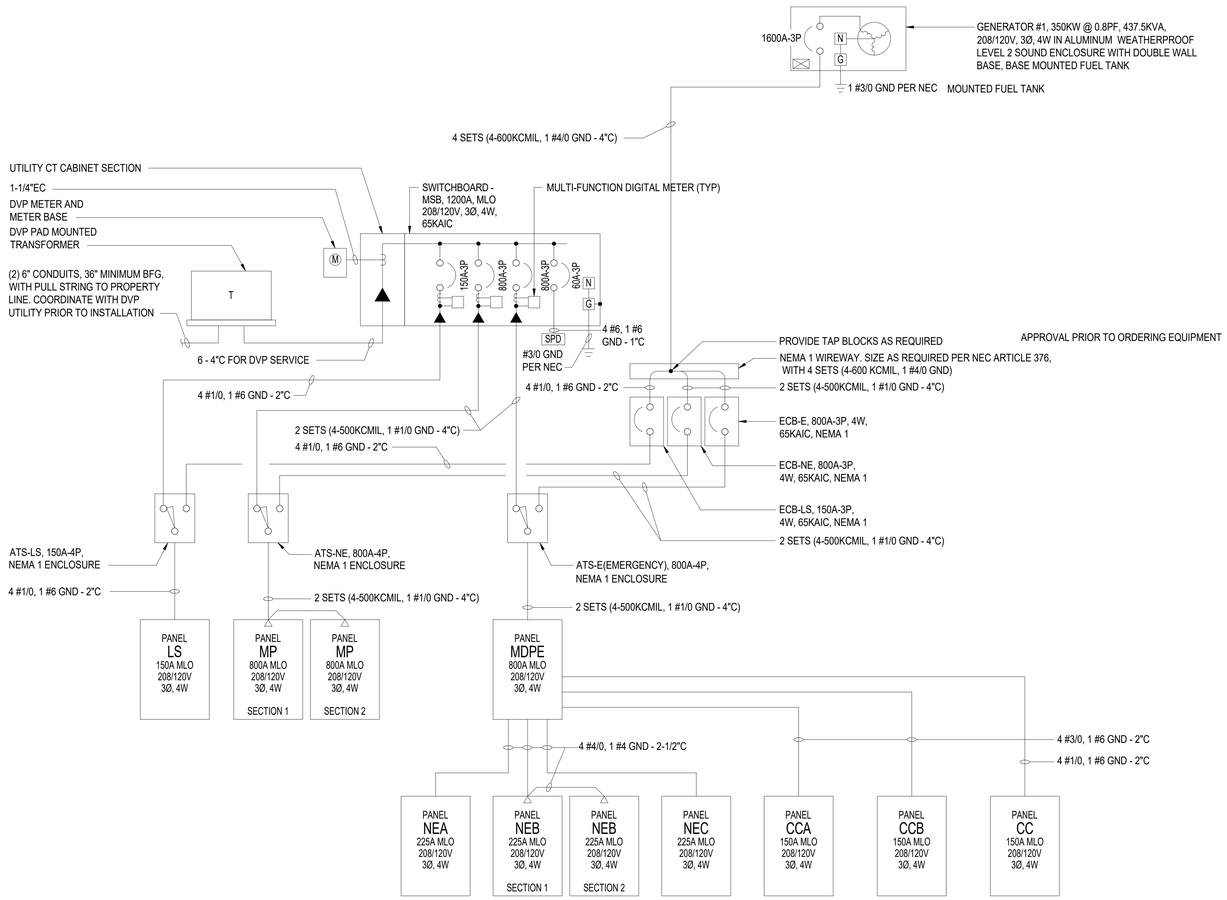
E-606



ONE-LINE POWER RISER DIAGRAM - PUBLIC SAFETY BUILDING

NO SCALE

APPROVAL PRIOR TO ORDERING EQUIPMENT

FAULT CURRENT

PROVIDE ALL 208/120V PANELS WITH A SHORT CIRCUIT RATING OF 65 KAIC. CONTACT THE LOCAL POWER COMPANY PRIOR TO SUBMITTING SHOP DRAWINGS AND IF THE AVAILABLE FAULT CURRENT IS LESS THAN OR MORE THAN THIS AMOUNT, THEN NOTIFY THE OWNER IN WRITING & PROVIDE APPROPRIATE POWER EQUIPMENT.

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DINWIDDIE COUNTY MUNICIPAL FACILITIES

PUBLIC SAFETY BUILDING

DINWIDDIE COUNTY, VIRGINIA

POWER RISER DIAGRAM

NOT FOR CONSTRUCTION

ISSUED FOR:	MARK:	DATE:
COMPREHENSIVE AGREEMENT SET		9/19/2016

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E-607

Dinwiddie County Administration Office
Deputy County Administrator,
Finance & General Services
14016 Boydton Plank Road
Dinwiddie, VA 23841
Phone: (804) 469-4500x2106
Fax: (804) 469-4503
E-Mail: ahowerton@dinwiddieva.us

MEMORANDUM

TO: The Board of Supervisors

FROM: Anne Howerton

DATE: November 1, 2016

SUBJ: VRA 2016 Bond Requisition #5

BACKGROUND

VRA 2016B Requisition #5 is ready for submission to US Bank for payment to AHP Construction, LLC for schematic design; DJG Inc. for A&E consulting services and Hefty Wiley & Gore PC for legal services on the government complex project. The requisition and invoices are attached for review.

REQUESTED ACTION

We are asking for approval of the following resolution.

RESOLUTION

NOW, THEREFORE, BE IT RESOLVED that the Board of Supervisors of Dinwiddie County, Virginia, does hereby authorize payment of VRA 2016B Requisition # 5 to the various vendors for $494,635.36.

FORM OF REQUISITION

Requisition No. 5

Date: 11/1/16

U.S. Bank National Association, as Trustee
Attention: Corporate Trust Department
1021 East Cary Street
18th Floor
Richmond, Virginia 23219

Virginia Resources Authority
1111 East Main Street
Suite 1920
Richmond, Virginia 23219
Attention: Executive Director

This Requisition, including Schedule 1 and Schedule 2 hereto, is submitted in connection with the Local Lease Acquisition Agreement and Financing Lease dated as of July 20, 2016 (the "Financing Lease") between the Virginia Resources Authority and the County of Dinwiddie, Virginia (the "Local Government"). Unless otherwise defined in this Requisition, each capitalized term used herein has the meaning given it under Article I of the Financing Lease. The undersigned Local Representative hereby requests payment of the following amounts from the Local Account established for the Local Government in the 2016B Acquisition Fund established under the Thirty-Sixth Supplemental Series Indenture.

Payee (including electronic payment instructions if requesting electronic payment):
SEE ATTACHED DETAIL SUMMARY

Address:
SEE ATTACHED INVOICES

Amount to be Paid: **$494,635.36**

Purpose (in reasonable detail) for which obligations(s) to be paid were incurred:
DINWIDDIE GOVERNMENT COMPLEX SCHEMATIC DESIGN, A&E SUPPORT SERVICES & LEGAL SERVICES

Attached on Schedule 2 are the wire instructions for this requisition, and also attached hereto is an invoice (or invoices) relating to the items for which payment is requested.

The undersigned certifies that (i) the amounts requested by this Requisition will be applied in accordance with the Local Tax Document and solely and exclusively to the payment, or the reimbursement of the Local Government for its payment of Project Costs (ii) no notice of any lien, right to lien or attachment upon, or claim affecting the right to receive payment of, any of the money payable under the Requisition to any of the persons, firms or corporations named in it has been received, or if any notice of any such lien, attachment or claim has been received, such lien, attachment or claim has been released or discharged or will be released or discharged upon payment of the Requisition, and (iii) this Requisition contains no items representing payment on account of any retained percentage entitled to be retained at this date.

If this Requisition includes payments for labor or to contractors, builders or materialmen, the attached Certificate of Local Representative must be completed. If this Requisition includes payments for any lands or easements, rights or interest in or relating to lands, the attached Certificate of Local Representative must be completed and there must be attached to this Requisition a certificate signed by a Local Representative stating that upon payment therefor the Local Government will have title in fee simple to, or easements, rights or interests sufficient for the purposes of the construction portion of the Project over or through, such lands.

The Local Government has agreed in the Financing Lease that any amounts it receives pursuant to this Requisition will be (i) immediately applied to reimburse the Local Government for Project Costs it has already paid or (ii) actually spent to pay Project Costs not later than five banking days after receipt.

Anne Howath

Local Representative

SCHEDULE 1

Form to Accompany Requisition

Requisition #: 5

Recipient: *Dinwiddie County - VPFP Series 2016B*

Local Representative: Anne R Howerton

Title: Deputy County Adminstrator

Date: 1-Nov-16

Cost Category	Total Project Costs	Previous Disbursements	Disbursement This Period	Disbursements to Date	Remaining Balance
Construction	$ 25,000,000.00	271,823.86	494,635.36	766,459.22	24,233,540.78
Local Costs of Issuance	130,000.00	129,784.80		129,784.80	215.20
Contingency / Additional Proceeds	415.52	-	-	-	415.52
TOTALS	**$ 25,130,415.52**	**$ 401,608.66**	**$ 494,635.36**	**$ 896,244.02**	**$ 24,234,171.50**

SCHEDULE 2

Wire Instructions for Requisition

For AHP Construction LLC

Mail Checks to:

ADDRESSES ON ATTACHED INVOICES FOR DJG & HEFTY WILEY & GORE

CERTIFICATE OF LOCAL REPRESENTATIVE

The undersigned Local Representative for the Local Government hereby certifies that (i) insofar as the amounts covered by this Requisition include payments for labor or to contractors, builders or materialmen, such work was actually performed or such materials, supplies or equipment were actually furnished or installed in or about the Project, and (ii) insofar as the amounts covered by the Requisition include payments for land or easements, rights or interests in or relating to lands, such lands, easements, rights or interests are being acquired and are necessary or convenient for the undertaking and completion of the Project.

Date: 11/1/16

Anne Hanrath

Local Representative

Detail Summary

Locality:	DINWIDDIE COUNTY VA
Bond Series:	VRA 2016B
Requisition #:	5

Vendor	Invoice #	Amount
AHP CONSTRUCTION LLC	#1	$ 488,944.86
DJG INC	1705048	$ 3,190.50
HEFTY WILEY & GORE PC	8295	$ 2,500.00
TOTAL		$ 494,635.36

APPLICATION FOR PAYMENT

TO: Dinwiddie County

FROM: **Armada Hoffler**

PROJECT: Dinwiddie County New Government Facilities

PAYMENT REQUEST NO. 1

PERIOD _____ to 10/28/2016

STATEMENT OF CONTRACT AMOUNT:

1.	Schematic Design	$ 24,042,367.00	
2.	Approved change orders (As per attached breakdown)	$ -	
3.	Adjusted Contract Amount		$ 24,042,367.00
4.	Value of Work Completed to Date (As per attached breakdown)	$ 492,246.56	
5.	Value of Approved Change Orders Completed (As per attached breakdown)	$ -	
6.	Materials Stored on Site: (As per attached breakdown)	$ -	
7.	Value of Completed Work and Stored Materials		$ 492,246.56
8.	Net Total to Date		$ 492,246.56
9.	Less Amount Retained (5% of Line Item 1)	($3,301.70)	
10.	Total Less Retainage		$ 488,944.86
11.	Total Previously Certified (Deduct)	$0.00	
12.	Amount Due this request		$ 488,944.86

CERTIFICATION:

I hereby certify that the work performed and the materials supplied to date, as shown on the above represent the actual value of accomplishment.

Date: _____

AHP Construction, LLC
Design-Builder

BY: Michael McKesney
Authorized Signature

TITLE: Senior Project Manager

PROJECT: Dinwiddie County New Government Facilities
PROJECT #: 16-110

CONTINUATION SHEET

AGC Document 610, APPLICATION AND CERTIFICATE FOR PAYMENT,
Containing Contractor's signed Certification, is attached.
Use Column 1 on Contracts where variable retainage for line items may apply.

APPLICATION NO: 1
APPLICATION DATE: 10/28/16
PERIOD TO: 10/28/16
ARCHITECT'S PROJECT NO:

A	B	C	D	E	F	G		H	I
			WORK COMPLETED						
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	FROM PREVIOUS APPLICATION (D & E)	THIS PERIOD	MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE (D & E & F)	% (G / C)	BALANCE TO FINISH (C - G)	RETAINAGE
1	Design-Builder and Subcontractors	$ 21,126,201.00	$ -	$ 66,034.00	$ -	$ 66,034.00	0.3%	$21,060,167.00	$ 3,301.70
2	Architect	$ 1,551,900.00	$ -	$ 310,380.00	$ -	$ 310,380.00	20%	$1,241,520.00	$ -
3	Structural Engineer	$ 135,000.00	$ -	$ 36,000.00	$ -	$ 36,000.00	27%	$99,000.00	$ -
4	MEP Engineer	$ 196,500.00	$ -	$ 39,300.00	$ -	$ 39,300.00	20%	$157,200.00	$ -
5	Civil Engineer	$ 108,000.00	$ -	$ 21,600.00	$ -	$ 21,600.00	20%	$86,400.00	$ -
6	Design-Builder's Fee	$ 924,766.00	$ -	$ 18,932.56	$ -	$ 18,932.56	2%	$905,833.44	$ -
	TOTAL	$ 24,042,367.00	$ -	$ 492,246.56	$ -	$ 492,246.56	2%	$23,550,120.44	$3,301.70

Anne Howerton

From: Donald Booth <DBooth@djginc.com>
Sent: Monday, October 31, 2016 5:03 PM
To: W. Kevin Massengill (kmassengill@dinwiddieva.us)
Cc: Anne Howerton (ahowerton@dinwiddieva.us)
Subject: FW: Pay App Backup
Attachments: image001.jpg; 16110 Design Fee Proposals.PDF; Cost to date 10-28-16.pdf

Donald F. Booth Jr., AIA

From: McChesney, Mike [mailto:MMcchesney@armadahoffler.com]
Sent: Monday, October 31, 2016 3:01 PM
To: 'kmassengill@dinwiddieva.us' <kmassengill@dinwiddieva.us>; Donald Booth <DBooth@djginc.com>
Cc: Considine, Ray <rconsidine@armadahoffler.com>; Davis, John <jdavis@armadahoffler.com>; Durban, Jared <jdurban@armadahoffler.com>; Merz, Steve <smerz@armadahoffler.com>
Subject: Pay App Backup

Gentlemen,
I was asked to provide backup for the pay app which was sent on Friday.
Item 1 is AHCC cost to date. Detailed accounting report is attached
Item 2, Architect, is 20% of HBA's contract value
Item 3, Structural Engineer, is the Schematic Design breakout value provided by SMF in their proposal
Item 4, MEP Engineer, is 20% of the Total for Design Phase Services
Item 5, Civil Engineer, is 20% of the Civil Engineering Site Plan Cost
Item 6 is 4% of the sum of all items above.

Please call me if you have any questions.

Michael McChesney
Senior Project Manager
Armada Hoffler Construction Company
P: 757-641-0363 F: 757-452-5752
mmcchesney@armadahoffler.com
249 Central Park Avenue, Suite 300
Virginia Beach, Virginia 23462
ARMADA HOFFLER
CONSTRUCTION
www.armadahofflerconstruction.com
NYSE: AHH

DATE: 10/28/16 XJC052-XJC052

****** SELECTIONS ******
PROJECT COST REPORTS

TIME: 13.09

ALL Company	N	21
ALL Division	N	000
ALL Job Number	N	

LEDGER TYPE	C		
OPEN TRANSACTIONS ONLY FOR CLOSED Job	N		
PRINT BEGINNING BALANCE	N	ALL	Y
PRINT SELECTION OPTIONS	Y		
CONSOLIDATE ON REPORTING JOB / SUBJOB	N		

FORMS NUMBER	*STD	ALL Cost Type	Y
NUMBER OF COPIES	001	Cost Type	
PRINTER ID		Employ Cls TOTALS	N
INCLUDE CLOSED Job	Y	TOTALS AT SEGMENTS	2 1
JOB QUEUE	Y	USE ALT	N
PAYROLL AT ACTUAL PAY	N	1, 2, 3	1
PRINT SEQUENCE		PRINT Cost Type SUMMARY	N
		USE SUMMARY CODE IN Cost Type FILE	N

AND(A)/OR(O) O

Job TYPE		99	DEPARTMENT	000	999
CUSTOMER	00000	99999	STATE CODE	000	999
Div Mgr	00000	99999	Building	00000	99999
PM	00000	99999	Super	00000	99999
Estimator	00000	99999	CONTRACT SIZE	99999999999-	99999999999

Job/Sub Job/Sub Job/Sub Job/Sub Job/Sub Job/Sub Job/Sub Job/Sub Job/Sub Job/Sub Job/Sub Job/Sub

16110

Job /Sub- 16110 DINWIDDIE COUNTY GOV'NMENT FACILITIES

Building
1 MISC BID PAGE

DATE	G/L-SUB	JRNO	JRSQ	SOURCE	DESCRIPTION	REFERENCE	P/O #	UNITS/QTY	UM	UNIT COST	AMOUNT
01 .01000	L	PRECONSTRUCTION COST									
03/11/16	0500.000.000	PR00207	0181	PR03112016	LABOR EXPE						400.00
03/25/16	0500.000.000	PR00210	0187	PR03252016	LABOR EXPE						742.00
04/08/16	0500.000.000	PR00215	0179	PR04082016	LABOR EXPE						6,216.00
04/22/16	0500.000.000	PR00218	0178	PR04222016	LABOR EXPE						312.00
05/06/16	0500.000.000	PR00221	0200	PR05062016	LABOR EXPE						200.00
05/20/16	0500.000.000	PR00223	0178	PR05202016	LABOR EXPE						1,800.00
06/03/16	0500.000.000	PR00226	0196	PR06032016	LABOR EXPE						500.00
06/17/16	0500.000.000	PR00227	0171	PR06172016	LABOR EXPE						200.00
07/01/16	0500.000.000	PR00230	0194	PR07012016	LABOR EXPE						100.00
07/15/16	0500.000.000	PR00233	0158	PR07152016	LABOR EXPE						100.00
07/29/16	0500.000.000	PR00236	0144	PR07292016	LABOR EXPE						5,700.00
08/12/16	0500.000.000	PR00238	0142	PR08122016	LABOR EXPE						3,992.00
08/26/16	0500.000.000	PR00240	0141	PR08262016	LABOR EXPE						5,004.00
09/09/16	0500.000.000	PR00244	0134	PR09092016	LABOR EXPE						12,188.00
09/23/16	0500.000.000	PR00245	0130	PR09232016	LABOR EXPE						8,748.00
10/07/16	0500.000.000	PR00248	0124	PR10072016	LABOR EXPE						3,349.00
10/21/16	0500.000.000	PR00251	0111	PR10212016	LABOR EXPE						4,968.00
LABOR		COST				PTD		.00	UN		54,519.00
						PTD		.0000	QTY		
01 .01000	M	PRECONSTRUCTION COST									
03/31/16	0502.000.000	PJ01757	0108	VERIZON W	DANYI	976277459 4					8.75
03/31/16	0502.000.000	PJ01772	0021	PAPCO,INC.	DANYI	106366CT					21.55
04/01/16	0502.000.000	PR00212	0035	PR04012016	LABOR EXPE						105.62
04/30/16	0502.000.000	PJ01810	0015	VERIZON W	DANYI	976441556					18.24
04/30/16	0502.000.000	PJ01810	0019	VERIZON W	FOSTER	976441556					22.96
04/30/16	0502.000.000	PJ01812	0017	VERIZON W	Foster Tab	976441557					9.69
04/30/16	0502.000.000	PJ01818	0030	PAPCO,INC.	FOSTER	107228CT					117.82
04/30/16	0502.000.000	PJ08672	0002	ARC	COPIES/COV	35-792272					258.25
05/06/16	0502.000.000	PR00221	0201	PR05062016	LABOR EXPE						219.38
05/15/16	0502.000.000	GJ03608	0132	SJE 67	MERZ LUNCH						37.65
05/31/16	0502.000.000	PJ01856	0061	VERIZON W	MERZ TABLE	976606403 6					5.70
06/03/16	0502.000.000	GJ01432	0099	JE#14	MERZ						237.50
06/30/16	0502.000.000	GJ03742	0082	SJE 84	CONSIDINE						172.35
06/30/16	0502.000.000	GJ03753	0144	SJE 84	MERZ GAS						100.52
06/30/16	0502.000.000	GJ03758	0090	SJE 92	MERZ						72.86
07/15/16	0502.000.000	PR00234	0001	PR07152016	LABOR EXPE						3,000.00
07/20/16	0502.000.000	PJ09254	0002	CYBERCODER	DURBAN, JA	OAI700186 9					~~19,000.00~~
07/31/16	0502.000.000	GJ03919	0435	SJE 94	MERZ						48.41
08/01/16	0502.000.000	PJ09503	0002	MINUTEMAN	B.CARDS JA	53783					100.70
08/04/16	0502.000.000	GJ01516	0045	JE# 5	DURBAN						1,090.37
08/12/16	0502.000.000	GJ01520	0011	JE# 10	DURBAN						52.20
08/31/16	0502.000.000	GJ03985	0420	SJE 69	DURBAN FUE						100.85
08/31/16	0502.000.000	PJ01994	0046	VERIZON W	MERZ	977099593 4					13.13
09/01/16	0502.000.000	PJ09755	0010	SOFTWARE O	ADOBE S.ME	PSI-52151 5					92.76
09/02/16	0502.000.000	GJ01566	0048	JE# 6	DURBAN						650.00
09/02/16	0502.000.000	GJ01566	0090	JE# 6	MERZ						231.56
09/30/16	0502.000.000	GJ02673	0028	SJE#54	BORDEN CON						438.17
09/30/16	0502.000.000	GJ02673	0029	SJE#54	BUENAVENTU						88.13
09/30/16	0502.000.000	GJ02673	0030	SJE#54	DURBAN CON						122.47

09/30/16	0502.000.000	GJ02674	0001	SJE#54	LITTLE CON			55.06
09/30/16	0502.000.000	GJ02674	0002	SJE#54	MERZ CONCU			60.66
09/30/16	0502.000.000	PJ09788	0014	ARC	Order 9759	35-801834		137.71
10/07/16	0502.000.000	GJ01593	0039	JE# 5	DURBAN			650.00
10/07/16	0502.000.000	GJ01593	0075	JE# 5	MERZ			213.75
10/07/16	0502.000.000	PR00247	0024	PR10072016	LABOR EXPE			375.00
MATERIALS	COST					PTD	.00 UN	27,929.77
						PTD	.0000 QTY	
COST	TOTALS	PT	.0000	QTY			.00 UN	82,448.77

01 .01052 M TRAVEL

05/06/16	0502.000.000	GJ01406	0058	JE# 18	VEHICLE/MA			340.00
07/31/16	0502.000.000	GJ03919	0438	SJE 94	CONSIDINE			129.36
07/31/16	0502.000.000	GJ03919	0441	SJE 94	CONSIDINE			106.54
08/31/16	0502.000.000	GJ03985	0423	SJE 69	CONSIDINE			56.92
MATERIALS	COST					PTD	.00 UN	632.82
						PTD	.0000 QTY	
COST	TOTALS	PT	.0000	QTY			.00 UN	632.82

01 .01071 M PR/ENTERTAINMENT

09/30/16	0502.000.000	GJ02674	0003	SJE#54	CONSIDINE			54.36
MATERIALS	COST					PTD	.00 UN	54.36
						PTD	.0000 QTY	
COST	TOTALS	PT	.0000	QTY			.00 UN	54.36

01 .15026 M FIELD OFFICE COMPUTR

09/30/16	0502.000.000	GJ02674	0004	SJE#54	MASTERS CO			1,642.96
MATERIALS	COST					PTD	.00 UN	1,642.96
						PTD	.0000 QTY	
COST	TOTALS	PT	.0000	QTY			.00 UN	1,642.96

01 .15044 M CELL PHONE

05/31/16	0502.000.000	PJ01855	0055	VERIZON W	Merz	976606403	5	13.41
07/31/16	0502.000.000	PJ01954	0008	VERIZON W	Durban	976934777	5	41.81
08/01/16	0502.000.000	PJ01995	0024	VERIZON W	DURBAN	977099593	2	46.73
09/30/16	0502.000.000	PJ02029	0005	VERIZON W	ALY	977265857	1	55.61
09/30/16	0502.000.000	PJ02030	0009	VERIZON W	DURBAN	977265856	7	50.07
09/30/16	0502.000.000	PJ02031	0008	VERIZON W	Buenaventu	977265856	9	34.24
09/30/16	0502.000.000	PJ02031	0049	VERIZON W	Merz	977265856	9	12.33
MATERIALS	COST					PTD	.00 UN	254.20
						PTD	.0000 QTY	
COST	TOTALS	PT	.0000	QTY			.00 UN	254.20
COST	TOTALS	PT	.0000	QTY			.00 UN	85,033.11
Sub Job	COST	PT	.0000	QTY			.00 UN	85,033.11
Job	COST	PT	.0000	QTY			.00 UN	85,033.11
Division	COST	PT	.0000	QTY			.00 UN	85,033.11
Company	COST	PT	.0000	QTY			.00 UN	85,033.11

August 31, 2016

Armada Hoffler Construction Company
249 Central Park Avenue, Suite 300
Virginia Beach, VA 23462

Attention: Steve Merz

Reference: New Government Facilities - Dinwiddie County, VA
Fee Proposal

Dear Steve:

We write to offer our fee proposal for the referenced project. Our proposal includes Plumbing, Mechanical, and Electrical Engineering Services for the new construction of two buildings, the renovation of two buildings, as well as the site telecommunications distribution, and the main fire pump / well pumping building. We anticipate this will be a Revit project, designing to LOD 300. The basic services fee includes the customary plumbing, HVAC and fire protection for the facility. We have included typical parking / pedestrian site lighting to meet the Dinwiddie County standards. We have also included five local planning meetings, and three meetings in Dinwiddie County with two engineers attending each meeting.

We can perform this work for the following fee:

Basic Services

Administration Building (± 54,890 sq. ft., including site)	$ 125,000
Public Safety Building (± 230,300 sq. ft., including associated site)	$ 71,500
TOTAL FOR DESIGN PHASE SERVICES	$ 196,500
Bid Period Services	$ 1,000
Shop Drawing Review	$ 9,000
Construction Observation (includes 6 site visits/reports)	$ 14,000
Record Drawings	$ 2,500
TOTAL FOR CONSTRUCTION PHASE SERVICES	$ 26,500

Additional Services

Additional Construction Observations Visit, per person	$ 1,000
Commissioning Services performed simultaneously	$ 47,000
Additional Local Meeting, per Engineer	$ 500

CA services will be invoiced uniformly per month over the length of the construction process.

HVAC system commissioning is now a requirement of the 2012 Virginia Energy Conservation Code for any buildings where the total installed mechanical equipment capacity is in excess of 40 tons. Commissioning will be required for this facility, and we have included an optional line item in the proposal to provide these services.

We hope this meets your understanding and approval. Should you have any questions or concerns regarding these matters, please do not hesitate to contact us. Thank you once again for your consideration of PACE Collaborative on this project.

Respectfully,

PACE Collaborative, PC

Eddie T. Abrams, LEED AP
Vice President

Agreed Armada Hoffler Construction Company Date

Attachment: Standard Agreement for Provision of Engineering Services

Principals
William H. Hargrove, III, AIA
Bruce Prichard, AIA, IIDA
C. Michael Ross, AIA, REFP
Joseph D. Bovee, AIA
Michael P. Molzahn, AIA
Joseph A. Miller, AIA
Michael J. Winner, AIA, LEED AP BD+C

Interiors
Maxine Baer, CID, IIDA
Grace Cope, CID, IIDA

HBA
ARCHITECTURE
INTERIOR DESIGN

Associates
Becky Boller, AIA, LEED AP BD+C
Thomas N. Ellis, AIA, LEED AP BD+C, GGP
David J. Ermini, AIA
John W. Hasten, Jr., AIA
Paulette C. Kundis, AIA, LEED AP BD+C
Mariusz Mijal, AIA
Les G. Murfin, AIA, LEED AP
Dustin A. Schulze, AIA, GGP
David L. Smith, AIA
W. Macklin Smith, AIA, GGP
Melburn C. Vinson, AIA

Technical Associates
Steve Munden
Jaime B. Rasmussen, LEED AP BD+C
R. Edward Stanton

September 29, 2016

Mr. Steve Merz
Armada Hoffler Construction Co.
249 Central Park Ave. Suite 300
Virginia Beach, VA 23462

Re: Dinwiddie County New Government Facilities PPEA RFP
Dinwiddie, Virginia

Steve,

HBA offers the following revised proposal for professional design services for the above referenced project. Our proposal is for architectural services only for the County Administration/Human Services Building, the Public Safety Building, and renovation to the Pamplin Building and renovation to the current Public Safety Building.

Services will include:

1. Confirmation of the program provided by the county.
2. Schematic Design
3. Design Development documents
4. Construction Documents
5. Bidding Assistance
6. Construction Administration (includes 26 visits to the site during the construction period)
7. Record Drawings

We propose a lump sum fee of $1,551,900.00 for architectural services only as outlined herein. We have also included reimbursable expenses ($35,000) for travel, postage and printing in this total fee.

Brinkley Sargent Wiginton is our public safety architectural consultant and their services are included in our fee. Major Security Consulting is our security consultant and their services are included in our fee.

All other design team consultants (MSA, Speight Marshall & Francis, and Pace Collaborative) will contract directly with Armada Hoffler.

Please don't hesitate to call if you have any questions.

Sincerely,

HBA ARCHITECTURE & INTERIOR DESIGN, INC.

Joseph A. Miller, AIA
Principal/Vice President

An Agreement for the Provision of Limited Professional Services

Structural Engineer (SE):

Speight, Marshall & Francis, P.C.
2125 McComas Way, Suite 103
Virginia Beach, VA 23456
(757) 427-1020 Fax (757) 427-5919

A Professional Corporation

Client: Joe Miller
HBA Architecture & Interior Design
One Columbus Center, Suite 1000
Virginia Beach, VA 23462

Date: 8/15/16 Project No.: 16.164-A
Revised: 9/2/16

Project Name: Dinwiddie County Government Complex

Location: Dinwiddie County, VA

Description: New government municipal complex which includes a two (2) story. 55,000 sf building that will house the county administration offices and health services and a 22,000 sf single story public safety building which will be designed as an essential facility since it houses the county's E-911 call center. Project will be completed in Revit to a Level of Detail (LOD) of 300 as defined by the AIA Guidelines.

Scope of Services: Basic Compensation shall be as follows:

<u>County Admin. & Health Services Building</u>

- ☒ Schematic Design Phase ..... $ 23,500.00
- ☒ Design Development Phase ..... $ 27,000.00
- ☒ Construction Documents Phase ..... $ 31,000.00
- ☒ Construction Phase ..... $ 8,500.00
  - ☒ Site Visit(s) – THREE (3) included in Basic Services $1,800.00
  - ☒ Structural Shop Drawing Review $4,500.00
  - ☒ Questions and Clarifications $2,200.00

SUBTOTAL ..... $ 90,000.00

<u>Public Safety Building</u>

- ☒ Schematic Design Phase ..... $ 12,500.00
- ☒ Design Development Phase ..... $ 14,000.00
- ☒ Construction Documents Phase ..... $ 14,000.00
- ☒ Construction Phase ..... $ 4,500.00
  - ☒ Site Visit(s) – ONE (1) included in Basic Services ..... $ 600.00
  - ☒ Structural Shop Drawing Review $2,700.00
  - ☒ Questions and Clarifications $1,200.00

SUBTOTAL ..... $ 45,000.00

GRAND TOTAL $135,000.00

An Agreement for the Provision of Limited Professional Services

Hourly rates are as follows:

Principal Engineer	$175.00 / Hr.	Professional Construction Admin.	$110.00 / Hr.
Senior Structural Engineer	$135.00 / Hr.	Senior Engineering Technician	$100.00 / Hr.
Senior Project Manager	$135.00 / Hr.	Structural Engineering Technician	$85.00 / Hr.
Structural Engineer	$110.00 / Hr.	Administration	$50.00 / Hr.

Additional Services: Additional Services, which may be added to this Agreement by written request, shall be negotiated or billed hourly at the rates listed above. Substantial changes or modifications to the Project shall be subject to these additional fees.

Special Conditions: None

Offered by (SE):

(signature)

Jonathan Walesczyk, P.E. / Director of Operations

(printed name / title)

The terms and conditions attached to this form are part of this Agreement.

Accepted by (Client):

(signature) *(date)*

(printed name / title)

(for)

* Clients Please Return Original; Retain Copy For Records

Terms and Conditions

Structural Engineer (SE) shall perform the services outlined in this agreement for the stated fee agreement.

Basic Services
Basic Services will be provided as described in the CASE National Practice Guidelines for the Structural Engineer of Record.

Special Inspections Services
Services relating to Special Inspections, as required by IBC 2012 Section 1704, are specifically omitted from this Agreement; Special Inspections Services shall be by separate contract between the Owner and Structural Engineer of Record (SER).

Access to Site
Unless otherwise stated, the SE will have access to the site for activities necessary for the performance of the services, the SE will take precautions to minimize damage due to these activities, but has not included in the fee the cost of restoration of any resulting damage.

Fee
The total fee, except stated lump sum, shall be understood to be an estimate, based upon Scope of Services, and shall not be exceeded by more than ten percent, without written approval of the Client. Where the fee arrangement is to be on an hourly basis, the rates shall be those that prevail at the time services are rendered. Reimbursable Expenses as described in paragraph 12.6 of AIA C141 shall be a multiple of 1.2 times the expenses incurred by the Engineer.

Billings/Payments
Invoices will be submitted monthly for services accomplished and reimbursable expenses. Bills are due when rendered, and shall be considered PAST DUE if not paid within 30 days after the invoice date and the SE may without waiving any claim or right against Client, and without liability whatsoever to the Client, terminate the performance of the service. Retainers shall be credited on the final invoice. Beginning on the PAST DUE date, a service charge will be charged at 1.5% per month on the unpaid balance. In the event any portion or all of an account remains unpaid 30 days after billing, the Client shall pay cost of collection, including attorneys' fees of 33 $^{1}/_{3}$%.

Indemnifications
The Client shall indemnify and hold harmless the SE and all of its personnel from and against any and all claims, damages, losses and expenses (including reasonable attorneys fees) arising out of or resulting from the performance of the services, provided that any such claims, damage, loss or expense is caused in whole or in part by the negligent act of omission, and/or strict liability of the Client, anyone directly or indirectly employed by the Client (except the SE) or anyone for whose acts any of them may be liable.

Hidden Conditions
A structural condition is hidden if concealed by existing finishes or is not capable of investigation by reasonable visual observation. If the SE has reason to believe that such a condition may exist, the client shall authorize and pay for all costs associated with the investigation of such a condition and, if necessary, all costs necessary to correct said condition. If (1) the client fails to authorize such investigation or correction after due notification, or (2) the SE has no reason to believe that such a condition exists, the client is responsible for all risks associated with this condition, and the SE shall not be responsible for the existing condition nor any resulting damages to persons or property.

Risk Allocations
In recognition of the relative risks, rewards and benefits of the project to both the Client and the SE, the risks have been allocated so that the Client agrees that, to the fullest extent permitted by law, the SE's total liability to the Client, for any and all injuries, claims, losses, expenses, damages or claim expenses arising out of this agreement, from any cause or causes, shall not exceed the total amount of $100,000, the amount of the SE's fee (whichever is greater) or other amount agreed upon when added under special conditions. Such causes, include, but are not limited to the SE's negligence, errors, omissions, strict liability, breach of contract or breach of warranty. The Client shall hold the SE harmless from any damage to adjacent properties arising from the result of pile driving operations or any other work.

Claims and Disputes
Terms and Conditions shall be as provided in AIA Document C141, except that we propose to delete paragraph 9.2, Arbitration, and substitute the following:
All claims, Counterclaims, disputes, and other matters in question between the parties hereto arising out of this Agreement or breach thereof will be presented to non-binding mediation, subject to the parties agreeing to a mediator(s).

Termination of Services
This agreement may be terminated upon 10 days written notice by either party should the other fail to perform his obligations hereunder. In the event of termination, the Client shall pay the SE for all services rendered to the date of termination, all reimbursable expenses, and reimbursable termination expenses.

Ownership Documents
All documents produced by the SE under this agreement shall remain the property of the SE and may not be used by this Client for any other endeavor without the written consent of the SE.

Applicable Law
Unless otherwise specified, this agreement shall be governed by the laws of the Commonwealth of Virginia.

MSA, P.C.
5033 Rouse Drive, Virginia Beach, VA 23462-3708
Office (757) 490-9264 • Fax (757) 490-0634
www.msaonline.com

Environmental Sciences • Planning • Surveying • Civil & Environmental Engineering • Landscape Architecture

August 23, 2016

Steven W. Merz
AHP Construction, LLC
249 Central Park Avenue
Suite 200
Virginia Beach, VA 23462

RE: Agreement of Services for Dinwiddie County New Government Facilities
MSA Contract # 7282

Dear Mr. Merz,

Thank you for allowing MSA, P.C. the opportunity to serve you. Our professional staff is available to provide innovative services in Land Planning, Surveying, Environmental Sciences, Civil and Environmental Engineering and Landscape Architecture.

There are four documents included in this contract packet:

1. Agreement of Services
2. Standard Terms and Conditions
3. Schedule of Hourly Rates and Reimbursable Expenses
4. Invoicing Information/Payment Responsibility Form

Please review these documents, paying particular attention to the "Agreement of Services", as this contains information that is unique to your project. You may wish to make a personal note of the MSA "Contract" and/or "Project" number(s). Providing this information with your correspondence will help us respond more quickly to any future requests.

On the last page of the "Agreement of Services":

- **Initial that you understand, and agree to, the Standard Terms and Conditions**
- **Verify that your contact information is correct**
- **Sign, date, and print your name and title**

Upon your approval, please return the signed "Agreement of Services" and "Invoicing Information/Payment Responsibility Form" to my attention. Once received, I will forward a fully executed copy to you for your records, and place your project on our Production List.

Thank you for allowing MSA, P.C. the opportunity to contribute to the success of your project. If you have any questions, please call me at (757) 490-9264.

Sincerely,

Douglas M. Will, P.E.
Partner

DMW/dlsw

Enclosures

MSA, P.C.
5033 Rouse Drive, Virginia Beach, VA 23462-3708
Office (757) 490-9264 • Fax (757) 490-0634
www.msaonline.com

Environmental Sciences • Planning • Surveying • Civil & Environmental Engineering • Landscape Architecture

August 23, 2016

AGREEMENT OF SERVICES
Dinwiddie County New Government Facilities
Dinwiddie, VA
Contract Number - 7282

Project Understanding
Land surveying, civil engineering, and landscape architecture services for site plans for the new government facilities at the existing Dinwiddie County government complex. Includes new administration building, new public safety building, associated parking and drive aisles, right turn lane into the site from Route 1, stormwater management, sanitary sewer pump station upgrades, and domestic and fire water storage and distribution system.

Services

I. **Boundary and Topographic Survey**
Prepare a partial boundary and topographic survey of the limits of development, including: field surveying, office calculations, drafting, and review by licensed land surveyor. Said topographic survey will be performed in accordance to Virginia State guidelines as per section 18 VAC 10-20-382 of the Department of Professional and Occupational Regulations. Said boundary survey will be performed in accordance with Virginia State guidelines as per section 18 VAC 10-20-370 of the Department of Professional and Occupational Regulations. Horizontal datum (HARN) and vertical (NAVD 88) will be tied to the Dinwiddie County control network. End result will be a computer generated drawing based on a field run survey showing the property line and physical/topographic features.

Note: Utilities will be located on an observation basis only; this does not guarantee that all utilities will be located. Pipe sizes and inverts will be provided for observed "gravity" fed systems and MISS UTILITY paint markings will be located for all other utilities observed during survey. It is the recommendation of MSA, P.C. that the owner authorize a subsurface utility locating company to perform a Utility Quality Level A (QL-A).

Fee $11,600.00

II. **Civil Engineering Site Plan**
Civil Engineering services to prepare a Site Plan including; Demolition, Erosion and Sediment Control Plan, Grading, Drainage and Utility Plan, Stormwater Management calculations, design and details to meet water runoff quality and quantity requirements per the latest State Department of Environmental Quality (DEQ) specifications and Dinwiddie County requirements, pavement design based on assumed soil conditions or geotech report if provided, domestic and fire water service calculations for new storage and distribution system to proposed buildings, gravity sanitary service calculations for connection to proposed buildings, sanitary sewer calculations for pump station upgrades, Coordination with Project Architect, Plumbing, Mechanical, and Electrical consultants, Civil/Site Specifications, SWPPP, and Details , all in accordance with County requirements including submittal for review and comment.

Fee $108,000.00

III. **Landscape Plan**

Provide professional landscaping services to produce layout plan for proposed plantings based on minimum requirements set forth by Dinwiddie County including submittal to county for review and comment. This plan will include interior shade trees, interior green space, and street front landscaping. Plan will further illustrate planting schedule stating both common and botanical plant names, required materials, size, spacing and quantity of each.

Fee $10,400.00

IV. **Construction Phase Services**

Coordinate with the Client, design team, contractor and County inspections staff as specifically requested by the client during the construction phase of this project. Respond to RFIs from the contractor, perform shop drawing reviews, prepare field revision sketches, and conduct site visits as necessary to confirm construction activities are consistent with the construction drawings. Services will be billed hourly based on the attached Schedule of Hourly Rates as specifically directed by the Client.

Fee .....Hourly, Not To Exceed $7,500.00

AGREEMENT

IN WITNESS WHEREOF, the parties herein named do hereby agree to the fees and initial Services required. Fees and schedules quoted within this Agreement are valid for sixty (60) days after the date of this Agreement. The Client understands that MSA, P.C. has no control over agency review time or inclement weather which may affect surveying and/or environmental services, possibly causing delay in performance. By signing below, the Client affirms that additional Services may be required for this Project as it becomes more involved. Should it be deemed necessary to provide the Client with additional Services, the Client will be presented with an Addendum to this Agreement for approval and signature prior to MSA, P.C. commencing said additional Services.

Project - Dinwiddie County New Government Facilities Contract Number - 7282 Issued - August 23, 2016

_____ Client understands and agrees to **Standard Agreement of Terms**, please initial.

Client

_____
Authorized Representative Date

_____
Printed/Typed Name & Title of above

MSA, P.C.

_____
Partner Date
Douglas M. Will, P.E.

CLIENT's Address for Issuing Notices:

Steven W. Merz
AHP Construction, LLC
249 Central Park Avenue
Suite 200
Virginia Beach, VA 23462

MSA P.C.'s Address for Issuing Notices:

Diana Shue-Willis
MSA, P.C.
5033 Rouse Drive
Virginia Beach, VA 23462-3708

DJG INC.
www.djginc.com

MR. W. KEVIN MASSENGILL
COUNTY ADMINISTRATOR
P.O. DRAWER 70
DINWIDDIE, VIRGINIA 23841

PERIOD END:	09/30/16
INVOICE # :	1705048
PROJECT # :	2160480

PPEA PROFESSIONAL A/E SUPPORT SERVICES FOR
THE COUNTY'S NEW CONSTRUCTION PROJECT
RFP#: 15-052915
TASK ORDER #1

FOR PROFESSIONAL SERVICES
PROVIDED THROUGH 9/30/16

PROPOSAL PRE SERVICES	100.00%	OF	$9,343.50	$9,343.50
PROPOSAL REVIEW	100.00%	OF	$13,889.00	$13,889.00
INTERVIEW ASSISTANCE	100.00%	OF	$3,403.50	$3,403.50
BOS MEETING/PUBLIC HEARING	100.00%	OF	$3,654.50	$3,654.50
DESIGN REVIEW SERVICES	30.00%	OF	$31,905.00	$9,571.50
CONSTRUCTION SUPPORT SERVICES	0.00%	OF	$36,791.00	$0.00
TOTAL OF CONTRACT			$98,986.50	

SUBTOTAL		$39,862.00
LESS PRIOR BILLING	$	(36,671.50)
TOTAL DUE THIS INVOICE	$	3,190.50

2160480

ENGINEERS • ARCHITECTS • PLANNERS
VOICE: (757) 253-0673 • FAX: (757) 253-2319 • FROM NORFOLK / VIRGINIA BEACH: (757) 874-5015
449 McLAWS CIRCLE • WILLIAMSBURG, VA • 23185

HEFTY WILEY & GORE, P.C.

100 West Franklin Street, Suite 300 • Richmond, VA 23220

DATE	INVOICE NO.
10/25/2016	8295

BILL TO
County of Dinwiddie Attn: Kevin Massengill, Co. Admr. P.O. Drawer 70 Dinwiddie, VA 23841

RECEIVED
OCT 26 2016
Office of the
County Administrator

DESCRIPTION	MONTHS	RATE	AMOUNT
Agreed upon fee for representing and advising the County on all matters relative to the procurement of certain construction projects during the month of October 2016.		2,500.00	2,500.00
		Total	$2,500.00

Dinwiddie County Administration

14016 Boydton Plank Road
Dinwiddie, VA 23841
Phone: (804) 469-4500
Fax: (804) 469-4503

TO: Dinwiddie County Board of Supervisors

FROM: W. Kevin Massengill, County Administrator

DATE: November 1, 2016

SUBJECT: Government Facilities Construction Manager Contract Award

BACKGROUND

As the Government Facilities project progresses, one of the next steps is to contract with a firm to provide construction manager services to oversee the daily construction activities for Administration for the duration of the project. The Clerk of the Works will represent the County's interests on-site and will primarily monitor workmanship and compliance with the construction contract documents. Funding for these services will come from the VRA 2016B bond proceeds.

CONTRACT NEGOTIATIONS

We released an RFP for construction manager services on August 19, 2016, and ten vendors responded to the RFP on September 2, 2016. The proposals were evaluated based on the criteria set out in the RFP, and four firms were interviewed with Davidson Brown Inc. selected as providing the best solution. This company has been involved with a number of governmental construction projects, and is located in Yorktown, VA. Further details on this procurement can be found on the County website at www.dinwiddieva.us, under the Purchasing tab.

REQUESTED ACTION

We are requesting approval of the following resolution.

RESOLUTION

NOW, THEREFORE, BE IT RESOLVED that the Board of Supervisors of Dinwiddie County, Virginia, does hereby authorize and direct the County Administrator to execute the necessary documents to award a contract for construction manager services to Davidson Brown Inc. for an amount not to exceed $300,792.

CONTRACT

DINWIDDIE COUNTY
CONSTRUCTION MANAGER
NEW GOVERNMENT FACILITIES PROJECT

The Agreement is made this 1st day of November 2016, by and between **Davidson Brown, Inc.**, of 100 Loblolly Drive, Yorktown, VA 23692 (party of the first part, and hereinafter known as "Contractor"), and the **County of Dinwiddie**, Virginia (party of the second part, and hereinafter known as "County").

WHEREAS, pursuant to the Virginia Public Procurement Act, County solicited proposals to provide construction manager services for the County's new Government Facilities Project; and

WHEREAS, Contractor submitted a proposal for same, consistent with the specifications in the Request for Proposals; and

WHEREAS, Contractor was selected as having the best proposal; and

WHEREAS, County has selected Contractor to provide construction manager services, according to the specifications in the Request for Proposals;

NOW THEREFORE, in consideration of the mutual benefits, promises, and undertakings, the sufficiency and receipt of which are acknowledged, the following terms and conditions are agreed to by the parties to this Contract:

1. **Incorporation by Reference.** The following are made a part hereof as if the same were fully set forth herein, and if any discrepancies arise between the documents, they will prevail in the following order: (1) this Contract, (2) Request for Proposals # 16-081916 including any addenda, (3) Contractor's Revised Cost Proposal dated October 27, 2016 and (4) Contractor's proposal dated September 1, 2016. This procurement is governed by the Virginia Public Procurement Act and the Dinwiddie County Purchasing Policies and Procedures. All terms and conditions of the Act and the Policies and Procedures are hereby adopted and incorporated by reference herein.

2. **Time of Performance.** Contractor agrees to begin work upon execution of this contract with services extended through final close out of construction.

3. **Costs.** Contractor agrees to perform all work pursuant to this Contract for a sum no greater than THREE HUNDRED THOUSAND SEVEN HUNDRED NINETY-TWO AND NO/100 DOLLARS ($300,792.00) (the "Contract Price"). Payment shall be made to Contractor within thirty (30) days after receipt of invoice and after County has inspected and tested the work and notified Contractor of its acceptance of same.

4. **Notices.** Any notices required shall be in writing, unless otherwise permitted hereunder, and shall be deemed received five (5) days after mailing of same in the U. S. Mail with postage prepaid at the addresses set forth below or upon actual receipt:

Notice to County shall be made to:	Notice to Contractor shall be made to:
W. Kevin Massengill	Nigel Brown
County Administrator	Davidson Brown, Inc.
P. O. Drawer 70	100 Loblolly Drive
Dinwiddie, Virginia 23841	Yorktown, VA 23692
(804) 469-4500	(757) 369-8403
accounting@dinwiddieva.us	nigel@davidsonbrown.pro

5. **General Terms and Conditions.** During the term of this Contract, Contractor agrees to procure and maintain insurance which meets all County's requirements in the Request for Proposals documents.

6. **Counterparts.** This Agreement may be executed in one or more counterparts each of which shall be deemed an original but all of which together shall constitute one and the same instrument. Signed signature pages may be transmitted by facsimile or as an attachment to an email, and any such signature shall have the same legal effect as an original.

7. **Severability.** If any provision of this Agreement is determined to be unenforceable, invalid or illegal, then the enforceability, validity and legality of the remaining provisions will not in any way be affected or impaired, and such provision will be deemed to be restated to reflect the original intentions of the parties as nearly as possible in accordance with applicable law.

8. **Miscellaneous.** This Contract shall be governed by the laws of the Commonwealth of Virginia. Jurisdiction and venue for any litigation arising out of or involving this Agreement shall lie in the Circuit Court of the County of Dinwiddie, Virginia, and such litigation shall be brought only in such courts. All pronouns used herein shall refer to every gender. Headings or titles in this Contract are only for convenience and shall have no meaning or effect upon the interpretation of the provisions of this Contract. This Contract is the entire agreement between the parties and may not be amended or modified, except by writing, signed by each party. If any provision of this Contract is determined to be unenforceable, then the remaining provisions of this Contract shall be interpreted as in effect as if such unenforceable provision were not included therein.

IN WITNESS WHEREOF, the parties hereto have executed this Contract as of the day first written above.

County of Dinwiddie, Virginia	Davidson Brown, Inc.
By:_____	By: _____
W. Kevin Massengill	
County Administrator	Title: _____
Attest:_____	Attest: _____

Approved as to form:

_____
William Hefty, Legal Counsel