

**CRAVEN COUNTY, NORTH CAROLINA**

**Request for Proposal**  
**For**  
**Floor Slab Pressure Grouting and**  
**Foundation Underpinning**  
**For**  
**New Bern Riverfront Convention Center**

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**Craven County**



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**Proposal Deadline April 30, 2012**

**1:00 p.m. EDT**

**Craven County, North Carolina**  
**Request for Proposals**  
**Floor Slab Pressure Grouting and Foundation Underpinning**

**SECTION 1 – INTRODUCTION**

Craven County (“County”) is soliciting bids to lift and level the slab-on-fill floor slab of the New Bern Riverfront Convention Center located at 203 South Front Street New Bern, NC and make other repairs as outlined in the attached Specifications.

The Convention Center is an approximately 45,000 square foot steel-framed building with the perimeter and interior columns supported on timber piles. The floor slab is supported on fill which raised the grades on the site about 4 feet. The slab has settled relative to the pile supported foundations with a maximum differential settlement of approximately 5.8 inches observed near the center of the main ballroom. Based on a survey conducted on January 23, 2009 there has been approximately 1 inch of additional settlement in this area over the intervening 3 years. A survey of the relative elevations of the Colonial Capital Ballroom and hallways was conducted by Accident Reconstruction Analysis, Inc. on February 13, 2012. A plot of the readings taken is attached. The data can be obtained from ARA. Based on ARA’s survey the theoretical volume difference between a level floor and the existing conditions in the following areas is: Ballroom 104.24 cubic yards, back hall (area shown on scan) 5.11 cubic yards, Hall between ballroom and kitchen 5.19 cubic yards, Heritage Hall 22.49 cubic yards. For a total of 137.03 cubic yards. Note these volumes do not include any voids that may exist below the floor slab or pile caps. These volumes also do not include other areas of the building such as the offices, kitchen, boiler room, storage rooms, or bathrooms.

In addition to the settlement of the floor slab in the interior of the building the Riverfront Veranda area overlooking the Trent River has experienced similar settlement, as well as the approach ramp to the front entrance of the Convention Center along with steps and ramps at other locations.

The Convention Center has scheduled no events between June 25, 2012 and August 15, 2012 to allow this work to be completed; all work must be completed within this window. The Grouting Contractor will have access to the facility 7 days a week 24 hours a day. Carpet removal will begin on June 24th and is anticipated to take 3 to 4 days. During which time the Grouting Contractor would be able to work in the uncarpeted areas in the interior of the facility, or on the exterior. Once the carpet is removed the Grouting Contractor is required to direct their efforts to the Ballroom followed by the Heritage Hall. Upon written notification from the grouting contractor that grouting of these areas is a completed a survey will be conducted by ARA to determine the elevation of the floor, as described in the Specifications. The grouting contractor may perform additional work in these areas following the survey, as described in the Specifications. The Grouting Contractor is required to have completed all work, including testing of, and if required repairs to below slab utilities, in the Ballroom, Heritage Hallway, and office areas no later than August 1st to allow sufficient time for the new carpets to be installed in these areas. The Grouting Contractor may continue to work in the uncarpeted hallways, kitchen, storage rooms, boiler room, and staff bathrooms until August 8<sup>th</sup>. All equipment and materials must be demobilized no later than August 15<sup>th</sup> from the site.

The Owner intends to continue to use the second floor portions of the facility during the repair process.

The scope of work in this contract includes: urethane grouting of the existing floor slab and selected areas on the exterior of the building, along with underpinning of selected steps and ramps which have settled relative to the building. The scope of work in this contract does not include the following: removal or replacement of furnishings within the building, removal or replacement of floor coverings, repointing cracks in masonry walls, repainting. These items will be either let under separate contracts, or self-performed by the County.

Any questions may be submitted via email to the Engineer at [tom@efsnc.com](mailto:tom@efsnc.com) and to the County via Gene Hodges, Assistant County Manager at [mhodes@cravencountync.gov](mailto:mhodes@cravencountync.gov). Answers to any questions submitted will be provided to all prospective bidders to the email address they provide and posted on Craven County Government's website at [www.cravencounty.com](http://www.cravencounty.com).

Bids are to be submitted on the bid sheet provided.

Bids will be publically opened at the Craven County Administration Building, 2<sup>nd</sup> Floor Conference Room, 406 Craven Street, New Bern, NC 28560 at 1 pm on April 30, 2012.

Copies of the RFP forms may be obtained by contacting Craven County Assistant County Manager, Gene Hodges, 406 Craven Street, New Bern, NC 28560, 252-636-6600 or on the Craven County Government website at [www.cravencounty.com](http://www.cravencounty.com). Select Bid Opportunities from the list on the right of the webpage, and then click on Request for Proposals Floor Slab Pressure Grouting and Foundation Underpinning under Open Bids.

When responding to this RFP, please follow all instructions carefully. Please submit proposal contents according to the outline specified and submit documents according to the instructions in **Section, 2.2 Proposal Submittal Requirements and all Bid Forms**. Failure to follow these instructions may be considered a non-responsive proposal and may result in immediate elimination from further consideration.

The County reserves the right to request additional information from the proposers and to reject any and all proposals for any reason. The County reserves the right to judgmentally select the successful bidder and agreement that best meets the needs of the County.

The County reserves the right to reconsider any proposal submitted at any phase of the procurement. It also reserves the right to meet with select Proposers at any time to gather additional information.

The County will receive proposals at the time and place noted in this document. At that point, the County will close the receipt of proposals and begin the evaluation process.

Any interlineations, alterations or erasures must be initialized by the signer of the proposal.

Negligence or error on the part of any CONTRACTOR in preparing its proposal confers no right of withdrawal or modification of their bid after time has been called. Sureties and principals are advised that the COUNTY cannot give consideration to any "plea of error" in preparation of the bid, except in accordance with N.C.G.S. 143-129.

## **SECTION 2 – GENERAL REQUIREMENTS**

### **2.1 Proposal Contact**

This RFP and any subsequent action taken as a result thereof, is issued by Craven County. Proposal responses should be directed specifically, as outlined herein. In regards to this RFP and subsequent procurement process, vendors shall make NO CONTACTS, either written or verbal, with any Craven County employee, staff member, or Board of Commissioner members during the period beginning with the issuance of this document through approval of award unless authorized by the proposal contact. Any questions should be directed to Gene Hodges, Assistant County Manager, at [mhodes@cravencountync.gov](mailto:mhodes@cravencountync.gov) and the Engineer at [tom@efsnc.com](mailto:tom@efsnc.com) *Any attempt by a Proposer to contact or influence a member or members of the aforementioned may result in the immediate disqualification of the Proposer from award for items or services on this RFP.*

### **2.2 Proposal Submittal Requirements**

Proposers are required to prepare their proposals in accordance with the instructions outlined in this part and elsewhere in this RFP. Each Proposer is required to submit its proposal in a sealed package, with Proposer's name, RFP title, and proposal closing time/date marked clearly on the proposal submission.

Provide one (1) original and three (3) copies of complete proposal packages. The proposal packages shall be arranged and presented as stipulated in Section 2.3. **Proposal packages are to be delivered to:**

**Craven County, North Carolina  
Craven County Administration Building  
County Manager's Office  
406 Craven Street  
New Bern, NC 28560**

**Attn: Gene Hodges, Assistant County Manager**

## Proposals submitted by email to:

[mhodes@cravencountync.gov](mailto:mhodes@cravencountync.gov)

The County must receive proposals no later than **1:00 p.m. April 30, 2012**. The time of receipt shall be determined by the time clock in the Craven County Manager's office. The County will not be held responsible for the failure of any mail or delivery service to deliver a proposal response prior to the stated proposal due date and time. It is solely the Proposer's responsibility to: (1) Ascertain that they have all required and necessary information, documents and addenda, prior to submitting a response; (2) ensure that the response is received at the correct location and time. Late responses, regardless of delivery means, will not be accepted. **E-mailed responses will be accepted, and will be deemed received based upon the date and time stamp as reflected by the Craven County Administration IT server.**

All bid form documents shall be submitted on a form identical to the form included with the bidding documents. Copies shall be signed by the person or persons legally authorized to bind the Bidder to a contract.

### 2.3 Proposal Format

The proposal must be submitted on 8 1/2 x 11-inch paper, numbered, typewritten, with headings, sections and sub-sections identified appropriately. The proposal must include and be divided into five (5) sections with references to all parts of this Request for Proposal (RFP) done on a section number/paragraph number/letter basis. Any additional information that the proposer wishes to include should be added as an attachment. The five (5) sections shall be named as follows:

#### 1. General Submittals

- a. *Letter of Transmittal*: This letter will summarize in a brief and concise manner the Proposer understands of the scope of work and make a positive commitment to perform the work in a professional and timely manner. The letter should name all of the persons authorized to make representations for the Proposer, including the titles, addresses and telephone numbers of such persons. An authorized agent of the Proposer must sign the Letter of Transmittal indicating the agent's title or authority. The letter should not exceed two pages in length.
- b. *Type of Business*: The Proposer shall identify the type of business entity involved (e.g., sole proprietorship, partnership, corporation, joint venture, LLC, etc.). The Proposer shall identify whether the business entity is incorporated in North Carolina, another state, or a foreign country.
- c. *FEIN*: Provide the Federal Employer Identification Number of the Proposer.
- d. *SSN*: In the case of a sole proprietorship or partnership, provide Social Security numbers for all owners/partners.
- e. *Principals*: The proposal must name all persons or entities serving, or intending to serve as principals in the Proposer's firm. Identify each principal of the firm and any other "key personnel" who will be professionally associated with the development of the proposal. Must provide resumes of all key personnel.

- f. *Corporate Information:* If a Proposer is a corporation or LLC it shall be certified with the North Carolina Secretary of State and have a corporate status in good standing, and in the case of out-of-state corporation, they must present evidence of authority to do business in North Carolina. The corporate seal should be affixed to the bid.
- g. *Licenses and Certificates:* Proposer must provide a copy of North Carolina Business License and a copy of North Carolina General Contractor's License showing a classification and limit appropriate for the work being bid.
- h. *License Sanctions:* List any regulatory or license agency sanctions. State if there are no license sanctions against the Proposer.
- i. Proposer must provide Material Safety Data Sheets (MSDS) for all products proposed to be used on the project.
- j. *Acknowledgment of Addenda:* Include a signed and dated copy of last addendum issued by the County, if any.
- k. *Past Performance:* Proposer(s) must provide references for at least three projects of similar scope using the materials proposed to be used on this project. Additionally, the Proposer must provide references for at least three projects with public sector owners.
- l. *Insurance:* Proposer must provide proof of insurance as described in Section 4 of this document.
- m. *Bid Bond:* Proposer must provide a Bid Bond as prescribed in Section 2.7 of this document. (See Bid Form D)
- n. *Payment and Performance Bond:* Proposer must be able to provide a payment and performance bond as prescribed in Section 6.
- o. *Non-collusion affidavit.* (See Bid Form C)
- p. *Acknowledgement of Completion Date and Projected Task Completion Time* (See Bid Form E)
- q. *Acknowledgement of "As-Built" Plans* (See Bid Form F)

2. Project Understanding and Technical Approach

Provide a statement demonstrating an understanding of the services and support required by this RFP. State how the Proposer will approach the project and the methodology to be used to perform the services described in the Scope of Services. The technical approach should also outline the following:

- Ability to manage and efficiently complete work within the available time of the facility (approximately 4 weeks).
- Method of pressure urethane grouting of floor slab and selected areas on the exterior of the building.
- Method of measuring level of lift obtained.
- Plan to keep property owner informed of project progress.

3. Project Specific Personnel

An organizational chart that lists personnel assigned to this project. The list shall include but is not limited to:

- Contact persons, including telephone numbers and e-mail address
- Project manager – must have five (5) years project experience
- Other key personnel assigned to the project/this Agreement
- Provide a plan that includes but is not limited to the following; The total percent of the work to be subcontracted; A list of SUB-CONTRACTORS proposed for

this project indicating participation by local SUB-CONTRACTORS and the overall percentage of work scheduled to be performed by local SUB-CONTRACTORS; CONTRACTOR'S policies and procedures in place to insure SUB-CONTRACTOR and all sub-tier CONTRACTORS retain adequate insurances and are paid.

The COUNTY reserves the right to request the substitution of any personnel as the County deems necessary.

4. Insurance Requirements

Contractor shall provide evidence of the ability to meet the insurance requirements set forth in Section 4 - INSURANCE REQUIREMENTS of the RFP by providing a certificate of Insurance on ACORD Form 25.

5. Price Proposal

The Proposer shall submit Price Proposal forms included in these RFP documents "Bid Form A—Floor Slab Pressure Grouting and Drilled Underpinning Pier Installation Bid Sheet". All bid form documents shall be submitted on a form identical to the form included with the bidding documents. All bid form documents shall be submitted on the form included with the bidding documents. Copies shall be signed by the person or persons legally authorized to bind the Bidder to a contract. (See Form B)

## **2.4 Acceptance of Proposal (Award)**

The COUNTY shall evaluate CONTRACTOR PROPOSALS based upon the following criterion:

- Demonstrated understanding of project scope and technical approach
- Past performance with similar projects.
- References
- Local contractor participation demonstrated in the Subcontractor Plan
- Rate Schedule
- Other criteria determined appropriate by the COUNTY

## **2.5 Proposer Expenses**

The County will not be responsible for any expenses incurred by any Proposer in the development of a response to this Request for Proposal or any other activities associated with this procurement including but not limited to any onsite (or otherwise) interviews and/or presentations, and/or supplemental information provided, submitted, or given to Craven County and/or its representatives. Further, the County shall reserve the right to cancel the work described herein prior to issuance and acceptance of any contractual agreement/purchase order by the recommended Proposer even if the Board of Commissioners has formally accepted a recommendation.

## **2.6 Interpretations, Discrepancies, and Omissions**

Submit written questions about this RFP to Craven County at [mhodes@cravencountync.gov](mailto:mhodes@cravencountync.gov) and the Engineer [tom@efsnc.com](mailto:tom@efsnc.com) by 8:00 a.m., April 25, 2012. No questions or requests for clarifications will be accepted after this time.

Responses to questions will be posted at [www.cravencounty.com](http://www.cravencounty.com). Select Bid Opportunities from the list on the right of the webpage, and then click on Request for Proposals Floor Slab Pressure Grouting and Foundation Underpinning under Open Bids. Any addenda and clarifications will be issued by April 27, 2012 at 12:00 pm.

The issuance of such written responses is the only official method by which interpretation, clarification or additional information will be given by the County and/or the Engineer. Only requests answered by formal written responses will be binding. Oral and other interpretations or clarification will be without legal effect.

## **2.5 Award**

Craven County reserves the right to award a contract, based on initial offers received from Proposers, without discussion and without conducting further negotiations. Under such circumstance, the acceptance of a proposal by the County shall be deemed to be an acceptance of an offer and that such acceptance will be binding upon both parties. The County may also, at its sole discretion, have discussions with those Proposers that it deems to fall within a competitive range. The County may enter into negotiations separately with such Proposers. Negotiations with a Proposer may continue with a Proposer that the County has tentatively selected to award a contract to. The County shall not be deemed to have finally selected a Proposer until a contract has been successfully negotiated and signed by both parties.

## **2.6 Retention of Proposer Material**

Any and all information submitted in conjunction with this RFP and the evaluation process will not be returned to the respondent.

## **2.7 Bid Bond**

All proposals shall be accompanied by a deposit with COUNTY of cash, or a cashier's check, or a certified check on some bank or trust company insured by the Federal Deposit Insurance Corporation in an amount equal to not less than five percent (5%) of the proposal. In lieu of making the cash deposit as above provided, the Proposer may file a bid bond executed by a corporate surety licensed under the laws of North Carolina to execute such bonds, conditioned that the surety will upon demand forthwith make payment to the COUNTY upon said bond if the Proposer fails to execute the contract in accordance with the bid bond. This deposit shall be retained if the successful Proposer fails to execute the contract within 10 days after the award or fails to give satisfactory surety as required herein.

## **SECTION 3 – CONTRACTING INFORMATION**

### **3.1 Certification**

The Proposer hereby certifies that it has carefully examined this Request for Proposal and the Proposer certifies that it understands the scope of the work to be done and that the Proposer has knowledge and expertise to provide the scope of the work. By signature on the response to the RFP, the Proposer certifies that its proposal is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a proposal for the same materials, supplies, or equipment, and is in all respects fair and without collusion or fraud, so that all proposals for the purchase will result from free, open and competitive proposing among all vendors. Further, the Proposer certifies that it understands that collusive bidding/proposing is a violation of State and Federal law and can result in fines, prison sentences, and civil damage awards.

### **3.2 Conflict of Interest**

By submission of a response, the Proposer agrees that at the time of submittal, it: (1) has no interest (including financial benefit, commission, finder's fee, or any other remuneration) and shall not acquire any interest, either direct or indirect, that would conflict in any manner or degree with the performance of Proposer's services, or (2) will not benefit from an award resulting in a "Conflict of Interest." A "Conflict of Interest" shall include holding or retaining membership, or employment, on a board, elected office, department, division or bureau, or committee sanctioned by and/or governed by Craven County. Proposers shall identify any interests, and the individuals involved, on separate paper with the response and shall understand that the County, in consultation with legal counsel, may reject their proposal.

### **3.3 Assignment**

No assignment of the Proposer's obligations or the Proposer's right to receive payment hereunder shall be permitted without prior consent of the County. The Proposer may not sell, assign, transfer or convey the contract resulting from this RFP, in whole or in part, without the prior written approval from the County.

### **3.4 Indemnification**

The CONTRACTOR will indemnify and hold the County harmless from any and all liability, expense, judgment, suit, or cause of action for personal injury, death, or direct damage to tangible property which may accrue against the County to the extent it is caused by the negligence or intentional acts of CONTRACTOR, its SUB-CONTRACTORS, or their employees or agents, while performing duties under this Agreement, provided that the County gives the CONTRACTOR prompt, written notice of any such claim or suit. The County shall cooperate with CONTRACTOR in its defense or settlement of such claim or suit. This section sets forth the full extent of the CONTRACTOR's general indemnification of the County from liabilities that are in any way related to CONTRACTOR's performance under this Agreement.

### **3.5 Independent Contractor**

It is understood that in the performance of any services herein provided, the Proposer shall be, and is, an independent contractor, and is not an agent or employee of the County and shall furnish such services in its own manner and method, except as required by the contract. Further, the Proposer has, and shall retain the right to exercise full control over the employment, direction, compensation, and discharge of all persons employed by the Proposer in the performance of the services hereunder. The Proposer shall be solely responsible for, and shall indemnify, defend, and save the County harmless, from all matters relating to the payment of its employees, including compliance with Social Security, withholding, and all other wages, salaries, benefits, taxes, exactions, and regulations of any nature whatsoever.

### **3.6 Governing Law; Venue**

This RFP and any resulting contract shall be governed by and construed according to the laws of the State of North Carolina, Craven County. Should any portion of any contract be in conflict with the laws of the State of North Carolina. Venue for contract conflicts shall be Craven County, North Carolina.

### **3.7 Confidential Information/Public Records Law**

The County assumes no responsibility for confidentiality of information offered in a proposal. The RFP does not intend to elicit proprietary information. However, if proprietary information is submitted as part of the proposal, the information is to be labeled as such. Proposals are not subject to public inspection until after the contract award. Craven County reserves the right to share any information submitted in response to this RFP or process with any person(s) or firm(s) involved in the review and evaluation process. Proprietary or confidential information must be clearly labeled as such at the time of initial submission and to the extent provided by N.C.G.S. Chapter 132, will not be made available for public inspection. In the event that a request for inspection is made under public records law, the Proposer will be notified of the request and may participate in any subsequent civil action to compel disclosure of confidential information.

### **3.8 Compliance with Laws and Regulations**

Proposer must comply with all applicable State, Federal, and local laws, rules, and regulations. In the event any Governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship or performance of the items offered on this proposal prior to their delivery, it shall be the responsibility of the successful Proposer to notify Craven County at once, indicating in their letter the specific regulation which required such alterations. The County reserves the right to accept any such alterations, including any price adjustments occasioned thereby, or to cancel the contract.

### **3.9 Acceptance**

Submission of any proposal indicates a Proposer's acceptance of the conditions contained in this RFP unless clearly and specifically noted otherwise in the proposal.

Furthermore, the County is not bound to accept a proposal on the basis of lowest price, and further, the County has the sole discretion and reserves the right to cancel this RFP, and to reject any and all proposals, to waive any and all informalities and/or irregularities, or to re-advertise with either the identical or revised specifications, if it is deemed to be in the County's best interests to do so. The County reserves the right to accept or reject any or all of the items in the proposal, and to award the contract in whole or in part and/or negotiate any or all items with individual Proposers if it is deemed in the County's best interest. Moreover, the County reserves the right to make no selection if proposals are deemed to be outside the fiscal constraint or not in the best interest of the County.

### **3.10 New Services**

From time to time during the period of work outlined in the RFP and afterward, the County may elect to have the Proposer perform services that are not specifically described in the Statement of Work but are related to the contracted services (the "New Services"), in which event the Proposer shall perform such New Services on a time-and-materials basis, and at an hourly rate that does not exceed the hourly rate negotiated in the contract for each of the Proposer Personnel assigned to perform such New Services. This will be accomplished through an amendment to the contract and subsequent issuance of a Task Order.

## **SECTION 4 – INSURANCE REQUIREMENTS**

The CONTRACTOR shall obtain, at its sole expense, all insurance required in the following paragraphs and shall not commence work until such insurance is in full effect and certification thereof has been received by Craven County's Finance Office.

### **4.1 Workers' Compensation Insurance,**

Workers' Compensation Insurance with limits for Coverage A Statutory-State of North Carolina and Coverage B Employers Liability \$500,000 each accident, disease policy limit and disease Each Employee.

### **4.2 Commercial General Liability**

Combined single limits of no less than \$1,000,000 each occurrence and \$2,000,000 aggregate. This insurance shall include Comprehensive Broad Form Coverage including contractual liability.

### **4.3 Commercial Automobile Liability**

Commercial Automobile Liability with limits of no less than \$500,000 Combined Single Limit for bodily injury and property damage. Evidence of commercial automobile coverage is only necessary if vehicles are used in the provision of services under this Agreement and /or are brought on a Craven County site.

No deductible for any insurance policy hereunder shall have a deductible greater than \$10,000.00 per occurrence. In addition, all insurance required hereunder shall require the insuring entity to provide thirty (30) days advance written notice to COUNTY before the same may be terminated

or otherwise canceled. All insurance carriers providing such coverage must be licensed to do business in the State of North Carolina and must comply with North Carolina state law and the regulations of the North Carolina Department of Insurance. The Contractor shall provide to the COUNTY prior to commencing the services hereunder, certificates of insurance evidencing the coverage required hereby and shall notify the COUNTY immediately of the cancellation or termination of such insurance coverage. All property damage and liability policies shall name the COUNTY as an additional insured.

If the CONTRACTOR does not meet the insurance requirements of the specifications, alternate insurance coverage satisfactory to Craven County may be considered. Nothing in this section is intended to affect or abrogate the COUNTY'S immunity or other defenses.

## **SECTION 5 - SAFETY**

The CONTRACTOR shall be solely responsible for the entire site and the building or construction of the same and provide all the necessary protections as required by law or ordinances governing such conditions and as required by the County. He shall be responsible for any damages to the County's property or that of others on the job, by himself, his personnel or his subcontractors, and shall make good such damages. He shall be responsible for and pay for any claims against the County arising from such damages.

The Contractor shall adhere to the rules, regulations and interpretations of the North Carolina Department of Labor relating to Occupational Safety and Health Standards for the Construction Industry (Title 29, Code of Federal Regulations, Part 1926 published in Volume 39, Number 122, Part II, June 24, 1974 Federal Register), and revisions thereto as adopted by General Statutes of North Carolina.

The Contractor shall provide all necessary safety measures for the protection of all persons on the work, and shall fully comply with all state laws or regulations and North Carolina State Building Code requirements to prevent accidents or injury to persons on or about the location of work. He shall clearly mark or post signs warning of hazards existing, and shall barricade excavations and similar hazards. He shall protect against damage or injury from falling materials and he shall maintain all protective devices and signs throughout the progress of the work

## **SECTION 6 - PERFORMANCE REQUIREMENTS**

### **A. Performance and Payment Bond:**

Selected CONTRACTOR(s) will be required to post Performance and Payment Bonds in the amount of 100% of the contract price. These bonds shall be provided to the COUNTY prior to the commencement of CONTRACTOR'S performance hereunder, and shall remain in effect at least one (1) year after the date CONTRACTOR fully completes its services in accordance with the contract for said services. The Performance Bond and the Payment Bond shall be executed by one or more surety companies legally authorized to do business in the State of North Carolina. The surety bonds must be in the form set forth in N.C.G.S. 44A-33 without any variations therefrom. CONTRACTOR shall provide surety bonds wherein Surety waives notice of any and all modifications, omissions, additions, changes and advance payments or deferred payments in or about the contract, and agrees that the obligations undertaken by the bond shall

not be impaired in any manner by reason of any such modifications, omissions, additions, changes, and advance payments or deferred payments. The surety bonds must set forth no requirement that suit be initiated prior to the time stipulated in applicable North Carolina Statutes of Limitations.

Craven County's right to carry out the work:

If the CONTRACTOR defaults or neglects to carry out the work in accordance with the contract documents and fails after receipt of written notice from the COUNTY to commence and continue correction of such default or neglect with diligence and promptness, which, in any event, shall be no greater than twenty-four (24) hours, the COUNTY may, without prejudice to other remedies, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due to the CONTRACTOR the cost of correcting such deficiencies, including compensation for the COUNTY's additional services and expenses made necessary by such default, neglect or failure. If payments then or thereafter due to the CONTRACTOR are not sufficient to cover such amounts, the CONTRACTOR shall pay the difference to the COUNTY.

B. Liquidated Damages:

The CONTRACTOR shall be assessed liquidate damages in the amount of \$500 per day that it has not timely completed all of its services under the contract.

C. Strict Performance:

The CONTRACTOR expressly acknowledges that its performance shall be in strict accordance with the Construction Specifications, including but not limited to the slab elevation recovery. Failure to recover the slab elevation to a "level" floor shall be deemed to be a material breach.

#### **SECTION 7 - TERMINATION BY THE COUNTY FOR CAUSE**

The COUNTY may terminate the pursuant contract if the CONTRACTOR:

- Persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper equipment;
- Fails to make payment to SUB-CONTRACTORS for materials or labor in accordance with the respective Contracts between the CONTRACTOR and sub-CONTRACTORS;
- Disregards laws, ordinances, rules, regulations or orders of a public authority having jurisdiction or
- Otherwise is guilty of breach of a provision of the contract documents.

When any of the above reasons exist, the COUNTY may without any other rights or remedies of the COUNTY and after giving the CONTRACTOR and the CONTRACTOR's surety if any, 48 hours written notice, terminate employment of the CONTRACTOR and may, subject to any prior rights of the surety accept assignment of SUB-CONTRACTORS; and finish the work by whatever reasonable method the COUNTY may deem expedient.

When the COUNTY terminates the contract for one of the reasons stated above, the CONTRACTOR shall not be entitled to receive further payment, if any, until the work is finished.

If the unpaid balance of the contract sum exceeds additional costs incurred while finishing the work, including compensation for the COUNTY's services and expenses made necessary thereby, such excess shall be paid to the CONTRACTOR. If such costs exceed the unpaid balance, the CONTRACTOR shall pay the difference to the COUNTY. This obligation for payment shall survive termination of the contract.

The COUNTY may terminate the contract without cause by written notice following delivery of forty-eight (48) hour written notice to the CONTRACTOR.

### **SECTION 8 - NON-WAIVER OF RIGHTS**

It is agreed that the COUNTY'S failure to insist upon the strict performance of any provision of the pursuant contract, or to exercise any right based upon a breach thereof, or the acceptance of any performance during such breach, shall not constitute a waiver of any rights under the contract.

## **SECTION 9 - FINDINGS CONFIDENTIAL**

All of the information, reports, cost estimates, plans, specifications and documents prepared or assembled by the CONTRACTOR under the pursuant contract are the property of the COUNTY. The CONTRACTOR agrees that any such documents shall not be made available to any individual or organization other than the appropriate COUNTY officials without prior written approval of the COUNTY. Nothing contained in this paragraph shall be construed to prevent the CONTRACTOR from making information, reports and documents available to those individuals or firms directly concerned with the project involved with prior written consent of the COUNTY.

## **SECTION 10 - BINDING EFFECT**

The pursuant contract shall be binding upon the heirs, successors, assigns, agents, officials, employees, independent CONTRACTORS and SUB-CONTRACTORS of the parties.

## **SECTION 11 - CONTINUING OBLIGATION**

The parties will make and execute all further instruments and documents required to carry out the purposes and intent of the pursuant contract.

## **SECTION 12 - REFERENCES**

Use of the masculine includes feminine, singular includes plural; and captions and headings are inserted for convenience of reference and do not define, describe, extend or limit the scope of intent of the contract.

## **SECTION 13 - LOCATION OF WORK**

All work shall be performed at the New Bern Riverfront Convention Center., located at 203 South Front Street, New Bern, North Carolina.

## **SECTION 15 – CONSTRUCTION SPECIFICATION**

# **INTERIOR**

## **1. PRESSURE GROUTING**

### **1. SCOPE**

The work shall consist of drilling grout holes and injecting grout under pressure to fill voids and raise, to a more nearly level condition, the floor slab, and shall include furnishing of all materials, labor, and equipment required.

It is the intent that the grout will be placed immediately below the existing floor slab. The Contractor may, if they desire, place the grout at a greater depth, but no additional compensation will be paid for this procedure.

The Convention center has scheduled no events between June 25, 2012 and August 15, 2012 to allow this work to be completed, all work must be completed within this window. The Grouting Contractor will have access to the facility 7 days a week 24 hours a day. Carpet removal will begin on June 24th and is anticipated to take 3 to 4 days. During which time the grouting contractor would be able to work in the uncarpeted areas in the interior of the facility, or on the exterior. Once the carpet is removed the grouting contractor is required to direct their efforts to the Ballroom followed by the Heritage Hall. The Grouting Contractor is required to have completed all work, including testing of, and if required repairs to below slab utilities, in the Ballroom, Heritage Hallway, and office areas no later than August 1st to allow sufficient time for the new carpets to be installed in these areas. The Grouting Contractor may continue to work in the uncarpeted hallways, kitchen, storage rooms, boiler room, and staff bathrooms until August 8<sup>th</sup>. All equipment and materials must be demobilized no later than August 15<sup>th</sup> from the site.

The Owner intends to continue to use portions of the 2<sup>nd</sup> floor of the facility during the repair process.

### **2. MATERIALS**

The materials proposed to be used for pressure grouting shall be approved prior to use. Tests may be witnessed by the Engineer. Document the results of all tests and inspections and make a copy available to the Engineer upon request. Take prompt action to correct conditions which have resulted in, or could result in, the submission of materials, products, or completed construction which do not conform to the requirements of the specifications.

Acceptable grouting materials include:

Polymer The material used for raising concrete slabs shall be a polymer, such as water blown high-density polyurethane. The material shall be hydrophobic, closed cell, and shall exhibit the following minimum physical characteristics and properties:

Density (lb/Ft.3)	Compressive Strength (psi)
ASTM1622	ASTM 1621
3.0	40 PSI
3.5	50 PSI
4.0	60 PSI
5.0	110 PSI

The polymer foam system will have a free rise density of 3.0 – 3.2 lb/ft<sup>3</sup>, with a minimum compressive strength of 40 psi.

The polymer will meet the criteria of NSF/ANSI 61 for use around public water supply systems.

Storage and Supply. A sufficient quantity of all materials shall be on hand to insure that grouting operations will not be interrupted or delayed. Materials shall be stored and protected at all times and at all locations in such a manner that the quality of the materials is maintained.

Labeling. Materials shall be packaged and labeled such that they can be readily indentified.

### 3. EQUIPMENT

All drilling and grouting equipment shall be of a type and capacity, and in condition, to perform the work described.

### 4. ARRANGEMENT OF GROUTING EQUIPMENT

The arrangement of grouting equipment shall not interfere with the removal or replacement of the carpet. And to the extent practical shall minimize any disruption of the on-going operations of the Convention Center.

No internal combustion engines may be operated inside the building.

### 5. COMMUNICATIONS

A suitable voice communications system between individuals at the pump units and the holes shall be maintained by the Contractor.

### 6. SUBMITTALS

Contractor to submit the following for review by the Engineer prior to mobilizing.

Work Plan-A Work Plan detailing the Grouting Contractor's proposed schedule broken out by each area to be grouted, materials and equipment to be used. The Work Plan shall include a drawing showing the proposed layout of the grout injection points. Additionally, the Work Plan

shall certify that the Contractor can meet the facility closure schedule. Please use Bid Form E and any necessary additional materials attached to this form to describe this process

Description of the procedure to be used to avoid existing utilities in, or below, the floor slab.

Description of the techniques to be used to monitor the elevation of the slab during the grouting to avoid over lifting the slab.

Materials:

Description of the materials to include:

Product Name

Manufacturer

Manufacturer's certification that the material provided meets the industry standards for the material

The composition and mix ratios of the grout(s) to be used

MSDS for all materials to be used at the site. The Owner reserves the right to reject materials that are not compatible with the continued use of the office and second floor areas of the Convention Center during the work, or any area of the facility after the completion of the work.

Upon completion of the work a certification that all utilities located below the floor slab in the work area; including but not limited to electrical power, communications, water supply, sanitary sewer (to include kitchen floor drains), and natural gas have been tested, and found to be in good working order.

## 8. OWNER PROVIDED

The Owner will provide at no cost to the Contractor:

Lay down area of at least 400 square feet on the loading dock for material and equipment, and access to at least one bay of the loading dock.

Potable water: a hose bib will be designated for the Contractor's use during the duration of the project.

Electricity: 110 volt 15 amp service both at the loading dock area and at various locations in the vicinity of the work area in the interior of the building.

A pre-construction survey of the slab elevation.

A post-construction survey of the slab elevation.

## 9. GROUTING PROCEDURE

Grouting, shall be accomplished with caution to prevent over lifting of the floor slab or excessive leakage of grout at the surface.

Grout injection holes shall be located close enough together that grout injected in one hole is observed at adjacent holes to verify that the grout is forming a continuous mass under the floor slab.

The quantity of grout prepared in advance shall be kept to a minimum. Grout, which has remained in the mixer or holdover tank with or without agitation for greater than the time recommended by the manufacturer, shall be discarded.

If special ventilation, or other, measures are required to use particular materials the Contractor is to provide these measures incidental to the performance of their work. The Owner reserves the right to direct the Contractor to stop work and take additional measures, as required, to maintain a safe and healthy environment for others working in the Convention Center, at no cost to the Owner.

#### 10. RECORDS

The Contractor shall keep complete records of all grouting operations. These records include the area in which the work was performed, the weight of grout in pounds used, time logs of grout mixes and admixtures used in each batch of grout.

The Contractor shall cooperate in providing all information related to grouting activities required by the contract.

A copy of the records shall be provided the Engineer at the completion of each shift via email.

#### 11. CLEANUP

All grout holes to be filled with a plug a minimum of 2 inches thick of Portland cement grout. The surface of the plug shall be struck off level with the slab. Plugs extending above the slab shall be ground to be flush. Plugs that are depressed relative to the slab shall be reworked to be flush.

Vertical off-sets at joints or cracks in the floor slab greater than 1/16 inch at joints and cracks in the floor slab shall be ground to a uniform slope over a width of at least 50 times the height of the vertical off-set.

After grouting is completed, the Contractor shall remove the grouting plant and all related parts, equipment, and supplies from the site, including unused materials and waste.

The work area, including the lay down area, shall be broom clean.

#### 12. MEASUREMENT AND PAYMENT

For items of work for which specific unit prices or lump sum prices are established in the contract, measurement and payment for pressure grouting will be made as described below. Such

payment will constitute full compensation for all labor, materials, equipment, and all other items necessary and incidental to the completion of the work.

Mobilization/Demobilization. Payment for mobilization/demobilization will be made at the contract lump sum price. Such payment will include compensation for moving grouting equipment and supplies to the site of the work, assembling the plant at the site, moving on the site as work progresses, and removal from the site upon completion of the work. Sixty percent of the lump sum price may be invoiced when grouting work is begun. The remaining 40 percent may be invoiced after the work is completed, all excess material and contractor's equipment removed from the site, and cleanup is complete.

Work Stoppage For Convenience of Owner Payment for work stoppage for the convenience of the Owner will be made at the contract lump sum price. Such payment will include compensation for moving grouting equipment and materials to a designated location on-site. No compensation will be paid for stop work orders issued due to failure of the Contractor to execute work in accordance with the approved work plan.

Slab Elevation Recovery. Compensation for slab elevation recovery for the Ballroom and Heritage Hallway shall be paid as a percentage of the recovery required to restore the slabs in those areas to a level condition based on a comparison of the difference between a pre-construction survey and a post-construction survey conducted by the Owner.

The Engineer will schedule the post-construction survey upon written notification from the Contractor that they desire the survey to be conducted. Areas of the slab, if any, that have been lifted above "level" will be regarded as being low by an amount equal to that which they are high.

The Contractor may at their own cost retain a professional land surveyor to conduct pre- and post- construction surveys of the slab elevation. If the Contractor retains a PLS to perform these surveys the average of the Contractor's and the Owner's surveys shall be used to determine the compensation. The methods used by the Contractor's PLS must equal those used by the Owner's surveyor for accuracy and precision.

The Contractor may elect to perform additional grouting to achieve greater recovery of the floor slab following the post-construction survey by the Owner. In this case the Contractor will be required to pay for the Owner's surveyor to perform an additional post-construction survey following the additional grouting which would then become the basis for payment.

For grouting of the other areas of the interior the basis of payment shall be pounds of polymer grout used in those areas

Subsidiary Items. Compensation for any item of work described in the contract but not listed in the bid schedule will be included in the payment for the item of work to which it is made subsidiary. Testing to verify that utilities, including drains, communication, data, and electrical lines in the floor slab function properly upon completion of the work, and repairs to any damaged utilities are incidental and included in the lump sum, or unit price, for grouting of each area.

**Alternate #1. PRESSURE GROUTING – INTERIOR  
USING CEMENT LIMESTONE GROUT**

1. SCOPE

The work is as described above except that the materials used for grouting are shall include the following items:

2. MATERIALS

Portland Cement Type I and II Cement shall conform to the requirements of ASTM C 150.

Pulverized lime stone Lime stone shall conform to the requirements of ASTM C5-10.

Fly Ash Flyash shall conform to the requirements of ASTM C 618, Standard Specification for Flyash and Raw or Calcined Natural Pozzolan Class C Flyash for use as a Mineral Admixture in Portland Cement. Specifically, it shall conform to all requirements of Table 1 and Table 2 as outlined therein.

The concrete supplier shall furnish a notarized certificate from the flyash marketer at the time of submittal of concrete mix designs for approval indicating conformance with these requirements. Also, a copy of the most recent chemical analysis shall be provided.

At no time during the course of the project will a change of flyash source (plant) be permitted without the prior written consent of the Engineer.

Water. Water used in the grout mix shall be clean and free from injurious amounts of oil, acid, organic matter, or other deleterious substances. Potable water will be provided by the Owner for use on the project site at no cost to the Contractor.

Sand. Sand for grout shall meet current NCDOT specifications for fine-aggregate and shall be free of deleterious substances.

Bulk Fillers. Bulk fillers other than sand shall be free of deleterious substances.

Admixtures. Admixtures shall be compatible with the grouting equipment, grout, and the existing facility.

Paragraphs 3 through 12 as per PRESSURE GROUTING – INTERIOR above.

**Alternate #2. PRESSURE GROUTING – INTERIOR  
OVERLIFTING SLAB IN COLONIAL CAPITAL BALLROOM**

1. SCOPE

The work shall be as described above in Section 1 Pressure Grouting – Interior or Alternative #1. Pressure Grouting – Interior using cement limestone grout. Except that the target elevations against which the work in the Colonial Capital Ballroom shall be measured shall have the final elevation of each point increased by 1 inch times the ratio of the settlement of the point prior to the start of the work divided by 5.8 inches. For example a point which prior to the start of work was 2.9 inches below the “zero” point would need to be raised to  $1 \text{ inch} \times (2.9/5.8) = 0.5$  inches above the “zero” point. The purpose of this being to create a crown in the floor slab to accommodate anticipated future settlement.

**Alternate #3. UNDERPINNING PORTION OF THE SLAB  
IN THE COLONIAL CAPITAL BALLROOM**

1. SCOPE

As a turn-key design-build project underpin the floor slab of the Colonial Capital Ballroom below the movable partitions, such that when future settlement of the floor slab in the areas that have been pressure grouted occurs the floor slab along the lines where the movable partitions are located will behave similarly to the portions of the building that are currently pile supported. The minimum depth for the underpinning piles/piers is 35 feet below the FFE of the Colonial Capital Ballroom.

2. SUBMITTALS

Submit plans for this work prepared by an Engineer registered in the State of North Carolina. The Owner reserves the right to reject, in whole or in part, the plans and require redesign if in the opinion of the Owner’s Engineer the plans submitted are not adequate to support the element of the facility in question. All sections of the floor slab, or other elements of the facility, disturbed or removed, in whole or in part, to install underpinning piers to be restored to match existing finishes.

# **EXTERIOR**

## **2. PRESSURE GROUTING**

### **1. SCOPE**

The work shall consist of drilling grout holes and injecting grout under pressure to fill voids and raise, to a more nearly uniform slope the slab at the front entrance ramp and areas of the Riverfront Veranda and patio adjacent to the Trent River, and shall include furnishing of all materials, labor, and equipment required.

Exterior pressure grouting is to occur after the installation of the drilled underpinning piers and lifting of the underpinned elements of the structure.

It is the intent that the grout will be placed immediately below the existing slabs. The Contractor may, if they desire, place the grout at a greater depth, but no additional compensation will be paid for this procedure.

The Owner intends to continue to use portions of the facility during the repair process.

### **2. MATERIALS**

Refer PRESSURE GROUTING-INTERIOR and Alternative #1 PRESSURE GROUTING-INTERIOR Section 2. Materials

### **3. EQUIPMENT**

All drilling and grouting equipment shall be of a type and capacity, and in condition, to perform the work described.

### **4. ARRANGEMENT OF GROUTING EQUIPMENT**

The arrangement of grouting equipment shall be made to minimize the disruption of the on-going operations of the Convention Center.

No internal combustion engines may be operated inside the building.

### **5. COMMUNICATIONS**

A suitable voice communications system between individuals at the pump units and the holes shall be maintained by the Contractor.

### **6. SUBMITTALS**

Contractor to submit the following for review by the Engineer prior to mobilizing.

Work Plan-A Work Plan detailing the schedule, materials, and equipment to be used. The Work Plan shall include a drawing showing the proposed layout of the grout injection points.

Description of the procedure to be used to avoid existing utilities in, or below, the slabs.

Description of the techniques to be used to monitor the elevation of the slab during the grouting to avoid over lifting the slab.

Materials:

Description of the materials to include:

Product Name

Manufacturer

Manufacturer's certification that the material provided meets the industry standards for the material

The composition and mix ratios of the grout(s) to be used

MSDS for all materials to be used at the site. The Owner reserves the right to reject materials that are not compatible with the continued use of the office and second floor areas of the Convention Center.

## 8. OWNER PROVIDED

The Owner will provide at no cost to the Contractor:

Lay down area of at least 400 square feet on the loading dock for material and equipment, and access to at least one bay of the loading dock.

Potable water: a hose bib will be designated for the Contractor's use during the duration of the project.

Electricity: 110 volt 15 amp service both at the loading dock area and at various locations in the vicinity of the work area in the interior and on the exterior of the building.

## 9. GROUTING PROCEDURE

Grouting, shall be accomplished with caution to prevent over lifting of the slab or excessive leakage at the surface.

Grout injection holes shall be located close enough together that grout injected in one hole is observed at adjacent holes to verify that the grout is forming a continuous mass under the floor slab.

The quantity of grout prepared in advance shall be kept to a minimum. Grout, which has remained in the mixer or holdover tank with or without agitation for polymer grout for greater than the time recommended by the manufacturer, or for Portland Cement grout for greater than one (1) hour, shall be discarded.

If special ventilation, or other, measures are required to use particular materials the Contractor is to provide these measures incidental to the performance of their work. The Owner reserves the right to direct the Contractor to stop work and take additional measures, as required, to maintain a safe and healthy environment for others working in the Convention Center, at no cost to the Owner.

## 10. RECORDS

The Contractor shall keep complete records of all grouting operations. These records include time logs of grout mixes and admixtures used in each batch of grout.

The Contractor shall cooperate in providing all information related to grouting activities required by the contract.

A copy of the records shall be provided the Engineer at the completion of each shift via email.

## 11. CLEANUP

All grout holes to be filled with a plug a minimum of 2 inches thick of Portland cement grout. The surface of the plug shall be struck off level with the slab. Plugs extending above the slab shall be ground to be flush. Plugs that are depressed relative to the slab shall be reworked to be flush.

Vertical off-sets at joints or cracks in the floor slab greater than 1/8 inch at joints and cracks in the floor slab shall be ground to a uniform slope over a width of at least 25 times the height of the vertical off-set.

After grouting is completed, the Contractor shall remove the grouting plant and all related parts, equipment, and supplies from the site, including unused materials and waste.

The work area, including the lay down area, shall be broom clean.

## 12. MEASUREMENT AND PAYMENT

For items of work for which specific unit prices or lump sum prices are established in the contract, measurement and payment for pressure grouting will be made as described below. Such payment will constitute full compensation for all labor, materials, equipment, and all other items necessary and incidental to the completion of the work.

Work Stoppage For Convenience of Owner Payment for work stoppage for the convenience of the Owner will be made at the contract lump sum price. Such payment will include compensation for moving grouting equipment and materials to a designated location on-site. No compensation will be paid for stop work orders issued due to failure of the Contractor to execute work in accordance with the approved work plan.

Grouting. Compensation for grouting shall be paid on a cubic yard basis for cement and lime based grouts and a pound basis for polymer grouts.

Subsidiary Items. Compensation for any item of work described in the contract but not listed in the bid schedule will be included in the payment for the item of work to which it is made subsidiary. Testing to verify that utilities function properly upon completion of the work, and repairs to any damaged utilities are incidental and included in the base price for grouting.

### 3. DRILLED UNDERPINNING PIERS

#### 1. SCOPE

The work shall consist of installing 22 drilled underpinning piers to a minimum depth of 35 feet below the existing grades to raise, to a more nearly level condition, the portion of the front entrance ramp closest to the building, utility room entrance landing and steps, and back hall exit steps, and shall include furnishing of all materials, labor, and equipment required.

The Owner intends to continue to use portions of the facility during the repair process.

#### 2. MATERIALS

The materials proposed to be used for underpinning shall be approved prior to use. Take prompt action to correct conditions which have resulted in or could result in the submission of materials, products, or completed construction which do not conform to the requirements of the specifications.

Steel Pipe Steel pipe with a minimum outside diameter of 2.8 inches with a minimum wall thickness of 0.22 inches and a minimum yield strength of 50 ksi. Connections may be threaded, welded, or bolted.

Underpinning Brackets Underpinning brackets compatible with the underpinning pile with an allowable load of 20 kips.

Coating All steel, including pipe, brackets, bolts, and other components to be hot dip galvanized. Coat welds or damage to the HDG with ZRC Cold Galvanizing Compound, or approved equal, in accordance with the manufacturer's recommendations.

Portland Cement Type I and II Cement shall conform to the requirements of ASTM C 150.

Water. Water used in the grout mix shall be clean and free from injurious amounts of oil, acid, organic matter, or other deleterious substances. Potable water will be provided by the Owner for use on the project site at no cost to the Contractor.

Admixtures. Admixtures shall be compatible with the grouting equipment, grout, and the existing facility.

Materials shall be stored and protected at all times and at all locations in such a manner that the quality of the materials is maintained.

Labeling. Materials shall be packaged and labeled such that they can be readily indentified.

#### 3. EQUIPMENT

All drilling and grouting equipment shall be of a type and capacity, and in condition, to perform the work described.

#### 4. ARRANGEMENT OF EQUIPMENT

The arrangement of the drilling and grouting equipment shall be made to minimize the disruption of the on-going operations of the Convention Center.

No internal combustion engines may be operated inside the building.

## 5. COMMUNICATIONS

A suitable voice communications system between individuals at the pump units and the holes shall be maintained by the Contractor.

## 6. SUBMITTALS

Contractor to submit the following for review by the Engineer prior to mobilizing.

Work Plan-A Work Plan detailing the materials and equipment to be used.

Materials:

Description of the materials to include:

Product Name

Manufacturer

Manufacturer's certification that the material provided meets the industry standards for the material

The composition and mix ratios of the grout(s) to be used

MSDS for all materials to be used at the site. The Owner reserves the right to reject materials that are not compatible with the continued use of the office and second floor areas of the Convention Center.

## 8. OWNER PROVIDED

The Owner will provide at no cost to the Contractor:

Lay down area of at least 400 square feet on the loading dock for material and equipment, and access to at least one bay of the loading dock.

Potable water: a hose bib will be designated for the Contractor's use during the duration of the project.

Electricity: 110 volt 15 amp service both at the loading dock area and at various locations in the vicinity of the work area in the interior of the building.

## 9. DRILLING AND GROUTING PROCEDURE

Underpinning piers may be installed by pre-drilling using augers, air, or mud rotary techniques and lowering the underpinning pier into the pre-drilled hole, or by drilling with the underpinning pier using a single use bit and air or mud rotary. Helical or push (reaction) type piers are not acceptable.

Grouting of underpinning piers shall be accomplished either with a tremie pipe extending to the bottom of the drilled hole after the underpinning pier has been installed, or by pumping grout through the interior of the underpinning pier. Grouting is to continue until clean grout is emerging from the hole having flushed out the cuttings and completely filled both the interior and exterior annular spaces to the ground surface.

The quantity of grout prepared in advance shall be kept to a minimum. Grout, which has remained in the mixer or holdover tank with or without agitation for greater than one (1) hour, shall be discarded.

Brackets may be installed on underpinning piers prior to the grout setting, but load shall not be transferred to the bracket for a minimum of 72 hours.

After the grout has cured for a minimum of 72 hours the structure being underpinned may be lifted to the maximum extent practical.

If special ventilation, or other, measures are required to use particular materials the Contractor is to provide these measures incidental to the performance of their work. The Owner reserves the right to direct the Contractor to stop work and take additional measures, as required, to maintain a safe and healthy environment for others working in the Convention Center, at no cost to the Owner.

## 10. RECORDS

The Contractor shall keep complete records of all underpinning operations. These records include the date, number, and depth to which each underpinning pier was installed.

The Contractor shall cooperate in providing all information related to underpinning activities required by the contract.

A copy of the records shall be provided the Engineer at the completion of each shift via email.

## 11. CLEANUP

After underpinning pier installation and grouting is completed, the Contractor shall remove the drilling equipment, grouting plant and all related parts, equipment, and supplies from the site, including unused materials and waste.

The work area, including the lay down area, shall be broom clean. Landscaped areas shall be free of debris and raked.

## 12. MEASUREMENT AND PAYMENT

For items of work for which specific unit prices or lump sum prices are established in the contract, measurement and payment for pressure grouting will be made as described below. Such payment will constitute full compensation for all labor, materials, equipment, and all other items necessary and incidental to the completion of the work.

Mobilization/Demobilization. Payment for mobilization/demobilization will be made at the contract lump sum price. Such payment will include compensation for moving grouting equipment and supplies to the site of the work, assembling the plant at the site, moving on the site as work progresses, and removal from the site upon completion of the work. Sixty percent of the lump sum price will be paid when underpinning work is begun. The remaining 40 percent will be paid after the work is completed, all excess material and contractor's equipment removed from the site, and cleanup is complete.

Work Stoppage For Convenience of Owner Payment for work stoppage for the convenience of the Owner will be made at the contract lump sum price. Such payment will include compensation for moving equipment and materials to a designated location on-site. No compensation will be paid for stop work orders issued due to failure of the Contractor to execute work in accordance with the approved work plan.

Underpinning Piers. Compensation for underpinning piers shall be paid as a unit price for supplying, installing, and grouting an underpinning pier to a depth of 35 feet below the existing ground surface, installing a bracket to transfer load from the structure to the underpinning pier, and performing lifting.

Subsidiary Items. Compensation for any item of work described in the contract but not listed in the bid schedule will be included in the payment for the item of work to which it is made subsidiary. Excavation to install piers, chipping and cutting of existing footings to install brackets, backfilling excavations with compacted fill, and replacing concrete slabs (if removed to install underpinning piers) are incidental and included in the base price for underpinning.

#### **4. ALTERNATIVE #4 UNDERPINNING AND PRESSURE GROUTING OF RIVERFRONT VERANDA & ASSOCIATED STEPS AND RAMPS**

##### **1. SCOPE**

As a turn-key design-build project underpin the Riverfront Veranda and associated steps and ramps of the New Bern River Front Convention Center including the handicapped ramp and steps. All underpinning piers must extend to a minimum depth of 35 feet below the existing finished grade.

The Owner intends to continue to use portions of the facility during the repair process.

##### **2. SUBMITTALS**

Submit plans prepared by an Engineer registered in the State of North Carolina. The Owner reserves the right to reject, in whole or in part, the plans and require redesign if in the opinion of the Owner's Engineer the plans submitted are not adequate to support the element of the facility in question. All slabs, or other elements of the Patio, disturbed or removed, in whole or in part, to install underpinning piers to be restored to match existing finishes.

# **Bid Form A**

## Floor Slab Pressure Grouting and Drilled Underpinning Pier Installation Bid Sheet

### Floor Slab Pressure Grouting and Drilled Underpinning Pier Installation Bid Sheet

Item	Unit Cost	Unit	Number	Extended Cost	Estimated Duration (days)
Mobilization/Demobilization for Grouting		Lump Sum	1		
Urethane Grouting -Ballroom		Lump Sum	1		
Urethane Grouting –Heritage Hallway		Lump Sum	1		
Urethane Grouting –Other Interior Areas		Pound			
Work Stoppage of Pressure Grouting-Interior for the Convenience of the Owner		Each			N/A
Pressure Grouting –Exterior Urethane Based Grout		Pound			
Work Stoppage of Pressure Grouting-Exterior for the Convenience of the Owner		Each			N/A
Mobilization/Demobilization for Underpinning Piers		Lump Sum	1		
Drilled Underpinning Pier		Each	22		
Work Stoppage of Underpinning Pier Installation for the Convenience of the Owner		Each			N/A
<b>Total</b>	N/A	N/A	N/A		
Alternative #1 Pressure grouting with Portland cement or crushed limestone in lieu of urethane-Ballroom		Lump Sum	1		
Alternative #1 Pressure grouting with Portland cement or crushed limestone in lieu of urethane-Heritage Hallway		Lump Sum	1		
Alternative #1 Pressure grouting with Portland cement or crushed limestone in lieu of urethane-Other Interior Areas		Cubic Yard			
Alternative #2 Pressure grouting to raise area of historical maximum settlement in Main Ballroom to an elevation of 1 inch above “level”		Lump Sum	1		
Alternative #3 Underpinning portions of the floor of the Colonial Capital Ballroom where the moveable partitions meet the floor.		Lump Sum	1		
Alternative #4		Lump Sum	1		

Underpinning and pressure grouting of Riverfront Veranda					
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\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Individual Authorized to Bind the Above Named Company

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

# **Bid Form B**

## **PROPOSER'S BID CERTIFICATION FORM**

To Whom It May Concern:

I have carefully examined the Request for Proposal and any other documents accompanying or make a part of this Request for Proposal.

I hereby propose to perform the following prices as specified in this Floor Slab Pressure Grouting and Foundation Underpinning Request for Proposal at the rates described on Floor Slab Pressure Grouting and Drilled Underpinning Pier Installation Bid Sheet.

I certify that all information contained in this proposal is truthful to the best of my knowledge and belief. I further certify that I am duly authorized to submit this proposal on behalf of the firm as its act and deed and that the firm is ready, willing and able to perform if awarded the contract.

I further certify, under oath, that this proposal is made without prior understanding, agreement, connection, discussion, or collusion with any other person, firm or corporation submitting a proposal for the same product or service; no officer employee or agent of the County of Craven or any other proposer is interested in said proposal; and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

It is distinctly understood that the Board of County Commissioners reserves the right to reject any or all proposals.

\_\_\_\_\_  
NAME OF FIRM

\_\_\_\_\_  
AUTHORIZED SIGNATURE

\_\_\_\_\_  
NAME & TITLE, TYPED OR PRINTED

\_\_\_\_\_  
MAILING ADDRESS

\_\_\_\_\_  
CITY, STATE, ZIP CODE

Federal Tax ID: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 2011

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

My Commission expires: \_\_\_\_\_

(SEAL)

# Bid Form C

## NON-COLLUSION AFFIDAVIT

Floor Slab Pressure Grouting and  
Foundation Underpinning

State of North Carolina  
County of Craven

\_\_\_\_\_, being first duly sworn, deposes and says that:

1. He/She is the \_\_\_\_\_ of \_\_\_\_\_, the proposer that has submitted the attached proposal;
2. He/She is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such proposal;
3. Such proposal is genuine and is not a collusive or sham proposal;
4. Neither the said proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other proposer firm or Person to submit a collusive or sham proposal in connection with the contract for which the attached proposal has been submitted or to refrain from proposing in connection with such contract, or has in any manner, directly or indirectly sought by agreement or collusion of communication or conference with any other proposer, firm or person to fix the price or prices in the attached proposal or of any other proposers, or to fix any overhead, profit or cost element of the proposal price of the proposal of any other proposer or to secure through collusion, conspiracy, connivance or unlawful agreement any advantage against the County of Craven or any person interested in the proposed contract; and
5. The price or prices quoted in the attached proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

\_\_\_\_\_  
(Seal)

\_\_\_\_\_  
Title

SUBSCRIBED AND SWORN TO BEFORE ME,

This \_\_\_\_\_ day of \_\_\_\_\_, 2012

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

My Commission Expires: \_\_\_\_\_

# **Bid Form D**

## Bid Deposit and Addenda Acknowledgment Form

The undersigned has included cash, a certified check or cashier check on a bank or trust company insured by the Federal Deposit Insurance Corporation, or a bid bond executed by a surety company licensed under the laws of North Carolina, in an amount equal to not less than five percent (5%) of the bid per year of the contract through June 30, 2015.

In addition, the undersigned agrees that in the case of failure on his part to execute the contract and the bond within ten consecutive calendar days after written notice being given on the award of contract, the check, cash or bid bond accompanying this bid shall be paid into the funds of the Craven County account set aside for this project, as liquidated damages for such failure; otherwise, the check, cash or bid bond accompanying this proposal shall be returned to the undersigned.

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Printed Signature

\_\_\_\_\_  
Date

### Addenda Acknowledgment

Receipt of the following addenda is acknowledged:

Addendum # \_\_\_\_\_ Date \_\_\_\_\_, 2012

# **Bid Form E**

## Acknowledgement of Completion Date and Projected Task Completion Time

I have read the information in this Request for Proposals and I understand that all work related to the Floor Slab Pressure Grouting and Foundation Underpinning project must be completed on or before August 8, 2012 and all equipment and materials demobilized on or before August 10, 2012.

---

Authorized Signature

Date

In the space provided, please list your estimated date that the following tasks will be completed:

Mobilization

---

Grouting of Ballroom

---

Grouting of Heritage Hall

---

Grouting of Office Area

---

Grouting of Kitchen and Back Areas

---

Grouting of Exterior Areas

---

Drilled Underpinning Piers

---

Scheduling of Survey (s)

---

Demobilization

---

Alternate 1

---

Alternate 2

---

Alternate 3

---

Alternate 4

---

# **Bid Form F**

## **Acknowledgement of “As-Built” Plans**

The “As-Built” plans included with this RFP are the copyrighted work of Maune Belangia Faulkenberry Architects, P.A. They are provided for general information and reference only, and may not be relied upon or otherwise reproduced or copied. Deviations may exist between these plans and actual construction. All bidders shall independently verify the information contained therein. The successful bidder shall indemnify and otherwise hold Maune Belangia Faulkenberry Architects, P.A, Virtexco Corporation, Moffatt and Nichols, and Hellmuth Obata & Kassabaum Inc. harmless from any and all claims related to the bidder’s use, reference, and reliance, if any, on these plans.

---

Authorized Signature

---

Printed Signature

---

Date

# Attachment List

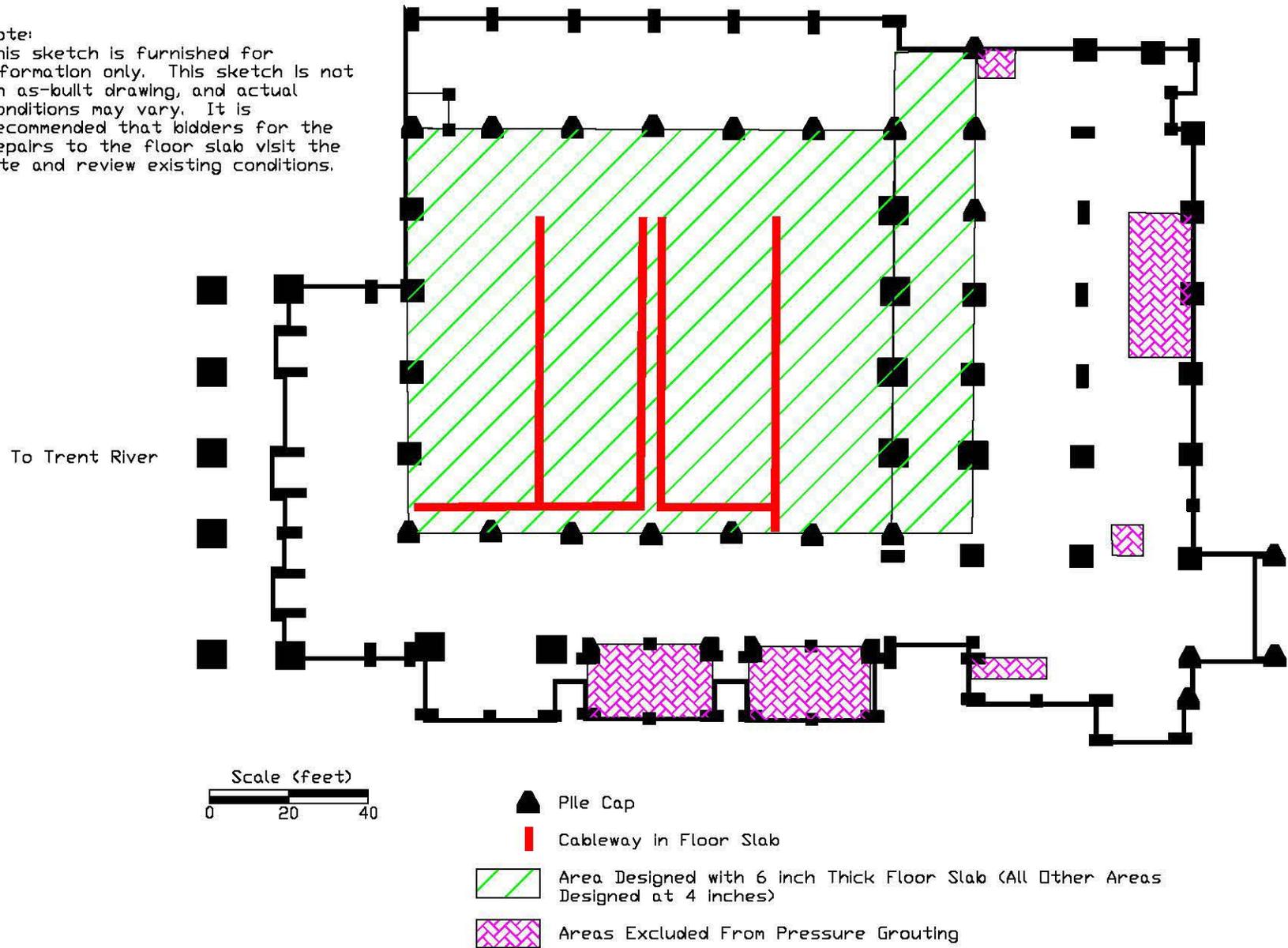
## Plans and Drawings

Engineered Foundation Solutions Sketch	1
<u>As-Built Drawings</u>	2
Convention Center Site Plan	3
Ground Floor Plan Dimensions	4
Partial Floor Plan	5
First Floor Plumbing Plan	6
First Floor Power Plan	7
Piling Foundation and Earthwork Contract Foundation Plan	8
Piling Foundation and Earthwork Contract Typical Construction Plans	9
Piling Foundation and Earthwork Contract Drawing 1	10
Piling Foundation and Earthwork Contract Drawing 2	11
Bathroom Plumbing Plans	12
Kitchen Plans	13
Slab on Grade Plan	14

## Scans

10 colors no walls	15
10 colors	16
10 shades no walls	17
10 shades	18
60 colors no walls	19
60 colors	20
60 shades no walls	21
60 shades	22
Back hall volume	23
Ballroom volume	24
Kitchen hall volume	25
Main halls volume	26
Overall contours	27
Contours 2	28

Note:  
 This sketch is furnished for information only. This sketch is not an as-built drawing, and actual conditions may vary. It is recommended that bidders for the repairs to the floor slab visit the site and review existing conditions.



New Bern Riverfront Convention Center  
 New Bern, North Carolina  
 Sketch of Foundation of Building  
 w/Notes Related to Repairs to Floor Slab  
 Figure 1 of 1

Engineered Foundation Solutions, PLLC  
 4122 Bennett Memorial Rd; Suite 101  
 Durham, NC 27705  
 (919) 730-3827  
 Firm # P-0542

# CRAVEN COUNTY CONVENTION CENTER

## SOUTH FRONT STREET, NEW BERN, NORTH CAROLINA

### CRAVEN COUNTY COMMISSIONERS

J. HAROLD TALTON, CHAIRMAN  
LEE K. ALLEN  
PETE BLAND  
DON PHILLIPS

JOHNNIE SAMPSON  
ALBERT TOON  
CHUCK TYSON

HAROLD BLIZZARD, COUNTY MANAGER  
GEORGE SAWYER, ASSISTANT COUNTY MANAGER

VIRTEXCO CORPORATION  
977 NORFOLK SQUARE  
NORFOLK, VIRGINIA 23502  
AS-BUILT DRAWINGS

VIRTEXCO CORPORATION  
977 NORFOLK SQUARE  
NORFOLK, VIRGINIA 23502  
AS-BUILT DRAWINGS

VIRTEXCO CORPORATION  
977 NORFOLK SQUARE  
NORFOLK, VIRGINIA 23502  
AS-BUILT DRAWINGS

VIRTEXCO CORPORATION  
977 NORFOLK SQUARE  
NORFOLK, VIRGINIA 23502  
AS-BUILT DRAWINGS

VIRTEXCO CORPORATION  
977 NORFOLK SQUARE  
NORFOLK, VIRGINIA 23502  
AS-BUILT DRAWINGS

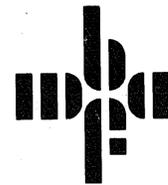
VIRTEXCO CORPORATION  
977 NORFOLK SQUARE  
NORFOLK, VIRGINIA 23502  
AS-BUILT DRAWINGS

VIRTEXCO CORPORATION  
977 NORFOLK SQUARE  
NORFOLK, VIRGINIA 23502  
AS-BUILT DRAWINGS

CONV. CENTER

## MAUNE BELANGIA FAULKENBERRY ARCHITECTS PA

244 1/2 MIDDLE STREET NEW BERN, NORTH CAROLINA 28560  
TELEPHONE 252 637 6373 FACSIMILE 252 637 3259



## Hellmuth, Obata & Kassabaum, Inc.

16150 N.E. 85th Street, Suite 126, Redmond, Washington 98052  
TELEPHONE 206 702 0714

FACSIMILE 206 556 19837

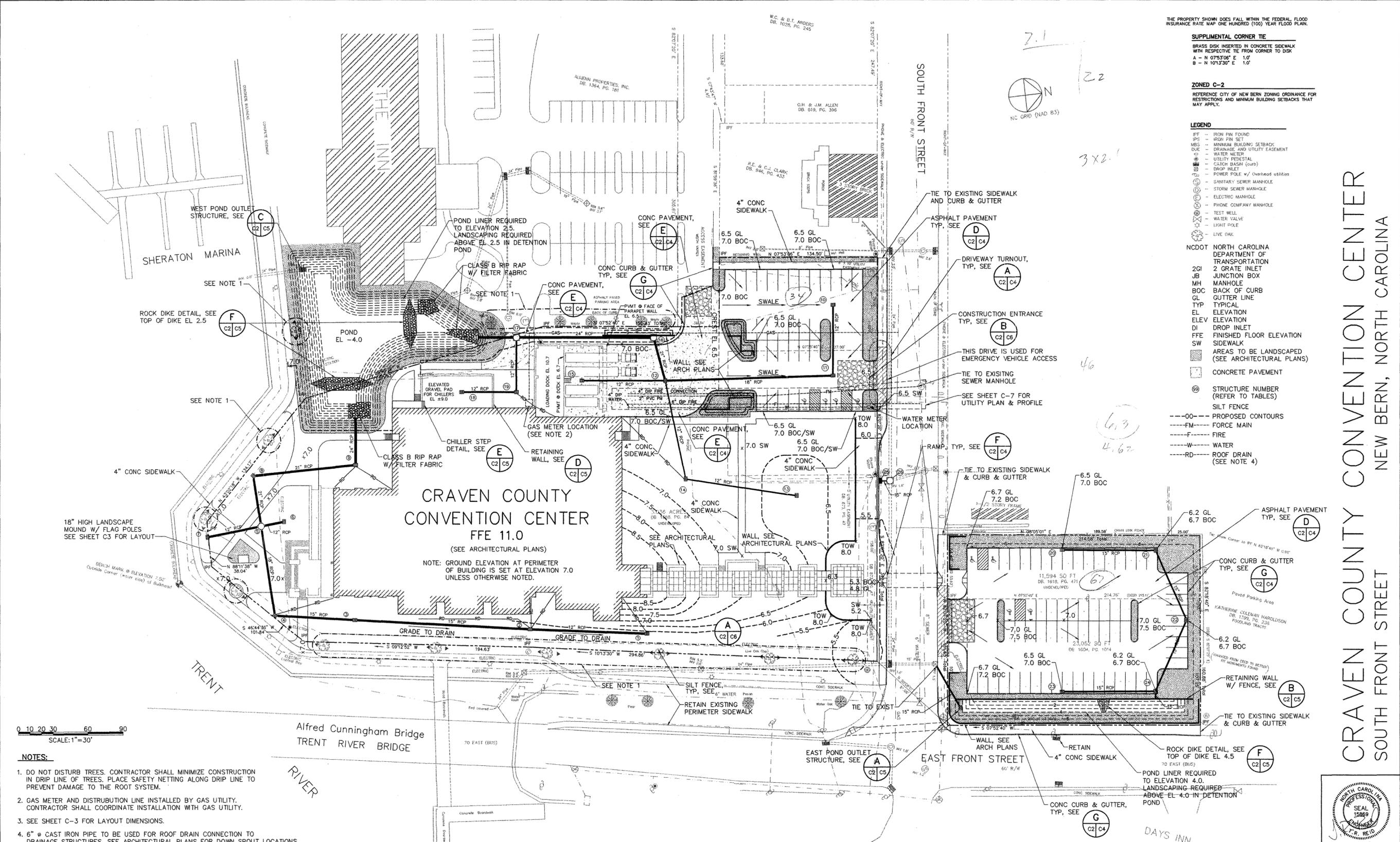


THE PROPERTY SHOWN DOES FALL WITHIN THE FEDERAL FLOOD INSURANCE RATE MAP ONE HUNDRED (100) YEAR FLOOD PLAN.

**SUPPLEMENTAL CORNER TIE**  
BRASS DISK INSERTED IN CONCRETE SIDEWALK WITH RESPECTIVE TIE FROM CORNER TO DISK  
A = N 07°30' E 1.0'  
B = N 101°30' E 1.0'

**ZONED C-2**  
REFERENCE CITY OF NEW BERN ZONING ORDINANCE FOR RESTRICTIONS AND MINIMUM BUILDING SETBACKS THAT MAY APPLY.

- LEGEND**
- IFP - IRON FIN FOUND
  - IPS - IRON FIN SET
  - MES - MINIMUM BUILDING SETBACK
  - DUE - DRAINAGE AND UTILITY EASEMENT
  - WM - WATER METER
  - UP - UTILITY PEDESTAL
  - CB - CATCH BASIN (CONC)
  - DI - DROP INLET
  - PP - POWER POLE w/ Overhead Utilition
  - SS - SANITARY SEWER MANHOLE
  - SM - STORM SEWER MANHOLE
  - EM - ELECTRIC MANHOLE
  - PC - PHONE COMPANY MANHOLE
  - TW - TEST WELL
  - WP - WATER VALVE
  - LP - LIGHT POLE
  - LD - LIVE OAK
- NCDOT**
- 2GI - 2 GRATE INLET
  - JB - JUNCTION BOX
  - MH - MANHOLE
  - BOC - BACK OF CURB
  - GL - GUTTER LINE
  - TYP - TYPICAL
  - ELEV - ELEVATION
  - DI - DROP INLET
  - FFE - FINISHED FLOOR ELEVATION
  - SW - SIDEWALK
  - AREAS TO BE LANDSCAPED (SEE ARCHITECTURAL PLANS)
  - CONCRETE PAVEMENT
  - STRUCTURE NUMBER (REFER TO TABLES)
  - SILT FENCE
  - PROPOSED CONTOURS
  - FORCE MAIN
  - FIRE
  - WATER
  - ROOF DRAIN (SEE NOTE 4)



**CRAVEN COUNTY CONVENTION CENTER**  
FFE 11.0  
(SEE ARCHITECTURAL PLANS)

NOTE: GROUND ELEVATION AT PERIMETER OF BUILDING IS SET AT ELEVATION 7.0 UNLESS OTHERWISE NOTED.

0 10 20 30 60 90  
SCALE: 1" = 30'

- NOTES:**
- DO NOT DISTURB TREES. CONTRACTOR SHALL MINIMIZE CONSTRUCTION IN DRIP LINE OF TREES. PLACE SAFETY NETTING ALONG DRIP LINE TO PREVENT DAMAGE TO THE ROOT SYSTEM.
  - GAS METER AND DISTRIBUTION LINE INSTALLED BY GAS UTILITY. CONTRACTOR SHALL COORDINATE INSTALLATION WITH GAS UTILITY.
  - SEE SHEET C-3 FOR LAYOUT DIMENSIONS.
  - 6" Ø CAST IRON PIPE TO BE USED FOR ROOF DRAIN CONNECTION TO DRAINAGE STRUCTURES. SEE ARCHITECTURAL PLANS FOR DOWN SPOUT LOCATIONS.

WEST SIDE DRAINAGE SYSTEM			
DRAINAGE STRUCTURE NUMBER	TOP OF GRATE ELEV.	INVERT OUT ELEV.	STRUCTURE TYPE
1	6.0	3.9	DI
2	6.5	3.4	DI
3	6.5	3.0	DI
4	6.5	2.8	DI
5	6.8	2.5	JB W/ MH
6	6.5	2.5	DI
7	6.5	2.5	DI
8	6.5	2.3	DI
9	6.5	2.0	DI
OUTLET		1.8	

EAST SIDE PARKING DRAINAGE SYSTEM			
DRAINAGE STRUCTURE NUMBER	TOP OF GRATE ELEV.	INVERT OUT ELEV.	STRUCTURE TYPE
10	6.2	3.4	DI
11	6.2	3.2	DI
12	6.3	2.7	DI
13	6.0	3.5	DI
14	6.1	3.1	DI
15	6.3	3.0	DI*
16	7.0	2.5	JB W/ MH
17	7.0	2.0	JB W/ MH
18	9.0	3.0	DI
19	6.7	2.3	DI
OUTLET		1.8	

OFFSITE PARKING			
DRAINAGE STRUCTURE NUMBER	TOP OF GRATE ELEV.	INVERT OUT ELEV.	STRUCTURE TYPE
20	6.5	3.5	CB
21	6.2	3.2	CB
22	6.2	2.9	CB
23	6.5	3.5	CB
24	6.2	2.7	CB
OUTLET		2.3	

SOUTH FRONT STREET			
DRAINAGE STRUCTURE NUMBER	TOP OF GRATE ELEV.	INVERT OUT ELEV.	STRUCTURE TYPE
25	5.1	1.8	CB
26	MATCH PVMT	1.6 EXIST	JB W/ MH

- FOR DI USE NCDOT CONCRETE DROP INLET STANDARD 840.14 W/ 840.16 FRAME & GRATE.
- FOR STRUCTURE 15 USE 840.29 FRAME & GRATE.
- FOR JB USE NCDOT CONCRETE JUNCTION BOX STANDARD 840.31.
- FOR CB USE NCDOT CONCRETE CATCH BASIN STANDARD 840.02 W/ 840.03 FRAME, GRATE AND HOOD.

**MOFFATT & NICHOL**  
ENGINEERS  
2209 CENTURY DRIVE - SUITE 500  
RALEIGH, NORTH CAROLINA 27612  
PHONE: (919) 781-4626

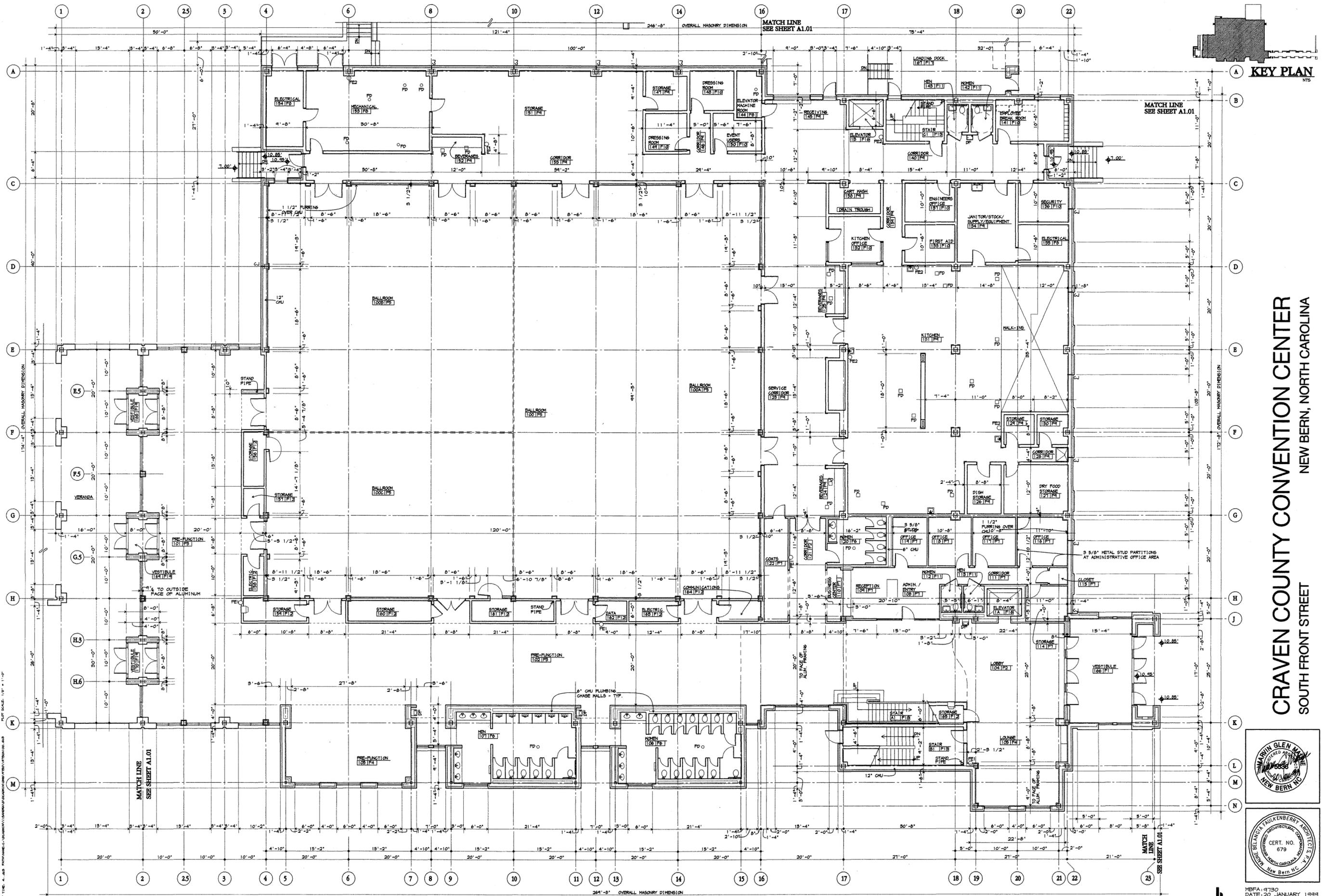
DSGN	TRR	DR	BDF	CHK	TRR
JOB NO.	4332	SUBMITTED BY	LESNIK	TITLE	VP

**MAUNE BELANGIA FAULKENBERRY ARCHITECTS PA**  
244 1/2 MIDDLES TREET NEWBERN, NORTH CAROLINA 28560  
TELEPHONE 252 637 6373 FACSIMILE 252 637 3259

Hellmuth, Obata & Kassabaum, Inc.  
16150 N.E. 85th Street, Suite 126, Redmond, Washington 98052  
TELEPHONE 206 702 0714 FACSIMILE 206 556 9837

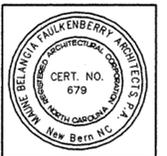
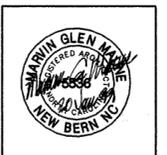


CRAVEN COUNTY CONVENTION CENTER  
NEW BERN, NORTH CAROLINA  
SOUTH FRONT STREET



**KEY PLAN**  
NTS

**CRAVEN COUNTY CONVENTION CENTER**  
NEW BERN, NORTH CAROLINA  
SOUTH FRONT STREET



**GROUND FLOOR PLAN - DIMENSIONS**  
A1.00 FINISH FLOOR ELEVATION = 11'-0"  
1/8" = 1'-0"

**NOTES:**

1. DIMENSIONS SHOWN THIS WAY ARE TO FACE OF STUD, FRAMING MEMBER, OR MASONRY, ETC.
2. DIMENSIONS SHOWN THIS WAY ARE TO CENTER LINE OF OPENING, BEAM, OR MEMBER, ETC.
3. INDICATES LOCATION OF FIXED CORNER PROTECTION-SEE SPECIFICATIONS
4. FE= FIRE EXTINGUISHER AND RECESSED CABINET  
FE= FIRE EXTINGUISHER AND BRACKET
5. TYPICAL MASONRY INTERIOR PARTITIONS IS 6" CHU U.N.O.
6. TYPICAL METAL STUD PARTITION IS 5" METAL STUDS 16" O.C. WITH 1/2" GYPSUM BOARD BOTH FACES, WITH SOUND ATTENUATION BLANKET IN CAVITY.

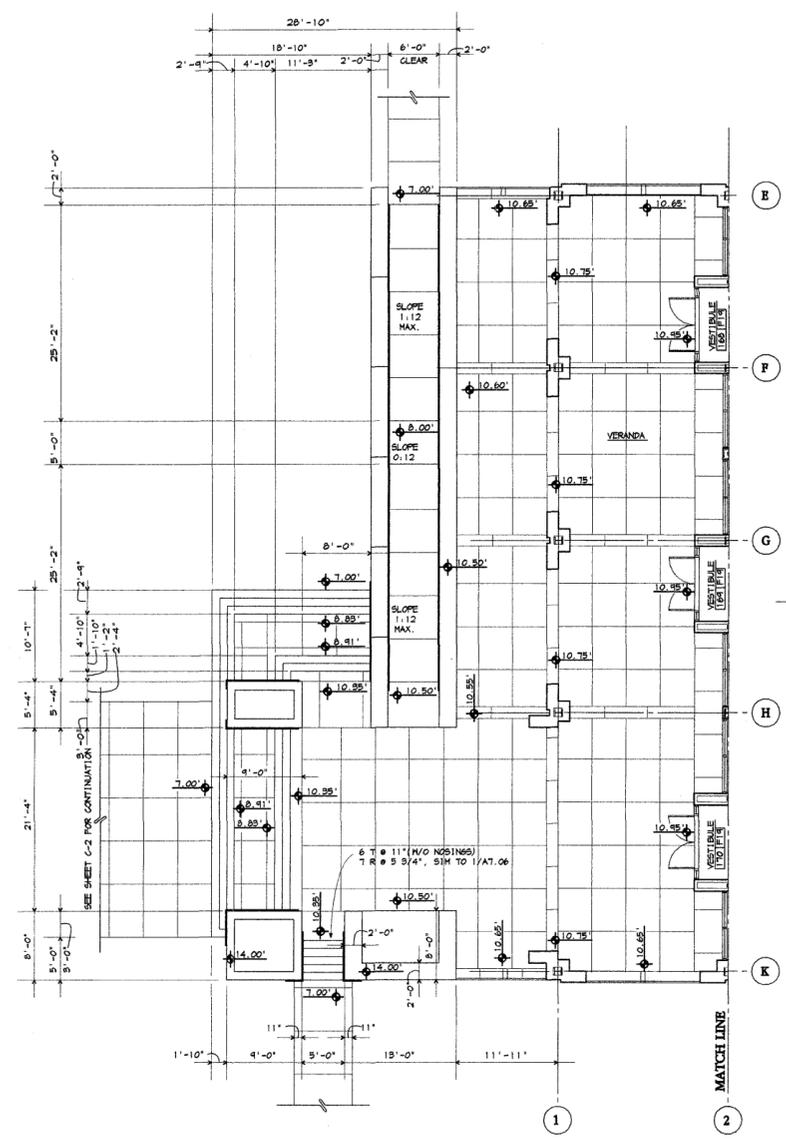
**MAUNE BELANGIA FAULKENBERRY ARCHITECTS PA**  
244 1/2 MIDDLE STREET NEW BERN, NORTH CAROLINA 28560  
TELEPHONE 252 637 8373 FACSIMILE 252 637 3259

**Hellmuth, Obata & Kassabaum, Inc.**  
1800 KEE ST. NEW YORK, N.Y. 10016  
TELEPHONE 212 774 2714 FACSIMILE 212 774 2715

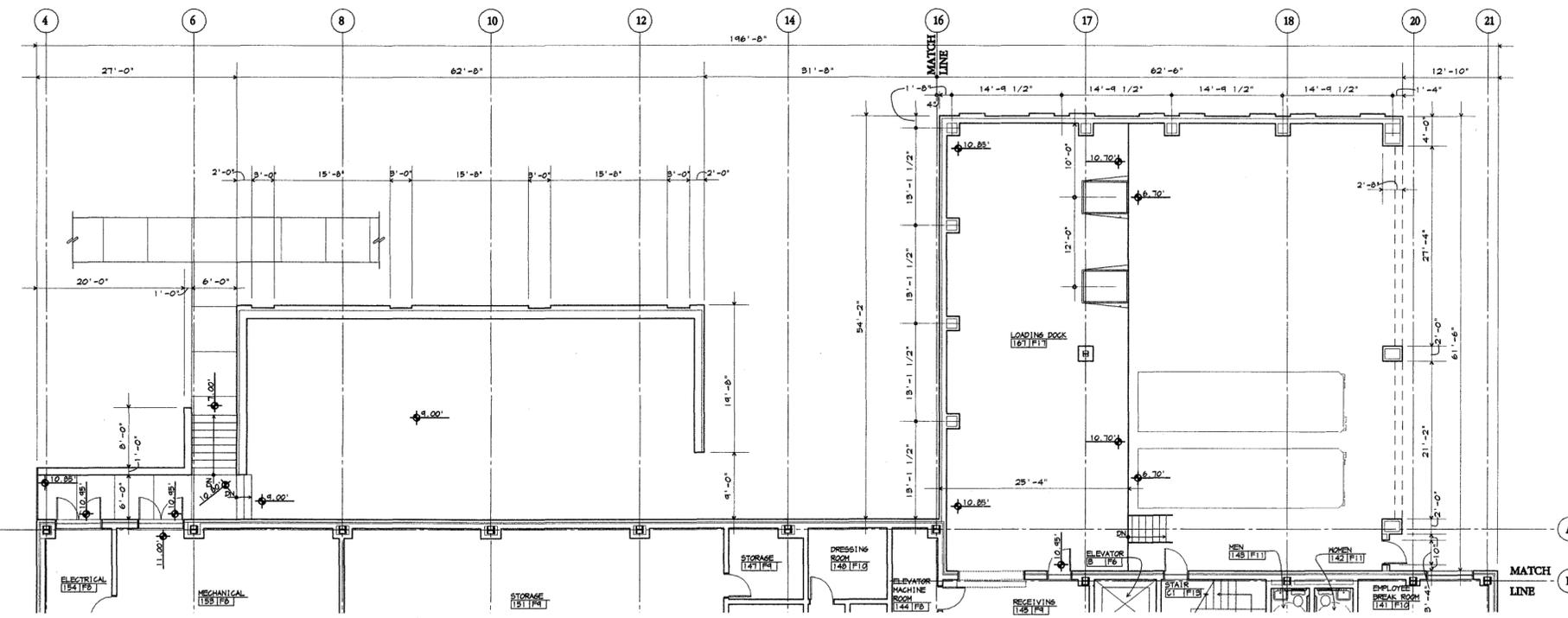
MBFA: P170  
DATE: 20 JANUARY 1999  
GROUND FLOOR PLAN - DIMENSIONS

**A1.00** of 425

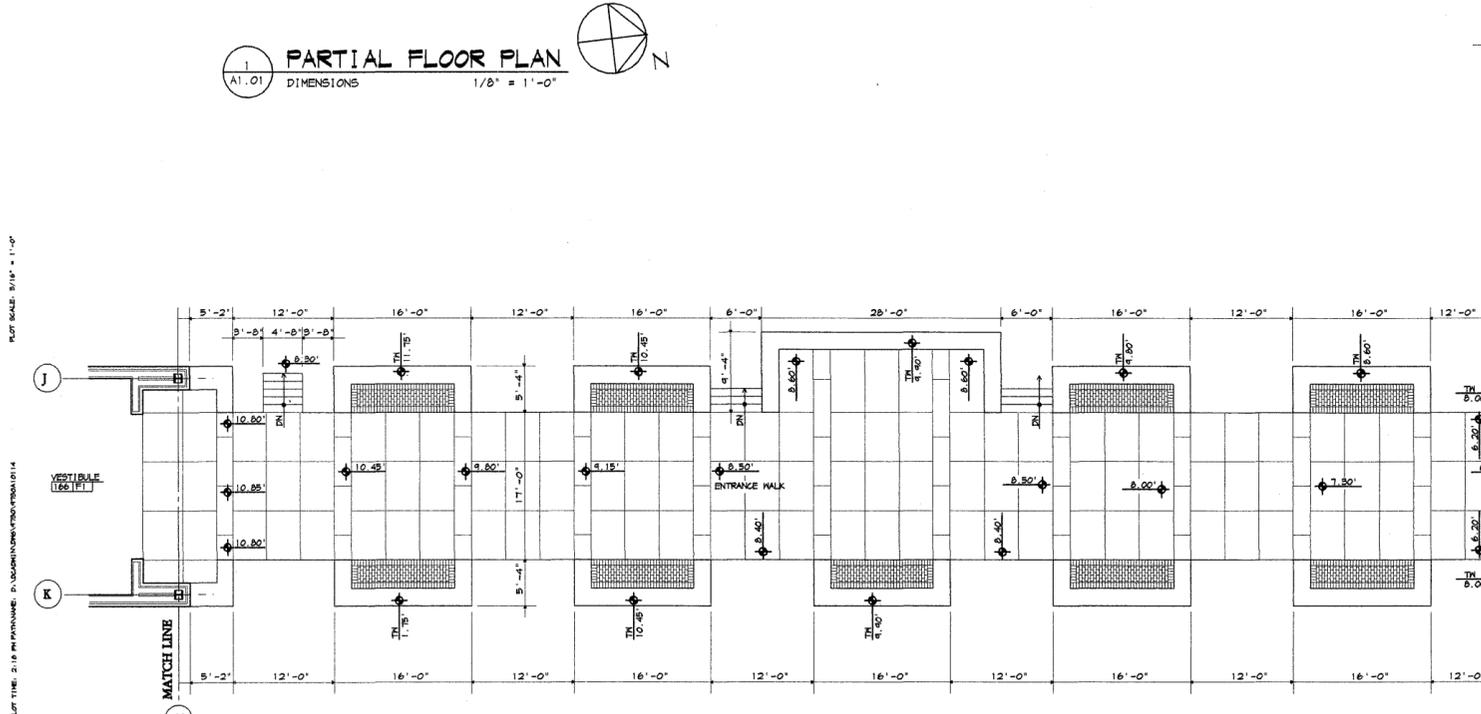
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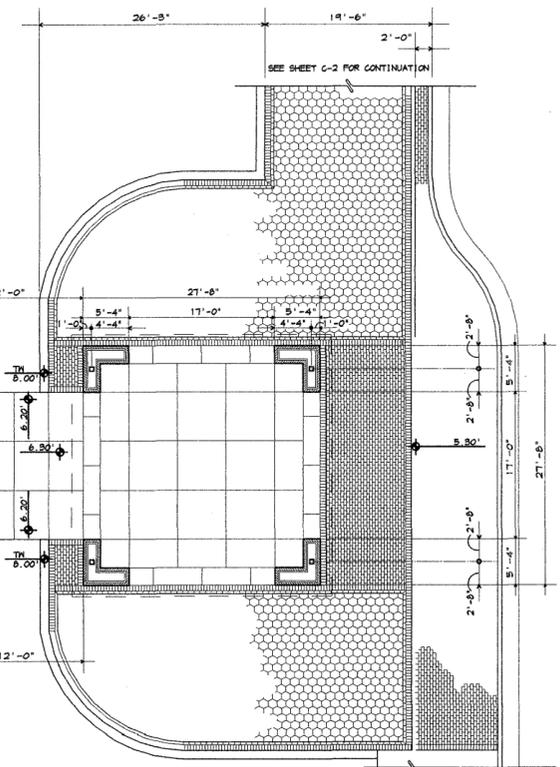
1 PARTIAL FLOOR PLAN  
A1.01 DIMENSIONS 1/8" = 1'-0"



2 PARTIAL FLOOR PLAN  
A1.01 DIMENSIONS 1/8" = 1'-0"



3 PARTIAL FLOOR PLAN  
A1.01 DIMENSIONS 1/8" = 1'-0"



KEY PLAN  
NTS

CRAVEN COUNTY CONVENTION CENTER  
NEW BERN, NORTH CAROLINA  
SOUTH FRONT STREET



MAUNE BELANGIA FAULKENBERRY ARCHITECTS PA  
244 1/2 MIDDLE STREET NEW BERN, NORTH CAROLINA 28560  
TELEPHONE 252 637 8373 FACSIMILE 252 637 3259

MBFA 1979  
DATE: 20 JANUARY 1991  
PARTIAL FLOOR PLANS - DIMENSIONS

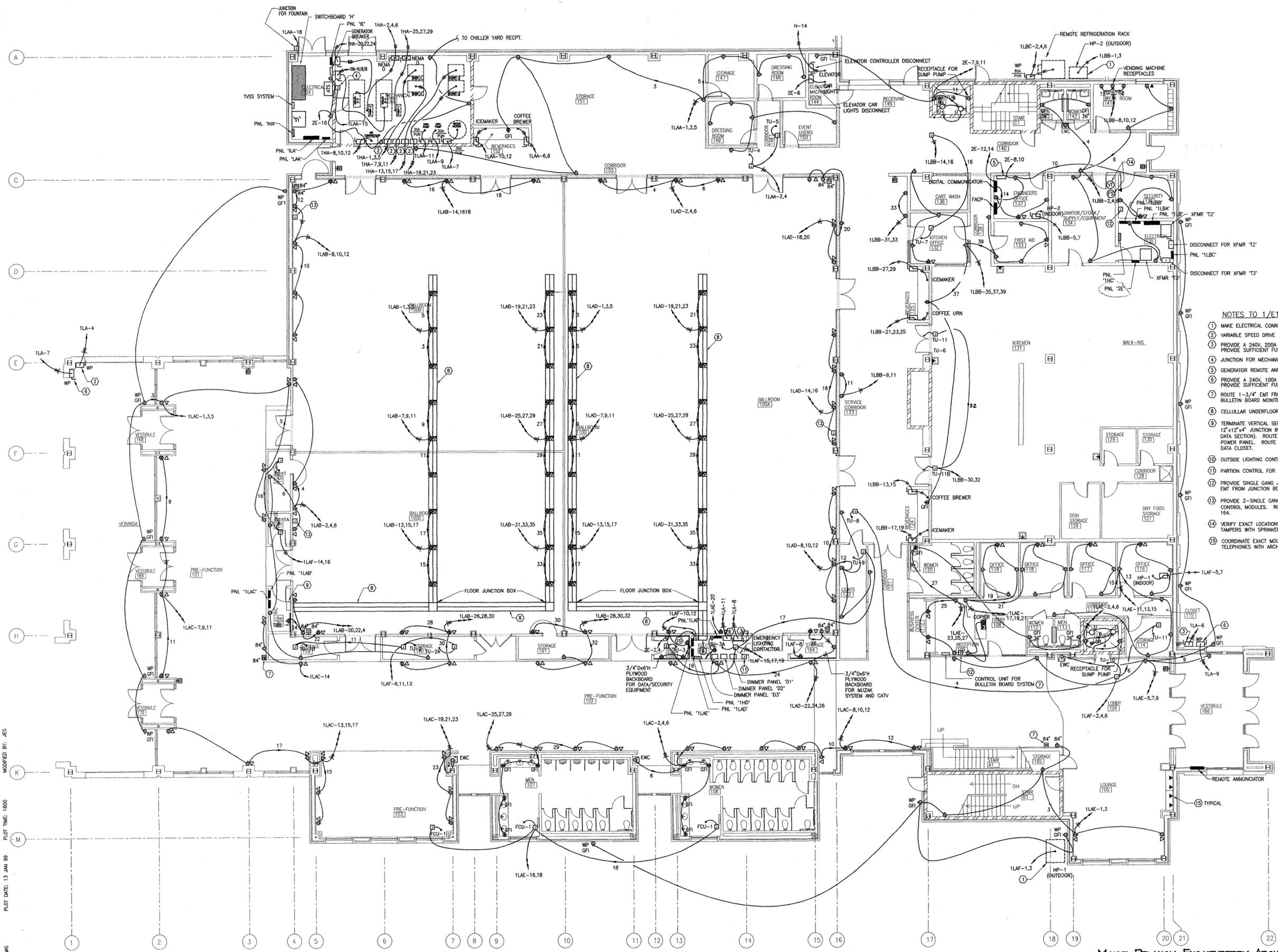
Hellmuth, Obata & Kassabaum, Inc.  
1150 N.E. 85th Street, Suite 126, Redmond, Washington 98052  
TELEPHONE 206 702 0714 FACSIMILE 206 856 9837



A1.01 18-1125

DATE: 12/22/87 TIME: 2:10 PM DRAWING: D:\DRAWING\NEW\CONVENTION\01.14  
PLT SCALE: 3/16" = 1'-0"  
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**NOTES TO 1/E100**

- ① MAKE ELECTRICAL CONNECTION TO DISCONNECT PROVIDED WITH UNIT.
- ② VARIABLE SPEED DRIVE BY MECH. CONTRACTOR.
- ③ PROVIDE A 240V, 200A RATED FUSED DISCONNECT FOR VISITOR POWER. PROVIDE SUFFICIENT FUSES TO FUSE DISCONNECT AT 200A, 100A AND 50A.
- ④ JUNCTION FOR MECHANICAL CONTROLS.
- ⑤ GENERATOR REMOTE ANNUNCIATOR PANEL.
- ⑥ PROVIDE A 240V, 100A RATED FUSED DISCONNECT FOR VISITOR POWER. PROVIDE SUFFICIENT FUSES TO FUSE DISCONNECT AT 100A AND 50A.
- ⑦ ROUTE 1-3/4" EMT FROM BULLETIN BOARD CONTROL UNIT TO EACH BULLETIN BOARD MONITOR.
- ⑧ CELLULAR UNDERFLOOR RACEWAY, SEE SPECIFICATIONS.
- ⑨ TERMINATE VERTICAL SECTIONS OF UNDERFLOOR RACEWAY INTO (3)-12"x12"x4" JUNCTION BOXES, ("ONE" FOR POWER SECTION, "ONE" FOR EACH DATA SECTION). ROUTE POWER WIRING IN CONDUIT SIZED PER NEC TO POWER PANEL. ROUTE 1-2" EMT FROM EACH DATA JUNCTIONBOX TO LOCAL DATA CLOSET.
- ⑩ OUTSIDE LIGHTING CONTROL.
- ⑪ PARTION CONTROL FOR DIMMING SYSTEM.
- ⑫ PROVIDE SINGLE GANG JUNCTION BOX FOR SECURITY MONITOR. RUN 1-3/4" EMT FROM JUNCTION BOX TO SECURITY PANEL IN DATA 162.
- ⑬ PROVIDE 2-SINGLE GANG JUNCTION BOXES AT 48" AFF ADJACENT TO DIMMER CONTROL MODULES. ROUTE 1-3/4" FROM EACH BOX TO MUZZAK SYSTEM IN 164.
- ⑭ VERIFY EXACT LOCATIONS AND NUMBER OF FLOW SWITCHES AND VALVE TAMPERS WITH SPRINKLER CONTRACTOR.
- ⑮ COORDINATE EXACT MOUNTING HEIGHT OF TELEPHONE OUTLETS FOR PUBLIC TELEPHONES WITH ARCHITECT.

**LIFE SAFETY KEY**

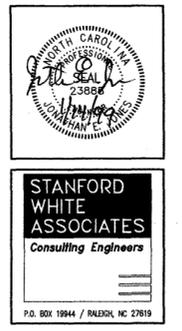
- 2-HOUR FIRE RATED WALL
- 1-HOUR FIRE RATED WALL

**1 FIRST FLOOR POWER PLAN**  
 E100 SCALE: 1/8" = 1'-0"

DRAWING PATH: H:\L\A\LE100.DWG  
 PLOT DATE: 13 JAN 99  
 PLOT TIME: 1600  
 MODIFIED BY: JEC

**MAINE BELANGIA FALKENBERG ARCHITECTS PA**  
 244 1/2 MIDDLE STREET NEW BERN, NORTH CAROLINA 28560  
 TELEPHONE 252 637 6373 FACSIMILE 252 637 9259

**Hellmuth, Obata & Kassabaum, Inc.**  
 1850 NE 25th Street, Suite 120, Redmond, Washington 98052  
 TELEPHONE 206 702 0714 FACSIMILE 206 556 9857

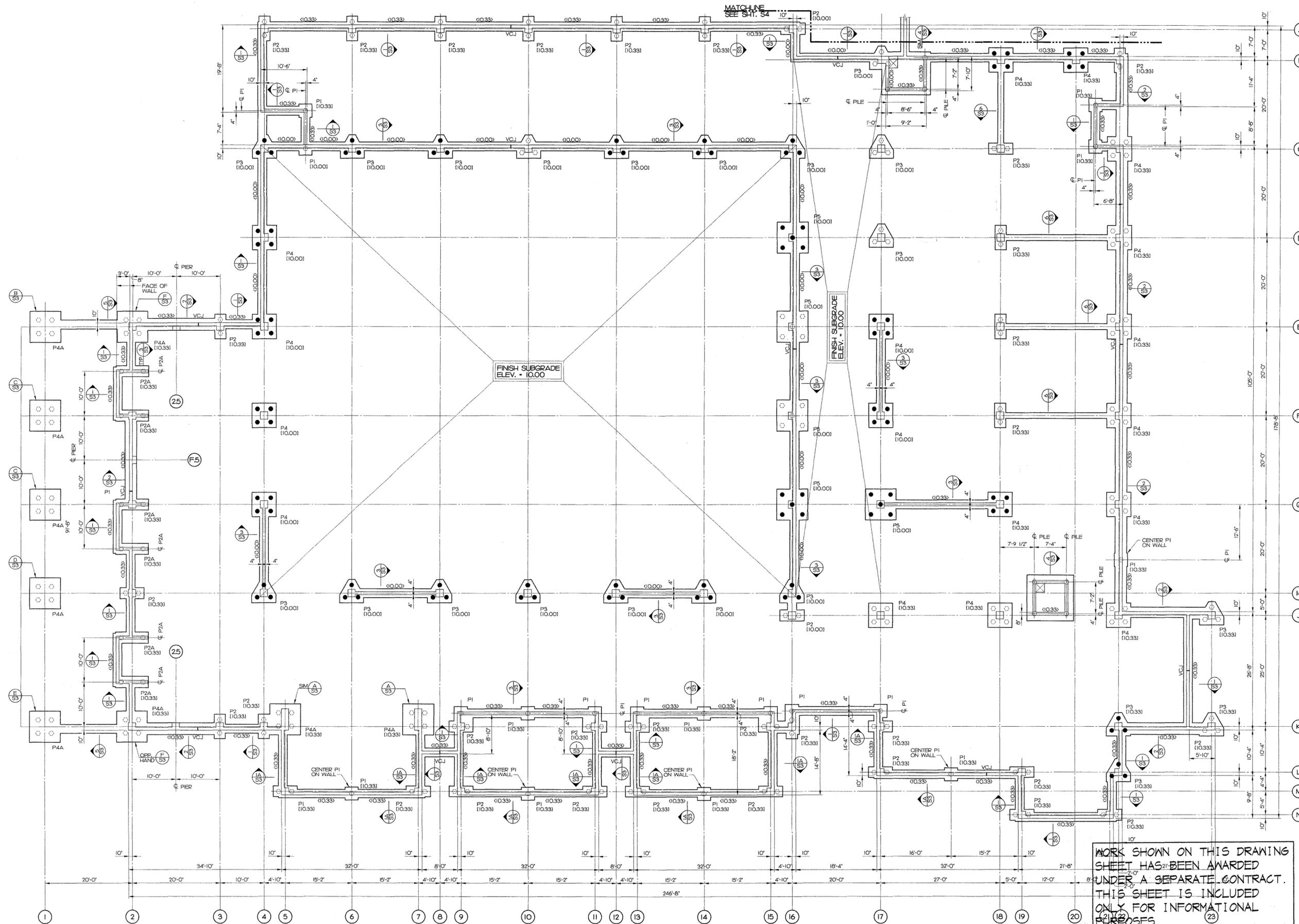


**STANFORD WHITE ASSOCIATES**  
 Consulting Engineers  
 P.O. BOX 19944 / RALEIGH, NC 27619

MEFA: 9130  
 DATE: 01/14/99  
 FIRST FLOOR  
 POWER PLAN  
**E100**  
 114 OF 125



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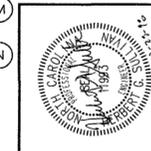
FOUNDATION PLAN  
SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. FINISH SUBGRADE ELEVATION WITHIN THE BUILDING SHALL BE 10.33 (UNLESS NOTED OTHERWISE) - FILL SHALL BE PLACED IN SHALLOW LIFTS AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.
2. P. ON PLAN INDICATES CONCRETE PILE CAP. SEE TYPICAL DETAIL ON SHEET S1.
3. TOP OF PILE CAP AND GRADE BEAM ELEVATION SHALL BE 6.00 (UNLESS NOTED OTHERWISE).
4. MARKS SHOWN THUS [ ] INDICATE TOP OF COLUMN PIER ELEVATION.
5. MARKS SHOWN THUS [ ] INDICATE TOP OF CONCRETE WALL ELEVATION.
6. PILES SHOWN THUS [ ] INDICATE UPlift PILES - SEE TYPICAL DETAIL ON SHEET S1.
7. VCJ ON PLAN INDICATES VERTICAL CONTROL JOINTS IN CONCRETE WALL. SEE TYPICAL DETAIL ON SHEET S1.
8. SEE COLUMN SCHEDULE AND BASE PLATE DETAIL ON SHEET S1 FOR ANCHOR BOLT SIZE AND PLACEMENT.
9. SEE TYPICAL DETAILS ON SHEET S1.
10. SEE GENERAL NOTES ON SHEET S1.

WORK SHOWN ON THIS DRAWING SHEET HAS BEEN AWARDED UNDER A SEPARATE CONTRACT. THIS SHEET IS INCLUDED ONLY FOR INFORMATIONAL PURPOSES.

PILING FOUNDATION AND EARTHWORK CONTRACT  
**CRAVEN COUNTY CONVENTION CENTER**  
NEW BERN, NORTH CAROLINA  
SOUTH FRONT STREET



MORRISON-SULLIVAN  
ENGINEERS  
1100 N. W. 10th St.  
Ft. Lauderdale, FL 33304  
TEL: 305-555-5555 FAX: 305-555-5556

MAUNE BELANGIA FAULKENBERRY ARCHITECTS PA  
244 1/2 MIDDLE STREET NEW BERN, NORTH CAROLINA 28560  
TELEPHONE 252 637 6373 FACSIMILE 252 637 3259

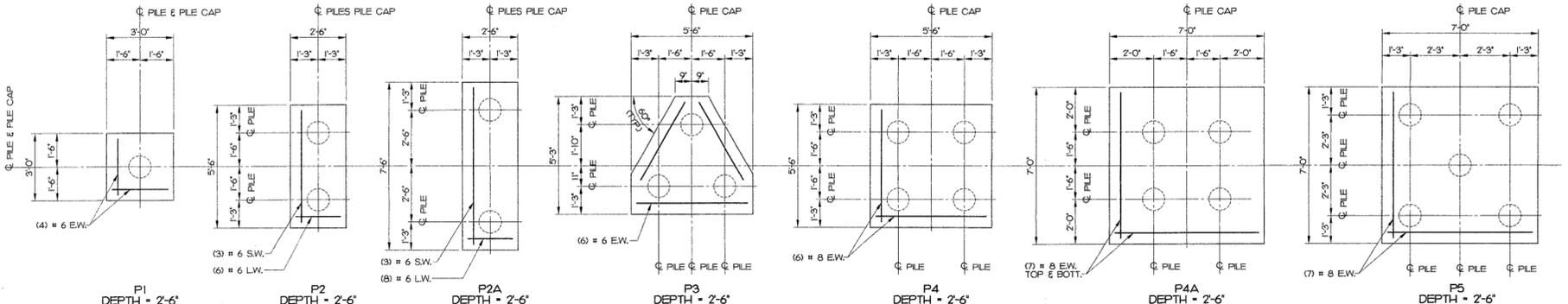
Hellmuth, Obata & Kassabaum, Inc.  
18150 N.E. 83rd Street, Suite 176, Redmond, Washington 98052  
TELEPHONE 206 720 0714 FACSIMILE 206 556 5837



MEFA 9730  
DATE: DECEMBER 30, 1998  
FOUNDATION PLAN

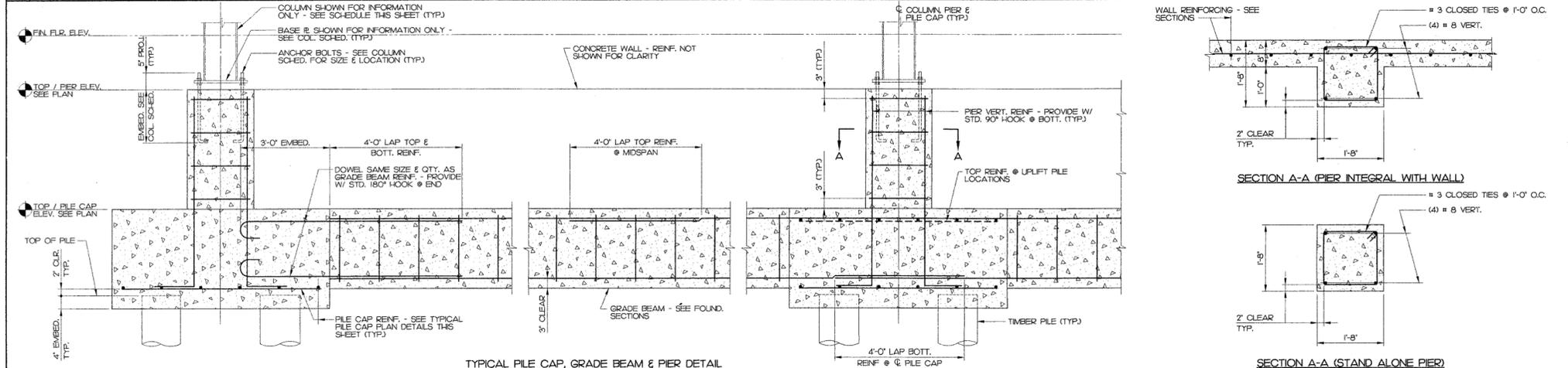
**GENERAL NOTES**

- DESIGN:
  - BUILDING CODE - NORTH CAROLINA STATE BUILDING CODE - LATEST EDITION.
  - DESIGN LIVE LOADS
    - ROOF 20 PSF
    - MECHANICAL ROOMS 150 PSF
    - BALLROOM (SLAB ON GRADE) 300 PSF
    - OFFICE 50 PSF
    - LOBBY & CORRIDORS 80 PSF
  - DESIGN SUPERIMPOSED DEAD LOADS
    - ROOFING AND INSULATION 10 PSF
    - CEILING 2 PSF
    - MISCELLANEOUS 10 PSF
  - WIND
    - BASIC WIND SPEED 100 MPH
    - WIND HAZARD EXPOSURE CATEGORY D
    - IMPORTANCE FACTOR (I.W.O.) 1.05
    - IMPORTANCE FACTOR (BALLROOM ROOF) 1.11
  - SEISMIC
    - ACCELERATION COEFFICIENT  $A_v = 0.050$
    - PERFORMANCE CATEGORY A
- WOOD PILES
  - FOUNDATION DESIGN BASED ON A GEOTECHNICAL REPORT PREPARED BY S&ME, INC. DATED JULY 31, 1998.
  - PILES SHALL HAVE AN ALLOWABLE LOAD CAPACITY OF 25 TONS.
  - THE DIAMETER OF THE PILE BUTTS SHALL NOT BE LESS THAN 12". THE DIAMETER OF PILE TIPS SHALL BE NO LESS THAN 9".
  - PILES MAY BE PRE-DRIVEN TO OBTAIN A MINIMUM PENETRATION OF 20 FEET. THE PILES WILL BE DRIVEN BY A HAMMER THAT DEVELOPS AT LEAST 15,000 FT-LBS.
  - PILES SHALL BE DRIVEN PLUMB - SEE SPECIFICATIONS FOR TOLERANCES.
  - DAMAGED OR BROKEN PILES SHALL BE PULLED AND REPLACED.
  - CONTRACTOR SHALL MAINTAIN A PILE DRIVING RECORD.
- CONCRETE:
  - CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A DENSITY OF 145 PCF, UNLESS NOTED OTHERWISE.
  - REINFORCING SHALL CONFORM TO ASTM A615, GR60, INCLUDING TIES AND STIRRUPS.
  - MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
    - A. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 IN.
    - B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 2 IN.
  - REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES, WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
- MISCELLANEOUS
  - NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
  - ALL RETAINING WALLS SHALL BE BRACED DURING THE BACK FILLING OPERATION AND UNTIL THE WALL HAS REACHED ITS DESIGN STRENGTH, WHERE THE SLAB ON GRADE TIES TO THE TOP OF THE WALL, BRACES SHALL REMAIN IN PLACE UNTIL 7 DAYS AFTER THE SLAB HAS BEEN PLACED.
  - ANCHOR BOLTS SHALL CONFORM TO ASTM A36.
  - DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.



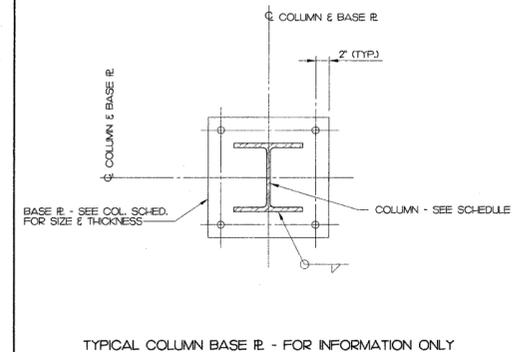
NOTE: PROVIDE REINFORCING SHOWN @ TOP & BOTTOM @ UPLIFT PILES - SEE FOUNDATION PLAN FOR LOCATION

TYPICAL PILE CAP PLAN DETAILS



TYPICAL PILE CAP, GRADE BEAM & PIER DETAIL

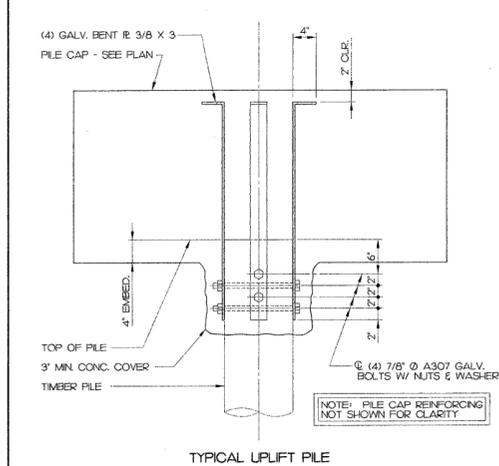
SECTION A-A (STAND ALONE PIER)



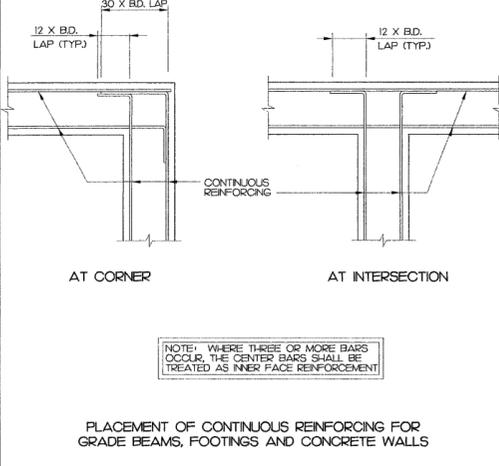
TYPICAL COLUMN BASE RE - FOR INFORMATION ONLY

COLUMN SCHEDULE				
COLUMN LOCATION	SIZE	BASE RE	ANCHOR BOLTS SIZE	EMBED.
A-4, A-6, A-8, A-12, A-14, A-16, M-5, M-7, M-9, M-11, M-13, M-15	W8 X 24	3/4 X 15 X 1'-3"	(4) 3/4" #	1'-0"
B-17, B-22, C-17, C-18, C-22, D-17, D-18, D-22, E-18, E-22, F-18, F-22, G-22, J-23, K-5, K-7, K-9, K-11, K-13, K-15, K-16, K-17, L-23, L-17, L-19, N-19, N-21, J-18, F-2, G-2, E-1, F-1, G-1, H-1, K-1	W8 X 31	3/4 X 15 X 1'-3"	(4) 3/4" #	1'-0"
B-18, B-20, E-17, F-17, G-17, G-18, K-22, L-22	W8 X 48	1 X 15 X 1'-3"	(4) 1" #	1'-6"
J-17, J-18, J-22	W8 X 58	1 X 15 X 1'-3"	(4) 1" #	1'-6"
C-4, C-6, C-8, C-10, C-12, C-14, C-16, H-16, K4	W10 X 49	1 X 17 X 1'-5"	(4) 1" #	1'-6"
D-4, D-16, E-4, E-16, F-4, F-16, G-4, G-16	W10 X 100	1 1/4 X 17 X 1'-5"	(4) 1 1/4" #	2'-0"
H-4, H-6, H-8, H-10, H-12, H-14	W10 X 68	1 X 17 X 1'-5"	(4) 1" #	1'-6"
E-3, H-2, E-2.5, F-5.2, K-2.5	W12 X 53	1 X 19 X 1'-7"	(4) 1" #	1'-6"

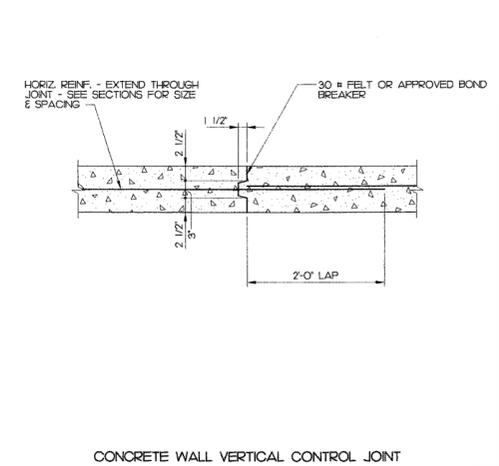
REMARKS  
 1. COLUMN AND BASE RE SIZES FOR INFORMATION ONLY.  
 2. SEE TYPICAL BASE RE DETAIL THIS SHEET FOR ANCHOR BOLT LOCATION.



TYPICAL UPLIFT PILE



PLACEMENT OF CONTINUOUS REINFORCING FOR GRADE BEAMS, FOOTINGS AND CONCRETE WALLS



CONCRETE WALL VERTICAL CONTROL JOINT

WORK SHOWN ON THIS DRAWING SHEET HAS BEEN AWARDED UNDER A SEPARATE CONTRACT. THIS SHEET IS INCLUDED ONLY FOR INFORMATIONAL PURPOSES.

**TYPICAL CONSTRUCTION DETAILS**

NO SCALE

- TYPICAL DETAILS SHOWN ON THIS SHEET APPLY THROUGHOUT THE PROJECT, IN ALL CASES, UNLESS NOTED OTHERWISE.
- TYPICAL DETAILS MAY NOT BE SPECIFICALLY REFERENCED ON FOUNDATION PLANS OR FRAMING PLANS.

MAUNE BELANGIA FAULKENBERRY ARCHITECTS PA  
 244 1/2 MIDDLE STREET NEW BERN, NORTH CAROLINA 28560  
 TELEPHONE 252 637 8373 FACSIMILE 252 637 3259

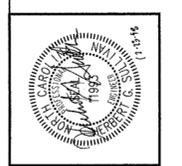
Hellmuth, Obata & Kassabaum, Inc.  
 1010 N.E. 69th Street, Suite 120, Northwood, Washington 98062  
 TELEPHONE 206 702 0774 FACSIMILE 206 556 9837



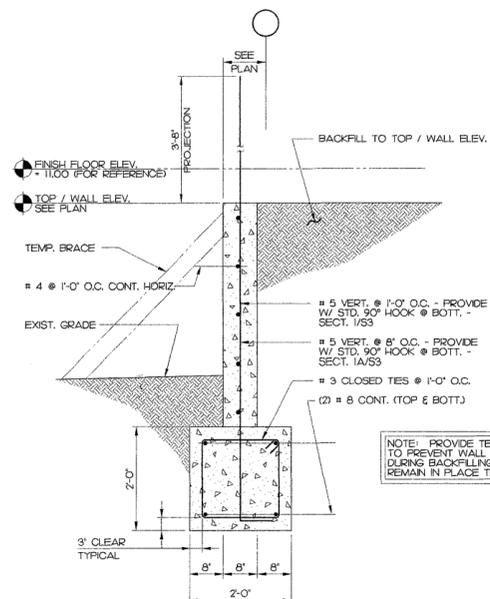
MBFA 9730  
 DATE: DECEMBER 30, 1998  
 TYPICAL DETAILS & GENERAL NOTES

S1 4 OF 125

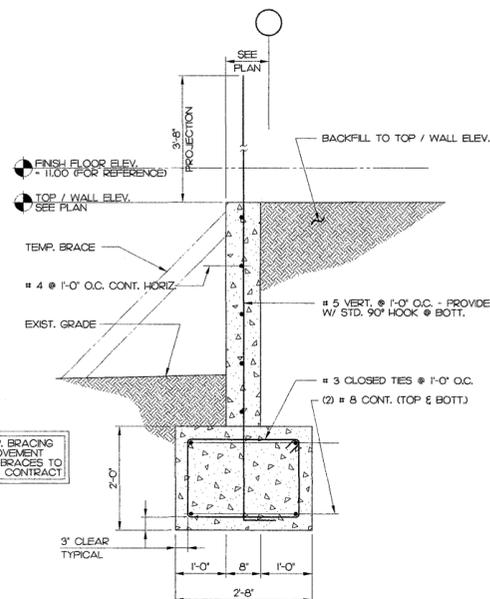
PILING FOUNDATION AND EARTHWORK CONTRACT  
**CRAVEN COUNTY CONVENTION CENTER**  
 NEW BERN, NORTH CAROLINA  
 SOUTH FRONT STREET



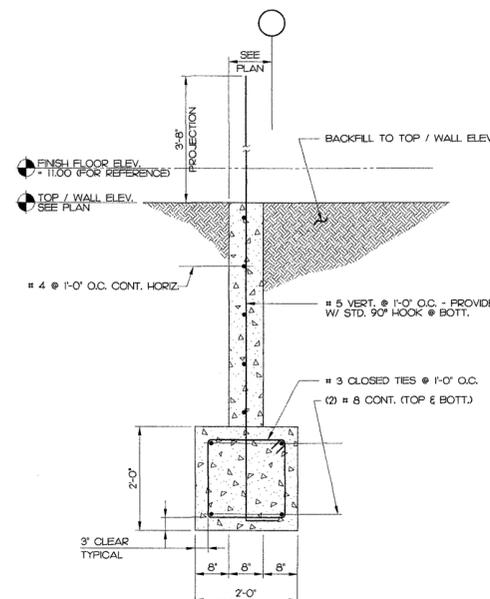
MORRISON SULLIVAN  
 ENGINEER  
 1010 N.E. 69th Street, Suite 120, Northwood, Washington 98062  
 TELEPHONE 206 702 0774 FACSIMILE 206 556 9837



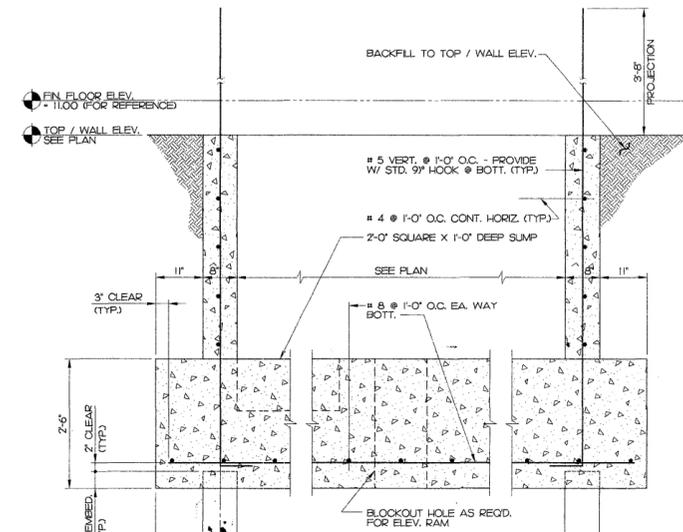
SECTION 1A  
S3 3/4" - 1'-0"



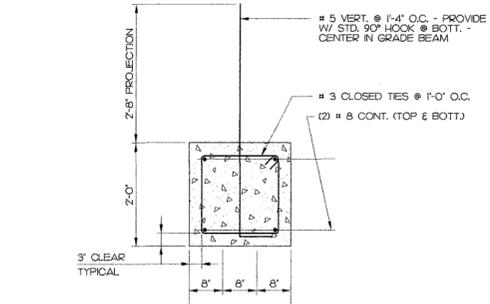
SECTION 2  
S3 3/4" - 1'-0"



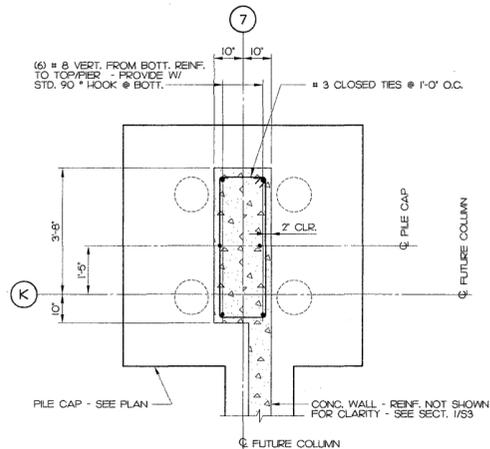
SECTION 3  
S3 3/4" - 1'-0"



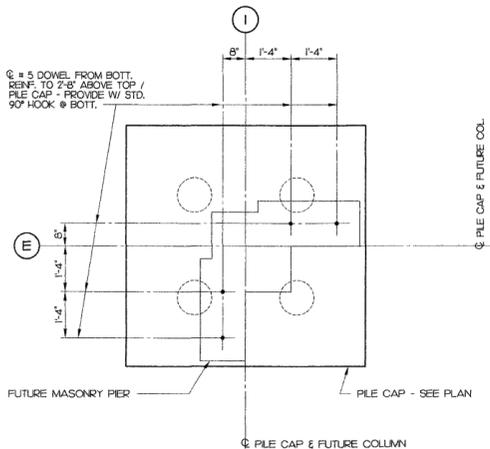
SECTION 4  
S3 3/4" - 1'-0"



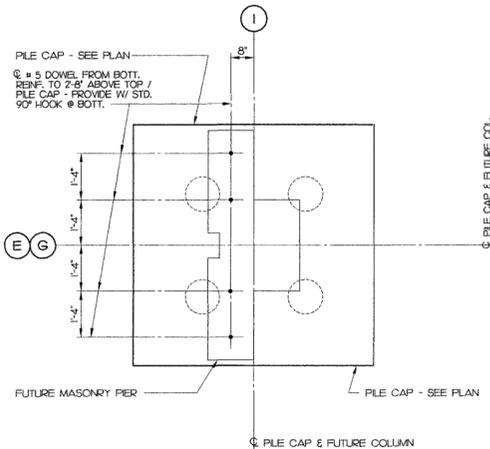
SECTION 5  
S3 3/4" - 1'-0"



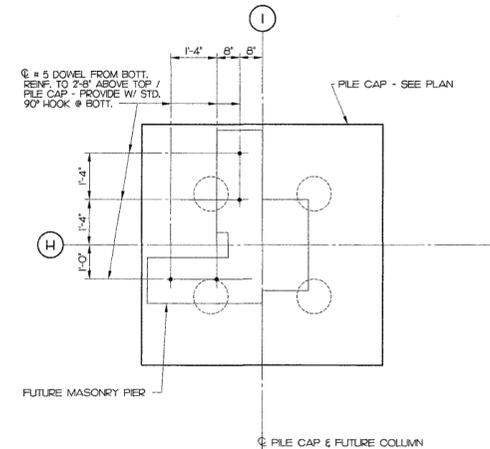
DETAIL 7  
S3 1/2" - 1'-0"



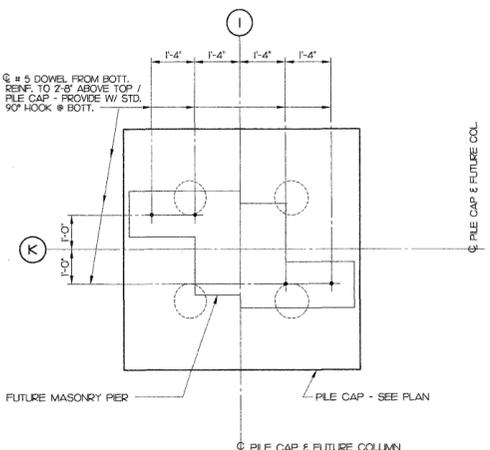
DETAIL 8  
S3 1/2" - 1'-0"



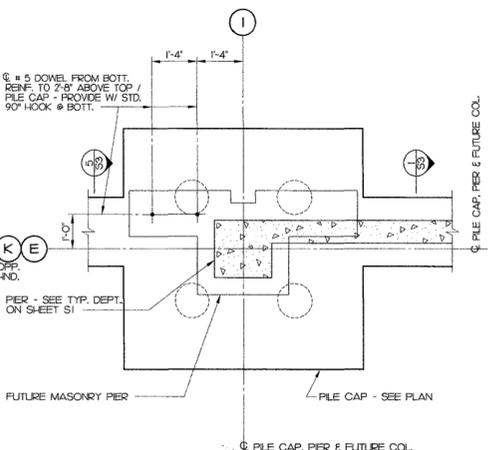
DETAIL 9  
S3 1/2" - 1'-0"



DETAIL 10  
S3 1/2" - 1'-0"



DETAIL 11  
S3 1/2" - 1'-0"



DETAIL 12  
S3 1/2" - 1'-0"

NOTE: SEE TYPICAL DETAILS FOR ANCHOR BOLTS SIZE & CONFIGURATION

NOTE: SEE TYPICAL DETAILS FOR ANCHOR BOLTS SIZE & CONFIGURATION

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NOTE: SEE TYPICAL DETAILS FOR ANCHOR BOLTS SIZE & CONFIGURATION

PILE FOUNDATION AND EARTHWORK CONTRACT  
**CRAVEN COUNTY CONVENTION CENTER**  
 SOUTH FRONT STREET  
 NEW BERN, NORTH CAROLINA

WORK SHOWN ON THIS DRAWING SHEET HAS BEEN AWARDED UNDER A SEPARATE CONTRACT. THIS SHEET IS INCLUDED ONLY FOR INFORMATIONAL PURPOSES.



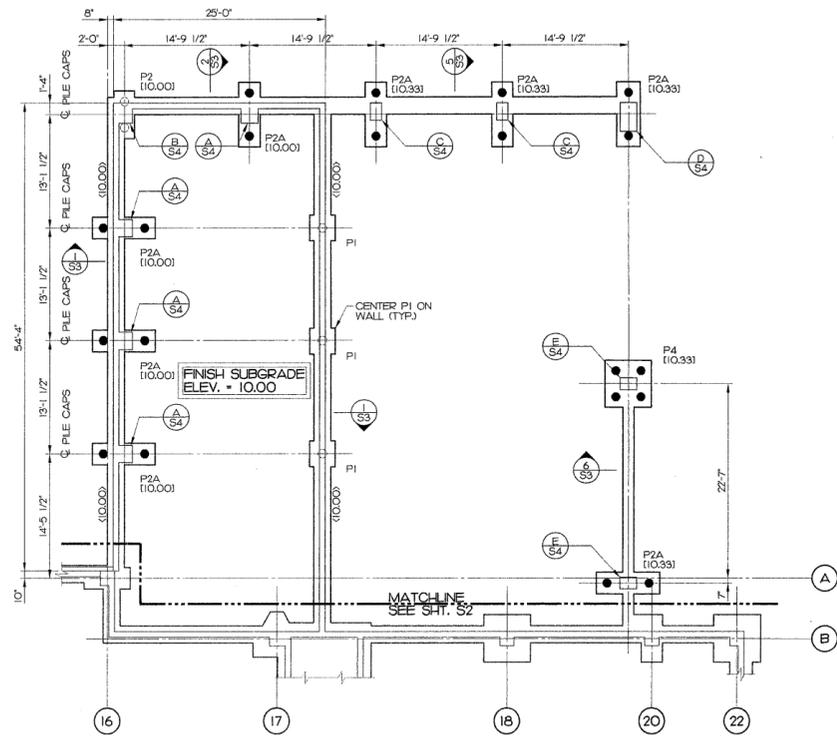
MORRISON SULLIVAN  
 ENGINEERS  
 100 BERNARD ROAD  
 NEW BERN, NORTH CAROLINA 28560  
 PHONE: 252-637-8333 FAX: 252-637-2259

MAUNE BELANGIA FAULKENBERRY ARCHITECTS PA  
 244 1/2 MIDDLE STREET NEW BERN, NORTH CAROLINA 28560  
 TELEPHONE 252-637-8333 FACSIMILE 252-637-2259

Hellmuth, Obata & Kassabaum, Inc.  
 16150 K.E. ROSS STREET, SUITE 100, WOODBRIDGE, VIRGINIA 22191  
 TELEPHONE 703-702-0714 FACSIMILE 703-556-9837

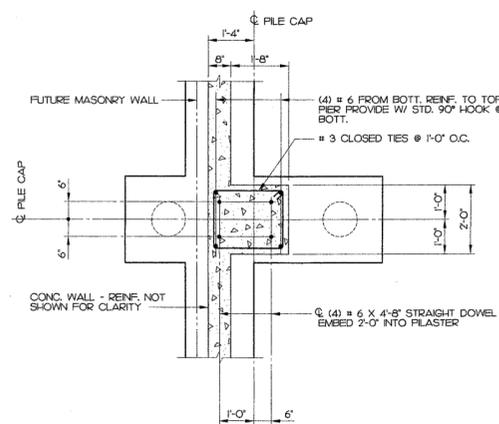


MEFA: 9730  
 DATE: DECEMBER 30, 1998  
 SECTIONS & DETAILS

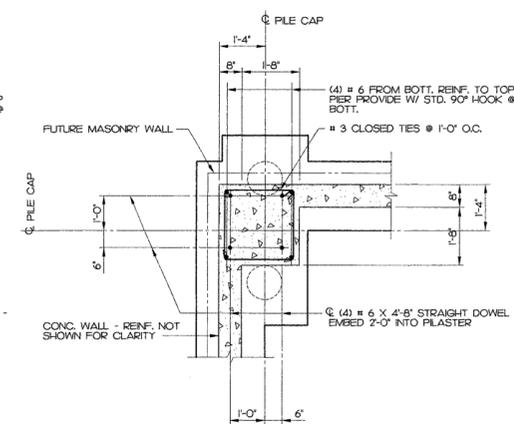


**FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"

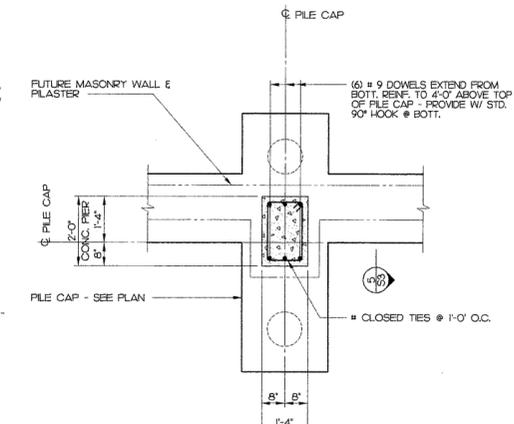
NOTE: SEE SHEET S2 FOR FOUNDATION PLAN NOTES



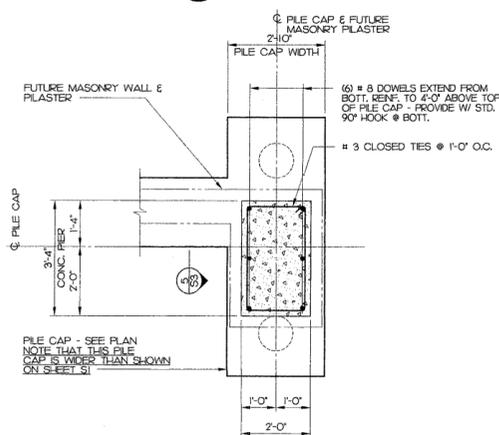
**A** DETAIL  
S4 1/2" = 1'-0"



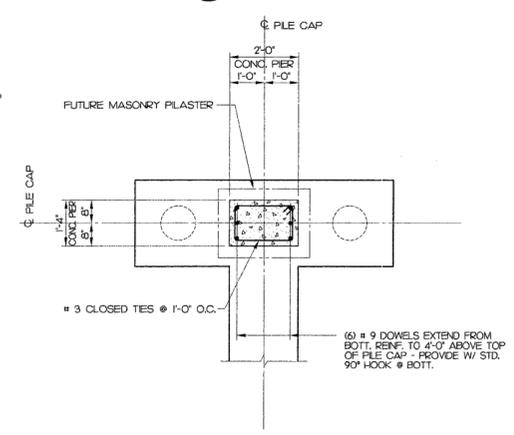
**B** DETAIL  
S4 1/2" = 1'-0"



**C** DETAIL  
S4 1/2" = 1'-0"



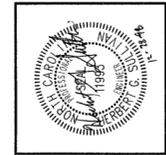
**D** DETAIL  
S4 1/2" = 1'-0"



**E** DETAIL  
S4 1/2" = 1'-0"

WORK SHOWN ON THIS DRAWING SHEET HAS BEEN AWARDED UNDER A SEPARATE CONTRACT. THIS SHEET IS INCLUDED ONLY FOR INFORMATIONAL PURPOSES.

PILE FOUNDATION AND EARTHWORK CONTRACT  
**CRAVEN COUNTY CONVENTION CENTER**  
NEW BERN, NORTH CAROLINA  
SOUTH FRONT STREET



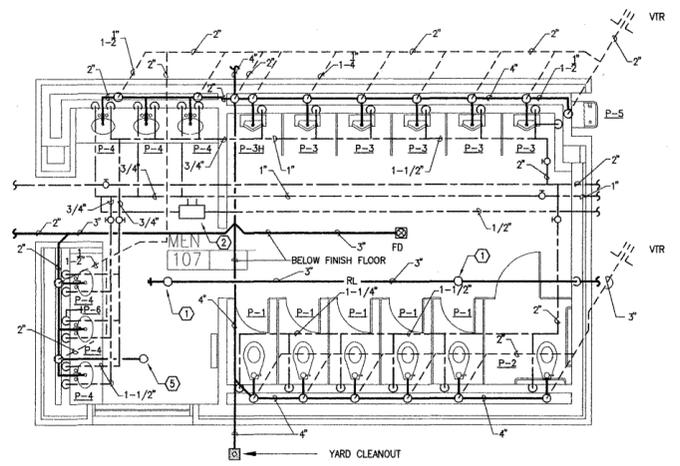
**MORRISON-SULLIVAN**  
ENGINEERS  
1117 W. BROAD ST.  
NEW BERN, NORTH CAROLINA 28562  
PHONE: 252-637-3259

**MAUNE BELANGIA FAULKENBERRY ARCHITECTS PA**  
244 1/2 MIDDLE STREET NEW BERN, NORTH CAROLINA 28560  
TELEPHONE 252-637-6373 FACSIMILE 252-637-3259

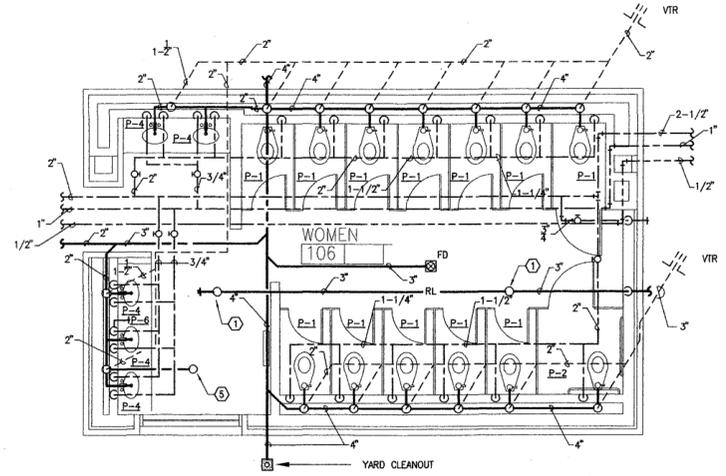
**Hellmuth, Obata & Kassabaum, Inc.**  
64101 N.E. 80th Street, Suite 100, Redmond, Washington 98052  
TELEPHONE 206-702-0714 FACSIMILE 206-556-9837



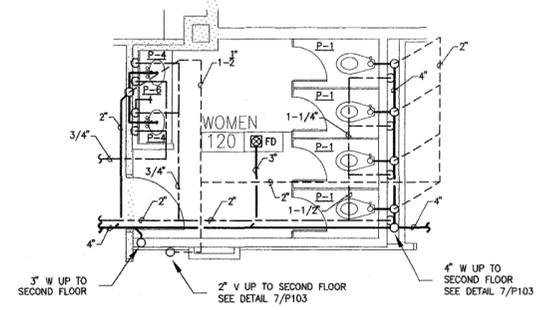
MEFA 9730  
DATE: DECEMBER 30, 1998  
PARTIAL FOUNDATION PLAN  
SECTIONS & DETAILS



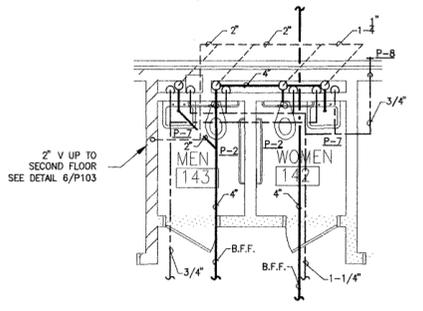
1 MEN'S ROOM FIRST FLOOR  
 P103 SCALE: 1/4" = 1' - 0"



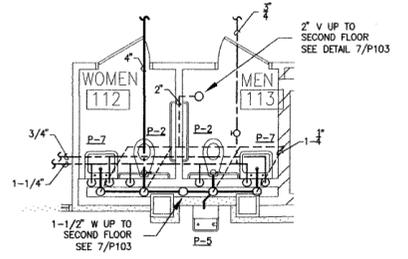
2 WOMEN'S ROOM FIRST FLOOR  
 P103 SCALE: 1/4" = 1' - 0"



3 WOMEN'S ROOM FIRST FLOOR  
 P103 SCALE: 1/4" = 1' - 0"



4 PRIVATE BATHROOMS FIRST FLOOR  
 P103 SCALE: 1/4" = 1' - 0"

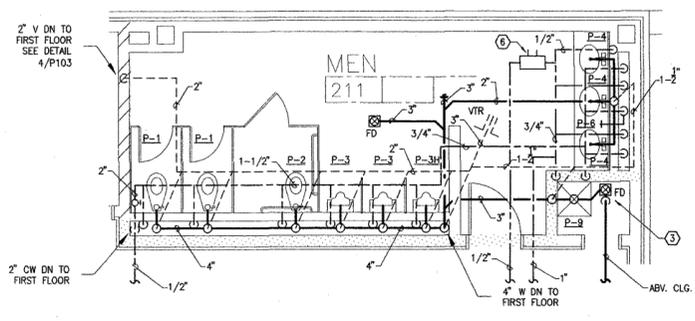
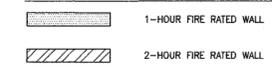


5 PRIVATE BATHROOMS FIRST FLOOR  
 P103 SCALE: 1/4" = 1' - 0"

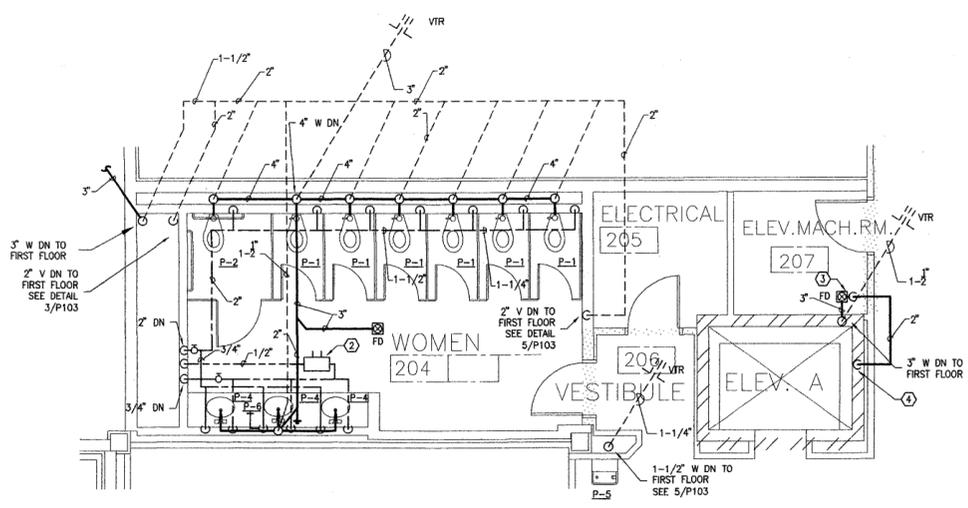
GENERAL NOTES TO P103:  
 1. FLASHING OF VENTS THROUGH ROOF SHALL BE DONE BY THE GENERAL CONTRACTOR.

- NOTES KEYED TO P103:
- ① 2" ROOF DRAIN LEADER UP TO ROOF. CONNECT TO ROOF DRAIN PROVIDED BY G.C.
  - ② MANUALLY CALIBRATED BALANCING VALVE. BALANCE FOR 2 GPM.
  - ③ SUMP PUMP DISCHARGE DOWN TO WITHIN 2' OF FLOOR DRAIN WITH 3/4" GRATE. SUPPORT PIPE FROM WALL WITH STAND-OFF BRACKETS.
  - ④ SUMP PUMP DISCHARGE DOWN TO FIRST FLOOR. SEE DETAIL 1/P100.
  - ⑤ 2" INDIRECT WASTE FOR MECH. EQUIPMENT ABOVE CEILING. SEE DETAIL 5/P200.
  - ⑥ MANUALLY CALIBRATED BALANCING VALVE. BALANCE FOR 1 GPM.

LIFE SAFETY KEY



6 MEN'S ROOM SECOND FLOOR  
 P103 SCALE: 1/4" = 1' - 0"



7 WOMEN'S ROOM SECOND FLOOR  
 P103 SCALE: 1/4" = 1' - 0"

MAINE BELANGIA FAULKENBERRY ARCHITECTS PA  
 244 1/2 MIDDLEBURY STREET NEW BERN, NORTH CAROLINA 28560  
 TELEPHONE 252 697 6375 FACSIMILE 252 697 9254

Hellmuth, Obata & Kassabaum, Inc.  
 1650 N.E. 25th Street, Suite 126, Redmond, Washington 98052  
 TELEPHONE 206 102 0714 FACSIMILE 206 556 4887

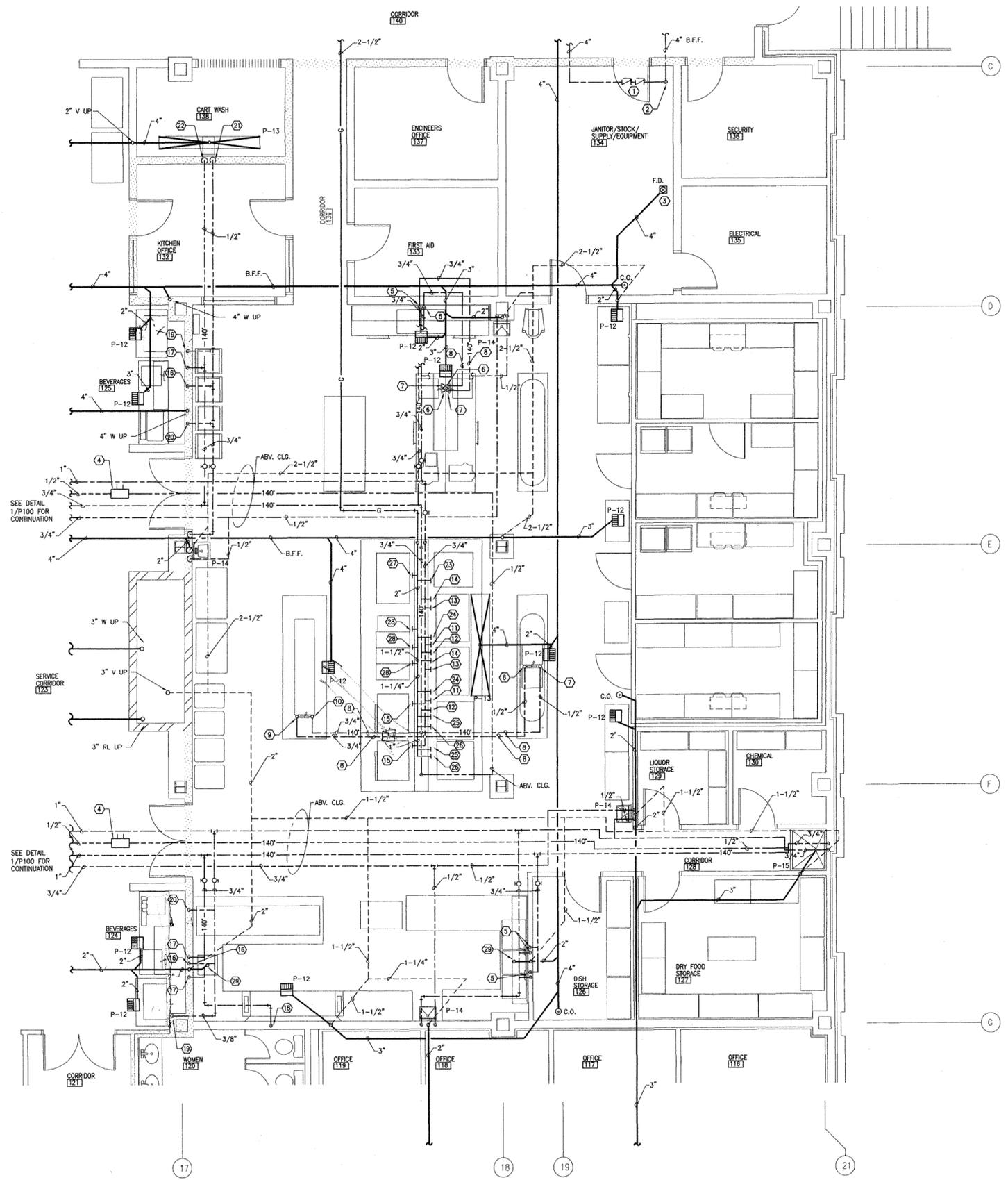


STANFORD WHITE ASSOCIATES  
 Consulting Engineers  
 P.O. BOX 1944 / RALEIGH, NC 27619

MBFA: 4730  
 DATE: 01/14/99  
 ENLARGED  
 TOILET  
 PLANS

P103  
 43 OF 125

DRAWING PATH: H:\A\1\P103.DWG  
 PLOT DATE: 13 JAN 99  
 PLOT TIME: 12:20  
 MODIFIED BY: CMH



- KEYED NOTES TO 1/P104:
- DOUBLE CHECK VALVE BACKFLOW PREVENTER WITH SHUT-OFF VALVES AND STRAINER. MOUNT TO WALL ABOVE DOOR.
  - PROVIDE SHUT-OFF VALVE IN DOMESTIC COLD WATER RISER.
  - COORDINATE EXACT LOCATION OF FLOOR DRAIN WITH FIRE PROTECTION RISER.
  - MANUALLY CALIBRATED BALANCING VALVE. BALANCE FOR 1 GPM FLOW RATE.
  - 3/4" HW, 3/4" CW, STUB OUT OF WALL AT 1'-4" AFF.
  - 1/2" CW, STUB UP 4" AFF.
  - 1/2" HW, STUB UP 4" AFF.
  - HW, CW LINES LOCATED BELOW FINISHED FLOOR.
  - 3/4" CW, STUB UP 4" AFF.
  - 3/4" HW, STUB UP 4" AFF.
  - 3/8" CW, STUB OUT OF WALL 1'-4" AFF.
  - 3/8" HW, STUB OUT OF WALL 1'-4" AFF.
  - 3/8" CW, STUB OUT OF WALL 0'-10" AFF.
  - 3/8" HW, STUB OUT OF WALL 0'-10" AFF.
  - 3/4" CW, STUB OUT OF WALL 1'-4" AFF.
  - 1/2" CW, STUB OUT OF WALL 1'-4" AFF.
  - 1/2" HW, STUB OUT OF WALL 1'-4" AFF.
  - 3/4" HW, STUB OUT OF WALL 4'-8" AFF.
  - 3/8" CW, STUB OUT OF WALL 4'-5" AFF.
  - 3/8" CW, STUB OUT OF WALL 4'-0" AFF.
  - 1/2" CW, STUB OUT OF WALL 3'-0" AFF.
  - 1/2" HW, STUB OUT OF WALL 3'-0" AFF.
  - 3/4" G, STUB OUT OF WALL 2'-5" AFF.
  - 1/2" G, STUB OUT OF WALL 1'-4" AFF.
  - 3/4" G, STUB OUT OF WALL 3'-2" AFF.
  - 3/4" G, STUB OUT OF WALL 0'-8" AFF.
  - 1-1/4" G, STUB OUT OF WALL 1'-6" AFF.
  - 1/2" G, STUB OUT OF WALL 0'-8" AFF.
  - 2" DIRECT WASTE, STUB UP 4" AFF.
- GENERAL NOTES TO 1/P104:
- COORDINATE WITH KITCHEN EQUIPMENT CONTRACTOR FOR FINAL LOCATIONS OF ROUGH-IN CONNECTIONS AND FLOOR SINKS.
  - INSTALL FIRE PROTECTION SYSTEM GAS SHUT-OFF VALVE PROVIDED BY G.C.

1 KITCHEN PLAN  
 P104 SCALE: 1/4" = 1' - 0"



MAINE BELANGIA FALKENBERRY ARCHITECTS P.A.  
 244 1/2 W. D. LEE STREET, NEW BERN, NORTH CAROLINA 28560  
 TELEPHONE 252 637 6573 FACSIMILE 252 637 9254

Hellmuth, Obata & Kassabaum, Inc.  
 16150 N.E. 80th Street, Suite 120, Redmond, Washington 98052  
 TELEPHONE 206 702 0714 FACSIMILE 206 556 4837

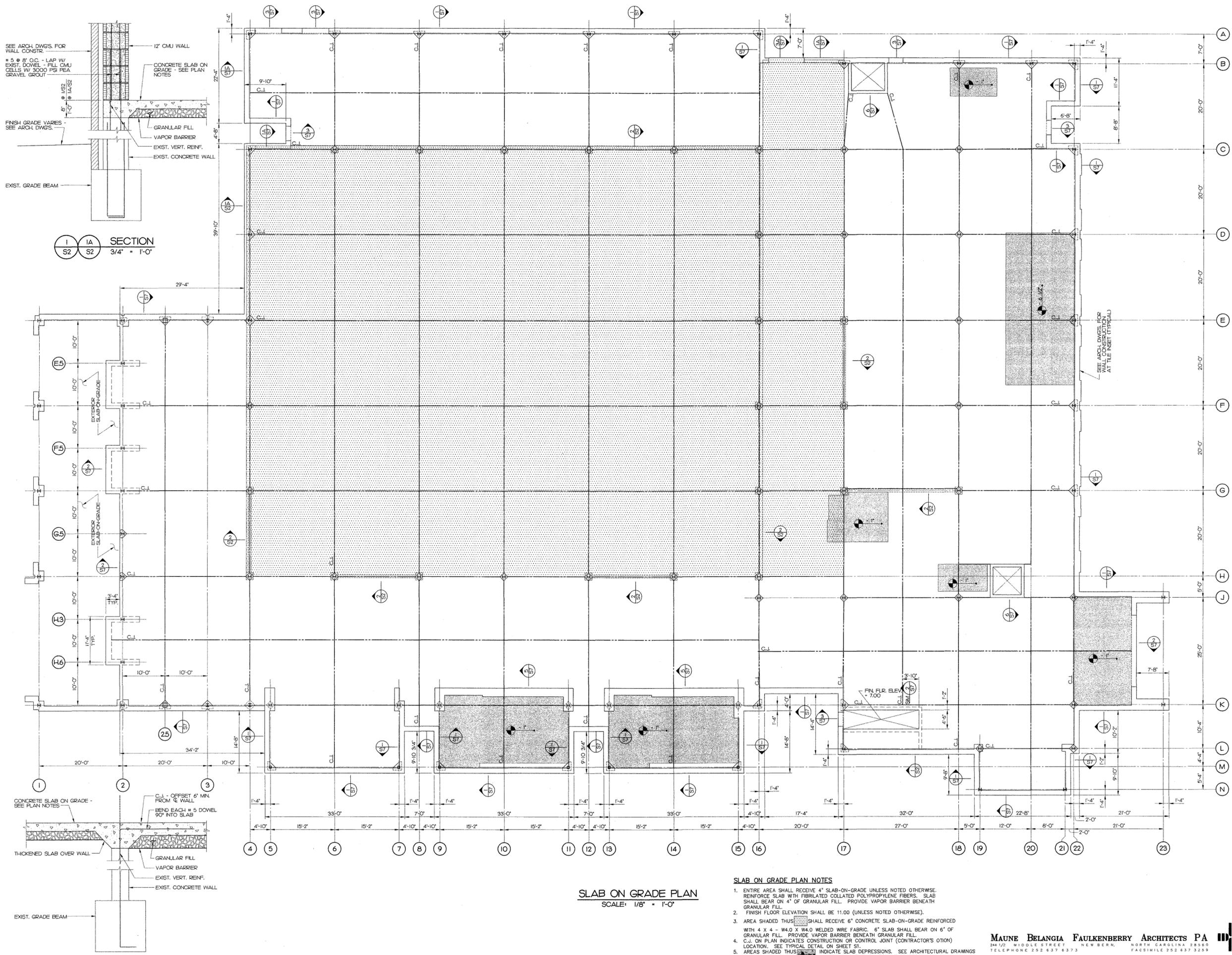
1/20/99 SHEET REPLACED  
 DUE TO D.O.I COMMENTS  
 AND ARCHITECTURAL CHANGES.

STANFORD  
 WHITE  
 ASSOCIATES  
 Consulting Engineers

MEFA: 9730  
 DATE: 01/14/99  
 KITCHEN  
 PLAN

P104  
 44 OF 125

DRAWING PATH: R:\A\1\UP\104.DWG  
 PLOT DATE: 21 JUN 99  
 PLOT TIME: 10:35  
 MODIFIED BY: CMH



SECTION 1  
S2 S2  
3/4" = 1'-0"

SECTION 2  
S2 S2  
3/4" = 1'-0"

SLAB ON GRADE PLAN  
SCALE: 1/8" = 1'-0"

- SLAB ON GRADE PLAN NOTES**
- ENTIRE AREA SHALL RECEIVE 4" SLAB-ON-GRADE UNLESS NOTED OTHERWISE. REINFORCE SLAB WITH FIBRILATED COLLATED POLYPROPYLENE FIBERS. SLAB SHALL BEAR ON 4" OF GRANULAR FILL. PROVIDE VAPOR BARRIER BENEATH GRANULAR FILL.
  - FINISH FLOOR ELEVATION SHALL BE 11.00 (UNLESS NOTED OTHERWISE).
  - AREA SHADED THUS [diagonal hatching] SHALL RECEIVE 6" CONCRETE SLAB-ON-GRADE REINFORCED WITH 4 X 4 - W4.0 X W4.0 WELDED WIRE FABRIC. 6" SLAB SHALL BEAR ON 6" OF GRANULAR FILL. PROVIDE VAPOR BARRIER BENEATH GRANULAR FILL.
  - C.I. ON PLAN INDICATES CONSTRUCTION OR CONTROL JOINT (CONTRACTOR'S OPTION) LOCATION. SEE TYPICAL DETAIL ON SHEET S1.
  - AREAS SHADED THUS [dotted pattern] INDICATE SLAB DEPRESSIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT EXTENT. MAINTAIN SLAB THICKNESS AT DEPRESSIONS.
  - SEE TYPICAL DETAILS ON SHEETS S1 AND S1A.
  - SEE GENERAL NOTES ON SHEET S1.
  - REFER TO ELECTRICAL PLANS FOR ELECTRIC DUCT TO BE CAST IN SLAB-ON-GRADE.

**CRAVEN COUNTY CONVENTION CENTER**  
NEW BERN, NORTH CAROLINA

**SOUTH FRONT STREET**



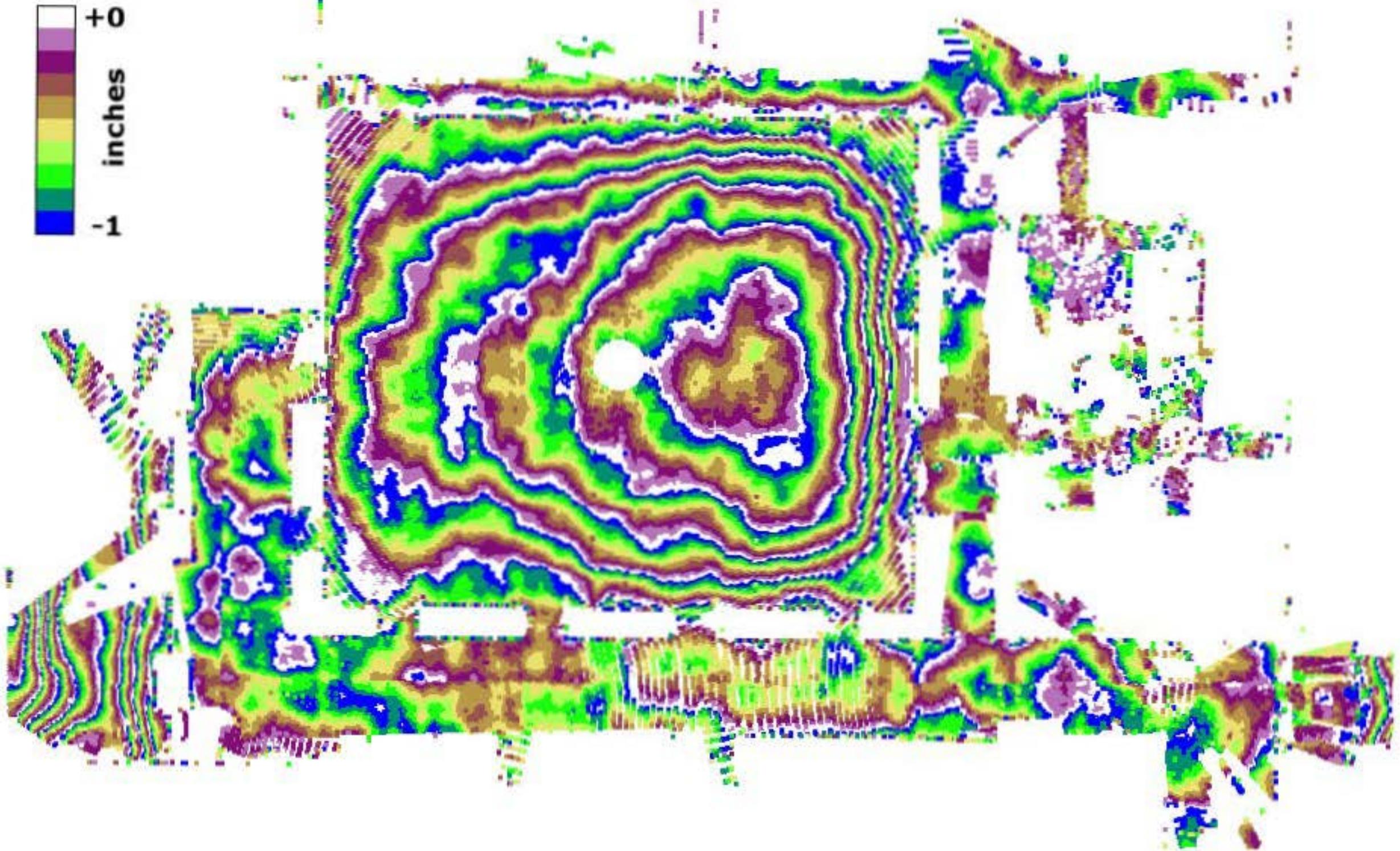
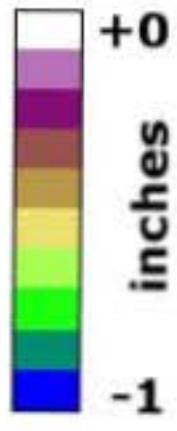
MORRISON-SULLIVAN  
ENGINEERS  
18150 N.E. 88th Street, Suite 125, Redmond, Washington 98052  
TELEPHONE 206 700 0714 FACSIMILE 206 356 8837

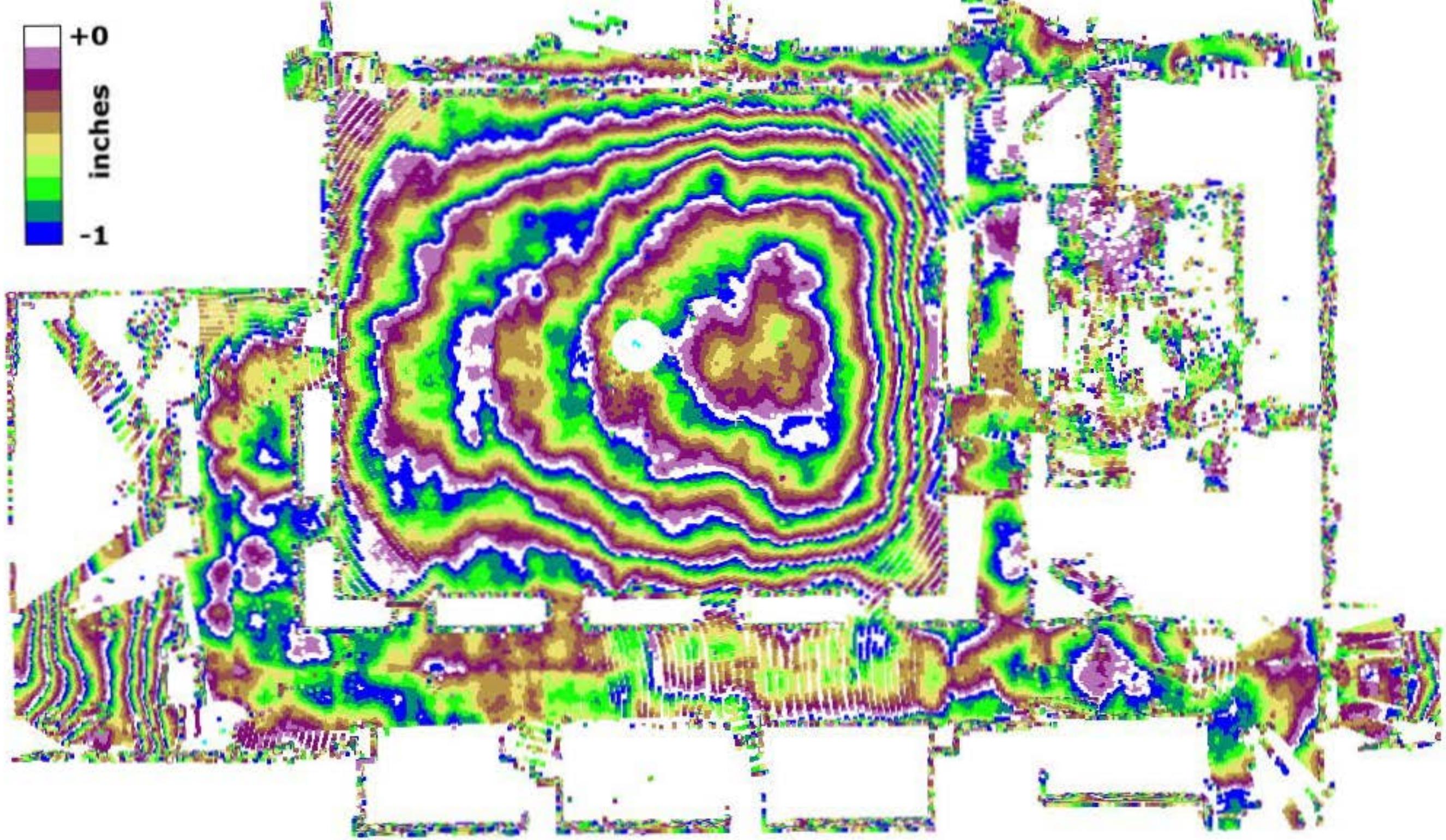
MAUNE BELANGIA FAULKENBERRY ARCHITECTS PA  
244 1/2 MIDDLE STREET NEW BERN, NORTH CAROLINA 28560  
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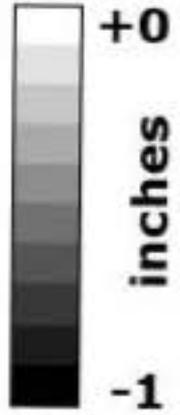
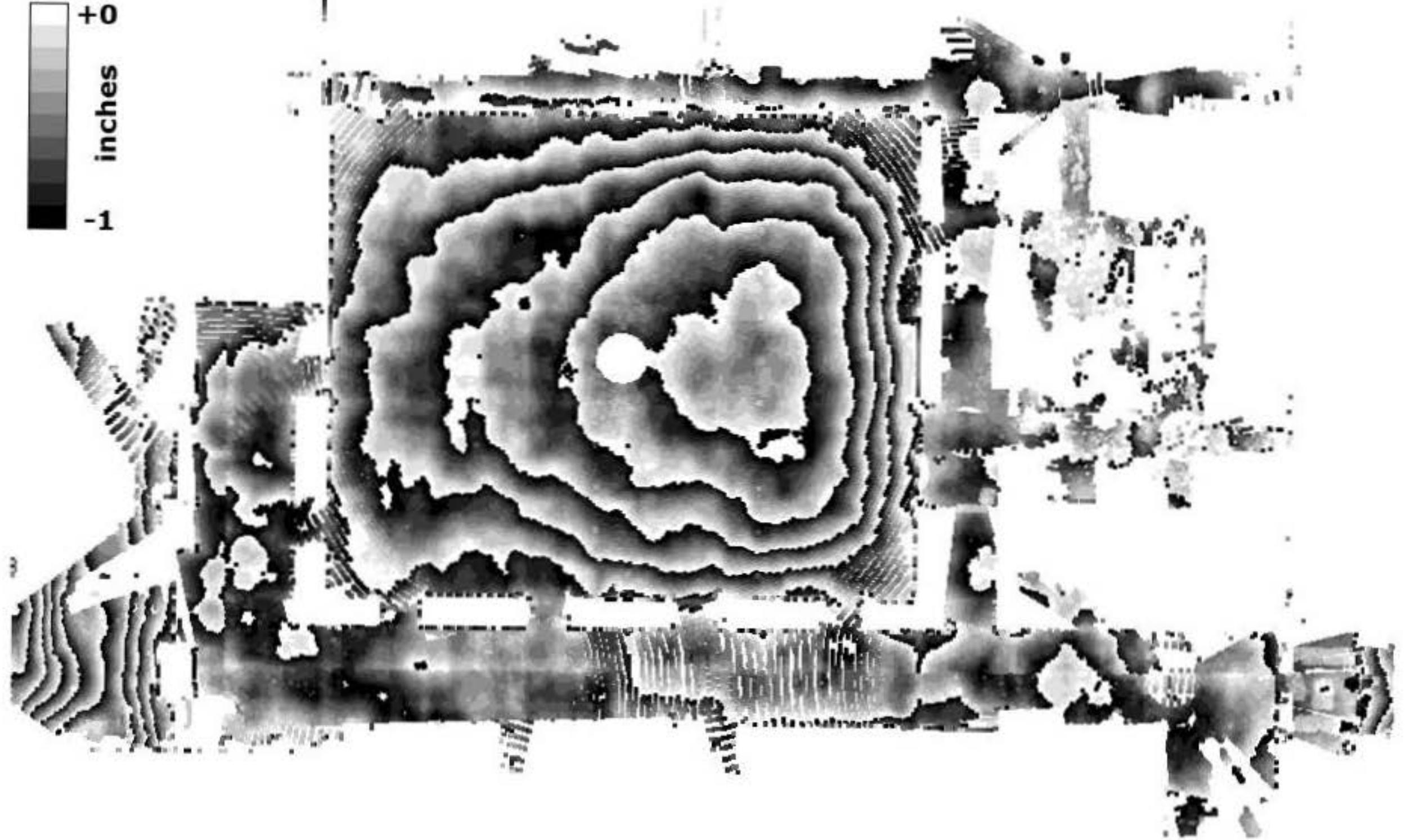
Hellmuth, Obata & Kassabaum, Inc.  
18150 N.E. 88th Street, Suite 125, Redmond, Washington 98052  
TELEPHONE 206 700 0714 FACSIMILE 206 356 8837

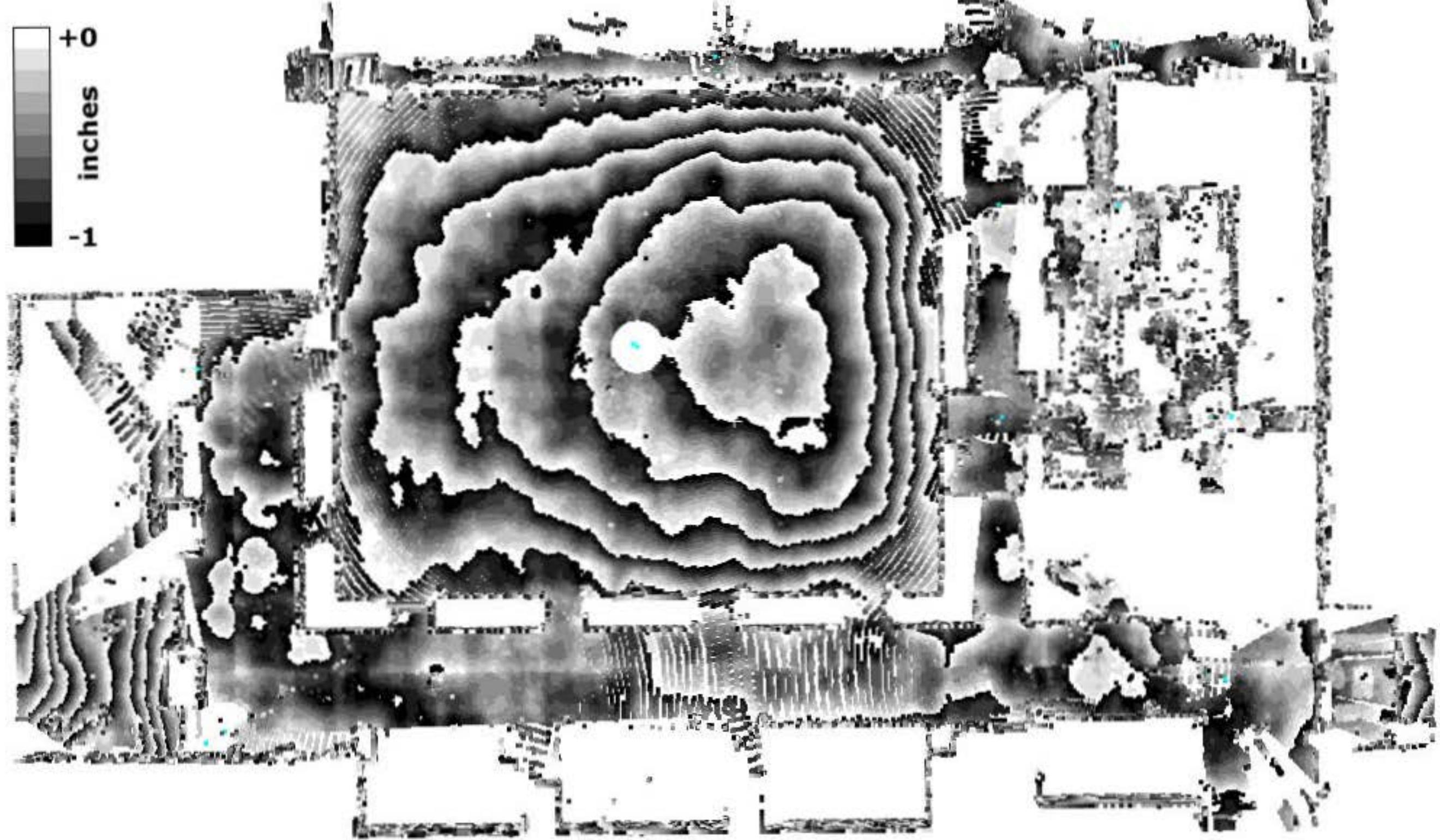


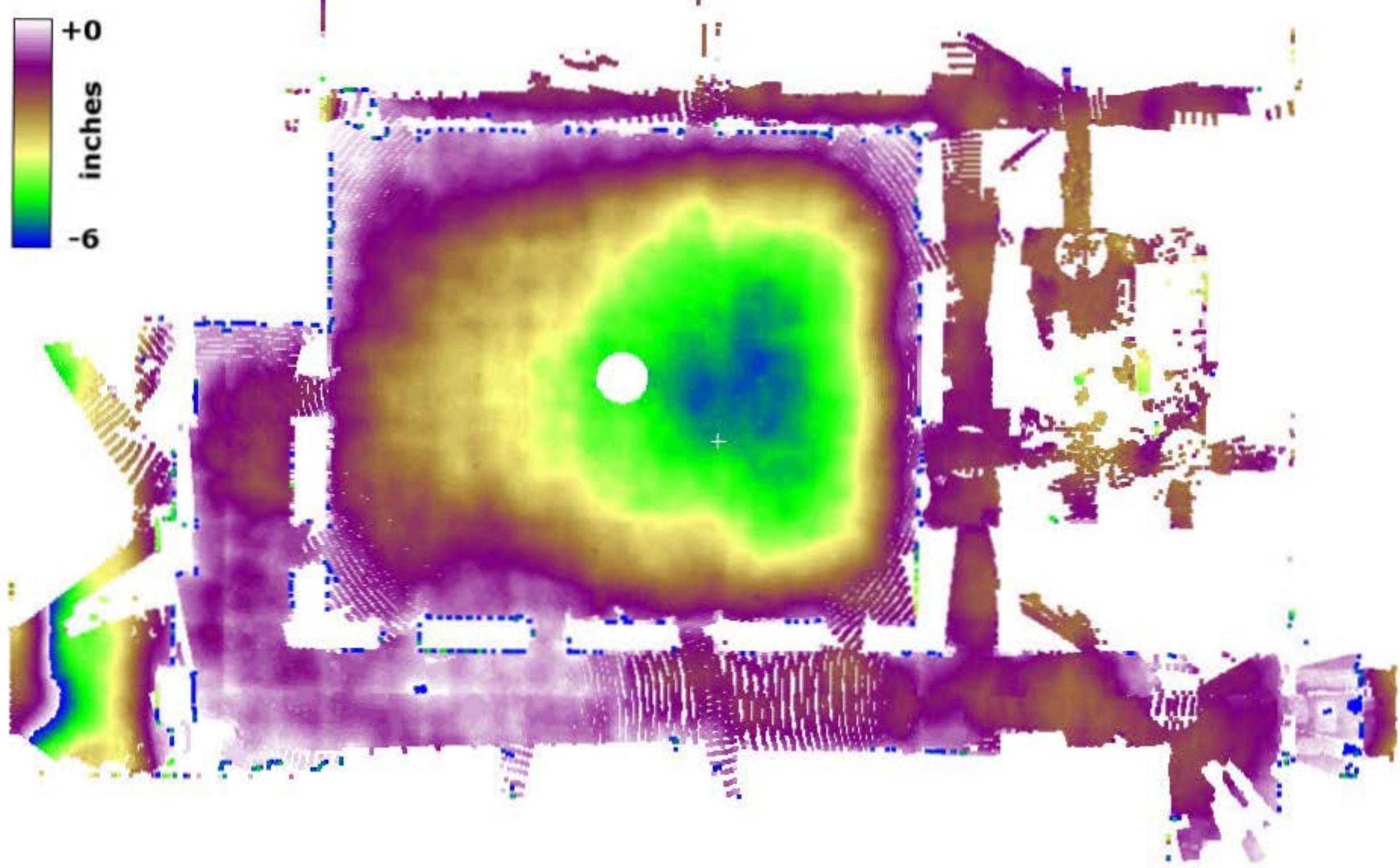
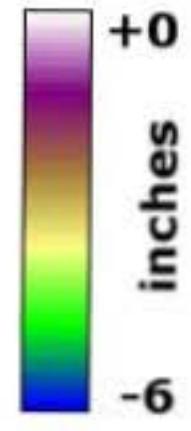
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DATE: 20 JANUARY 1999  
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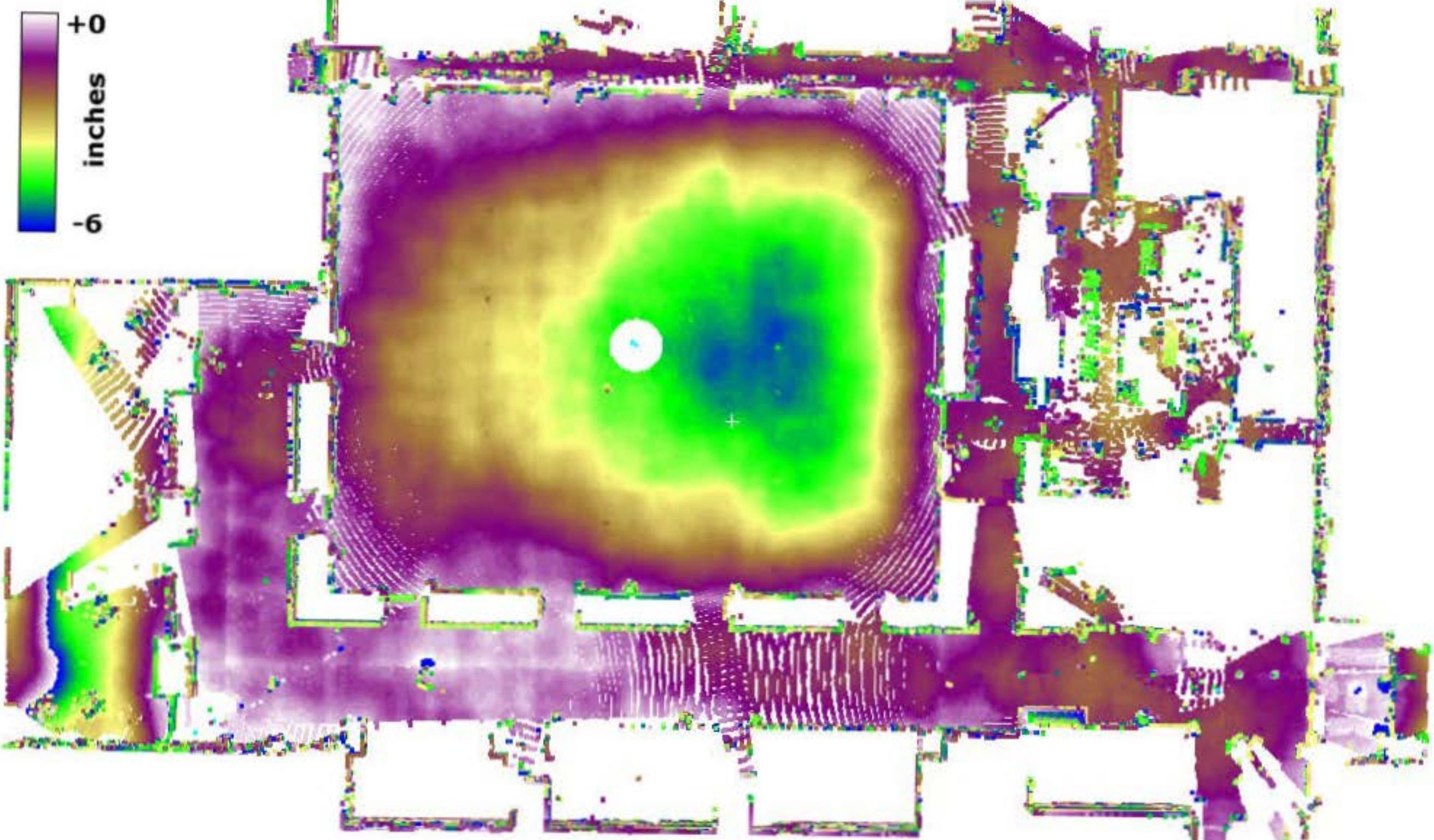


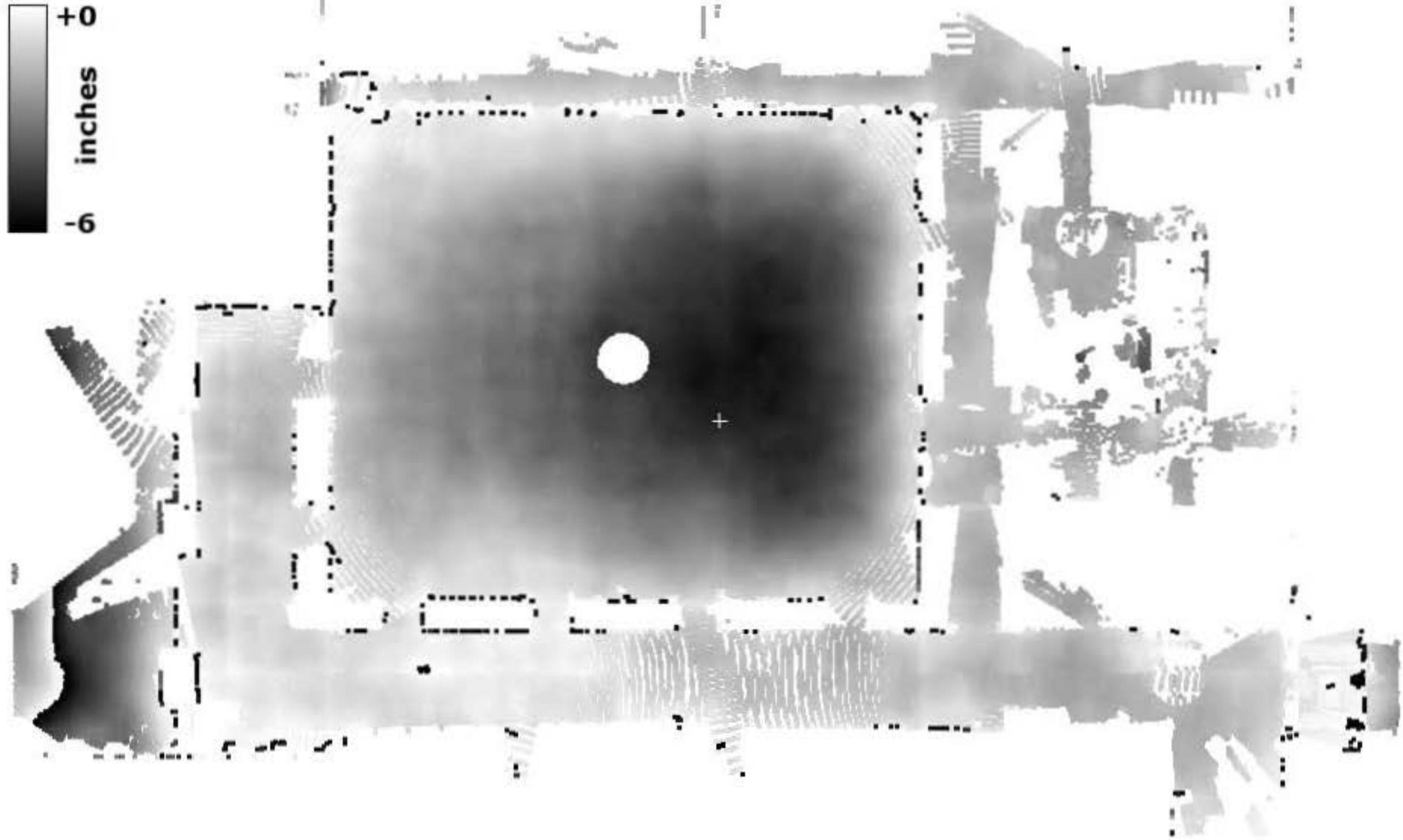


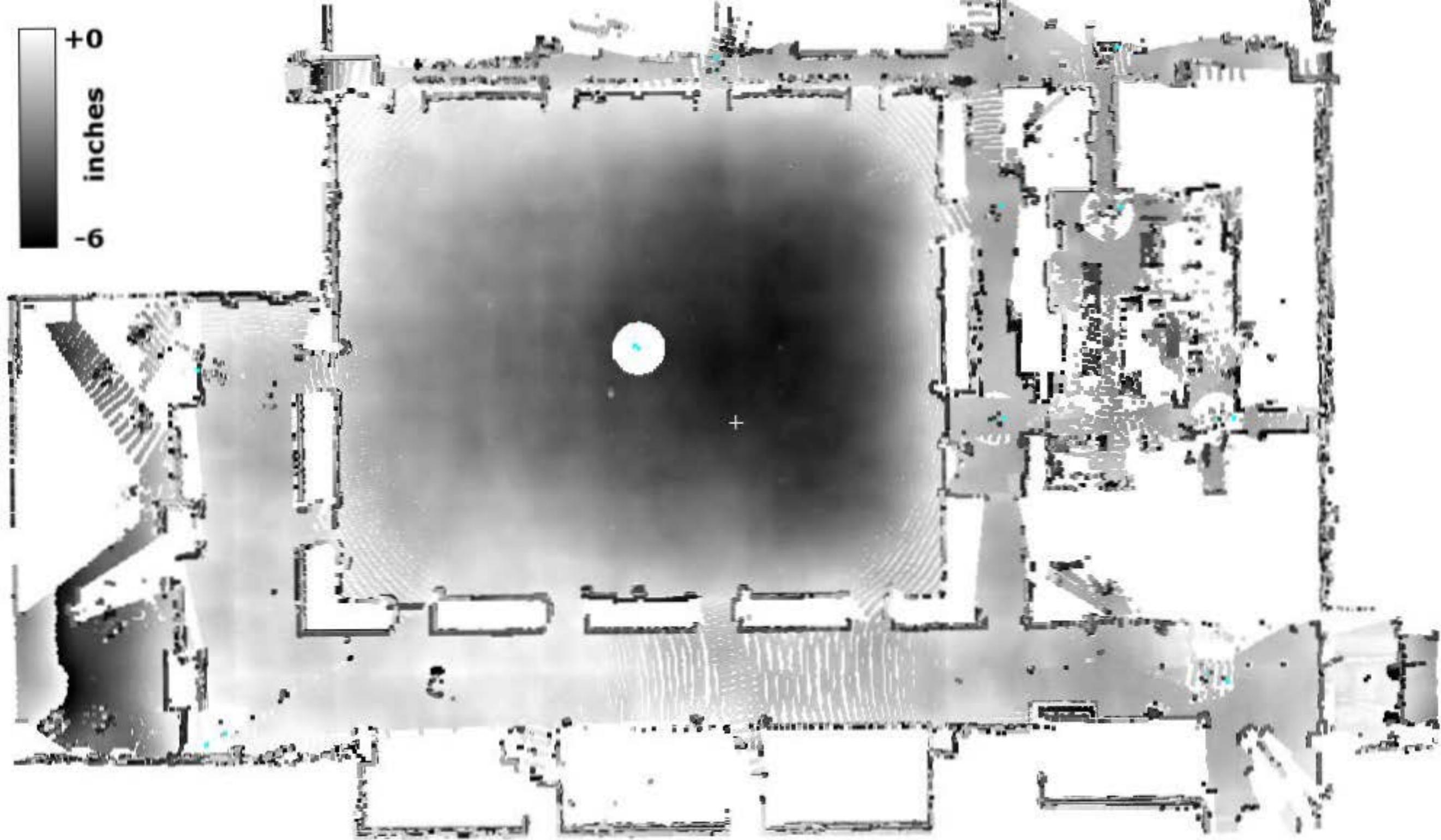


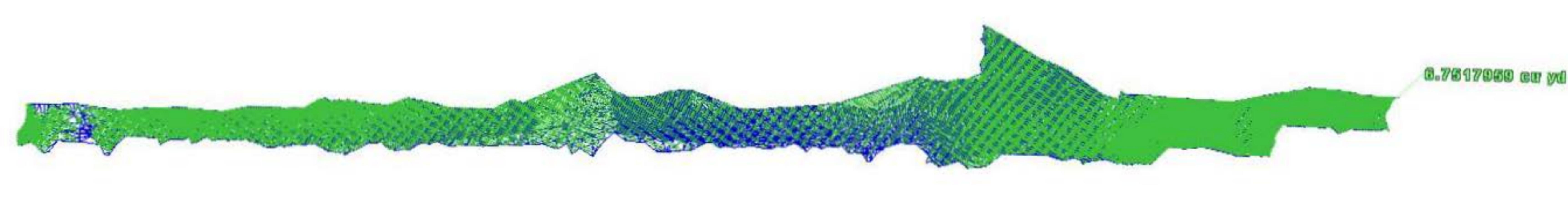




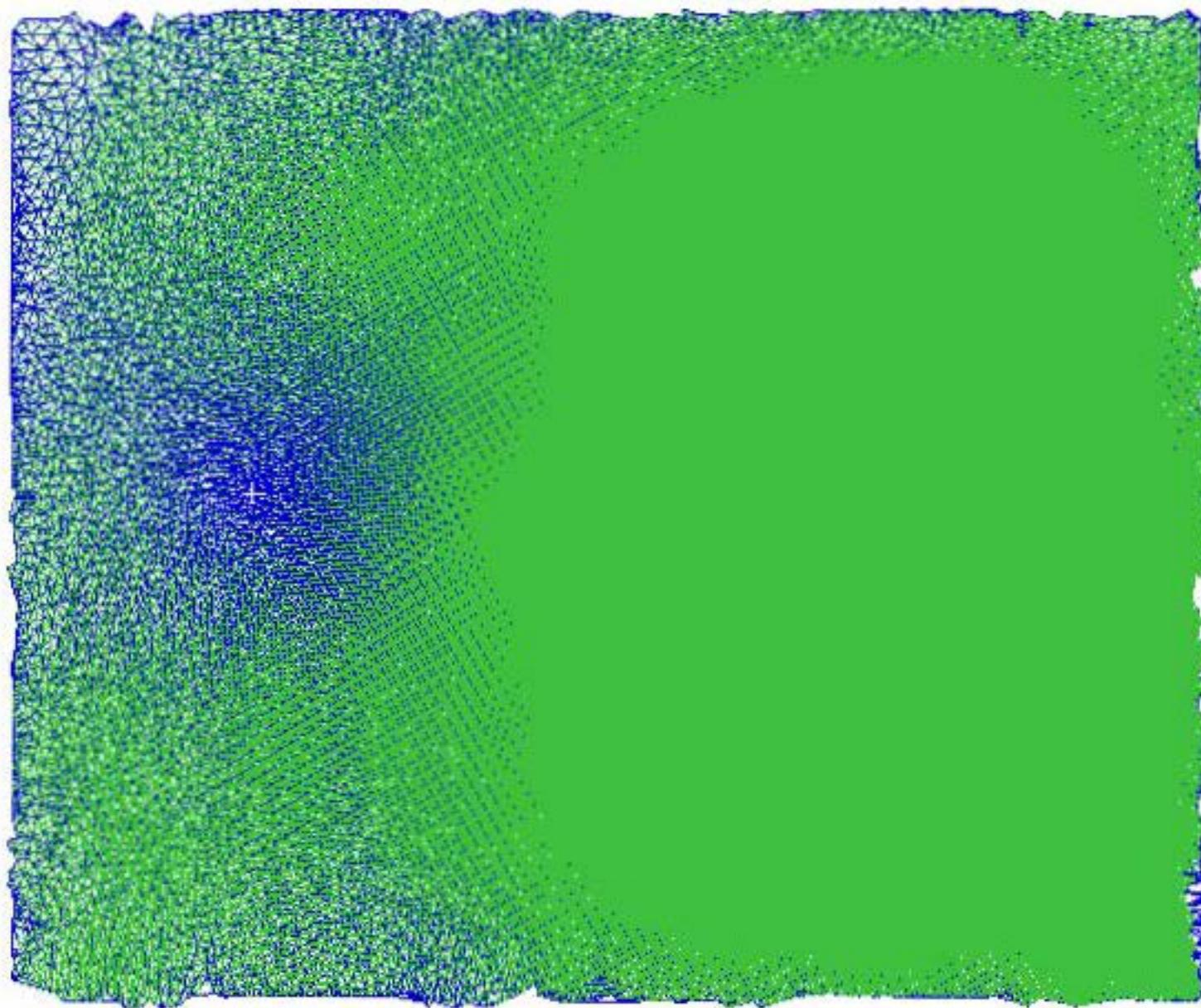


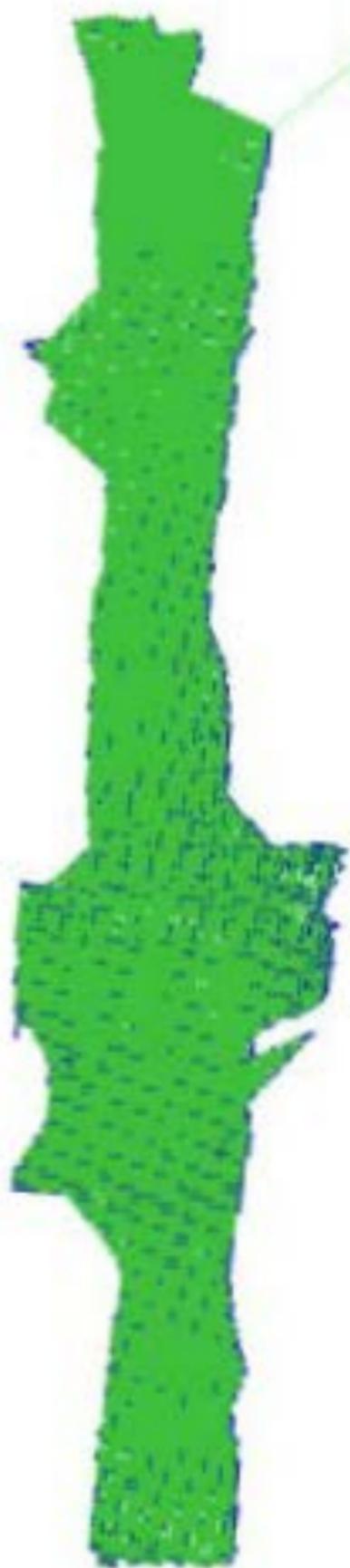




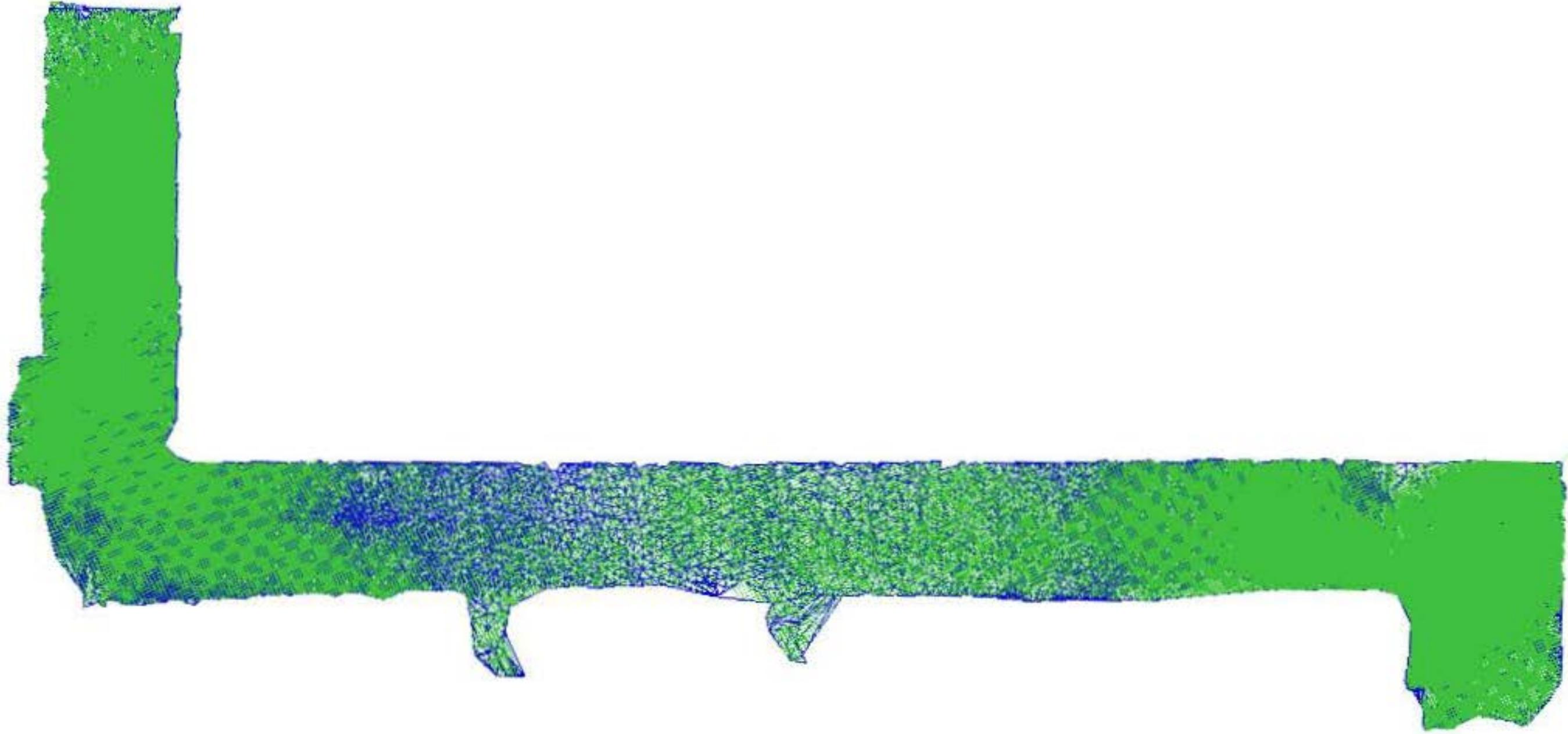


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