



# **COUNCIL DAIS** **RENOVATION PROJECT**

**Date Issued: February 1, 2024**



**City of Belmont  
1401 E. Catawba St.  
Belmont, NC 28012**

<b>BID FORM DOCUMENTS</b>	
<b>City of Belmont – CityWorks</b> <b>1401 E. Catawba St.</b> <b>Belmont, NC 28012</b>	<b>Refer <u>All</u> Inquiries to:</b> <b>Jonathan Wilson, Public Works Director</b> <b>Office #: 704.825.0506</b> <b>E-mail: <a href="mailto:jwilson@cityofbelmont.org">jwilson@cityofbelmont.org</a></b>
<b>PROJECT:</b>	<b>Council Dais Renovation Project</b>
<b>BID DUE DATE:</b>	<b>February 20, 2024 at 2:30 PM</b>

**INVITATION TO BID**

Sealed bids will be received on or before **February 20, 2024 at 2:30 PM** at The City of Belmont – CityWorks Building 1401 E. Catawba St. Belmont, NC at which time all bids will then be publicly opened in the Community Room and all bid prices read aloud for the following:

**Council Dais Renovation Project**

The City of Belmont will hold a pre-bid conference at the City of Belmont’s CityWorks Community Conference Room at 1401 E. Catawba St. Belmont, NC on February 12, 2024 at 10:00 AM.

**Bid Bond:** Each bid that equals or exceeds \$100,000 shall be accompanied by a corporate bid bond or certified check in the amount of at least 5% of the total amount bid for the contract. The bid bond shall be executed by a corporate surety licensed in North Carolina to execute such bonds.

**Bid Information:** Bid Documents, plans, copies of the Instructions to Bidders, the Bid Form, forms for bonds and other documents may be obtained on the City of Belmont website ([www.cityofbelmont.org](http://www.cityofbelmont.org)) on February 1, 2024.

**Contractor’s License for Construction Contracts:** Bidders shall comply with all applicable laws regulating the practice of General Contracting as required by the General Statutes of North Carolina that require the Bidder to be licensed by the North Carolina Licensing Board for General Contractors when bidding on any project where the bid is \$30,000 or more. The Bidder will provide a copy of the license and provide the North Carolina General Contractor’s License Number, Classification(s), and Limits in the space provided on the signature page of the bid.

**Delay in Award:** Bids may be held by the City for a period not to exceed sixty (60) calendar days from the date of the bid opening for the purpose of reviewing bids and investigating qualifications of Bidders.

**Equal Employment Opportunity:** Bidders will ensure that employees and applicants for employment are not discriminated against because of their race, color, religion, sex, national origin, disability, or veteran’s status.

**E-Verify Affidavit:** All bidders shall include in their bid package an affidavit that they and all sub-contractors have complied with E-Verify or are exempt from the requirement.

**Itemized Proposal Form:** The itemized proposal form provided by the City shall be used and the Project Manual in its entirety (the Project Manual shall not be taken apart or altered) shall be submitted for bid consideration. All entries including signatures shall be written in ink.

**Standard Specifications:** Refer to Appendix B and Appendix C, sheets A-002 through A-005 for sheet specifications.

**Delivery of Bids:** Bids may be mailed or hand delivered to the Jonathan Wilson on or before **2:30 PM on February 20, 2024**. **Please label the sealed bid envelope with the Project Name, Contractor’s Name, and Bid Opening date and time.** Bids submitted via facsimile (FAX) machine in response to this Invitation to Bid **will not** be acceptable. Bids are subject to rejection unless submitted on the forms contained in the Project Manual.

**Bid Phase Contact:** For information regarding this project during the bid phase contact:  
Jonathan Wilson, City of Belmont Public Works Director. 704.825.0506 . [jwilson@cityofbelmont.org](mailto:jwilson@cityofbelmont.org)

### STANDARD PROVISIONS

**Project name:** Council Dais Renovation Project

**SCOPE OF WORK:** The work associated with this project includes constructing a council dais in the existing City council chamber with associated electrical and audio/visual specialties, and a raised platform for the new dais to sit on.

#### ADDENDA

Addenda will be emailed to Bidders of Record and filed in the Office of the Project Manager. The Bidder shall be responsible for inquiring if Addenda have been issued. All such Addenda shall become part of the contract and all Bidders shall be bound by such Addenda whether or not received or acknowledged by the Bidder.

#### ADDITIONAL WORK

Additional work is that which results from a change or alteration in the contract and for which there are existing contract unit prices.

#### AWARDING OF CONTRACT

The City will award the contract conditioned upon funds being available for construction and other governmental approvals as may be required. The contract will be awarded to the lowest responsive and responsible Bidder, as required by North Carolina General Statutes. Consideration will be given only to proposals from Contractors who are properly licensed, bonded, experienced in the class of work proposed and who can refer to projects of similar magnitude and character that have been completed by them. The City also reserves the right to reject any and all proposals and to waive informalities and technicalities as it may deem to be in its best interest.

#### CARE OF WORK

The Contractor shall furnish and erect, at no additional cost to the City, whatever measures associated with this type of project that may be necessary for the protection of the public and Belmont staff including, but not limited to, barricades, fences, etc. and for the safe and proper execution of other daily work so as not to interfere therewith or damage or cause damage thereto. The Contractor shall be responsible for all subcontractors and damages to persons or property that occur as a result of his fault, omission, or negligence in connection with the prosecution of the work and shall be responsible for the proper care and protection of all work performed hereunder until completion and final acceptance, whether or not the same has been covered in whole or in part by payments made by the City.

#### CASH ALLOWANCE

A cash allowance for audio / video work is included as a line item in the itemized proposal to the subtotal. This cash allowance represents the scope of supply and services that are being provided by the City's preferred audio / video subcontractor. A copy of the audio / video subcontractor is included in Appendix A. The Contractor shall reference this proposal and the contract drawings to determine what other scope shall be covered by the Contractor or other subcontractor (such as conduit) to make a fully functioning system.

#### CHANGES

The City of Belmont City Manager may unilaterally change the work, materials and services to be performed, in accordance with City law, rule, or regulation. The change must be in writing and within the general scope of the contract. The contract will be modified to reflect any time or money adjustment the Contractor is entitled to receive. Any claim about an adjustment in time or money due to a change must be given in writing to the Public Works Director, within thirty (30) days from the date that the Public Works Director issued the change, or the claim is waived. The Contractor must proceed with the prosecution of the work as changed, even if there is an unresolved claim. No charge for any extra work, time or material will be allowed, except as provided in this section.

#### CITY OF BELMONT DRUG-FREE WORKPLACE POLICY

The City is a drug-free workplace employer.

In order to be eligible to submit a bid or proposal for a City construction or service contract, a prospective contractor must certify that it will, if awarded the contract, provide a drug-free workplace during the performance of the contract. This requirement is met by:

- (1) Notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken for violations of such prohibition;
- (2) Establishing a drug-free awareness program to inform employees about (1) the dangers of drug abuse in the workplace, (2) the Contractor's policy of maintaining a drug-free workplace, (3) any available drug counseling, rehabilitation, and employee assistance program, and (4) the penalties that may be imposed upon employees for drug abuse violations;
- (3) Notifying each employee that as a condition of employment, the employee will (1) abide by the terms of the prohibition outlined in (1) above and (2) notify the Contractor of any criminal drug statute conviction for a violation occurring in the workplace no later than five days after such conviction;
- (4) Notifying the City within ten (10) calendar days after receiving from an employee a notice of a criminal drug statute conviction or otherwise receiving actual notice of such conviction;
- (5) Imposing a sanction on, or requiring the satisfactory participation in a drug counseling, rehabilitation or abuse program by an employee convicted of drug crime;
- (6) Making a good faith effort to continue to maintain a drug-free workplace for employees; and
- (7) Requiring any party to which it subcontracts any portion of the work under the contract to comply with the provisions of (1) through (6).

The Contractor certifies that it will comply with the City's drug-free workplace requirement. A false certification or the failure to comply with the above drug-free workplace requirements during the performance of a contract shall be grounds for suspension, termination or debarment.

#### **CONTRACT ADMINISTRATION**

A. The Public Works Director, subject to paragraph B below, is the City representative. The Public Works Director is authorized to:

- (1) serve as liaison between the City and Contractor;
- (2) give direction to the Contractor to ensure satisfactory and complete performance;
- (3) monitor and inspect the Contractor's performance to ensure acceptable timeliness and quality;
- (4) serve as records custodian for this contract;
- (5) accept or reject the Contractor's performance;
- (6) furnish timely written notice of the Contractor's performance failures to the Assistant City Manager, as appropriate;
- (7) prepare required reports;
- (8) approve or reject invoices for payment;
- (9) recommend contract modifications or terminations to the City; and
- (10) issue Notice to Proceed.

B. The Public Works Director is NOT authorized to make determinations (as opposed to recommendations) that alter, modify, terminate or cancel the contract, effect a procurement, interpret ambiguities in contract language, or waive the City's contractual rights.

#### **CONTINGENCY ALLOWANCE**

A contingency allowance is included as a line item in the itemized proposal to the subtotal. The contingency may only be used by the contractor upon written instructions from the Public Works Director. Any portion of the contingency remaining at the end of the contract will revert to the city. The City reserves the right to change the contingency amount prior to award.

Any amount of the contingency allowance that is requested must be executed by written change order, with the appropriate authorized signature(s). No claim for an addition to the contract sum or time extension shall be valid unless so ordered prior to the work actually being performed.

All bonds must be inclusive of the base bid plus the owner's contingency.

**CONTRACTOR'S LICENSE FOR CONSTRUCTION CONTRACTS:** The Contractor shall provide his North Carolina General Contractor's License Number on the bid form.

**CONTRACT BONDS**

The successful bidder, within fourteen (14) calendar days after the notice of award is received by him, shall provide the City with a contract payment bond and a contract performance bond each in an amount equal to the amount of the contract plus contingency. All bonds shall be in conformance with G.S. 44A-33. The corporate surety furnishing the bonds shall be authorized to do business in North Carolina.

The successful bidder's failure to file acceptable bonds within fourteen (14) calendar days after the notice of award is received by him shall be just cause for the forfeiture of the bid bond or bid deposit and rescinding the award of the contract. Award may then be made to the next lowest responsible bidder or the work may be re-advertised and constructed under contract or otherwise, as the City may decide.

**CONTRACT TIME EXTENSIONS (NCDOT Section 108-10, Contract time: Intermediate Contract Time)**

The Contractor's attention is directed to Article 108-10 in the Standard Specifications. Item number (5) of sub-article 108-10 (b) shall be deleted in its entirety.

**COST & PRICING DATA**

The Contractor guarantees that any cost and/or pricing data provided to the City will be accurate and complete. The Contractor grants the City access to all books, records, documents, and other supporting data in order to permit adequate evaluation of the Contractor's proposed price(s). The Contractor also agrees that the price to the City, including profit or fee, may, at the option of the City, be reduced to the extent that the price was based on inaccurate, incomplete, or non-current data supplied by the Contractor.

**DEFINITION OF TERMS**

Whenever the following terms are used in the Standard Specifications, in any of the Contract Documents, or in the plans, the intended meaning of such terms shall be as follows:

1. "State" or "Department" shall be replaced by the words "City of Belmont"
2. "Engineer" or "Resident Engineer" shall be replaced by the words "City Engineer or his duly authorized representative"
3. "Project Manager" shall be the person appointed by the "City" who is responsible for ensuring that the project is completed in accordance with the City's procedures
4. "Sampling and Testing by Department" shall be replaced by the words "Sampling and Testing by City or its approved testing agency"
5. "Inspection by Department" shall be replaced by the words "Inspection by the City or its duly authorized representative"
6. "City Standard" shall refer to the latest edition of "the City of Belmont Land Development Code"
7. "City Water Main Standard" and "City Sanitary Sewer Standard" shall refer to the latest edition of "the City of Belmont Land Development Code "

**DOCUMENTS, MATERIALS AND DATA**

All documents, materials or data developed as a result of this contract is the City's property, unless specifically provided for in the contract. The City has the right to use and reproduce any documents, materials, and data, including confidential information, used in the performance of, or developed as a result of, this contract. The City may use this information for its own purposes, including reporting to state and federal agencies. The Contractor warrants that it has title to or right of use of all documents, materials or data used or developed in connection with this contract. The Contractor shall keep confidential all documents, materials, and data prepared or developed by the Contractor or supplied by the City.

**DURATION OF OBLIGATION**

The Contractor agrees that all of Contractor's obligations and warranties which, directly or indirectly, are intended by their nature or by implication to survive performance of the contract shall so survive the completion of performance, termination for cause, or the termination for convenience of the contract.

**ENTIRE AGREEMENT**

There are no promises, terms, conditions, or obligations other than those contained in the contract, including any terms, conditions, documents or exhibits thereto, and these General Conditions. This contract supersedes all communications, representations, or agreements, either verbal or written, between the parties hereto, with the exception of express warranties given to induce the City to enter into the contract.

**EXECUTION OF CONTRACT**

As soon as possible following the bid-opening and receipt of the properly executed contract, the City will complete the execution of the contract, retain the original contract, and return one copy of the fully executed contract, including plans and specifications, to the Contractor. Additional sets may be obtained at the cost of printing.

**EXTRA WORK**

Work found necessary or desirable to complete fully the work as contemplated in the contract for which payment is not provided for by the contract unit or lump sum prices in the original contract.

Extra work shall not be work which in the terms of the specifications and special provisions is incidental to work for which there is a contract price or work for which payment is included in some other contract unit or lump sum price.

Extra work shall be performed in accordance with the specifications and as directed by the Project Manager and/or City Engineer. No extra work shall be commenced prior to specific authorization for the performance of such extra work being given by the Engineer.

**GUARANTEE****Warranty**

The Contractor shall guarantee all materials and workmanship for a period of one (1) year from the date of acceptance by the City and shall replace any portions that fail because of faulty materials or workmanship at no additional cost to the City. A six (6) month and eleven (11) month inspection will be held during the warranty period. The Contractor shall immediately repair all defective items upon notification. Items repaired under the provisions shall have an extended warranty period of twelve (12) months from the date of repair of the item.

**INDEMNIFICATION**

To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the City and its agents and employees, from and against all claims, damages, losses and expenses, including attorneys' fees, arising out of or resulting from the performance of the work, provided that any such claim, damage, loss or expense (1) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) including the loss of use resulting therefrom, and (2) is caused in whole or in part by any negligent act or omission of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this paragraph.

In any and all claims against the City or any of its agents or employees by any employee of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation under this paragraph shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor under workers' or workmen's compensation acts, disability benefit acts, or other employee benefit acts.

**INDEPENDENT CONTRACTOR**

The Contractor is an independent contractor. The Contractor and the Contractor's employees or agents are not agents of the City. Neither these General Conditions nor the contract are intended to create, nor do they create any partnership, joint venture, agency or other relationship between the City and the Contractor.

**INFRINGEMENT**

Contractor represents and warrants that there is no copyright or patent infringement with respect to any goods or materials furnished pursuant to the contract. The Contractor shall indemnify and hold harmless the City with respect to costs, expenses, damages, and liability arising from or on account of any claim for infringement.

**INSPECTIONS**

The City has the right to monitor, inspect and evaluate or test all supplies, goods, or services called for by the contract at all reasonable places (including the Contractor's place of business) and times (including the period of preparation or manufacture).

**INSURANCE REQUIREMENTS**

**Contractor's Liability and Other Insurance:** The Contractor shall purchase and maintain with a company acceptable to the City and authorized to do business in the State of North Carolina, such insurance as will protect him from claims under workers' compensation laws, disability benefit laws or other similar employee benefit laws; from claims of damages because of bodily injury, occupational sickness or disease, or death of his employees; from claims for damages because of bodily injury and personal injury; and from claims for damage and destruction of tangible property, including loss of use resulting therefrom – any or all of which may arise out of or result from the Contractor's operations under the Contract Documents, whether such operations be by himself or any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be legally liable.

The insurance shall be written for not less than the limits of liability specified below.

**Automobile:** Bodily injury and property liability covering all owned, non-owned and hired automobiles for limits of not less than \$1,000,000 bodily injury each person, each accident and \$1,000,000 property damage, or \$1,000,000 combined single limit – bodily injury and property damage combined.

**Commercial General Liability:** Bodily injury and property damage liability as shall protect the Contractor and any subcontractor performing work under this Contract from claims of bodily injury or property damage which arise from operations of this Contracts, whether such operations are performed by the Contractor, any subcontractor, or anyone directly or indirectly employed by either. The amounts of such insurance shall not be less than \$1,000,000 bodily injury each occurrence/aggregate and \$1,000,000 property damage each occurrence/aggregate or \$1,000,000 bodily injury and property damage combined single limits each occurrence/aggregate. This insurance shall include coverage for products/completed operations, personal injury liability and contractual liability assumed under the indemnity provision of this Contract and broad form property damage, explosion, collapse and underground property damage (XC&U). The coverage shall be on an occurrence basis.

**Workers' Compensation and Employers' Liability:** Shall meet the statutory requirement of the State of North Carolina, in an amount of \$100,000 each accident and disease – each employee and \$500,000 disease policy limit providing coverage for employees and owners.

The City shall be named as an additional insured under the commercial liability insurance for operations or services rendered under this Contract.

At the time of execution of the Contract, the Contractor shall provide the City with insurance certificates certifying that the foregoing insurance is in force; and such insurance certificates shall include provisions that the insurance shall not be cancelled, allowed to expire, or be materially changed without giving the City thirty (30) days advance written notice by registered mail.

The Contractor is advised that if any part of the work under this Contract is sublet, he shall require the subcontractor(s) to carry insurance as required above. However, this will in no way relieve the Contractor from providing full insurance coverage on all phases of the Project, including any that are sublet.

When certain work is performed inside rights-of-way owned by railroads, North Carolina Department of Transportation or other agencies, both the Contractor and any subcontractors may be required to furnish individual insurance certificates made in favor by the controlling agency, with limits established by that agency.

**LIQUIDATED DAMAGES**

Liquidated Damages will be assessed at the rate of **\$250.00** per calendar day for failure to complete the Project within the Contract Period.

**NOTICE TO PROCEED**

A Notice to Proceed will be issued to the Contractor upon receipt of a fully executed contract, insurance certificates, copy of NC contractor's license, performance and payment bond, receipt of approval by other governmental agencies (if required) and any other documentation required by the Engineer.

**OSHA REQUIREMENTS**

The Contractor shall comply with OSHA 29 CFR Part 1926, Subpart P – Excavations, 29 CFR Part 1910.146, Permit-required confined spaces and all other applicable regulations.

**PERIODIC PAYMENTS**

The City will make periodic payments based on the work progress estimates prepared by the Project Manager and/or City Engineer and the payment request submitted by the Contractor on a monthly schedule established by the Engineer. Payment will be made within thirty (30) calendar days after receipt of a correct payment request.

The contractor shall submit progress invoicing on forms acceptable to the City and retainage as per North Carolina General Statutes of each monthly invoice to be released upon the acceptance of the improvements by the City.

Payment requests and tax statements shall be submitted on the forms provided by the City (see Tax Statement Submittal section of this contract).

The Contractor shall have a copy of his current payment request on the job site and it may be viewed by subcontractors upon request.

**PRE-CONSTRUCTION CONFERENCE**

A pre-construction conference will be scheduled as soon as practical. The Contractor shall attend the conference along with the prospective job superintendent, any anticipated major subcontractors and major material suppliers. A proposed progress schedule in a form satisfactory to the Project Manager and/or City Engineer and a statement of the anticipated monthly progress payments showing the percent of progress each month shall be submitted.

The Contractor shall also provide at least two (2) local telephone numbers that may be used to contact the Contractor or his authorized representative in the event of an emergency after normal business hours. Upon receipt of the required documentation, a Notice to Proceed will be issued by the Project Manager and/or City Engineer.

The Contractor shall provide the name of the Contractor's on-site representative who is an OSHA certified person for trenching and shoring and confined space entry.

**PERSONAL PROPERTY**

All equipment and other similar types of personal property specified in the contract and purchased with funds provided under the contract become the property of the City upon the termination or expiration of this contract, unless expressly stated otherwise.

**PROJECT CLOSEOUT DOCUMENTS**

The Contractor shall provide the following documents with the final pay request:

8. Contractor's Affidavit Release and Waiver of Claim
9. Contractor's Affidavit of Payment of Debts and Claims
10. State/County Sales/Use Tax Statement
11. Contractor's red-lined construction drawings
12. As-built drawings

No final payment will be authorized until these documents have been properly completed and submitted by the Contractor.

**SUBLETTING**

The Engineer reserves the right to waive the subcontracting limits set forth in Article 108-6 of the Standard Specifications whenever it is deemed to be in the best interest of the City. The limits can be waived only upon written approval from the Engineer.

**TAXES AND LICENSES**

North Carolina sales and/or use taxes are applicable to purchases of building materials and other tangible personal property by Contractors for use in performing City contracts (see Tax Statement Submittal section of this contract). Use tax is also due on



construction equipment brought into North Carolina for use in the performance of City contracts (N.C. Revenue Laws, G.S. 105-164.4 and G.S. 105-164.6). Contractors are liable for payment of applicable franchise, corporate income, license and withholding taxes (N.C. Revenue Laws, G.S. 105-122, G.S. 105-123, G.S. 105-163.2).

#### **TAX STATEMENT SUBMITTAL**

1. All tax statement bodies and all signatures must be original. Photocopies of blank forms may be used, provided the document containing the information is original.
2. All tax statements must be signed by the Contractor/subcontractor's company officer submitting the statement and certified by a Notary Public. All tax statements must list in detail taxes paid by individual invoice. No lump sum, running total, or copies of previously reported statements will be accepted. Tax statements shall show North Carolina tax and Gaston County tax paid.
3. A tax statement showing detailed amounts with "amounts previously reported" noted on the face will be accepted if they are original. This is the equivalent of a statement indicating "no taxes paid this period." All subcontractors for whom tax statements are included must be certified as such on the face of the Contractor's tax statement.
4. Tax statements (the State/County Sales/Use Tax Statement form) must always accompany a payment request for the related project. All final construction payment requests must have a final tax statement regardless of whether any taxes have been paid during the period in question. If no taxes have been paid, the detail page should simply state "0", "None", or "No taxes paid this period."

#### **TERMINATION BY THE CITY FOR CAUSE**

1. The City may terminate the Contract if the Contractor:  
Persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials;  
Fails to make payment to subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the subcontractors;  
Persistently disregards laws, ordinances, or rules, regulations or orders of a public authority having jurisdiction; or,  
Otherwise is guilty of substantial breach of a provision of the Contract Documents.
2. When any of the above reasons exist, the City, upon certification by the Engineer that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies of the City and after giving the Contractor and the Contractor's surety, if any, seven days written notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:  
Take possession of the site and all materials located therein;  
Accept assignment of subcontractors; and,  
Finish the work by whatever reasonable method the City may deem expedient. Upon request of the Contractor, the City shall furnish the Contractor a detailed accounting of the costs incurred by the Owner in finishing the work.
3. When the City terminates the Contract for one of the reasons stated above, the Contractor shall not be entitled to receive further payment until the work is finished.  
The City Manager shall have authority to terminate the Contract without additional authorization by City Council.
4. If the unpaid balance of the Contract Sum exceeds the actual costs of finishing the work, including compensation for the Engineer's additional services and expenses made necessary thereby, and other damages incurred by the City and not expressly waived, then such remaining balance shall be applied to payment of any additional amount owed to contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the City. The amount paid to the Contractor or the City, as the case may be, shall be certified by the Engineer, upon application, and this obligation for payment shall survive the termination of the Contract.

#### **TERMINATION BY THE CITY FOR CONVENIENCE:**

1. The City may, at any time, terminate the Contract for the City's convenience and without cause. Upon written notice from the City of such termination for the City's convenience, the Contractor shall:  
Cease operations as directed by the City in the notice,  
Take actions necessary, or that the City may direct, for the protection and preservation of the work; and,  
Except for the work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.
2. The City Manager shall have authority to terminate the Contract without additional authorization by City Council.

3. In case of such termination for the City’s convenience, the Contractor shall be entitled to receive payment for work executed, and costs incurred by reason of such termination, along with reasonable overhead and profit for the completed work.

**TIME**

Time is of the essence in the performance by Contractor of the contract and of all ancillary matters arising there from.

**TITLE**

All goods delivered or provided to the City or otherwise pursuant to the contract, and the title thereto, shall be free any security interest, lien, contract restriction, or other form of encumbrance. Title shall pass to the City at the place of delivery to the City, subject to the City’s right to inspect and accept or reject the goods.

**SITE VISIT:** Prospective bidders and/or bidder representatives are **ENCOURAGED** to visit the project site and apprise themselves of all conditions which will affect the performance of the work called for or reasonably implied by this Bid Document. Submission of a bid shall constitute sufficient evidence that no allowance will be made for unreported conditions, which a prudent bidder would recognize as affecting the performance of the work called for in this Bid Document.

Bidder is cautioned that any information released to attendees during site visit, other than that involving the physical aspects of the facility referenced above, and which conflicts with, supersedes, or adds to requirements in the Bid Documents, must be confirmed by written addendum before it can be considered to be a part of the Bid Documents. Bidder bidding otherwise does so at his own risk.

**WORK UNDER THE CONTRACT**

Work may not commence under this contract until all conditions for commencement are met, including execution of the contract by both parties, execution of required Bonds, compliance with insurance requirements, and issuance of any required notice to proceed.

**QUESTIONS**

Please direct all questions and requests for information no later than 3:00 PM, February 15<sup>th</sup>, 2024 by email to [jwilson@cityofbelmont.org](mailto:jwilson@cityofbelmont.org).

**SCHEDULE OF EVENTS**

The following schedule has been developed to ensure that vendors have adequate time to prepare and submit responses, and to permit the City of Belmont time to consider the bids presented.

Project Advertisement	February 1, 2024
Bid Documents Available	February 1, 2024
Pre-Bid Meeting at 10:00 AM	February 12, 2024
Questions due by email at 5:00 PM	February 15, 2024
Bids due by 2:30 PM	February 20, 2024
City Council to Award Contract (TENTATIVE)	TBD, if applicable
Remaining Schedule to be determined once contract is awarded	

## **PROJECT SPECIAL PROVISIONS**

### **CONTRACT PERIOD**

The Contract period will begin upon the issuance of the Notice to Proceed, and will extend ninety (90) calendar days thereafter.

### **PLANS**

See Appendix C, City of Belmont Council Dais Renovation Drawings provided by HDR Engineering Inc of the Carolinas.

### **ANTICIPATED WORK SCHEDULE & SCHEDULE CONSTRAINTS**

The Contractor shall attach a project schedule to the attached contract at the time of bid submission and provide weekly schedules until the completion of the project. The Contractor shall also supply at the Pre-Construction meeting a schedule of values pertaining to said project for review and approval by the City's Project Manager.

The existing Community Room, where the Council currently meets will need to remain functional for the majority of the contract period. The Contractor shall only have forty-five (45) consecutive calendar days to access the community room for construction activities. The other days in the contract period shall be used for procurement / submittal review / delivery of materials and closeout. Work in the electrical room may be allowed outside of this constraint as long as it does not affect the ability to hold a Council meeting. No storage of materials is allowed until actual work in the Community Room begins.

### **CLEANING UP**

Before acceptance of the Project, or as directed by the Project Manager in writing, borrow sources, waste areas, and all ground occupied by the Contractor within the Project limits in connection with the work shall be cleaned of all rubbish, excess materials, temporary structures, and equipment.

### **HAZARDOUS MATERIALS**

If the Contractor encounters any materials considered or suspected of being hazardous, he shall immediately secure the area and contact the City of Belmont Fire Department for further instructions.

### **INSPECTIONS**

Description: The Contractor shall notify all applicable agencies forty-eight (48) hours prior to construction commencing including but not limited to: Gaston County Building Inspections, City of Belmont (Fire, Utilities, Planning Departments).

### **MATERIALS AND EQUIPMENT STORAGE**

The Contractor shall be responsible for locating and providing storage areas for construction materials and equipment. The material and equipment storage shall comply with all local and state ordinances throughout the construction period. The Contractor shall restore the storage area to its original condition upon completion of the Project or upon such time as directed by the Project Manager. Such restoration shall be at no additional cost to the City.

The Contractor shall be responsible for the safeguarding of materials and equipment against fire, theft and vandalism and shall not hold the City responsible in any way for the occurrences of same. The Contractor shall furnish and erect, at no additional cost, whatever works may be necessary for the protection of the public, including but not limited to barricades, fences, etc. Prior to final payment being made, the Contractor shall obtain a release from the property owner of the storage area utilized for the Project.

### **PERMITS**

Description: The contractor shall comply with all applicable federal, state, and local laws, environmental regulations, and all permit requirements associated with this work scope. The contractor shall ensure that all applicable permits and approvals for all federal, state, and local agencies including but not limited to Building Permits, Zoning Permits, etc. are obtained prior to work commencing on this project. All permits shall be kept on file at the project site.

### **QUALITY CONTROL**

Contractor shall provide competent, suitable qualified personnel to survey, layout and construct the work as required by the Contract documents.

Contractor shall at all times maintain good discipline and order at the site.

All work shall be performed during regular working hours and shall not work on Saturday, Sunday or any legal holiday without the City's written consent given after prior written notice to the City.

## **PROJECT PROPOSAL SECTION**

**PROJECT NAME: Council Dais Renovation Project**

The undersigned, having carefully examined the site and familiarized himself with the existing conditions on the Project area affecting the cost of work and with the Contract Documents, the form of Proposal, form of Contract, Addenda (if any), Standard Specifications, Special Provisions, and plans/details/drawings, hereby proposes to furnish all supervision, labor, equipment, materials and services, including all utility and transportation services required to construct and complete the Project in accordance with the above listed documents at and for the Contract Sum as determined by the unit or lump sum prices bid for work in place.

The unit price list items are to be considered approximate only and are given as the basis for payment for work beyond the original scope. The City of Belmont may increase or decrease the amount of any item or portion of items as may be deemed necessary or expedient. An increase or decrease in the quantity of any item will not be regarded as sufficient grounds for an increase or decrease in the unit prices, nor in the time allowed for the completion of the work, except as provided for in the Contract.

For Bids equal to or exceeding \$100,000, the Contractor shall provide with their proposal a surety bond with warrant of attorney to confess judgment, or other satisfactory surety, or certified check drawn on a responsible banking institute, payable to the order of the City of Belmont for five percent (5%) of the total price bid, which deposit shall be forfeited as liquidated damages in case this proposal is accepted and the undersigned shall fail to execute a contract with necessary bond for the performance of said contract with the City of Belmont, under the conditions of the proposal, within fourteen (14) calendar days after the notice of award is received by him, as provided in the standard specifications, otherwise, said deposit is to be returned to the undersigned.

---

**ACKNOWLEDGMENT OF ADDENDA**

**The Bidder hereby acknowledges receipt of any addenda**

NUMBER: \_\_\_\_\_ DATE: \_\_\_\_\_ INITIAL: \_\_\_\_\_

NUMBER: \_\_\_\_\_ DATE: \_\_\_\_\_ INITIAL: \_\_\_\_\_

NUMBER: \_\_\_\_\_ DATE: \_\_\_\_\_ INITIAL: \_\_\_\_\_

NUMBER: \_\_\_\_\_ DATE: \_\_\_\_\_ INITIAL: \_\_\_\_\_

Company  
Name: \_\_\_\_\_

**PROJECT: Council Dais Renovation Project**

**BID FORM**

<b>Item</b>	<b>Description</b>	<b>Unit Quantity</b>	<b>Bid Amount in Words</b>	<b>Bid Amount in Figures</b>
Council Dais	All work associated with the plans, specifications and Description of a new council dais per the plans & specifications provided by HDR Engineering, Inc dated 2/1/24, except for the two storage cabinets and registry cabinet.	Lump Sum		
Audio / Video Subcontractor Cash Allowance	Cash allowance for Owner's preferred Audio/Video subcontractor	Lump Sum	One hundred thirty-one thousand, eight hundred sixty dollar and fifty-seven cents	\$131,860.57
<b>SUBTOTAL</b>				
Contingency Allowance	Owner's Contingency in the amount of fifteen (15%) percent of the base bid	Lump Sum		
<b>TOTAL BID (Base bid plus contingency)</b>				
Alternate 1	Two storage cabinets and registry cabinet per the plans & specifications provided by HDR Engineering, Inc dated 2/1/24.	Lump Sum		

BIDDER:

Name

\_\_\_\_\_

Printed

\_\_\_\_\_

Signature

Title

\_\_\_\_\_

Company

\_\_\_\_\_

Address

\_\_\_\_\_

Phone

\_\_\_\_\_

Fax

\_\_\_\_\_

Email Address

\_\_\_\_\_

NC GC Lic #

\_\_\_\_\_

**EXECUTION OF BID**

**A CONTRACT FOR THE CONSTRUCTION OF:**

**CITY OF BELMONT COUNCIL DAIS RENOVATION PROJECT**

The person executing the Bid, on behalf of the Bidder, being first duly sworn, deposes and says that:

- (1) It is the intent of the Bidder to enter into this Contract to furnish materials, labor, and equipment required to perform all work specified in accordance with the instructions, terms, conditions, provisions, specifications, plans and all other Contract Documents incorporated into this Invitation to Bid;
- (2) He/She is fully informed regarding the preparation and contents of the attached Proposal and of all pertinent circumstances regarding such Proposal;
- (3) Neither he/she, nor any official, agent or employee of the Bidder has entered into any agreement, participated in any collusion, or otherwise taken any action which is a restraint of free competitive bidding in connection with this Bid;
- (4) He/she will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, disability, or veteran's status.

**Type of Bidder:**       **Sole Proprietor**       **Partnership**     **Limited Liability Company**  
 **Corporation**                       **Joint Venture** (Check appropriate box)

**BIDDER #1**

**BIDDER #2**

(If a Joint Venture or Partnership)

Name	_____	_____
Address	_____	_____
	_____	_____
Phone	_____	_____
Fax	_____	_____
Printed Name	_____	_____
Signature	_____	_____
Title	_____	_____
NC General Contractor's License Number	_____	_____
Classification	_____	_____
Limits	_____	_____

Subscribed and sworn before me  
this \_\_\_ day of \_\_\_\_\_, 20\_\_

Subscribed and sworn before me  
this \_\_\_ day of \_\_\_\_\_, 20\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

My commission expires \_\_\_\_\_

My commission expires \_\_\_\_\_



## **FORMS**

**CONTRACTOR'S AFFIDAVIT RELEASE AND WAIVER OF CLAIM**

STATE OF \_\_\_\_\_ COUNTY OF \_\_\_\_\_

\_\_\_\_\_, of  
(Name) (Title)

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

The undersigned is authorized to execute this Affidavit, Release and Waiver of Claim on behalf of the Contractor and that he has personal knowledge of all facts set forth herein;

This Affidavit, Release and Waiver of Claim is made concerning the construction of the following;

Project: \_\_\_\_\_ Project No.: \_\_\_\_\_

All payrolls, material bills, sales tax, social security tax, state and federal unemployment insurance, and all other liabilities and taxes owed by the Contractor and arising in any manner from the above-described project have been paid in full;

No claim or lien exists in favor of any supplier of materials or labor or in favor of any subcontractor furnishing materials or labor on the above-described project;

Notwithstanding the foregoing, if the City of Belmont, or property of the City of Belmont, is subject to any claim or lien that arises in any manner from the failure of the Contractor to pay any liability described above, the Contractor will indemnify and hold the City of Belmont harmless for any amount that the City of Belmont is required to pay to discharge such lien or settle such claim and, further, will pay the City of Belmont's expenses, costs, and attorney fees incurred in connection therewith;

All claims, suits, and proceedings of every name, description, or nature arising out of the above project against the City of Belmont, its officers, employees, and agents have been settled;

The Contractor releases and waives any and all claims of every type and description that the Contractor may have against the City of Belmont arising in any manner from the construction of the above-described project.

By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

Sworn to and subscribed before me this \_\_\_\_\_ day of

\_\_\_\_\_, 20\_\_\_\_\_

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

My commission expires \_\_\_\_\_

**CONTRACTORS' AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS**

To: (Owner)

Contract For:

Project Name and Address:

Contract Date:

State of North Carolina  
County of

The undersigned hereby certifies that, except as listed below, he has paid in full or has otherwise satisfied all obligations for all materials and equipment furnished, for all work, labor, and services performed, for all sub-contractors services and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the Owner of his property might in any way be held responsible.

Exceptions:

Contractor:

Address:

By:

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

Notary Public:

My Commission Expires:

**STATE/COUNTY SALES/USE TAX STATEMENT**

**PROJECT:** \_\_\_\_\_

**CONTRACTOR/SUBCONTRACTOR:** \_\_\_\_\_

**PERIOD COVERED:** \_\_\_\_\_

Invoice No.	Invoice Date	Vendor's Name	Amount Before Taxes	NC Tax	County Tax	Total Invoice Amount	County Paid

I certify that the above-listed vendors were paid sales tax upon purchases of building material during the period covered by the construction estimate, and the property upon which such taxes were paid were, or will be, used in the performance of this Contract. The list above does not include any taxes paid on purchases of tangible personal property that does not annex to, affix to, or in some manner become a part of the project, building, structure or repairs.

Signed: \_\_\_\_\_ Title: \_\_\_\_\_

**AGREEMENT**

**AGREEMENT**

THIS CONTRACT, in four (4) copies, made and entered into this \_\_\_\_ day of \_\_\_\_\_, 2024, by and between the City of Belmont hereinafter designated as the Owner, and \_\_\_\_\_ hereinafter designated as the Contractor.

The City of Belmont agrees to pay the Contractor for services as follows:

<u>Item</u>	<u>Description</u>	<u>Amount</u>
1.	Total Base Bid Amount	\$ _____
2.	Contingency	\$ _____
3.	Purchase Order Amount	\$ _____

WITNESSETH: That the parties hereto, each in consideration of the Agreements on the part of the other herein contained, have mutually agreed and hereby mutually agree, the Owner for itself and its successors and the Contractor for itself, himself, or themselves and its successors, his or their executors, administrators and assigns as follows:

Article 1. DESCRIPTION. Under this Agreement and Contract the Contractor shall furnish all personnel, labor, equipment and all other items necessary to provide for and construct the **Council Dais Renovation Project** as set forth in the contract documents and to perform all the work called for and described in the Contract Documents dated February 1, 2024.

Article 2. In consideration of the payments to be made as hereinafter provided, and the performance of the Owner of all of the matters and things to be performed by the Owner and herein provided; the Contractor agrees, at his own sole cost and expense, to perform all the labor and services and to furnish all the labor and materials, plant and equipment necessary to complete, and to complete in good, substantial, workmanlike and approved manner, the work described under Article 1 hereof, within the time specified and in accordance with the terms, conditions and provisions of this Contract and with the instructions, orders and directions of the engineer made in accordance with this Contract.

Article 3. The Owner agrees to pay and the Contractor agrees to accept as full compensation for all work done, and materials furnished, and for materials, equipment and supplies sold, and also for all costs and expenses incurred, and loss or damages sustained by reason of the action of the elements, or growing out of the nature of the work, and for all risk of unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of every description connected with the work, and for all expenses incurred by, or in consequence of, the suspension or discontinuance of the work as herein specified, and for faithfully completing the work and the whole thereof as herein provided, and for maintaining the work in good condition until the final payment is made, the prices stipulated in the Bid hereto attached.

Article 4. The following documents shall constitute integral parts of the agreement, the whole to be collectively known and referred to as the Contract Documents: Invitation to Bid, Itemized Bid, Standard Provisions, Project Special Provisions, Contract Drawings, Addenda, Insurance certificate, contractor’s license, performance and payment bond, e-verify certification, and all interpretations of addenda to the Contract Documents issued by the Owner or the Engineer with the approval of the Owner.

Article 5. If the Contractor shall fail to comply with any of the terms, conditions, provisions or stipulations of this Contract, according to the true intent and meaning thereof, then the Owner may make use of any or all remedies provided in that behalf in the Contract and shall have the right and power to proceed in accordance with the provisions thereof.

IN WITNESS WHEREOF, the parties of this Agreement have hereunto set their hands and seals and have executed this Agreement, in four copies the day and year first above written.

CONTRACTOR:

ATTEST:

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

OWNER:

ATTEST:

City of Belmont

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

(Seal)

**E-VERIFY:**

CONTRACTOR shall comply with the requirements of Article 2 of Chapter 64 of the General Statutes.

Further if CONTRACTOR utilizes a subcontractor, CONTRACTOR shall require the subcontractor to comply with the requirements of Article 2 of Chapter 64 of the General Statutes.

\_\_\_\_\_  
Contractor – Print Name

\_\_\_\_\_  
Contractor – Signature

\_\_\_\_\_  
Date

**IRAN DIVESTMENT ACT CERTIFICATION:**

Contractor certifies that, as of the date listed below, it is not on the Final Divestment List as created by the State Treasurer pursuant to N.C.G.S. § 143-6A-4. In compliance with the requirements of the Iran Divestment Act and N.C.G.S. § 143C-6A-5(b), Contractor shall not utilize in the performance of the contract any subcontractor that is identified on the Final Divestment List.

**PRE-AUDIT:**

This instrument has been pre-audited in the manner required by the local Government Budget and Fiscal Control Act.

\_\_\_\_\_  
City of Belmont, NC

\_\_\_\_\_  
Date



**AGREEMENT  
(CERTIFICATE OF OWNER’S ATTORNEY)**

The undersigned as the duly authorized attorney for the Owner, does hereby certify that:

I have examined the Contract, the surety bond(s) and the policies or other evidence of insurance coverage, and in the manner of execution thereof. In my opinion said surety bonds and insurance coverage are in compliance with the Contract and are adequate in form, substance and amount to protect the various interests of the Owner in connection with the Contract. I am of further opinion that the Contract, the said surety bond(s) and policies or other evidence of insurance coverage have been duly executed by the proper parties thereto acting through their duly authorized representatives; that said representatives have full power and authority to execute said agreements on behalf of the respective parties named thereon; and that each of the aforementioned agreements constitutes valid and legally binding obligations upon the parties executing the same in accordance with the terms, conditions and provisions thereof.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Owner’s Attorney



A

Appendix A – Audio / Video  
Subconsultant Cash  
Allowance Proposal



# SOLUTIONZ

## Estimate

*Prepared for:*

### **City of Belmont**

### **City Council Multi Purpose Room AV Upgrade**

Yvette Broussard

1315 East Catawba St.

Belmont, NC 28012

**Revision: 3**

Date: May 30, 2023

*Prepared by:*

Tom Taylor | 704.319.7325

### **Solutionz, Inc.**

5100 Old Pineville Rd.

Charlotte, NC 28217

phone 704-527-9494 | fax 704-527-9495

Project Number: 2302497

Valid Until 6/13/2023

## **Solutionz, Inc.**

5100 Old Pineville Rd.  
Charlotte, NC 28217  
phone 704-527-9494 | fax 704-527-9495

## **City of Belmont**

1315 East Catawba St. | Belmont, NC 28012  
City Council Multi Purpose Room AV Upgrade  
May 30, 2023

Revision: 3

# **Statement of Functionality**

Budgetary Estimate based on functionality changes 08/29/2023

We will reuse all existing displays and mounts

We we use podium for local presentation

We will use OFE PC in current location for streaming and conferencing.

Other AV related gear to be decommissioned and turned over to City

Provide and install new video distribution maintaing the current set up of one image to all displays

Provide and install a limited number of wireless microphones- 2 Lavalier and 2 Handheld

provide and install 10 Push to Talk gooseneck microphones

Provide and install 18 recessed ceiling speakers in 1 controllable zone

Provide, install and program digital audio processors to manage audio routing and quality

Provide and install 24" monitors, mounts to Dias and Podium.

Provided and install HDMI Distribution amplfier and extender to feed image to all displays. All displays in space will get the same image- All HDMI patch cables will be included

Provide and install 2 PTZ cameras and controller to capture dias & audience

Install and program control sysem and touch panels to control system. Multiple panels for convenience

Commissioning, Testing , end user training

2-year full system warranty including remote monitoring and proactive alerts for system issues

**Solutionz, Inc.**  
 5100 Old Pineville Rd.  
 Charlotte, NC 28217  
 phone 704-527-9494 | fax 704-527-9495

**City of Belmont**  
 1315 East Catawba St. | Belmont, NC 28012  
 City Council Multi Purpose Room AV Upgrade  
 May 30, 2023

Project #: 2302497  
 Quote #: 042373  
 Revision: 3

**System:**  
**City Council MPR**

ITEM	BRAND	QTY	UNIT	MODEL	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	<b>VIDEO</b>						
2	OFE	10	EA	Misc A/V	OFE DISPLAYS & MOUNTS		
3	KRAMER	1	EA	VM-10H2	1:10 4K Distribution Amplifier-HDMI	\$1,159.00	\$1,159.00
4			EA				
5	KRAMER	2	EA	VM-218DTRX	2x1:8 4K UHD HDMI and HDBaseT Distribution Amplifier	\$4,998.00	\$9,996.00
6	Samsung	10	EA	QB24R-B	24" monitor for council and podium	\$458.00	\$4,580.00
7	Ergotron	10	EA	45-241-224	Articulating mounts for Dais	\$274.00	\$2,740.00
8	KRAMER	1	EA	TP-580TXR	HDMI over HDBaseT transmitter for Extended range	\$371.00	\$371.00
9	KRAMER	11	EA	TP-580RXR	HDMI over HDBaseT receiver for Extended range	\$371.00	\$4,081.00
	Icron Technologies	1	EA	2301	USB 2.0 Ranger 2301 - NA, 1-Port 100m Cat 5e/6/7 Extender System, 100-240V Power Adapter, NA Power Cord	\$360.00	\$360.00
10							
11	SnapOne	24	EA	B6-4K2-1	4K HDMI Cable For DA and wall Displays	\$15.19	\$364.56
12	SnapOne	4	EA	B6-4K2-2	4K HDMI 2M cable-Dais	\$22.84	\$91.36
13	SnapOne	2	EA	B6-4K2-3	4KHDMI 3M cable- Dais	\$32.00	\$64.00
14	SnapOne	2	EA	B6-4K2-4	4K HDMI 4M cable- Dais	\$40.00	\$80.00
15	SnapOne	2	EA	B6-4K2-5	4K HDMI cable - Dais	\$50.00	\$100.00
16			EA				
17	VADDIO	1	EA	999-60320-000	EasyIP Mixer System Global	\$2,499.00	\$2,499.00
18	VADDIO	2	EA	999-30230-000W	EasyIP 20 Camera-White	\$3,876.00	\$7,752.00
19	VADDIO	1	EA	535-2000-206	SUSPENDED CEILING PTZ CAMERA MOUNT	\$112.00	\$112.00
20	VADDIO	1	EA	535-2000-240W	THIN PROFILE WALL MOUNT ROBOSHOT WHITE	\$140.00	\$140.00
21			EA				
	Icron Technologies	1	EA	2301	USB 2.0 Ranger 2301 - NA, 1-Port 100m Cat 5e/6/7 Extender System, 100-240V Power Adapter, NA Power Cord	\$339.00	\$339.00
22							
23			EA				
24			EA				
25	<b>AUDIO</b>						
	BIAMP	1	EA	TesiraFORTE AVB VT	Fixed I/O DSP with 12 analog inputs, 8 analog outputs, 8 channels configurable USB audio, 128 x 128 channels of AVB, AEC technology (all 12 inputs), 2 channel VoIP, and standard FXO telephone interface	\$3,227.00	\$3,227.00
26							
27	Shure	11	EA	SHURE MX418D/C	GOOSENECK MICROPHONE 18" with table base, logic	\$342.00	\$3,762.00
28	BIAMP	1	EA	AMP-A460H	4 channel, 60W half-rack amplifier with mounting bracket	\$727.00	\$727.00
	BIAMP	18	EA	Desono CM60DTD	6.5" two-way thin edge design ceiling loudspeaker 100-70 volt / 60 watts, 16 ohms / 120 watts, white, front frame integrated neodymium magnets and back can (priced individually, but sold in pairs)	\$142.00	\$2,556.00
29							
30	Sennheiser	1	EA	508855	Wireless Microphone Receiver	\$2,890.00	\$2,890.00
31	Sennheiser	2	EA	508987	Charging bay	\$319.00	\$638.00
32	Sennheiser	2	EA	509211	Body pack/ Lavalier Microphone	\$679.00	\$1,358.00
33	Sennheiser	2	EA	505901	Handhed Wireless Microphone	\$702.00	\$1,404.00
34	<b>CONTROL</b>						
	BIAMP	1	EA	Impera Tango	The Impera Tango serves as a controller for Biamp keypad controls and touch panels	\$918.00	\$918.00
35							
36	BIAMP	2	EA	Apprimo Touch 10	Biamp Control Touch Panel	\$1,287.00	\$2,574.00
37	Global Cache	10	EA	IP2SL-P	Control module	\$158.00	\$1,580.00
38	Netgear	1	EA	Netgear-gsm4230px	Network Switch	\$1,819.00	\$1,819.00
39			EA				
40	Solutionz	1	EA	PC-IM-N-A-24	Two-Year parts and labor warranty with Remote monitoring	\$6,500.00	\$6,500.00
41	Solutionz	1	EA	OptixAV-24	Remote monitoring and Management of system	\$2,666.00	\$2,666.00
42			EA				
43	<b>CABLE CUBBY</b>						
	Extron	9	EA	60-1927-02	Cable Cubby 222 US - One US AC Outlet, 12 A Circuit Breaker, and 2 Outlets Under	\$334.00	\$3,006.00
44							
45	Extron	9	EA	60-1346-02	USB PowerPlate 200 AAP - Two Outlet USB Charger - AAP Version	\$147.00	\$1,323.00
46	Extron	9	EA	70-1043-01	Cable Cubby 202 AAP Bracket - Holds Two AAP™ AV Connectivity Modules	\$24.00	\$216.00
	Extron	9	EA	70-414-11	One RJ-45 Female to Punch Down - Single Space AAP - Black: One RJ-45 Female to Punch Down for CAT 6	\$39.00	\$351.00
47							
	Extron	9	EA	70-1080-03	CableCover - Small - Under-Table Cable Bag for Cable Cubby 100, 200, 202, 300, 500/500 CCB	\$100.00	\$900.00
48							
49	Solutionz	1	EA	PC-IM-N-A-24	Two-Year parts and labor warranty with Remote monitoring	\$5,400.00	\$5,400.00
50	Solutionz	1	EA	OptixAV-24	Remote monitoring and Management of system	\$1,866.00	\$1,866.00
51							
<b>Total Equipment</b>						<b>\$</b>	<b>80,509.92</b>

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 phone 704-527-9494 | fax 704-527-9495

**City of Belmont**  
 1315 East Catawba St. | Belmont, NC 28012  
 City Council Multi Purpose Room AV Upgrade  
 May 30, 2023

Project #: 2302497  
 Quote #: 042373  
 Revision: 3

**System:**  
**City Council MPR**

ITEM	BRAND	QTY	UNIT	MODEL	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
52	<b>Materials</b>						
53		1	Lot		Miscellaneous Parts & Hardware	\$ 539.00	\$ 539.00
54		1	Lot		Wire, Cable & Connectors	\$ 962.00	\$ 962.00
55					<b>Total Materials</b>	<b>\$</b>	<b>1,501.00</b>
56	<b>Services</b>						
65					<b>Total Services</b>		<b>\$38,120.00</b>
66							
67	<b>G&amp;A, Warranty and Freight</b>						
68		1.00			G&A	\$ 2,816.00	\$ 2,816.00
69					<b>Total G&amp;A</b>	<b>\$</b>	<b>2,816.00</b>
70							
71							
72							
73							
						<b>Sub Total</b>	<b>\$ 122,946.92</b>
						<b>Sales Tax (7.250%)</b>	<b>\$ 8,913.65</b>
						<b>System Total</b>	<b>\$ 131,860.57</b>

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1315 East Catawba St. | Belmont, NC 28012  
City Council Multi Purpose Room AV Upgrade  
May 30, 2023

Project #: 2302497

Quote #: 042373

Revision: 3

## Scope of Work



- 1     **Work by Solutionz, Inc.:**
- 2     Provide and Install AV Equipment in accordance with Specifications.
- 3     Furnish, Install, Terminate and Test all AV low voltage cable.
- 4     Setup, Adjust and Test AV Systems
- 5     Remove all Rubbish
- 6     Provide System Training
- 7
- 8     **Work by Others:**
- 9     Rough openings & core(s) drilling (if required).
- 10    Conduit, Rough-Ins and Back Boxes, unless otherwise specified.
- 11    Provide all 110 volt power & higher.
- 12    Painting, Patching and/or other related finish work.
- 13    Millwork.
- 14    Local and or Broadband Network Circuits & Connections.
- 15
- 16    **Clarifications & Exceptions:**
- 17    Pricing does NOT include Permits and Inspection. Unless Otherwise Specified.
- 18    Pricing does include Federal, State or Local Taxes.
- 19    Labor rates are based on Monday to Friday 1st Shift, Unless Otherwise specified.
- 20    Labor pricing is based on Open (Merit) Shop Rates.
- 21    This Estimate Includes Alternates and/or Options. The Total Price does NOT include any Alternates or Options.

## Terms and Conditions

1. ALL SALES ARE FINAL. Any subsequent design changes at the direction of the customer must be agreed upon in writing.
2. PAYMENT TERMS: Invoices are due and payable within 15 days of the invoice date (i.e. Net 15).
3. INVOICING TERMS: Customer to pay 100% in advance to initiate the order process.
4. EXPIRATION: The Estimate is valid for a period of Fourteen (14) days from issuance unless otherwise renewed in writing by Solutionz, Inc.. Solutionz reserves the right to revise or withdraw this Estimate prior to written acceptance by the Customer.
5. AGREEMENT: The prices and terms on this Estimate are not subject to verbal changes, verbal approvals or other verbal agreements. Any changes to prices, terms and conditions must be agreed upon in writing by both parties. Prices are based on market conditions existing on the date of this Estimate and Solutionz, Inc. may revise this Estimate as conditions change prior to final acceptance.
6. LABOR: All labor hours are based on regular working hours, Monday through Friday, 8:00AM-5:00PM. Any work outside of these hours will result in additional charges unless otherwise specified in the Estimate. In addition, all labor hours are based on continuous unrestricted access to the jobsite and facility where the work is to take place. Any access restrictions, interruptions, work stoppages or rescheduling of work not directly caused by Solutionz, Inc. will result in additional labor charges.
7. SALES TAX: Customer tax status may vary, therefore, all Solutionz, Inc. pricing is agreed to on a pre-tax basis. Taxes on Solutionz, Inc. Estimates are estimated as well. The actual amount and/or corrected amount of taxes are the customer's sole responsibility regardless of how taxes were presented in the signed Estimate. Any and all applicable taxes (e.g., Sales Tax, Use Tax, Value Added Tax) will be added to customer invoices pursuant to local laws.
8. FREIGHT, TAXES & TARIFFS: All freight is FOB Origin unless specified otherwise. Some items may drop ship directly to jobsite from the manufacturer. Unless specifically identified in a line item of this Estimate, import tariffs or other international shipping and freight charges are the customer's responsibility and are not included in this Estimate.
9. DEFAULT: Finance charges of 1.5% per month will apply after 15 days in default. Solutionz, Inc. may, at its discretion, turn past due accounts over to collections by an outside company. Customer agrees to pay all costs incurred including, but not limited to, collection fees of 25% of the past due amounts, court costs, and reasonable attorney fees.
10. PAYMENT PROCESSING FEES: Pricing herein was developed on a cash-basis, therefore, alternative payment methods (such as credit cards, bank cards, or other procurement programs that may reduce the net amount received by Solutionz, Inc. other than cash/check/ACH/wire will be assessed processing fees of 3% added to amount due. Not negotiable.
11. STORED GOODS: Customer will be invoiced for all equipment that is stored in a Solutionz, Inc. warehouse on behalf of customer. Storage fees of \$500/mo will apply for each pallet of customer equipment stored beyond 45 days
12. 90-DAY WARRANTY: 90-day warranty on workmanship includes all cabling, connections, and system installation from date of beneficial use. 90-day warranty on equipment includes all installed system equipment from date of first beneficial use. Manufacturers' warranties which extend beyond the 90 days will be honored on a carry-in basis. Any owner furnished equipment (OFE) is assumed to be in good working order. Owner furnished equipment is not covered under any Solutionz, Inc. warranty.

### Contract Amount: \$131,860.57 Base, Not Including Alternates

***I certify that I am authorized to sign this agreement on behalf of the company named below. I understand that ALL SALES ARE FINAL.***

To help us better manage your account, please provide the following information:

SIGNED AND AGREED TO BY:

ACCOUNTS PAYABLE CONTACT:

\_\_\_\_\_  
Company

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Email

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Phone

### **NOTICE TO CUSTOMER:**

By signing above or incorporating this Estimate (or Estimate number by reference) into a contract or purchase order, the Customer hereby acknowledges receipt of and agreement to comply with all terms outlined herein as well as Solutionz Terms & Conditions provided under separate cover. This Estimate, including any drawings, specifications, and designs are proprietary property of Solutionz and shall not be disclosed outside the Customer to whom it is addressed. This information shall not be duplicated, used or disclosed for any purpose other than to evaluate this proposal.

Please sign and return this document to me via email [ttaylor@solutionzinc.com](mailto:ttaylor@solutionzinc.com) and retain a signed copy for your records. If you have any questions, you can contact me directly at 704.319.7325



---

# INTEGRATED MAINTENANCE

**SOLUTIONZ**

**Prime Call**  
PROFESSIONAL SERVICES

Prepared For:  
**City of Belmont**  
1315 East Catawba St.  
Belmont, NC 28012  
Yvette Broussard  
Solutionz Quote: 042373

Prepared By:  
Tom Taylor  
**Solutionz, Inc.**  
5100 Old Pineville Rd.  
Charlotte, NC 28217  
phone 704-527-9494 | fax 704-527-9495  
**Prime Call Help Desk: 888.815.0322**

## 1. SERVICES

- a. SOLUTIONZ CONFERENCING, INC. ("Solutionz") will provide all telephone support and on-site repair and materials necessary for the Products to perform correctly in accordance with their warranties, specifications, user manuals, descriptions and/or other related documentation, and to timely resolve each problem or error in accordance with the terms of this Agreement (collectively, the "Services"). Although Solutionz will assist Customer problem resolution into the network and with external audio/video equipment, Solutionz has no responsibility for either network connectivity or external audio/video systems component failure, configuration changes, software compatibility, etc. nor does Solutionz have any responsibility for the performance of, or any charges or expenses associated with, network services or external audio/video equipment.

### **Toll Free Prime Call Help Desk Telephone Support**

1. The Solutionz Prime Call Help Desk is available 24x7 for telephone assistance (888-815-0322) regarding user questions, trouble ticket reporting, usage, or maintenance assistance. During times of high call volume, the customer may be asked to leave a voicemail. Solutionz guarantees that a helpdesk technician will respond to the voicemail within 30 minutes. Requests for assistance via email sent to helpdesk@solutionzinc.com will be acted upon by the Solutionz
2. Solutionz Prime Call Help Desk Technicians utilize trouble ticket tracking and database software for problem resolution and escalation procedures and will provide the Customer with a ticket number for reference. The Solutionz Prime Call Help Desk will continue to track and manage the resolution on the trouble ticket until the issue has been resolved and tested.
3. In the event of a network trouble issue, the Solutionz Prime Call Help Desk will provide coordination with network providers to promote rapid resolution of network issues. Solutionz will keep the ticket open, entering tracking and resolution information.

### **Equipment Coverage - (Accepted)**

1. Solutionz will remotely assist Customer in determining the defective part to be replaced. The process of dispatching an On-Site Field Engineer will begin with the Prime Call Help Desk Technician identifying the defective part or when remote troubleshooting fails to identify the defective part. (See "On-Site Field Engineer").
2. Solutionz will utilize advance replacement options for failed part replacement, subject to replacement part availability.
3. Replacement parts for Customer locations within the continental United States are shipped for delivery next business day following Solutionz' diagnosis of the failure. If outside the continental 48 United States, parts will be shipped for delivery within four business days. Solutionz is not responsible for delays due to customs or import procedures. A business day for all purposes of this Agreement ends at 4:00 p.m. Eastern Time, Monday through Friday, excluding Solutionz holidays. Each part will be equivalent or better in functionality and feature set to the part that it replaces. Notwithstanding the foregoing, display monitors are excluded and will ship by freight carrier to Customer location to reduce likelihood of damage during shipping.
4. Shipment of parts rely upon freight carrier's satisfaction of their delivery commitments. Solutionz will not be responsible for any failure to satisfy its service commitment as a result of a failure by a carrier to deliver parts by the committed time, whether due to acts of God, or other causes outside the reasonable control of Solutionz.
5. Customer, at Solutionz' expense and direction, must return failed parts, components or systems to Solutionz within ten (10) business days following the receipt of the applicable replacement. Replaced parts returned to Solutionz become the property of Solutionz. Solutionz may invoice Customer for any materials not returned within such a period.

### **On-Site Field Engineer - Unlimited Visits Annually**

1. If Prime Call Help Desk telephone troubleshooting (remote troubleshooting) and isolation procedures do not resolve the problem, the Solutionz Prime Call Help Desk will dispatch a Solutionz Field Engineer for replacement of suspected failed parts on the Products. The Field Engineer will be dispatched to the Customer location subject to the following:

- a. For Customer locations within a two hour radius of a Solutionz Office, or locations specifically listed in Exhibit A: In cases where replacement parts are not required or the faulty part cannot be determined remotely by a Prime Call Help Desk Technician, a Solutionz Technician will be dispatched to be on-site at the Customer's location on the next business day from the discontinuation of remote troubleshooting efforts.

In cases where remote troubleshooting has determined a replacement part(s) to be necessary, the Field Engineer will be on-site the next business day after the replacement part has been confirmed delivered to the Customer location.

- b. For Customer locations within the continental 48 United States and outside of a two hour radius from a Solutionz Office, or specifically listed in Exhibit B: In cases where replacement parts are not required or the faulty part cannot be determined remotely by a Prime Call Help Desk Technician, a Solutionz Technician will be dispatched to be on-site at the Customer's location within 3 business days from the discontinuation of remote troubleshooting efforts.

In cases where remote troubleshooting has determined a replacement part(s) to be necessary, dispatch of the Field Engineer will be subject to the arrival of the replacement part(s) in accordance with the following: Where the replacement part(s) is delivered the next business day, the Field Engineer will be on-site within three (3) days of the discontinuation of remote troubleshooting. Where shipping of the replacement part(s) takes three (3) business days or more, the Field Engineer will be on-site the next business day after the replacement part has been confirmed delivered to the Customer location.

- c. For Alaska and Hawaii: In cases where replacement parts are not required or the faulty part cannot be determined remotely by a Prime Call Help Desk Technician, a Solutionz Field Engineer will be dispatched to be on-site at the Customer's location within five (5) business days from the discontinuation of remote troubleshooting efforts. In cases where remote troubleshooting has determined a replacement part(s) to be necessary, dispatch of the Field Engineer will be subject to the arrival of the replacement part(s) in accordance with the following: Where the replacement part(s) is delivered the next business day, the Field Engineer will be on site within five (5) business days of the discontinuation of remote troubleshooting. In cases where shipping of the replacement part(s) takes five (5) business days or more, the Field Engineer will be on-site the next business day after the replacement part has been confirmed delivered to the Customer location.

2. If on-site replacement does not resolve the suspected trouble issue, Solutionz will remain on-site at no additional charge to further isolate and resolve the problem, as parts availability permits, if a Product is still suspected as its source. If Solutionz determines that no Product is such a source, the Solutionz Field Engineer shall, if requested by Customer, stay on-site to assist other vendors, network carriers or in-house wiring personnel at the quoted Time and Materials ("T&M") rates.

## **Annual Preventive Maintenance: Visits - None (Declined)**

### **Unlimited Craftsmanship Warranty**

1. Solutionz Conferencing warrants that, unless otherwise specified, all work under the contract shall be in accordance with the T&C. Solutionz Conferencing further warrants that all workmanship shall be of the highest quality and in accordance with the T&C and shall be performed by persons qualified at their respective trades.
2. Work not conforming to these warranties shall be considered defective.
3. This workmanship warranty is separate and independent from and in addition to any of the Solutionz's other guarantees or obligations in the T&C.

## 2. TERM

1. The term of this Agreement shall be Two (2) Years, starting on date of first beneficial use.

## 3. EXCLUDED SERVICES

**Services** do not include any of the following (“Excluded Services”):

1. Furniture;
2. Replacement of obsolete or End-of-Service Life equipment: Out-of-date equipment will be replaced with comparable technology. Programming changes, directly related to the replacement of the obsolete equipment, will be limited to a maximum of five (5) hours. Additional programming will be charged at the T&M Rate;
3. Electrical work external to the Products and/or in house cabling;
4. Repair of damage to or defects in the Products resulting from causes external to the Products, and outside the reasonable control of Solutionz, including but not limited to fire, accident, neglect by a party other than Solutionz, misuse, vandalism, water, lightning, “burn-in” on display screens, or failure of the installation site to conform to Solutionz’ applicable specifications; or resulting from any use of the Products for other than intended purposes; or resulting from the performance of maintenance or the attempted repair of a Product by a party other than Solutionz;
5. Furnishing disposable supplies or accessories, such as, but not limited to, projector bulbs, batteries, etc.;
6. Services in connection with the relocation of the Products, or the addition or removal of items of equipment or parts, attachments, features, or other devices not furnished by Solutionz, or the maintenance of alterations, attachments or other devices not furnished by Solutionz;
7. Damage, defects or service interruptions caused by Customer-provided networks or links;
8. Damage, defects, or service interruptions attributable to failures or deficiencies of performance by previous audio/video integration contractors and network carrier services.

## 4. FEES

- a. The fee for Solutionz’ provision of the Services (the “Fee”) shall be: Ten Thousand Five Hundred Twenty Dollars and No Cents (\$10,520.00), which shall be due and payable (i) with respect to the initial year of the term, upon execution of this Agreement and (ii) with respect to any subsequent year, prior to the commencement of such year.
- b. Solutionz shall have no obligation to provide any Services until such payment has been received.
- c. Fees charged hereunder do not include federal, state or local excise, sales, value added, use and other taxes now or hereafter levied or imposed on the Services or otherwise arising as a result of this Agreement. Customer shall pay such taxes in full unless it provides Solutionz with a tax exemption certificate acceptable in form to Solutionz.

## 5. CUSTOMER’S OBLIGATIONS

- a. Solutionz will have free and full access to the Products in order to provide Services. Customer must make the work area available to Solutionz Technicians for a minimum of eight (8) hours during normal business hours for on-site trouble resolution.
- b. Customer will provide adequate working space (including heat, light, ventilation, electric current and outlets) for the use of Solutionz’ maintenance personnel. These facilities shall be within a reasonable distance from the Products and shall be provided at no charge to Solutionz.

- c. For Customer rooms or hardware previously not covered by Prime Call Integrated Maintenance or for rooms previously covered, but expired, the Customer will be responsible for the cost of replacing equipment determined by Solutionz to have failed prior to the start of the Prime Call Integrated Maintenance service. Solutionz will dispatch a Technician and perform the work of replacing the equipment as one of the on-site service call visits under the Integrated Maintenance agreement. At such time as the room is deemed to be “fully functional” by a Solutionz Help Desk Technician, the Prime Call Integrated Maintenance service will be responsible for the replacement of failed parts as detailed in the Failed Parts Replacement procedure.

## **6. UNAUTHORIZED ALTERATION OF THE PRODUCTS**

If any person, other than a Solutionz Engineer or authorized service representative, alters any Product or the configuration thereof without prior consent of Solutionz' personal and such alteration prevents such Product from functioning properly, Solutionz will charge T&M rates for all work necessary to correct the resulting problem. Adjustments to Products made under the direction or supervision of Solutionz' personnel or authorized service representative do not constitute alterations for purposes of this section.



# B

## Appendix B – Technical Specifications





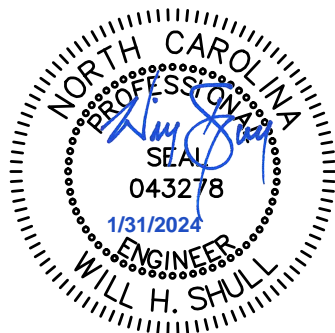
City of Belmont  
Council Dias Renovation Project

**Construction Documents  
Project Manual**

Issued for Bid

February 1, 2024

HDR Project No. 10385465



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ALL SPECIFICATIONS ARE LOCATED IN APPENDIX C - DRAWINGS, SHEETS A-002 – A-005

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- 01 14 15 - COORDINATION WITH OWNER'S OPERATIONS
- 01 25 12 - SUBSTITUTION PROCEDURES
- 01 26 13 - REQUESTS FOR INFORMATION (RFI)
- 01 33 00 - SUBMITTAL PROCEDURES
- 01 73 29 - CUTTING AND PATCHING
- 01 78 23 - OPERATION AND MAINTENANCE DATA

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- 09 29 00 - GYPSUM BOARD
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## **DIVISION 12 — FURNISHINGS**

- 12 36 63 - SOLID SURFACE FABRICATIONS





440 S Church Street, Suite 1200  
Charlotte, NC 28202-2075  
704.338.6700

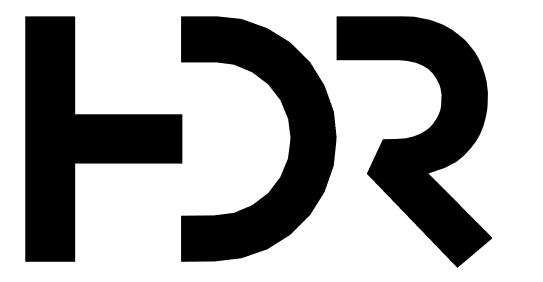
[hdrinc.com](http://hdrinc.com)



# C

## Appendix C – Drawings





Contract Drawings For

# CITY OF BELMONT COUNCIL DAIS RENOVATION

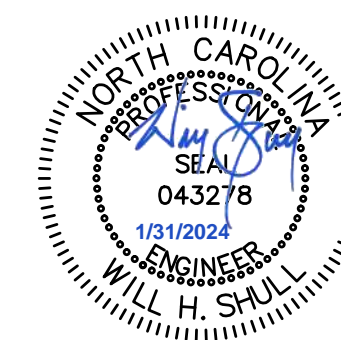
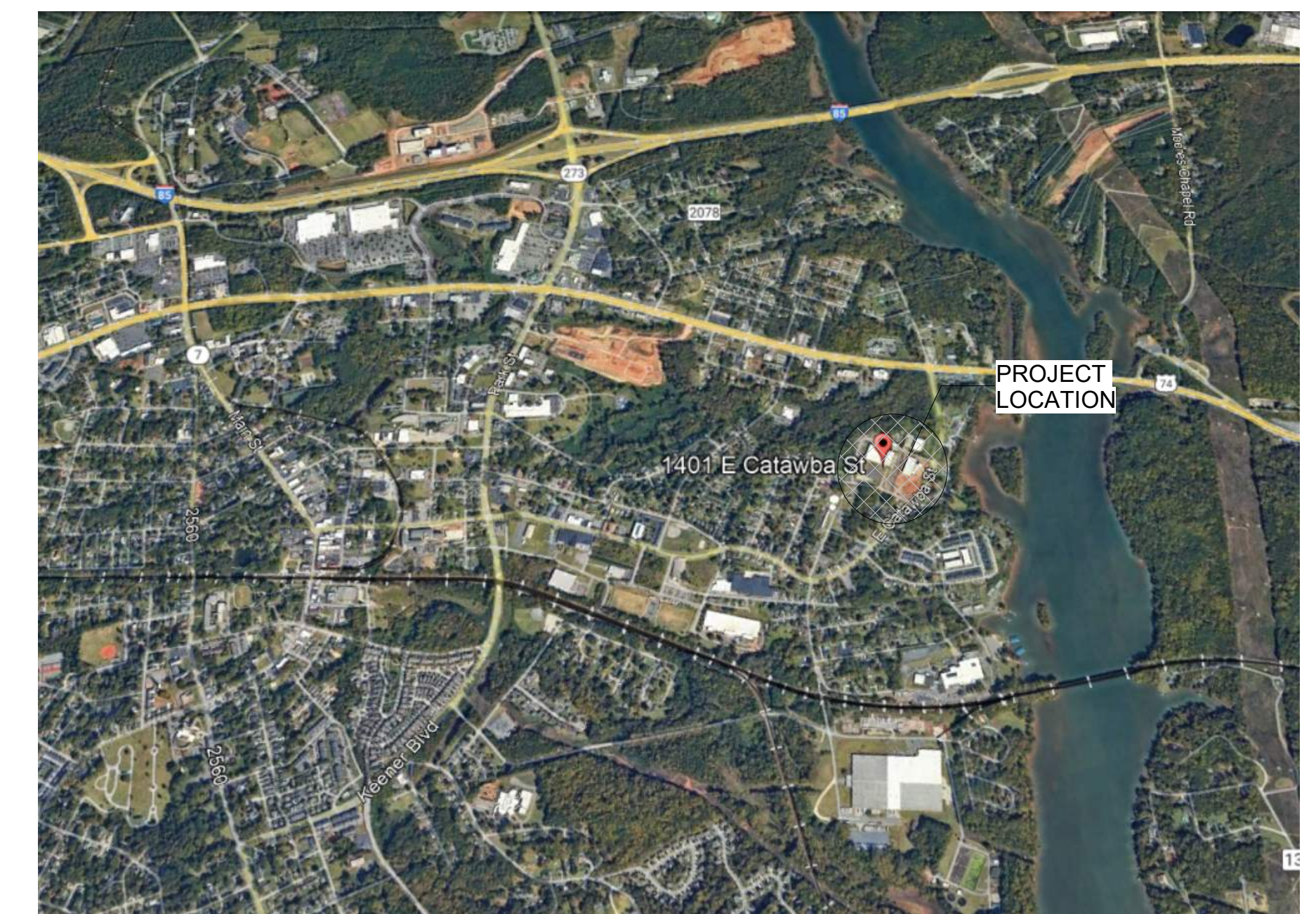
**ISSUED FOR BID**

Project No. 10385465  
1401 E CATAWBA ST, BELMONT, NC, 28012

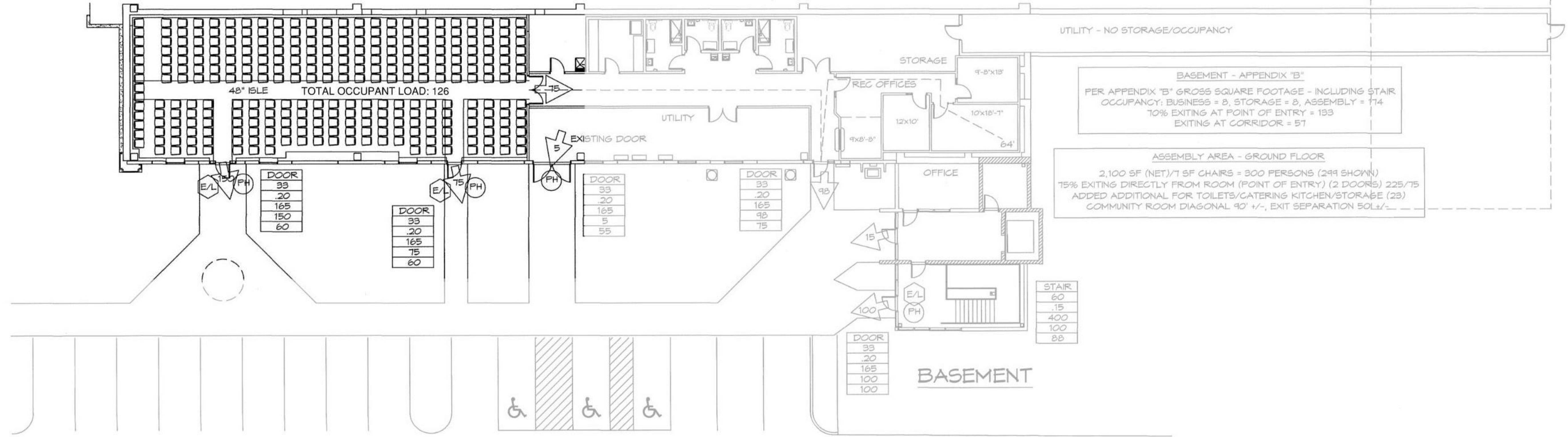
Date: FEBRUARY 2024

## INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME
G-001	COVER SHEET
G-002	LIFE SAFETY PLAN - BASEMENT
G-003	APPENDIX B
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A-003	SHEET SPECIFICATIONS
A-004	SHEET SPECIFICATIONS
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E-001	ELECTRICAL SYMBOLS AND LEGENDS
E-002	BASEMENT POWER FLOOR PLAN
E-003	COMMUNITY ROOM POWER FLOOR PLAN - ENLARGED



NOTE: EXISTING OCCUPANT LOADS AND EXISTING EXITING DOES NOT CHANGE AS PART OF THE SCOPE OF THIS PROJECT. LIFE SAFETY PLAN FOR REFERENCE ONLY.

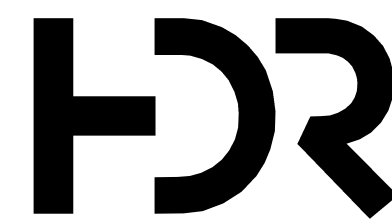


**A1 LIFE SAFETY PLAN - BASEMENT**

1 1/2" = 1'-0"

NOT TO SCALE

HDR Architecture, Inc.  
 440 S. Church Street, Suite 1200  
 Charlotte, NC 28202  
 704.338.6700  
 N.C. Board of Architecture License Number 50019

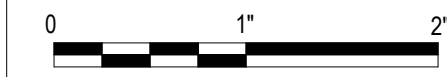


ISSUE	DATE	DESCRIPTION
	02/2024	ISSUED FOR BID

PROJECT MANAGER	WILL SHULL, PE
DESIGNED BY	J. TABOR
DRAWN BY	J. WILLIAMS / P. VELAZQUEZ
CHECKED BY	J. MARCYNIAK / J. HALLORAN
PROJECT NUMBER	10385465



**CITY OF BELMONT  
 COUNCIL DAIS  
 RENOVATION**



FILENAME  
 SCALE 1 1/2" = 1'-0"

SHEET  
**G-002**

2018 APPENDIX-B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

PROJECT INFORMATION:

Name of Project: BELMONT PUBLIC WORKS UTILITY- RENOVATIONS
Address: 1401 EAST CATAWBA STREET, BELMONT NC
Owner or Authorized Agent: CITY OF BELMONT
Phone # (704) 901-2067 E-Mail N/A
Owned By: City/County Private State
Code Enforcement Jurisdiction: City Belmont County Gaston State

Buildings descriptions and scope of work:
EXISTING BUILDING BASEMENT- The work associated with this project includes constructing a council dais in the existing City council chamber with associated electrical and audio/visual specialties, and a raised platform for the new dais to sit on. The electrical consists of two new circuits and a handful of receptacles. The A/V is a deferred design and includes monitors, speakers, data.

CONTACT:

Table with columns: DESIGNER, FIRM, NAME, LICENSE #, TELEPHONE #, E-MAIL. Lists contact information for various trades including Architectural, Civil, Electrical, Fire Alarm, Plumbing, Mechanical, etc.

2018 NC BUILDING CODE: New Building, Addition, Renovation
2018 NC EXISTING BUILDING CODE: Prescriptive, Repair, Chapter 14, Level I, Level II, Level III, Historic Property, Change of Use

BASIC BUILDING DATA (EXISTING-NO CHANGES REQUIRED)

Construction Type: I-A, II-A, III-A, IV, V-A, I-B, II-B, III-B, V-B
Sprinklers: No PARTIAL, Yes NFPA 13, NFPA 13R, NFPA 13D
Standpipes: No, Yes Class: I, II, III, Wet, Dry
Fire District: No, Yes
Flood Hazard Area: No, Yes
Special Inspections: No, Yes (Contact the local inspection jurisdiction for additional procedures and requirements)

GROSS BUILDING AREA TABLE (EXISTING-NO CHANGES REQUIRED)

Table with columns: FLOOR, EXISTING (SQ. FT.), NEW (SQ. FT.). Shows area for Basement Level (2,694 sq ft) and TOTAL (2,694 sq ft).

ALLOWABLE AREA (EXISTING-NO CHANGES REQUIRED)

Primary Occupancy Classification(s):
Assembly Business, Educational, Factory, Hazardous, Institutional, Mercantile, Residential Storage, Utility and Miscellaneous
Accessories Occupancy Classifications: N/A
Incidental Uses (T509): N/A
Special Uses (Ch 4 - List Code): N/A
Special Provisions (Ch 5 - List Code): N/A
Mixed Occupancy: No, Yes Separation: 0 Hr. Exception:

Table with columns: STORY NO, DESCRIPTION AND USE, (A) BLDG AREA PER STORY (ACTUAL), (B) TABLE 506.2\* AREA, (C) AREA FOR FRONTAGE INCREASE, (D) ALLOWABLE AREA PER STORY OR UNLIMITED. Shows Basement Level with area of 46,500.

\*Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F) N/A
b. Total Building Parameter = N/A(P)
c. Ratio (F/P) = N/A (F/P)
d. W = Minimum width of public way = N/A
e. Percent of frontage increase I = 100(F/P - 0.25) X w/30 = (%) N/A

ALLOWABLE HEIGHT (EXISTING-NO CHANGES REQUIRED)

Table with columns: ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE. Shows Building Height in Feet (T504.3) as 85'-0" and Building Height in Stories (T504.4) as 4.

1 Provide code reference if the "Shown on Plans" quantity is not based on T504.3 or 504.4.
2 The maximum height of air traffic control towers must comply with T412.3.1.
3 The maximum height of open parking garages must comply with T406.5.4.

FIRE PROTECTION REQUIREMENTS (EXISTING-NO CHANGES REQUIRED)

Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), REQ'D, RATING\*\* PROVIDED W/ REDUCTION, DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, DESIGN # FOR RATED PENETRATION, DESIGN # FOR RATED JOINTS. Lists requirements for structural frame, bearing walls, nonbearing walls, floor construction, etc.

\*Indicate section number permitting reduction.

PERCENTAGE OF WALL OPENING CALCULATIONS (EXISTING-NO CHANGES REQUIRED)

Table with columns: FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES, DEGREE OF OPENINGS PROTECTION (TABLE 705.8), ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%). Shows 30 or Greater with 15% allowable area.

LIFE SAFETY SYSTEM REQUIREMENTS (EXISTING-NO CHANGES REQUIRED)

Emergency Lighting: No, Yes
Exit Signs: No, Yes
Fire Alarm: No, Yes
Smoke Detection Systems: No, Yes
Carbon Monoxide Detection: No, Yes

LIFE SAFETY PLAN REQUIREMENTS (EXISTING-NO CHANGES REQUIRED)

Fire and/or smoke rated wall locations (Chapter 7)
Assumed and real property line locations (if not on the site plan)
Exterior wall opening area with respect to distance to assumed property lines (705.8)
Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
Occupant loads for each area
Exit access travel distances (1017)
Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
Dead end lengths (1020.4)
Clear exit widths for each exit door
Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
Actual occupant load for each exit door
A separate schematic plan indication where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
Location of doors with panic hardware (1010.1.10)
Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
Location of doors with electromagnetic egress locks (1010.1.9.9)
Location of doors equipped with hold-open devices
Location of emergency escape windows (1030)
The square footage of each fire area (202)
The square footage of each smoke compartment (407.5)
Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107) (EXISTING-NO CHANGES REQUIRED)

Table with columns: TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED.

ACCESSIBLE PARKING (SECTION 1106) (EXISTING-NO CHANGES REQUIRED)

Table with columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES REQUIRED, PROVIDED, # OF ACCESSIBLE SPACES PROVIDED (REGULAR WITH 5' ACCESS AISLE, VAN SPACES WITH 132" ACCESS AISLE, 8' ACCESS AISLE), TOTAL # ACCESSIBLE PROVIDED.

PLUMBING FIXTURE REQUIREMENTS (T2902.1) (EXISTING-NO CHANGES REQUIRED)

Table with columns: OCCUPANCY USE GROUP AND/OR SPACE DESIGNATION, WATERCLOSETS (MALE, FEMALE), URINALS, LAVATORIES (MALE, FEMALE), SHOWER/TUBS, DRINKING FOUNTAINS (REGULAR, ACCESSIBLE).

SPECIAL APPROVALS (If applicable to project) (EXISTING-NO CHANGES REQUIRED)

Special Approvals (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

ENERGY REQUIREMENTS: (EXISTING-NO CHANGES REQUIRED)

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No, Yes (The remainder of this section is not applicable)
Exempt Building: No, Yes (Provide code or statutory reference) See Note 1 Below.
Climate Zone: 3A, 4A, 5A
Method of Compliance: Energy Code, ASHRAE 90.1, Other
Performance, Prescriptive

THERMAL ENVELOPE: (Prescriptive method only)

Roofing/ceiling Assembly (each assembly)
Description of assembly
U-Value of total assembly
R-Value of insulation
Skylights in each assembly
U-Value of skylight
Total percentage of skylights in each assembly:
Exterior Walls (each assembly)
Description of assembly
U-Value of total assembly
R-Value of insulation
Openings (windows or doors with glazing)
U-Value of assembly
Solar heat gain coefficient
Projection factor
Low E required, if applicable
Door U-Values
Walls below grade (each assembly)
Description of assembly
U-Value of total assembly
R-Value of insulation
Floors over unconditioned space (each assembly)
Description of assembly
U-Value of total assembly
R-Value of insulation
Floors slab on grade
Description of assembly
U-Value of total assembly
R-Value of insulation
Horizontal/vertical requirement
Slab heated

STRUCTURAL DESIGN. SEE STRUCTURAL DRAWINGS

DESIGN LOADS:
Importance Factors: Snow (L), Seismic (L)
Live Loads: Roof, Mezzanine, Floor
Ground Snow Load:
Wind Load: Ultimate Wind Speed, Exposure Category
SEISMIC DESIGN CATEGORY: A, B, C, D
Risk Category: (Table 1604.5) I, II, III, IV
Spectral Response Acceleration: S, S
Site Classification: (ASCE 7) A, B, C, D, E, F
Data Source: Field Test, Presumptive, Historical Data
Basic structural system (check one): Bearing Wall, Building Frame, Moment Frame, Dual w/ Special Moment Frame, Dual w/ Intermediate R/C or Special Steel, Inverted Pendulum
Analysis Procedure: Simplified, Equivalent Lateral Force, Dynamic
Architectural, Mechanical, Components anchored? Yes, No

LATERAL DESIGN CONTROL: Earthquake (assumed, existing), Wind
SOIL BEARING CAPACITIES: Field Test (provide copy of test report as a referenced document), Presumptive Bearing capacity, Pile size, type, and capacity

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT. NOT APPLICABLE

Thermal Zone: N/A
Winter dry bulb, Summer dry/wet bulb, Interior Design Conditions, Building Heating Load, Building Cooling Load, Mechanical Space Conditioning System, Heating Efficiency, Cooling Efficiency, Heat output of Unit, Cooling output of Unit, Boiler, Chiller, List Equipment Efficiencies

ELECTRICAL SYSTEM AND EQUIPMENT. SEE ELECTRICAL DRAWINGS

Method of Compliance: Energy Code, ASHRAE 90.1, Lighting Schedule (each fixture type), Lamp type required in fixture, Number of Lamps in fixture, Ballast type used in the fixture, Number of Ballasts in fixture, Total wattage per fixture, Total interior wattage specified vs allowed, Total exterior wattage specified vs allowed
Additional Required Prescriptive Compliance: C406.2 More Efficient HVAC Equipment Performance, C406.3 Reduced Lighting Power Density, C406.4 Enhanced Digital Lighting Controls, C406.5 On-Site Renewable Energy, C406.6 Dedicated Outdoor Air System, C406.7 Reduced Energy Use in Service Water Heating

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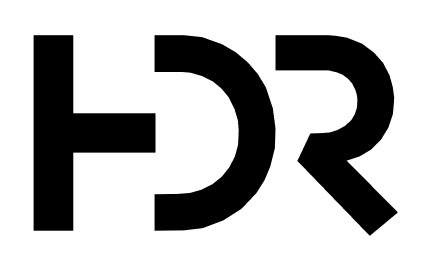


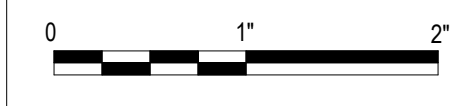
Table with columns: PROJECT MANAGER, DESIGNED BY, DRAWN BY, CHECKED BY, PROJECT NUMBER, ISSUE, DATE, DESCRIPTION. Lists project details and approval signatures.



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Charlotte, NC 28202
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N.C. Board of Architecture License Number 50019



CITY OF BELMONT
COUNCIL DAIS
RENOVATION



2018
APPENDIX B

FILENAME
SCALE 1/2" = 1'-0"

SHEET
G-003

**01 14 16 - COORDINATION WITH OCCUPANTS**  
**1.1 CONTRACTOR USE OF SITE AND PREMISES**  
 A. Limit operations and use of site to "Limits of Construction," and as required to perform Work.  
 B. Secure written approval of Owner to disturb portions of site beyond area of required Work.  
 1. Obtain written approval from Owner at least seven (7) calendar days in advance when scheduling Work outside limits of construction.  
 2. Provide Owner an estimate of time needed to perform Work outside limits of construction.  
 3. Cutting, capping, and reconnecting utility systems outside limits of construction shall be performed by Contractor, unless otherwise noted.  
 4. Conform to laws, ordinances, permits and regulations affecting Work on site.  
 5. Maintain existing roads, streets, drives, parking lots, entrances and provide fire exit ways clear and available at all times for their intended use.  
 a. Do not use these areas for parking, staging or storage without Owner's written approval.  
 b. Coordinate with Owner, and provide alternate routes for public and Owner access if normal routes are affected.  
 6. Do not encumber site with equipment, materials or vehicles.  
 7. Return improvements on, or about, site and adjacent property which are not shown to be altered, removed or otherwise changed; to conditions which existed previous to starting performance under Contract.  
 C. Use of Facilities:  
 1. Limit use and operation within existing facilities to areas indicated for construction Work and as required to perform Work.  
 2. Areas within facility shall not be disturbed or disrupted.  
 3. Do not interfere or inconvenience public, staff and Owner's operation.  
 4. Maintain and keep clear required fire exit ways throughout facility within and in vicinity of construction areas.  
 5. Coordinate alternate temporary egress routes with Owner and Local Fire Authority.  
 6. Do not load structure with weights that will endanger structure.  
 7. Smoking is prohibited within facilities and on Owner's property.  
 8. Audio devices and radios are prohibited, except two-way radios needed for Contractor's operations.  
 9. Limit use of two-way radios within occupied facilities, so not to disrupt occupants.  
 10. Use of toilet facilities, washrooms, and telephones within existing facility or occupied areas is not allowed without Owner's written approval.  
 11. Elevators in existing facility or within occupied areas of addition may not be used by construction personnel without Owner's written approval and such use shall meet following conditions:  
 a. Protect and maintain system and finishes during use.  
 b. Repair or replace damaged components of system and finishes.  
 c. Clean finishes.  
 12. Catering and dining areas may not be used by construction personnel without Owner's consent.  
 13. Clothing with derogatory depictions, language, or slogans which are racial or sexual in nature, shall not be worn on premises.  
 14. Clothing with depictions, language, or slogans regarding alcohol or drugs shall not be worn on premises.  
 15. Derogatory language or graphic display of artifacts which are racial, sexual or religious in nature, shall not be used on premises.  
 16. Coordinate construction operations to assure that operations are carried out with consideration given to conservation of energy, water, and materials.  
 17. Maintain existing building in weather tight condition throughout construction period.  
 18. Repair damage and leaks caused by construction operations.  
 19. Protect building and its occupants during construction period.  
 20. Keep noise to a minimum in construction operation and employ reasonable noise control measures during operations.  
 21. Jack hammers and other impact and loud noise-generating equipment will not be permitted within existing building without Owner's consent.  
**1.2 OWNER OCCUPANCY**  
 A. Owner will occupy existing building during life of this contract.  
 B. Carry out Work in a manner that does not impose hardship, danger, or inconvenience to public or staff.  
 C. Prior to commencement of Work, Contractor and Owner shall jointly survey construction site and surrounding areas, making permanent record of such existing damage as cracks, malfunctioning utility equipment and fixtures, or other similar damage.  
 1. This record shall serve as a basis for determination of subsequent damage to these structures and adjacent areas due to Contractor's operations.  
 D. Report damage to structures and adjacent areas not noted in original survey to Owner.  
**1.3 DISRUPTION OF EXISTING SERVICES**  
 A. Plan Work to minimize shutdown time of service.  
 B. Limit duration of disruptions of service to maximum of 4 HRS or as approved by Owner.  
 C. Fabricate and install interconnecting portions of these systems prior to shut down for final connections.  
 D. Maintain utilities or other service, indicated to be abandoned, in service or provide alternate means of service until new facilities are provided, tested, and put in operation.  
 E. Maintain fire protection and fire alarm systems operational within existing facilities.  
 F. Review existing conditions, drawings and other documents for proper coordination between new and existing construction.  
 G. Active utilities whose locations are unknown to Owner but suspected to exist.  
 1. Exercise caution of their existence. If encountered report to Owner for direction.  
 H. Repair or replace to original conditions damage to existing structures, utilities and other items caused by Contractor's operations at Contractor's expense.

**01 25 13 - SUBSTITUTION PROCEDURES AFTER EXECUTION OF CONTRACT**  
**1.1 SUBSTITUTION REQUESTS**  
 A. Only written requests with complete data for evaluation will be considered.  
 1. Submittal evaluation data with attached form to Architect.  
 2. Submittal in timely manner to allow Architect adequate time for evaluating, making recommendation, and for Owner approval.  
 B. Supplier, Subcontractor and Contractor in making substitution request, or in using an approved substitution, represent:  
 1. They have personally investigated proposed product, system or method, and has determined that it is equal or superior in all respects to that specified, and that it will perform intended function;  
 2. It is in full compliance with applicable code;  
 3. It will provide same warranty for substitute item as for product, system or method specified;  
 4. If a finish product, complies color wise and pattern wise with base specified items;  
 5. Will coordinate installation of accepted substitution into Work, to include building modifications if necessary, and be responsible for such modifications as may be required for Work to be complete and functional in all respects;  
 6. Certified cost data presented is complete and includes all related costs, excluding Architect's review and redesign cost;  
 7. Waive all claims for additional costs or time extensions related to substitution which subsequently become apparent or are caused by substitution;  
 8. Will pay additional costs to other trades, subcontractors or contracts caused by substitution;  
 9. Will pay all Architect's review and redesign cost, special inspections, and other costs caused by substitutions or revisions made necessary by the acts or omissions of Contractor, due to product substitution or product not being ordered in a timely manner, due to ease of construction progress or Work or which are in interest of or are for convenience of supplier, subcontractor or Contractor; responsibility of Contractor for substitutions or revisions made necessary by the acts or omissions of Contractor, requested due to product substitution or product not being ordered in a timely manner, requested to ease construction progress or Work, or which are in interest of or requests for convenience of supplier, subcontractor or Contractor;  
 10. acknowledge acceptance of these provisions.  
 C. Contractor sign Substitution Request in space provided on form acknowledging acceptance of terms.  
**1.2 SUBSTITUTION DATA**  
 A. Submit complete data substantiating compliance of proposed substitution with Contract Documents.  
 B. For products and systems:  
 1. Product identification, including manufacturer's name.  
 2. Repair or replace damaged components of system and finishes.  
 a. Product description.  
 b. Performance and test data.  
 c. Reference standards.  
 d. Difference in power demand, air quantities, etc.  
 e. Dimensional differences from specified.  
 3. Samples.  
 a. Architect reserves right to remain sample until physical units are installed on project for comparison purposes.  
 b. Requester pay all costs of furnishing and return of samples.  
 c. Owner and Architect are not responsible for loss of or damage to samples.  
 4. Name and address of at least five similar projects that proposed product has been in use for at least four years, and name and phone number of owner's and architect's or engineer's representative, which Owner or Architect can contact to discuss, product, installation, and field performance data.  
 C. For construction methods:  
 1. Detailed description of proposed system or method.  
 2. Illustrate with drawings.  
 D. Itemized comparison of proposed substitute to specified item; indicate variations.  
 E. Warranty comparison with specified product or system.  
 F. Effect and changes required on other trades, subcontractors or contracts.  
 G. Data relating to change in construction time.  
 H. Complete breakdown of costs, of proposed substitution that shall include additional costs or savings generated by proposed substitution and shall indicate amount, if any, to be deducted from Contract Sum if proposed substitution is accepted.  
 I. Include life cycle cost savings by product, system or assembly proposed, if applicable.  
 J. Availability of maintenance and repair services, and sources of repair or replacement items.

**01 33 00 - SUBMITTAL PROCEDURES**  
**1.1 SCHEDULE OF SUBMITTALS**  
 A. Complete Schedule of Submittals shall include Shop Drawings, Product Data, Samples, Project Information, and Contract Closeout Information required by specification section Submittal paragraphs.  
**1.2 SHOP DRAWINGS**  
 A. Submit high quality, hard copy of Shop Drawings in Portable Document Format (PDF).  
 1. Use Newforma Contract Management System (Newforma).  
**1.3 PRODUCT DATA**  
 A. Product Data Action Submittals are required as called for in each specification section Submittal paragraph.  
**1.4 SAMPLES**  
 A. Sample Action Submittals are required as called for in each applicable specification section Submittal paragraph.  
 B. When specific colors, textures, or patterns are not specified, submit samples from full range of manufacturer's standards for selection. When custom or standard finishes are specified, submit samples of specified colors, textures or patterns.  
**1.5 TRANSMITTAL**  
 A. Contractor is responsible for making submissions.  
 1. Electronic submittals shall be submitted utilizing web-based Newforma Contract Management System.  
 2. Samples and submittals which require hard copies, submit items to office of Architect.  
 B. Do not submit following:  
 1. Submittal of products, systems or manufactures not specified.  
 2. Submittal of substitution.  
 3. Large quantities of submittals at one time.  
**1.6 CONTRACTOR AND SUBCONTRACTOR ACTION**  
 A. Direct specific attention in writing with submittal or on submittal, indicating deviations from requirements of Contract Documents.  
 1. Contractor shall not be relieved of responsibility for any deviation from requirements of Contract Documents by Architect's approval of submittals unless,  
 a. Contractor has specifically informed Architect in writing of such deviation at time of submission, and  
 b. Architect has given written approval to specific deviation as a minor change in Work, or  
 c. Change Order or Construction Change Directive has been issued authorizing the deviation.  
 2. Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect's approval thereof.  
 3. Completed Work shall match appearance of approved samples and mock-ups.  
 B. Contractor is responsible for confirmation and correction of dimensions at Project site, for information that pertains solely to fabrication processes or to techniques of construction; and for coordination of work of trades.  
 C. Submittal to Architect indicates Contractor, Subcontractor represent they have:  
 1. Reviewed submittal for compliance with the Contract Documents and has approved submittal;  
 2. Determined and verified field measurements, and field construction criteria related thereof, or will do so;  
 3. Determined and verified quantities, materials, performance criteria, installation requirements, catalog numbers and similar data related thereto;  
 4. Determined substitutions have not been included;  
 5. Checked, determined, verified and coordinated information contained within such submittals with requirements of Work, Contract Documents and other submittals;  
 D. Resubmit items returned by Architect and marked "Revise and Resubmit" or "Not Approved" until approval is received.  
 1. Direct specific attention, in writing, or on resubmitted submittals to revisions other than those requested by Architect on previous submittals.  
 E. Contractor shall not be relieved from responsibility for coordination with other submittals or for errors or omissions in submittals by Architect's approval thereof.  
 F. Material lists and quantify information included in submittals are sole responsibility of Contractor.  
**1.7 ARCHITECT ACTION ON SUBMITTALS**  
 A. Architect's action on submittals:  
 1. "APPROVED": Submittal is in general conformance with the design concept of Project and in general compliance with information given in Contract Documents.  
 2. "APPROVED AS NOTED": Submittal has minor issues. Noted corrections must be made in final installation. Architect has option to require re-submission for record.  
 3. "REVISE AND RESUBMIT": Re-submission is required, due to nature or number of issues.  
 4. "NOT APPROVED": Submittal does not meet contract requirements or is not required to be submitted.  
 5. "NO ACTION REQUIRED BY ARCHITECT": Submittal not required, Project Information or Contract Closeout Information Submittal.  
 B. Items not submitted in accordance with provisions of this section may be returned, without review or action.

**01 26 13 - REQUESTS FOR INFORMATION (RFI)**  
**1.1 REQUESTS FOR INFORMATION**  
 A. Review of Contract Documents and Field Conditions:  
 1. Contract Documents are complementary. Before starting each portion of Work, Contractor shall carefully study and compare various Drawings, Specifications and other Contract Documents, coordination drawings, shop drawings, prior correspondence or documentation relative to that portion of Work, as well as information furnished by Owner.  
 2. Contractor and Subcontractors shall evaluate and take field measurements of conditions related to that portion of Work and shall disclose any conditions at site affecting it.  
 3. These obligations are for purpose of facilitating coordination and construction by Contractor and are not for purpose of discovering errors, omissions, or inconsistencies in Contract Documents.  
 4. Contractor and subcontractors acknowledge that all documents pertaining to Work has been examined, have examined character of site and any existing conditions, and are satisfied with nature of Work, and other matters which can affect Work.  
 5. In event of inconsistency between portions of Contract Documents or within Contract Documents; provide better quality or greater quantity of Work, and comply with more stringent requirement, either or both in accordance with Architect's interpretation.  
 6. Report errors, inconsistencies or omissions discovered in Contract Documents promptly to Architect as a properly prepared and timely RFI.  
 7. Contractor and Subcontractors are not required to ascertain Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, and rules and regulations, unless they bear upon construction means, methods, techniques or safety and health precautions, but the Contractor shall promptly report to Architect any nonconformity discovered by or made known to Contractor as a RFI.  
 8. On condition that Contractor or Subcontractor fail to give such notice, and knowingly proceeds with Work affected by errors or omissions in Contract Documents, Contractor shall correct any such errors, inconsistencies, or omissions at no additional cost.  
 9. Prior to bid, Contractor shall review existing facilities related to this contract and shall be familiar with utility requirements and construction.  
 a. Existing facility documents may be available through Owner for review.  
 b. Perform preliminary investigations as required to ascertain extent of Work.  
 c. Conditions which would be apparent by such investigation will not be allowed as cause for claims for extra costs.  
 B. RFI Submittal Process:  
 1. Process and submit RFIs to Architect by Contractor utilizing web based application, Newforma Contract Management System.  
 a. A unique user name and password will be assigned to Contractor for access to system, project data and submittal of RFI.  
 b. Employ systems RFI module to submit RFIs by Contractor.  
 c. Insert entire question or requested information in "Question" portion of system.  
 d. Electronic file of sketches, photos or other pertinent information may be uploaded with a RFI request in system to clarify request.  
 e. Submittal automatically receives current date stamp upon submittal of RFI in system.  
 f. To protect submittal data from being altered, "Question" portion of screen and submitted date cannot be changed once RFI has been submitted.  
 g. System will assign a unique RFI number in sequential order (1, 2, 3, 4, etc.).  
 h. In event previously submitted RFI request requires revision to provide additional information, initiate a new RFI.  
 i. New RFI shall be renumbered with previous submitted RFI succeeded by "1" to indicate revision one of RFI (i.e., RFI No. 34.1 for revision 1 to RFI No. 34).  
 2. Architect will respond to RFIs utilizing Newforma Contract Management System.  
 a. Architect may upload electronic files with RFI response in system to help clarify response.  
 b. Upon response to RFI by Architect, the current date will be automatically entered into system.  
 c. To protect responding data from being altered, "Answer" portion of screen and submitted date cannot be changed once RFI has been addressed.  
 3. After receipt of RFI response, the system can be accessed for RFI response, attachments and printing.  
 4. Status of RFIs submitted and data regarding RFIs may be viewed or printed from system.  
 5. RFIs and a variety of different RFI summaries, and filtered reports may be generated, viewed, or printed from system.

**01 73 29 - CUTTING AND PATCHING**  
**1.1 DESCRIPTION**  
 A. This section covers cut and patch work either in remodel, add-on or new construction as necessary for execution of the Work.  
 B. Do not cut into or cut away structural concrete, other concrete or other structural members nor dig under foundations or into structural walls or other parts, or in any case allow same to be done without full knowledge and written consent of Architect.  
**1.2 SUBMITTALS**  
 A. Shop Drawings:  
 1. Provide dimensioned drawings showing position and size of sleeves and openings in relation to structural grid of building, equipment, and other assemblies.  
**1.3 PREPARATION PRIOR TO CUTTING**  
 A. Provide shoring, bracing and support to maintain structural integrity.  
 B. Provide protection for other affected portions of Project.  
 C. Provide protection from elements when required.  
 D. Existing Utility Services and Mechanical/Electrical Systems:  
 1. Bypass existing utility services and building systems to be removed, relocated, or abandoned, before cutting to prevent interruption to occupied areas.  
 E. Maintain excavations free of water.  
**1.4 CUTTING AND REMOVAL - GENERAL**  
 A. Execute fitting and adjustment to provide finished installation to comply with specified tolerances and finishes.  
 B. Excavate cutting with methods to avoid damage of existing or other Work and provide surfaces to receive installation of new Work.  
 C. Perform backfilling as specified in applicable sections.  
 D. Neatly cut and remove materials, and prepare openings to receive new work.  
 E. Remove masonry or concrete in small sections.  
 F. Provide shoring, bracing, and other supports to prevent movement, settlement, or collapse of remaining or adjacent wall areas, structure, or facilities.  
 G. Arrange shoring, bracing, and supports to prevent overloading of structure.  
 H. Exercise precaution to prevent damage to existing remaining work or to adjacent facilities.  
 I. Execute Work using methods which will prevent interference with of remaining and adjacent facilities by Owner.  
 J. Remove existing work indicated to be removed, or as necessary for installation of new Work.  
 K. Provide for cutting, fitting, repairing, patching and finishing of Work disturbed by installation of new Work.  
 L. Do not remove or damage fireproofing materials.  
 1. Install handrails, inserts, supports, and anchors prior to installation of fireproofing.  
 2. Repair or replace damaged fireproofing.  
**1.5 CUTTING IN POST-TENSIONED CONCRETE CONSTRUCTION**  
 A. Do not cut into nor core drill openings or holes in beams or joists.  
 B. Do not cut into nor core drill openings or holes in slabs without prior written approval of Architect.  
 C. Openings not greater than 6 IN in any dimension are permitted in flat slab portions of construction except that such openings shall not interfere with or disturb strands.  
 1. Do not place closer than 12 IN to any column face, or closer than 24 IN to any post-tensioning strand anchor.  
 D. Do not install any trepanned duct electrical systems.  
**1.6 CUTTING IN PRECAST/PRESTRESSED CONCRETE CONSTRUCTION**  
 A. Do not cut openings nor core drill vertically nor horizontally through stems of members.  
 B. Openings smaller than 6 IN diameter or 6 IN maximum dimension may be cut in flanges of units after obtaining prior written approval of Architect.  
 C. When openings are cut into metal decks having cast-in-place concrete slab over metal deck:  
 1. No reinforcing of holes is required for circular openings or sleeves up to 6 IN diameter and for rectangular openings having no side dimension greater than 6 IN.  
 2. Reinforce openings between 6 IN and 12 IN, with 20 GA flat steel sheet 12 IN greater in dimension than opening, fusion welded to top surface of deck at each corner and on each side midway between corners.  
 3. Do not cut openings greater than 12 IN without prior written approval of Architect.  
 D. When openings are cut into metal roof decks that have no concrete cast-in-place (except lightweight insulating cementitious roof fill) over deck:  
 1. No reinforcing of holes is required for circular openings less than 6 IN diameter and for rectangular openings having no side dimension greater than 6 IN.  
 2. Reinforce openings between 6 IN and 12 IN, with 20 GA flat steel sheet 12 IN greater in dimension than opening, fusion welded to top surface of deck at each corner and on each side midway between corners.  
 3. Do not cut openings greater than 12 IN without prior written approval of Architect.  
**1.7 MATCHING AND PATCHING**  
 A. Where items are removed from existing walls, ceilings, floors or partitions to remain, repair wall, ceiling, floor or partition disturbed by removal.  
 B. Where walls, ceilings, floors or partitions are removed, repair abutting walls, ceilings or floors disturbed by removal.  
 C. Where existing construction is cut, removed or otherwise disturbed by partial installation of new Work, match and patch existing disturbed construction.  
 D. Install new products to provide completed Work in accordance with requirements of Contract Documents.  
 E. Use methods and materials similar in appearance, and equal in quality to areas or surfaces being repaired.  
 F. Patch Work to match existing work and adjacent surfaces.  
 G. Remove and replace existing ceilings and finishes for installation of Work, if not shown to be removed on Architectural Drawings and Schedules.  
 1. If existing ceiling cannot be satisfactorily reinstated, replace with like materials and construction.

**01 77 00 - CLOSOUT PROCEDURES (GC)**  
**1.1 SUBMITTALS**  
 A. Contract Closeout Information:  
 1. For substantial completion:  
 a. Comprehensive list of all items to be completed or corrected.  
 b. Contractor's Notice of Substantial Completion.  
 c. Certificates of governing authorities.  
 d. Submittals required by other Sections.  
 2. For final completion:  
 a. Contractor's Certificate of Completion.  
 b. Evidence of payments and release or waiver of liens in triplicate.  
 1) Contractor's Affidavit of Payments of Debts and Claims: AIA Document G706.  
 2) Contractor's Affidavit of Release of Liens: AIA Document G706A.  
 3) Contractor's release or waiver of liens.  
 4) Separate releases or waivers of liens for subcontractors, suppliers, and others with lien rights against Owner, together with list of all such parties.  
 5) I required by Owner, other data establishing payment or satisfaction of obligations arising out of Contract.  
 c. Consent of Surety to Final Payment: AIA Document G707.  
 d. Certificates evidencing that insurance to remain in force.  
 e. Final application for payment.  
 B. Obtain evidence of compliance with requirements of governing authorities:  
 1. Certificates of inspection of:  
 a. Mechanical.  
 b. Electrical.  
 c. Plumbing.  
 d. Fire protection and life safety systems.  
 e. Elevators.  
 f. Etc.  
 2. Health Department and other governing authorities as required.  
 3. Certificate of Occupancy.  
 4. Work performed under this contract has been thoroughly inspected and considered to be sufficiently complete, in accordance with Contract Documents, so Owner can occupy or utilize Work for its intended use.  
 C. Contractor shall proceed promptly to complete and correct the items on list.  
 D. After receipt of Contractor's comprehensive list of items to be completed or corrected, and Contractor's Notice of Substantial Completion, Architect and Owner will, within reasonable period after notification, review list of items to be completed or corrected, or impacted Work, or disrupted portion thereof, of to determine what Work is Substantially Complete.\*  
 E. When Work or designated portion thereof is considered Substantially Complete, Architect will prepare a Certificate of Substantial Completion.  
**1.2 FINAL COMPLETION**  
 A. Contractor submit final closeout submittals required by this and other Sections.  
 B. Substantial Completion or Final Completion is delayed through no fault of Owner or Architect, Architect may invoice Owner as a change in services for such costs, and associated travel costs. Contractor shall reimburse the Owner for such costs.  
**01 77 01 - CLOSOUT PROCEDURES (CM)**  
**1.1 SUBMITTALS**  
 A. Contract Closeout Information:  
 1. For substantial completion:  
 a. Comprehensive list of all items to be completed or corrected.  
 b. Contractor's Notice of Substantial Completion.  
 c. Certificates of governing authorities.  
 d. Submittals required by other Sections.  
 2. For final completion:  
 a. Contractor's Certificate of Completion.  
 b. Evidence of payments and release or waiver of liens in triplicate.  
 1) Contractor's Affidavit of Payments of Debts and Claims: AIA Document G706.  
 2) Contractor's Affidavit of Release of Liens: AIA Document G706A.  
 3) Contractor's release or waiver of liens.  
 4) Separate releases or waivers of liens for subcontractors, suppliers, and others with lien rights against Owner, together with list of all such parties.  
 5) I required by Owner, other data establishing payment or satisfaction of obligations arising out of Contract.  
 c. Consent of Surety to Final Payment: AIA Document G707.  
 d. Certificates evidencing that insurance to remain in force.  
 e. Final application for payment.  
 B. Obtain evidence of compliance with requirements of governing authorities:  
 1. Certificates of inspection of:  
 a. Mechanical.  
 b. Electrical.  
 c. Plumbing.  
 d. Fire protection and life safety systems.  
 e. Elevators.  
 f. Etc.  
 2. Health Department and other governing authorities as required.  
 3. Certificate of Occupancy.  
 C. Construction Manager certify that:  
 1. Work performed under this Contract has been thoroughly inspected and considered to be sufficiently complete, in accordance with Contract Documents, so Owner can occupy or utilize Work for its intended use.  
 D. Contractor shall proceed promptly to complete and correct the items on the list.  
 E. After receipt of Contractor's comprehensive list of items to be completed or corrected, and Contractor's Notice of Substantial Completion, Construction Manager will inspect Work and review list(s) of items to be completed or corrected, or determine if Work can be considered to be Substantially Complete.  
 F. If Construction Manager prematurely submits a Contractor's Notice of Substantial Completion or requests Architect's review of Work, and Architect determines that Project or designated portion thereof is not Substantially Complete, Architect may invoice Owner as a change in services for such cost involved in evaluating and repairing Work, and associated travel costs. Construction Manager shall reimburse Owner for such costs.  
 G. When Work or designated portion thereof is considered Substantially Complete, Architect will prepare a Certificate of Substantial Completion.  
 H. Construction Manager shall submit to Architect:  
 1. Contractor's Certificate of Completion (utilize form at end of this Section).  
 2. List(s) of items which were to be completed or corrected, with each item initialed to indicate Construction Manager has verified completion or correction of each.  
 I. Construction Manager certifies that:  
 1. Work has been thoroughly inspected by Construction Manager and Contractors for compliance with Contract Documents.  
 2. Work has been completed in accordance with Contract Documents.  
 3. Equipment and systems have been tested and are operating satisfactorily.  
 4. Contract closeout requirements have been completed satisfactorily and submitted.  
 5. Contractor knows of no reason that insurance will not be recoverable to cover period required by Contract Documents.  
 6. Work is ready for final inspection and acceptance.  
 J. If Substantial Completion or Final Completion is delayed through no fault of Owner or Architect, Architect may invoice Owner as a change in services for such costs, and associated travel costs. Contractor shall reimburse Owner for such cost.  
**01 78 23 - OPERATION AND MAINTENANCE DATA**  
**1.1 OPERATION AND MAINTENANCE MANUALS**  
 A. Assemble data indicated and data required to completely describe operation and maintenance procedures.  
 B. Assemble information in form of a multiple file composite electronic PDF file for each manual type required.  
 1. Index files by specification section, with each item clearly labeled.  
 2. Identify each volume with Project name and contents.  
 3. Identify each item in manner consistent with names and identification numbers used in Contract Documents, not with manufacturer's catalog numbers.  
 4. Where applicable, clearly and update reviewed manual content to correspond to revisions and field conditions.  
 C. Use electronic files prepared by manufacturer where available.  
 1. Scan paper documents and configure scanned file for minimum readable file size.  
 D. Include each item on Table of Contents.

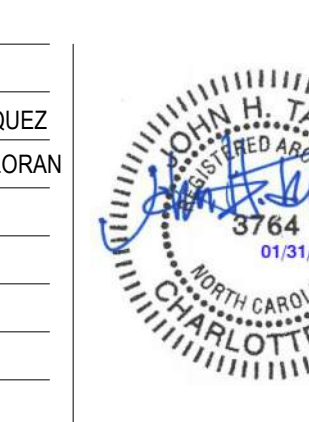
**02 41 00 - DEMOLITION**  
**GENERAL**  
**1.1 SUMMARY**  
 A. Furnish labor, materials, tools, equipment, and services for Demolition, as indicated, in accordance with provisions of Contract Documents.  
**1.2 QUALITY ASSURANCE**  
 B. Completely coordinate with work of other trades.  
 C. Conduct work in accordance with OSHA and EPA requirements.  
 D. National Fire Protection Association (NFPA):  
 1. NFPA 241 Standards for Safeguarding Construction, Alteration, and Demolition Operations.  
 E. Design, engineering, and construction of shoring, bracing and supports are responsibility of Contractor.  
 1. Employ a Registered Engineer, licensed to practice structural engineering in state in which project is located.  
 2. Design to support dead, live, and lateral, wind and seismic loads required by code or as otherwise indicated, along with construction loads during demolition until permanent construction is in place.  
**1.3 DESCRIPTION**  
 A. Work Includes:  
 1. Demolition of designated structures.  
 2. Removal of demolition debris.  
 3. Protection of construction to remain, including:  
 a. Utilities.  
 b. Other items indicated.  
 B. Condition of Existing Structures to be Demolished:  
 1. Owner assumes no responsibility for actual condition of structures to be demolished.  
 2. Owner will maintain building conditions existing at time of inspection for bidding purposes insofar as practicable.  
 C. Stairwells:  
 1. Maintain in operable condition and available for use by fire department.  
 2. Do not demolish stairwells more than one floor below fire demolished.  
**1.4 JOB CONDITIONS**  
 A. Perform preliminary investigations to ascertain extent of work.  
 1. Conditions apparent by investigation shall not be allowed as claim for extra cost.  
 B. Obtain and pay for permits required by authorities having jurisdiction and notify interested utilities companies prior to commencement of activities.  
 C. Obtain approval of authorities having jurisdiction for work affecting existing means of egress.  
 1. Review with and obtain approval of authorities for working construction which affects such areas.  
 2. Obtain approval of fire authorities.  
 D. Separate, store and dispose of hazardous materials and toxic wastes in accordance with local and EPA regulations and criteria listed below.  
 1. Disposal of fluorescent light tubes in open containers is not permitted.  
 2. Disposal of ballasts and other building elements containing PCBs in open containers is not permitted.  
 3. Disposal of building elements containing mercury in open containers is not permitted.  
**PART 2 - PRODUCTS - NOT USED**  
**PART 3 - EXECUTION**  
**3.1 GENERAL DEMOLITION PROCEDURES**  
 A. Items Designated for Re-use:  
 1. Remove, tag, protect from damage, store and deliver to locations designated.  
 2. Brace motors attached to flexible mountings until reinstallation.  
 B. Demolition of Structures:  
 1. Demolish completely and remove from site.  
 2. Use such methods as required to complete work within limitations of governing regulations.  
 3. Coordinate with Owner and other utility suppliers for shut-off of utilities serving each building.  
 4. Disconnect and seal utilities before commencement of demolition.  
 C. Structural Demolition:  
 1. Demolish concrete and masonry in small sections.  
 2. Perform removal to avoid excessive loads on supporting walls, floors or framing.  
 D. Existing Utilities to Remain:  
 1. Keep in service and protect against damage during demolition.  
 2. Do not interrupt existing utilities serving occupied or facilities in use, except as authorized by Owner.  
 3. Provide temporary services during interruptions to existing utilities, as applicable to Owner.  
 E. Conduct operations to ensure minimum interference with roads, walks, entrances, exits, and adjacent facilities.  
 1. Do not close or obstruct private drives, walks or other facilities unless approved in writing.  
 2. Do not close or obstruct exits from existing facilities or obstruct public thoroughfares and walks without approval of authorities having jurisdiction.  
 3. Provide alternate routes around closed or obstructed traffic ways.  
 F. Provide covered passageways to ensure safe passage of persons in or near areas of work.  
 G. Provide barricades and safety lights as required.  
**3.2 PROTECTION OF FACILITIES TO REMAIN**  
 A. Protect Property to Remain:  
 1. Conduct operations to prevent damage by falling debris or other cause to adjacent buildings, structures, and other facilities as well as persons.  
 2. Provide interior and exterior shoring, bracing, or support to prevent movement, settlement or collapse of structures.  
 B. Protect occupants from injury and discomfort.  
 C. Provide temporary dustproof partitions between demolition areas and occupied areas.  
 1. In public areas use clean, painted 1/2 IN thick plywood.  
 2. Utilize fire rated construction where required by Authorities Having Jurisdiction.  
 D. Provide temporary weather protection and insulation to prevent damage to existing facilities and discomfort to persons in occupied areas.  
 1. Insulation value: RSI 3.5 R 19.  
**3.3 ITEMS SALVAGED FOR OWNER**  
 A. Remove salvage items at appropriate stage of demolition, but early enough to prevent damage to them by demolition operations:  
 1. Coordinate with Owner items Owner wishes to save.  
 B. Remove salvage items as a unit:  
 1. Clean, list, and tag for storage.  
 2. Protect from damage.  
 3. Salvage each item with auxiliary or associated equipment required for operation.  
 4. Store in an area designated within building.  
**3.4 ITEMS SALVAGED FOR CONTRACTOR**  
 A. Items of salvage value to Contractor may be removed from structure as work progresses.  
 B. Transport salvaged items from site as they are removed.  
 C. Storage or sale of removed items not permitted on site.  
**CLEAN-UP AND DISPOSAL OF DEMOLITION MATERIALS**  
 A. Remove debris, rubbish, and materials resulting from demolition operations.  
 1. Remove and legally dispose of off-site.  
 2. Do not burn materials on site.  
 B. Dispose of items and materials not designated for Owner salvage or reuse.  
 1. Promptly remove from site.  
 2. Do not store or sell Contractor salvaged items or materials on site.  
 C. Clean adjacent structures and improvements of dust, dirt, and debris caused by demolition operations.  
 D. Return adjacent areas to condition existing prior to start of work.  
 E. END OF SECTION

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ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER	WILL SHULL, PE
DESIGNED BY	J. TABOR
DRAWN BY	J. WILLIAMS / P. VELAZQUEZ
CHECKED BY	J. MARCYNIAK / J. HALLORAN
PROJECT NUMBER	10385465



**CITY OF BELMONT COUNCIL DAIS RENOVATION**

**SHEET SPECIFICATIONS**

HDR Architecture, Inc.  
 440 S. Church Street, Suite 1200  
 Charlotte, NC 28202  
 704.338.6700  
 N.C. Board of Architecture License Number 50019



FILENAME SCALE

**03 54 16 - SELF-LEVELING UNDERLAYMENT**

**1.1 SUMMARY**

A. Furnish labor, materials, tools, equipment, and services for Self-Leveling Underlayment, as indicated, in accordance with provisions of Contract Documents.

B. Completely coordinate with work of other trades.

1. American Welding Society (AWS):

a. ANSI/AWS C1.1M/C1.1 Recommended Practices for Resistance Welding

b. ANSI/AWS D11 Structural Welding Code - Steel

c. ANSI/AWS D13 Structural Welding Code - Sheet Steel

2. National Association of Architectural Metals Manufacturers (NAAMM):

a. Class 1, Architectural, per NAAMM AMP-555, Code of Standard Practice for the Architectural Industry.

**1.2 QUALITY ASSURANCE**

Use mixing equipment, tools and techniques approved by underlayment manufacturer.

A. ASTM International (ASTM):

1. ASTM C109 Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)

2. ASTM C150 Standard Specification for Portland Cement

**1.3 SUBMITTALS**

A. Product Data.

**PART 2 - PRODUCTS**

**2.1 MANUFACTURERS**

A. Self-Leveling Underlayment:

1. Base:

a. Ardex Engineered Cements.

2. Optional:

a. ProSpec (Bosnal)

b. Dayton-Superior

c. Laticrete

d. Summerville Tile

e. BASF Master Builders Solutions.

f. US Mix Products Company.

B. Other manufacturers desiring approval comply with Section 00 20 00.

**2.2 MATERIALS**

A. Self-Leveling Underlayment:

1. Portland Cement-based, self-leveling underlayment.

2. Minimum Portland cement content: 80 PCT.

3. Minimum Compressive Strength, modified, air cure only:

a. 2530 PSI after 1 day.

b. 4100 PSI after 28 days.

B. Primers:

1. Use manufacturers recommended primer suitable for substrate condition.

2. For use with standard, absorbent concrete.

3. For use with non-porous subfloors, cutback and non-water soluble adhesive residues, metal, and wooden subfloors.

C. Additives:

1. Base Product: E-25 Resilient Emulsion by Ardex.

D. Aggregate, where applicable:

1. Well graded, washed granular.

2. Minimum Size: 1/8 to 1/4 IN.

E. Water:

1. Clean, potable, and sufficiently cool not warmer than at 70 DEG F.

**2.3 MIX DESIGNS**

A. General:

1. Specific mixture ratios listed in following pertain to Base Product, specific amounts of ingredients may vary for Optional Products.

2. Proportions listed below pertain to Base Product.

3. Follow mixing recommendations provided by supplier of product being used.

B. Standard Mix:

1. Follow manufacturer's instructions for mixing and proportioning.

2. Utilize 7 QT water for every 55 LBS bag.

3. Mix thoroughly for approximately 2-3 minutes to obtain a lump-free mixture.

C. Aggregate Mix:

1. Add to Standard Mix where 1-1/2 IN. or greater, underlayment is installed.

2. Mix cementitious materials with water and add 1/3 to 1 part by volume of aggregate.

3. Do not use sand.

D. Mixes for Pumping:

1. Follow manufacturer's instructions.

2. Do not overwater.

3. Check consistency of product on floor to ensure a uniform distribution of aggregate at both top and bottom of pour.

4. Conditions during installation, such as variations in water, powder, substrate, and ambient temperature, require water setting be monitored and adjusted to avoid overwatering.

**PART 3 - EXECUTION**

**3.1 PREPARATION**

A. Verify substrates are sound, clean, free of oil, waxes and sealers, grease, curing compounds, paints, adhesive residues rust and foreign matter.

B. Correct substrates with moisture or other conditions affecting performance of underlayment or finished floor covering.

C. Concrete Substrates:

1. Mechanically clean using shot blasting or other.

2. Do not use acids and the use of sweeping compounds and solvents are not acceptable.

D. Joint Preparation:

1. Moving Joints:

a. Extend expansion and isolation joints through underlayment.

2. Saw Cuts and Control Joints:

a. Fill non-moving joints with products recommended by manufacturer of underlayment.

b. Base Product: SD-F Feather Finish or SD-P InstantPatch by Ardex.

E. Priming:

1. Use manufacturers recommended primer suitable for substrate.

2. Underlayment shall not be applied until the primer is dry.

**3.2 APPLICATION OF UNDERLAYMENT**

A. Minimum thickness:

1. 1/8 IN over highest point in substrate.

2. Do not exceed maximum thickness allowed by product used.

B. Pour or pump self-leveling underlayment and spread in place.

C. Smooth to featheredge and match existing elevations.

**3.3 PROTECTION**

A. Prior to installation of finish flooring, protect surface of underlayment from abuse by suitable protection course.

**END OF SECTION**

**05 00 00 - MISCELLANEOUS METAL FABRICATIONS**

**1.1 SUMMARY**

A. Furnish labor, materials, tools, equipment, and services for Miscellaneous Metal Fabrications, as indicated, in accordance with provisions of Contract Documents.

B. Completely coordinate with work of other trades.

1. American Welding Society (AWS):

a. ANSI/AWS C1.1M/C1.1 Recommended Practices for Resistance Welding

b. ANSI/AWS D11 Structural Welding Code - Steel

c. ANSI/AWS D13 Structural Welding Code - Sheet Steel

2. National Association of Architectural Metals Manufacturers (NAAMM):

a. Class 1, Architectural, per NAAMM AMP-555, Code of Standard Practice for the Architectural Industry.

**1.2 SUBMITTALS**

A. Shop Drawings:

1. Plans and elevations showing members and connections.

2. Anchors and accessory items.

B. Project Information:

1. Submit concurrent with Shop Drawings.

**1.3 MATERIALS**

A. Structural Steel:

1. steel shapes and plate: ASTM A36.

2. Pipe: ASTM A53 Grade B.

3. Tubing: ASTM A500, Grade B, 46KSI minimum.

B. Cast Steel:

1. ASTM A27, Grade-65-35; and ASTM A148, Grade-80-50.

C. Steel Formings:

1. ASTM A568.

D. Bolts:

1. ASTM A307, ASTM A325, ASTM A354.

E. Filler Metal:

1. AWS Standards.

F. Aluminum:

1. ASTM B308 for particular alloy in standard shapes and extrusions.

2. ASTM B26 for castings.

G. Stainless Steel:

1. ASTM A494 and ASTM A276.

2. Concealed: Type 302 or Type 304.

H. Masonry Anchorage Devices:

1. Standard manufactured items.

2. Lead expansion shields for machine screws and bolts 1/4 IN 6 MM and smaller: Head out embedded nut type.

3. For machine screws and bolts larger than 1/4 IN 6 MM: Manufacturer's standard.

4. Bolt anchor expansion shields for lag bolts: Zinc alloy, long shank anchors.

5. Bolt anchor expansion shields for bolts: Closed end bottom bearing type.

6. Anchor to embed or set device in setting compound or epoxy grout where shown.

I. Fasteners:

1. Selected fasteners for type, grade and class required

2. Bolts and Nuts: Regular hexagon head ASTM A307, Grade A

3. Lag Bolts: Square or octagonal head type

4. Machine Screws: Capitan plated steel

5. Wood Screws: Flat head carbon steel

6. Plain Washers: Round carbon steel

7. Lock Washers: Helical spring carbon steel

**1.4 FABRICATION**

A. General:

1. Form to shapes indicated with straight lines, sharp angles, and smooth curves.

2. Proportions listed below pertain to Base Product.

3. Follow mixing recommendations provided by supplier of product being used.

B. Standard Mix:

1. Follow manufacturer's instructions for mixing and proportioning.

2. Utilize 7 QT water for every 55 LBS bag.

3. Mix thoroughly for approximately 2-3 minutes to obtain a lump-free mixture.

C. Aggregate Mix:

1. Add to Standard Mix where 1-1/2 IN. or greater, underlayment is installed.

2. Mix cementitious materials with water and add 1/3 to 1 part by volume of aggregate.

3. Do not use sand.

D. Mixes for Pumping:

1. Follow manufacturer's instructions.

2. Do not overwater.

3. Check consistency of product on floor to ensure a uniform distribution of aggregate at both top and bottom of pour.

4. Conditions during installation, such as variations in water, powder, substrate, and ambient temperature, require water setting be monitored and adjusted to avoid overwatering.

**1.5 FINISHES**

A. Items not to receive coatings:

1. Surfaces scheduled to be fireproofed with spray-on material.

2. Machined surfaces.

3. Surfaces adjacent to field welds.

4. Contact surfaces of bolt connections at slip connections.

5. Top flanges of beams to receive shear connections.

6. Items for which no coating or field finish is specified.

B. Shop Primer for Interior Non-Vet Items:

1. Primer: Coordinate with field applied finish systems specified in Section 09 91 23.

2. Apply primer for interior finish paint to following surfaces not receiving other coating:

a. Surfaces exposed on interior.

3. Clean thoroughly before priming, remove mill scale, rust, dirt, oil, and grease in accordance with SSPC-SP3.

4. Apply in accordance with paint manufacturer's instructions.

a. Apply minimum 0.002 IN 0.05 MM, dry film thickness.

C. Steel Support Angles, Support Frames, and Loose Lintel Steel Members:

1. ASTM A36 steel; sizes and configurations as indicated.

D. Stainless Steel Trim:

1. Fabricate from type 304, 16 gauge sheet in profile shown.

2. Grain to match long dimension of trim unless shown otherwise.

3. Finish exposed edges to match face.

4. Supply in pieces as large as possible within limits of fabrication and installation.

5. Shop fabricate to field verified conditions.

E. Miscellaneous Equipment Supports:

1. ASTM A36 steel. Sizes and configurations as indicated.

2. Examples of items included:

a. Supports for Folding Partitions, Operable Walls, Coiling Doors and Grilles.

b. Ceiling hung toilet partitions.

c. Other miscellaneous support items as indicated.

3. Items to be hot dipped galvanized:

a. Items to be permanently exposed to weather, high-humidity, or wet conditions.

b. Items to be painted.

4. Shop Prime interior items (in non-wet areas).

F. Shower Seal Support:

1. Conceal in framed walls.

2. Vertical steel channels with welded steel plate.

3. Anchor channels to floor and structure above with steel angles.

4. Provide stainless steel sleeves at each bolt that attach shower seat to support bracket in wall

a. Extend past finish face of wall 1/8 IN 3 MM.

5. Components:

a. C3 x 6 cold formed steel channel.

b. Brace with horizontal channel at 96 IN 2 4 M AFF.

c. Steel plate: 24 x 20 x 3/8 IN 610 x 510 x 10 MM.

d. Weld to steel channels with top of plate at 20 IN 500 MM AFF.

e. Steel angles: 3 x 3 x 1/4 x 2 IN 75 x 75 x 6 x 75 MM.

f. Stainless steel sleeves: 3/8 IN 10 MM diameter.

g. Expansion bolts with 3-1/2 IN 90 MM embedment.

**1.6 INSTALLATION**

A. General:

1. Set work level, true to line, plumb.

2. Weld field connections and grind smooth.

3. Conceal fastenings where practical.

4. Secure metal to wood with lag screws of adequate size with appropriate washers.

5. Secure metal to concrete with embedded anchors, setting compounds, caulking and sleeves, or setting grout.

a. Use expansion bolts, toggle bolts, or screws for light duty service.

6. Meet structural requirements for erecting items of structural nature.

7. Do not field splice fabricated items unless size requires splicing.

8. Weld splices.

9. Provide fabricated items complete with attachment devices as required to install.

B. Stainless Steel Base:

1. Install pieces full length between corners and door frames up to 12 FT 3.66 M long.

2. Butt joint at interior corners.

3. Brake for continuous corners and locate joints 24 IN 600 MM from corner minimum.

4. Attach to wall with adhesive.

**1.7 TOUCH-UP AND REPAIR**

A. Verify installations are neat and flush in appearance, and that there are no burrs, projections, or defects on exposed surfaces that might snag fingers or clothing. Correct deficiencies.

B. Touch-up damage to powder coat finishes in manner satisfactory to Architect.

**06 10 00 - ROUGH CARPENTRY**

**1.1 QUALITY ASSURANCE**

A. Lumber Grading Rules and Species:

1. US Department of Commerce (DOC):

a. PS 20 American Softwood Lumber Standard.

2. Western Wood Products Association (WWPA).

3. Southern Forest Products Association (SFPA).

B. Plywood Grading Rules and Recommendations:

1. US Department of Commerce (DOC):

a. Softwood plywood: PS1 Structural Plywood.

2. American Plywood Association (APA).

C. Preservative and Fire Retardant Treatment Standards:

1. American Wood Protection Association (AWPA):

a. AWPA U1 Treated Wood.

b. AWPA P5 Standard for Waterborne Preservatives.

D. Factory Marking:

1. Identify type, grade, moisture content, inspection species, producing mill, and other qualities.

2. Mark each piece of fire retardant treated material with Underwriters Laboratory Classification mark and fire-retardant treatment for identification.

3. International Building Code (IBC): Requirements for identification and labeling.

**1.2 MATERIALS**

A. Dimensional Lumber and Plywood:

1. Thoroughly seasoned, non-treated, well-fabricated materials.

2. Longest practical lengths and sizes.

3. Application, except where treated types are indicated:

a. Non-structural framing, blocking, backing, nailers, grounds, and similar members.

b. Other locations where indicated.

B. Fire-retardant Treated Lumber and Plywood (FRT):

1. Flame spread index: Less than 25.

2. Smoke developed index: Less than 450.

3. Free of halogens, sulfates, chlorides, arsenic, ammonium phosphate, formaldehyde, and urea formaldehyde.

4. Kilo dried after treatment (KDAT).

5. FRT material for interior and above grade locations:

1) Wood in concealed spaces.

2) Plywood backing panels for electrical, telecommunication equipment.

**1.3 FASTENERS**

A. General:

1. Provide fasteners of size and type indicated that comply with requirements specified for material and manufacturer.

B. Nails, Brads, and Staples: ASTM F1667.

C. Power-Driven Fasteners: NES NER-272.

D. Wood Screws: ASME B18.8.1.

E. Lag Bolts: ASME B18.2.1.

F. Bolts: ASTM A307, Grade A steel bolts with ASTM A563 hex nuts and washers.

G. Expansion Anchors:

1. Tested in accordance with ASTM E488.

2. Anchor bolt and sleeve assembly:

a. Masonry assemblies: Sustain load equal to 6 times load imposed when installed in unit.

b. Concrete assemblies: Sustain load equal to 4 times load imposed when installed in unit.

3. Interiors applications:

a. Carbon-steel components.

b. Zinc plated to comply with ASTM B633, Class Fe/Zn 5.

**1.4 INSTALLATION OF ROUGH CARPENTRY**

A. Form to shapes indicated.

B. Cut and fit accurately.

C. Set work to required levels and lines, plumb and true.

D. Shim as required.

E. Provide wood grounds or nailers as required for attachment of other work and surface applied items.

F. Grounds:

1. Dressed, key beveled lumber.

2. Minimum 1-1/2 IN 38 MM wide x thickness required to bring face of ground even with finish material.

3. Remove temporary grounds when no longer required.

G. Wall Blocking:

1. Provide in-wall fire-treated wood blocking reinforcement where following items are required to be wall-mounted to interior walls:

a. Architectural casework, millwork, cabinets, shelving, wardrobes, and bookcases.

b. Handrails at stairwells.

c. Between studs at height of door stop, behind stop.

2. Metal wall backing:

a. See Section 09 16.

H. Anchor work to support applied loading.

1. Provide washers under bolt heads and nuts.

2. Fasten plywood in accordance with APA recommendations.

3. Use fasteners of size that will not penetrate members where opposite side will be exposed to view.

4. Pre-drill holes to avoid splitting wood with fasteners.

5. Do not drive threaded friction type fasteners.

**1.5 INSTALLATION OF FIRE RETARDANT TREATED WOOD**

A. Fire retardant treated lumber and plywood used in structural applications shall be applied according to lumber and plywood strength tables provided by manufacturer.

B. Use only fasteners approved by the manufacturer of fire retardant treated or preservative treated wood.

C. Field Cuts:

1. Dimensional Lumber: Do not rip or mill fire retardant treated lumber.

a. Cross cuts, joining cuts, and drilling holes are permitted.

2. Plywood: Fire retardant treated plywood may be cut in any direction.

3. Field treat cuts and holes in preservative and fire retardant treated material in accordance with AWPA M4.

**06 20 00 - FINISH CARPENTRY**

**1.1 QUALITY ASSURANCE**

A. Architectural Woodwork Standards (AWS), Premium Grade:

B. American National Standards Institute (ANSI):

1. ANSI Z98.1 Particleboard

2. ANSI Z98.2 Medium Density Fiberboard (MDF) For Interior Applications

**1.2 SUBMITTALS**

A. Shop Drawings: Show materials, component profiles, fastening methods, jointing details, and accessories.

B. Product Data: Cabinet Hardware & Closet Hardware.

**1.3 MATERIALS**

A. Lumber:

1. AWS Premium grade suitable for transparent or opaque finish as indicated.

2. Moisture content: between 5 and 10 PCT.

3. S4S.

B. Wood Milling:

1. Kilo dried.

2. In accordance with Architectural Woodwork Standards requirements for its use and Grade specified.

C. Sheet Materials:

1. Manufactured without urea formaldehyde resins.

2. Softwood plywood:

a. Determine types, grades, water/proof or water-resistive construction, and thickness by purpose and according to Guide to Plywood Grades under Product Standard PS1, except as indicated.

b. Exposed faces, interior: Veneer Grade Ponderosa Pine.

3. Hardwood faced panels:

a. MDF panel substrate.

b. Phenolic or paper face over surface to have veneer applied.

4. Medium-density fiberboard (MDF):

a. Grade 230.

5. Particleboard:

a. Medium density, Grade M-2

b. Density: 45 LBS/FT3 720 kg/m3.

**1.4 HARDWARE**

A. Fasteners, Bolts, Nuts, Washers, Lags, Pins and Screws:

1. Of size and type to suit application, except where specific types are shown.

B. Closet Hardware:

1. Chrome plated steel with matching end and intermediate supports.

**1.5 SHOP FABRICATION**

A. Prepare woodwork to receive items specified in other Sections through use of templates.

B. Apply plastic laminate finish or full uninterrupted sheets consistent with manufactured sizes.

1. Fit corners and joints hairline; secure with concealed fasteners.

C. Apply laminate backing sheet to reverse face of plastic laminate finished surfaces.

D. Shelving:

1. 3/4 IN 19 MM thick sheet material with 3/8 x 3/4 IN 10 MM x 20 MM continuous hardwood edging.

a. Particleboard, type M-3.

b. Hardwood Face Veneer Plywood.

Support at 3 FT 900 MM center maximum.

E. When necessary to cut and fit on site, provide materials with ample allowance for cutting.

1. Provide trim for scrubbing and site cutting.

**1.6 FINISHING**

A. Field applied transparent or opaque paint finish, including but not limited to shelving; wood stairs and handrails, cascade openings, door and window frames; standing and running trim.

B. Finish in accordance with AWS System Section 5, System-9, UV Curable, Acrylicated Epoxy, Polyester or Urethane, Green Guard certified; Premium grade.

C. Sand surfaces smooth and set exposed nails and screws.

D. Apply wood filler in exposed nail and screw indentations.

E. On items to receive transparent finishes, use wood filler to match surrounding surfaces and of types recommended for applied finishes.

F. Finish to color and sheen selected.

G. Seal, stain and varnish exposed and semi-concealed surfaces.

**PART 2 - EXECUTION**

**2.1 PREPARATION**

A. Examine conditions under which work is to be installed.

B. Verify measurements, dimensions, and drawing details before proceeding.

C. Coordinate location of furring, nailers, blocking, grounds and similar supports for attached work.

D. Installation indicates acceptance of substrates and responsibility for performance.

**2.2 INSTALLATION**

A. Install work plumb, level, securely in place, and with tightly fitted joints.

B. Scribe work abutting other surfaces.

1. Maximum gap: 1/32 IN 0.08 MM.

2. Do not use additional overlay trim.

C. For wall mounted components, use concealed attachments.

D. Countersink anchors and conceal with solid plugs. Finish flush with adjacent surfaces.

E. Use blind nailing where practicable.

F. Where face nailing is required, set and fill with putty. Finish work smooth.

G. Copie trim and moldings at returns and interior angles, and miter at external corners.

H. Maintain reveals and exposed panel terminating edges in constant line and width.

I. Stagger, conceal, or space joints in inconspicuous locations.

J. Minimize joints by using maximum length lumber available.

**2.3 PREPARATION FOR FINISH**

A. Set nails.

B. Fill holes.

C. Sand smooth before application of finishes.

D. Leave ready for finishing.

**2.4 ADJUST AND CLEAN**

A. After installation, adjust operating parts.

B. Install temporary coverings to protect installed work.

**06 42 00 - WOOD PANELING**

**1.1 QUALITY ASSURANCE**

1. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials: Minimum Class A.

B. Architectural Woodwork Institute (AWI):

1. AWI Architectural Woodwork Standards, Grade: Premium.

C. Mock Up:

1. Erect section of wall panels.

a. Obtain Architect's acceptance of visual qualities as well as materials and workmanship.

b. Protect and maintain approved mock-up as standard for balance of the work.

c. Approved mock up may be part of permanent installation.

**1.2 SUBMITTALS**

A. Shop Drawings:

1. Show fabrication and erection of each condition for architectural woodwork, including plans and elevations.

2. Show fitch matching, jointing, grain direction, identification number for each leaf, anchorage and accessory items, finishes, framing and bracing members.

a. Identification number shall include the fitch and the sequence within fitch for each leaf.

B. Samples:

1. Fabricated samples: Minimum 8 x 10 IN 200 x 250 MM sample of veneered panel fabricated with a minimum of one veneer fitch match.

C. Project Information:

1. Certification of fire-retardant treatment including name of fire-retardant salts used, compliance with applicable building code requirements and with AWPA Spec C278 for plywood, and that treatment will not bleed through or attack flint finish.

**1.3 MATERIALS**

A. Mounting Clips: Concealed devices with mating edges; used to secure of panels to substrate.

B. Veneer: Type S00A Aluminum.

2. Permit installation of panels without exposed fasteners.

3. Limit lateral movement in direction perpendicular to plane of substrate.

4. Permit movement parallel to plane of wall.

B. Fasteners: Type, size, material and finish as recommended by manufacturer.

**1.4 FABRICATION**

A. Verify dimensions by accurate field measurement before fabrication wherever work adjoins other work that proceeds it in construction.

B. Do not erect or install paneling in areas until completion of work by other trades that might damage or disfigure the woodwork.

C. Spaces to receive installed woodwork shall be conditioned for a minimum of 48 HRS within usage temperature and humidity ranges prior to commencing work and continuing to completion of installation.

D. Wood Paneling shall be constructed in accordance with dimensions and design indicated.

E. Tolerances on overall assembly dimensions shall comply with the applicable AWI standards.

F. Workmanship:

1. Work shall be fabricated and rigidly assembled.

2. Provide reinforcing to ensure a rigid and secure assembly.

3. Exposed surfaces shall be free from dents, toll marks, warpage, buckle, glue and open joints.

4. Joints, corners and miter shall be accurately fitted.

5. Threaded connections shall be drawn lightly so that the threads are entirely concealed.

G. Fastening:

1. Attachment of panels to walls: By concealed mounting clips.

2. Except where otherwise indicated, the methods of assembly and joining shall be in accordance with AWI standards.

3. Manufacturer's proven methods that produce the required standards of workmanship shall be used.

4. Conceal fastenings wherever possible.

H. Veneered Surfaces:

1. Face veneers shall be glued by the hot press method, and glued surfaces shall be in close contact throughout.

2. Glue stains will not be permitted.

3. Carefully match grain and pattern of wood veneers to receive transparent finish.

4. Carefully distribute to overall advantage any allowable defects in supplied premium grade materials and workmanship.

**1.5 SHOP FINISHING**

1. Transparent Finish: catalyzed polyurethane.

2. Apply shop-applied finishes in clean, dustproof environment.

3. Sand lightly between coats to provide smooth, medium, rubbed effect finish.

4. Comply with requirements indicated for finish system, staining, effect and sheen.

5. Grade: Premium.

**PART 2 - EXECUTION**

**2.1 PREPARATION**

A. Examine supporting structure and conditions under which Wood Paneling is to be installed.

B. Correct conditions detrimental to satisfactory completion of work.

C. Examination substrates for excessive moisture content.

D. Verify dimensions before proceeding and obtain measurements at job site for work required to accurately fit wall with other construction.

E. Coordinate work with that of other trades affected by installation.

**2.2 INSTALLATION**

A. Prime paint or seal surfaces in contact with cementitious materials.

B. Install wood paneling in compliance with manufacturer's recommendations and approved shop drawings.

C. Assemble, fit and attach unassembled sections with concealed connections.

D. Firmly secure wood paneling to ground, furring, framing, and other backings.

E. Fit and scribe to adjacent materials accurately.

F. Install wood paneling over wall surfaces by concealed clips.

G. Maintain true, plumb, and level alignment of wood paneling throughout.

H. Maintain reveals and exposed panel terminating edges in constant line and width.

**2.3 FINISHES**

A. Touch-up and restore shop-applied finishes after installation to eliminate any unsatisfactory appearance.

B. Protect installed work.

**07 92 16 - INTERIOR JOINT SEALANTS**

**1.1 QUALITY ASSURANCE**

A. Definitions:

1. Caulk and Caulking are synonymous with sealant work.

2. Interior Wet Areas includes toilets, showers, kitchens and similar areas where sealant is subject to moisture.

B. Seal joints which permit penetration of moisture or air, unless sealant work is specifically required under other sections.

C. Provide sealants at the following:

1. Masonry control joints, and between masonry and other materials.

2. Flooring joints.

3. Isolation joints.

4. Joints at penetrations of walls, floors and decks by piping and other services and equipment not requiring firestopping.

5. Perimeters of door and window frames, louvers, grilles, etc.

6. Between cabinets, casework, countertops and back splashes where adjacent to walls.

7. Joints between dissimilar materials, to provide visually acceptable closures.

8. Other joints where caulking, or sealant is indicated.

**1.2 SUBMITTALS**

A. Shop Drawings:

1. Sealant Schedule with the following information:

a. Generally describe locations and types of sealants (i.e. GWS to Aluminum Window).

b. List type of sealant and name of product proposed for each location.

c. Include a Blank Color Column on schedule for selection.

d. Architect to complete Color Column upon selection from submitted samples.

B. Product Data:

1. Performance characteristics and limitations.

2. Recommended installation.

**1.3 WARRANTY**

A. Provide written warranty that sealant work will remain free of defects for a period of three (3) years from Date of Substantial Completion:

1. Failure of water or air tightness constitutes defect.

2. Loss of adhesion, cohesion or failure to cure constitutes defect.

3. Remove defective work and materials and replace with new work and materials.

4. Repair other work damaged as a result of defective sealant work at no additional expense to Owner.

5. Non-prorated warranty to include labor and material.

6. Warranty signed by Installer, Contractor, or both.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

A. General:

1. All elastomeric joint sealants: ASTM C520 Type S or M, Grade NS, minimum Class 25.

2. All latex sealants: ASTM C834, Type CP, Grade -18 degrees Celsius.

3. Non-staining sealant complying with ASTM C510.

4. Where sealant is not exposed to view, use manufacturer's standard color which has best performance.

5. Use non-sag sealant in vertical joints.

6. Use self-leveling or non-sag sealant on horizontal joints.

7. Before use of sealant, investigate its compatibility with surfaces, fillers and other materials in joint system.

B. Volatile Organic Compounds (VOC):

1. Comply with South Coast Air Quality Management District (SCAQMD), Rule 1168.

a. Sealants: 250 g/L.

b. Sealant Primers for Nonporous Substrates: 750 g/L.

c. Sealant Primers for Porous Substrates: 275 g/L.

C. Elastomeric Sealant:

1. Refer to Sealant Selection Guide for types required.

2. Comply with VOC limits as required by local laws or specified otherwise.

D. Casework Sealant:

1. Solid Colors.

2. 100 PCT silicone.

3. Color-Sil by Color-Rite

E. Acoustical Sealant:

1. Flexible, non-hardening.

2. UL listed.

3. Seal perimeter of sound rated partitions.

4. Seal perimeter and cover outside faces of electrical boxes and similar utilities in sound rated partitions.

F. Joint Cleaner, Primer, Bond Breaker:

1. As recommended by sealant manufacturer.

G. Backer Rod:

1. Polyethylene, polyethylene jacketed polyurethane foam, flexible, non-absorbent, non-biominous material recommended by sealant manufacturer.

**3.1 EXAMINATION**

A. Do not proceed with installation of joint sealants under following conditions:

1. When ambient air and substrate temperature conditions are outside limits permitted by joint sealant manufacturer or are below 40 DEGF 4.4 DEGC.

2. When joint substrates are wet.

B. Do not proceed with installation of joint sealants where joint widths are less than those allowed by joint sealant manufacturer for applications indicated.

C. Apply only to joints free of material which may inhibit bond.

D. Apply to cementitious materials only when thoroughly cured and dry.

**3.2 PREPARATION**

A. Clean joints and prime as required by sealant manufacturer.

B. Install sealant after finish coating or covering is scheduled to be applied.

C. Limit application to surfaces to receive sealants and mask edges of joints to protect adjacent surfaces.

**3.3 INSTALLATION**

A. Install sealant backings to support sealants during application.

1. Control joint depth.

2. Break bond of sealant at bottom of joint.

3. Provide proper shape of sealant.

4. Do not leave gaps between ends of sealant backings.

5. Do not stretch, twist, puncture, or tear sealant backings.

6. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.

B. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.

C. Install sealants using proven techniques that comply with the following and at same time backings are installed:

1. Place sealants to directly contact and fully wet joint substrates.

2. Completely fill recesses in each joint configuration.

3. Produce uniform, cross-sectional shapes and depths relative to joint widths allowing optimum sealant movement capability.

D. Prime joint surfaces as recommended by sealant manufacturer for conditions:

1. Limit application to surfaces to receive sealants.

2. Mask off adjacent surfaces.

E. Sub-caulk joints without suitable backings, to proper depth.

F. Tool sealants using sufficient pressure to fill voids.

G. Remove excess sealant adjacent to joints.

H. Hollow Metal Frames:

1. Seal frames to wall.

2. Seal frames to floor substrates and hard floor finishes.

3. Do not seal frames to previously installed carpet and similar finishes.

4. Seal hairline gaps where stops and rabbets of frame members intersect.

I. Acoustical Sealant:

1. General:

a. Apply acoustical sealant at joints, voids, and penetrations through wallboard to maximize sound control.

1) Seal wall edges to adjacent construction at perimeters, behind control joints, and at openings and penetrations with a continuous bead of acoustical sealant.

2) Install acoustical sealant at both faces of partitions at perimeters and through penetrations.

3) Comply with ASTM C519 and with manufacturer's written recommendations for locating edge trim and closing off sound-flanking paths around or through assemblies, including sealing partitions above acoustical ceilings.

b. Refer to Section 07 84 00 for firestopping of through-wall penetrations.

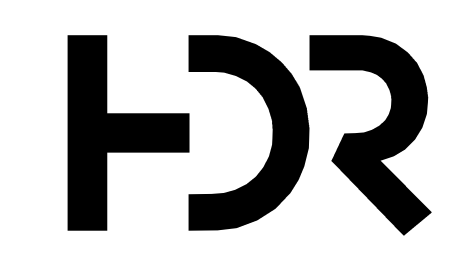
1) Provide firestop sealant where required in fire-rated assemblies.

2. Base of walls:

a. Apply acoustical sealant to bottom edge of gypsum wallboard at floor.

3. Head of walls:

a. Apply acoustical sealant to top edge of gypsum wallboard at building structure.



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	WILL SHULL, PE
DESIGNED BY	J. TABOR
DRAWN BY	J. WILLIAMS / P. VELAZQUEZ
CHECKED BY	J. MARCYNIAK / J. HALLORAN
PROJECT NUMBER	10385465



**CITY OF BELMONT  
COUNCIL DAIS  
RENOVATION**

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704.338.6700  
N.C. Board of Architecture License Number 50019

**SHEET SPECIFICATIONS**

0 1" 2" FILENAME: SCALE: SHEET: **A-003**

09 22 16 - NON-STRUCTURAL METAL FRAMING
1.1 QUALITY ASSURANCE
Manufacturer Qualifications: Member of Certified Steel Stud Association (CSSA), Steel Stud Manufacturers Association (SSMA) or Steel Framing Industry Association (SFIA).

PART 2 - EXECUTION
2.1 INSPECTION
A. Examine supporting structure and conditions under which system will be installed.
B. Correct conditions determined to preclude installation.
C. Installation constitutes acceptance of responsibility for performance.

09 22 16 - NON-STRUCTURAL METAL FRAMING - CONTINUED
a. Locate Z-bars perpendicular to line of partition, spaced maximum 16 IN on center.
b. Attach each Z-bar with two 0.145 IN x 1 IN 3.7 MM x 25 MM powder-actuated fasteners located minimum 1 IN from ends of Z-bar.

2.2 WALL BACKING AND BLOCKING
A. Metal Wall Backing: Provide in-wall metal wall backing reinforcement where following items are mounted to interior walls and interior face of exterior walls:

09 29 00 - GYPSUM BOARD
1.1 QUALITY ASSURANCE
ASTM International (ASTM).
B. Gypsum Association (GA).

1.4 INSPECTION AND PREPARATION
A. Examine supporting structure and conditions prior to wallboard installation.
B. Correct unsatisfactory conditions.
C. Start of installation constitutes acceptance of conditions and responsibility for performance.

09 29 00 - GYPSUM BOARD - CONTINUED
1.6 INSTALLATION - TRIM ACCESSORIES
A. For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels.
B. Interior Trim:
1. Install in following locations:
2. Corner Bead: Use at outside corners.

1.10 PROTECTION
A. Protect installed wallboard from water damage during construction.
B. Prior to finishing, walls shall be inspected for visible mold growth.
1. Replace affected portions.

09 91 23 - INTERIOR PAINTING
GENERAL
1.1 SUMMARY
A. Finish: labor materials, tools, equipment, and services for Interior Painting, as indicated, in accordance with provisions of Contract Documents.

3.6 INTERIOR PAINT SYSTEMS
A. Gypsum Wallboard and Plaster Surfaces, Walls:
1. Latex (PT), Gloss Level 3, Eggshell:
a. Sherwin-Williams:
1) Prime coat: Harmony Interior Latex Primer.

09 91 23 - INTERIOR PAINTING - CONTINUED
D. Metal Doors and Frames:
1. Waterborne epoxy for metal (PTM), Gloss Level 5 Semi-gloss:
a. Sherwin-Williams:
1) Prime coat: Pro Industrial Pro-Catalyzed Water Based Epoxy, Semi-Gloss.

3.6 INTERIOR PAINT SYSTEMS (continued)
B. Gypsum Wallboard - Ceilings and Soffits:
1. Latex (PT), Gloss Level 1, Flat:
a. Sherwin-Williams:
1) Prime coat: Harmony Interior Latex Primer.

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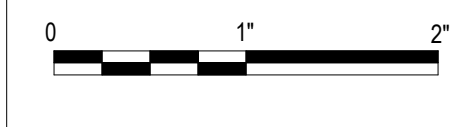
02/2024 ISSUED FOR BID

Table with 2 columns: Field (PROJECT MANAGER, DESIGNED BY, DRAWN BY, CHECKED BY, PROJECT NUMBER) and Value (WILL SHULL, PE, J.TABOR, J.WILLIAMS / P. VELAZQUEZ, J. MARCYNIAK / J. HALLORAN, 10385465)



CITY OF BELMONT COUNCIL DAIS RENOVATION

SHEET SPECIFICATIONS



FILENAME SCALE

SHEET A-004

HDR Architecture, Inc. 440 S. Church Street, Suite 1200 Charlotte, NC 28202 704.338.6700 N.C. Board of Architecture License Number 50019



12 36 63 - SOLID SURFACE FABRICATIONS (SSF)

GENERAL
1.1 SUMMARY
A. Furnish labor, materials, tools, equipment, and services for Solid Surface Fabrications, as indicated, in accordance with provisions of Contract Documents.
B. Completely coordinate with work of other trades.
1.2 QUALITY ASSURANCE
A. Applicable standards:
1. International Association of Plumbing and Mechanical Officials (IAPMO)
a. IAPMO 214 Plastic Plumbing Fixtures.
2. ASTM International.
3. National Electrical Manufacturers Association (NEMA)
a. NSF International.
1) NSF/ANSI Standard 51 for food zone - all food types.
4. Manufacturer's certification of fabricator and installer.
B. Installer Qualifications:
1. Successfully installed at least five projects within the past four years, utilizing systems, materials and techniques as specified or required by product manufacturer.
C. Manufacturer Certification of Fabricator and Installer:
1. Cert by manufacturer.
2. Submit prior to Shop Drawings.
1.3 SUBMITTALS
A. Shop Drawings:
1. Show location of each item, dimensioned plans and elevations, large scale details, attachment devices and other components.
2. Show full size details, edge details, thermoforming requirements, attachments, etc.
3. Show locations and sizes of furring, blocking, including concealed blocking and reinforcement.
4. Show locations and sizes of cutouts and holes for plumbing fixtures, faucets, soap dispensers, waste receptacles and other items installed in surface.
5. Indicate dimensions, component sizes, fabrication details, attachment provisions and coordination requirements with adjacent work.
B. Product Data:
1. Manufacturer's product data sheets, details and installation instructions for Solid Surface Fabrications, components and accessories.
C. Samples:
1. For each SSF color selected:
a. Minimum 6 in x 8 in sample in specified gloss.
b. Cut sample and seam together for representation of inconspicuous seam.
c. Indicate full range of color and pattern variation.
2. Sealant color for selection.
3. Approved samples will be retained as a standard for work.
D. Project Information:
1. Manufacturer's current certification of Fabricator and Installer prior to submittal of Shop Drawings.
E. Contract Closeout Information:
1. Warranty.
2. Maintenance data.
a. See Section 01 78 23.
1.4 WARRANTY
A. Manufacturer's ten (10) year warranty including colorfastness and material defects.
1. Warranty shall provide material and labor to repair or replace defective materials.

PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. Solid Surface Fabrications (SSF):
1. Base:
a. Corian by DuPont.
2. Optional:
a. Avonite by Arntech Acrylics LLC.
b. Hi-Macs by LG Decorative Surfaces.
c. Wilsonart Solid Surface.
B. Sealant:
1. Base:
a. Color Rite.
2. Optional:
a. As approved by SSF manufacturer.
C. Other manufacturers desiring approval comply with Section 00 26 00.
2.2 MATERIALS
A. Solid Surface Materials:
1. Cast, non-porous, homogeneous, acrylic polymer composition with additional fire retardant fillers and pigments.
a. Prime product may not be coated, laminated or of composite construction.
2. Defects with depth < 0.010 in shall be considered superficial.
a. Repair superficial damage by sanding and/or polishing.
b. Components with more severe defects shall be rejected.
3. Physical properties:

Table with 3 columns: Property, Method, Value. Rows include Tensile Strength, Flexural Strength, Hardness, Thermal Expansion, Gloss (60 degree Gardner), Light Resistance, Wear and Cleanability, Stain Resistance, Fungal Resistance, High Temperature Resistance, Boiling Water Resistance, Ball Impact Resistance, Water Absorption, Flammability, Flame Spread Index, Smoke Developed Index.

B. Backing materials (build down):
1. Finished or exposed edges: SSF material.
a. Profiles as indicated.
2. Concealed spaces and non-exposed edges:
a. Moisture resistant, medium density fiberboard (MDF) panels or moisture resistant plywood.
1) Use at countertops with sinks.
2) No added formaldehyde (NAF).
3) Particleboard is not acceptable.
4) Base Product: Medex by Rowburg.
b. Physical Properties, based on 3/4 in Thickness, ASTM D1037, Part A:
1) Density: 48 LBS/FT3
2) Modulus of Rupture: 4000 PSI
3) Screw Holding: Required to pull 1 in #10 sheet metal screw:
a) Face: 225 LBS
b) Edge: 200 LBS.
c. Panel Thickness:
1) As required for application, use a single thickness to achieve build down to cross-sectional thickness.
3. Backer Sheets for knee spaces:
a. Plastic laminate in coordinating color.
b. Grade 21 GGP.
c. Apply to bottom side of backing material.
4. Backing materials adhesive:
a. Construction grade adhesive recommended by SSF manufacturer for backing materials with VOC content no greater than 70 g/L.
C. Joint Adhesive:
1. Manufacturer's standard one- or two-part adhesive as required for inconspicuous, non-porous joint with VOC content no greater than 80 g/L.
D. Sealant:
1. Mildew resistant silicone sealant in colors matching components.
2. Specifically formulated for applications indicated, including wet areas.
3. Shore A Hardness: 25.
4. Compatible with SSF specified.
5. Compatible with gypsum wallboard, paint, laminates and other materials being sealed.
6. Sealant VOC content shall be no greater than 250g/L.
7. Colors:
a. Colors to match specified SSF colors from no less than 400 standard color choices.
b. Number of different colors required for project shall not be limited.
E. Base Product:
a. All solid colored SSF. Color-Sil by Color Rite; 100 PCT silicone.
b. Where specific colored SSF is specified: Poly-Sil by Color Rite; 100 PCT silicone with suspended accent color particles.
c. Attached to select final colors and locations during submittals phase.
E. Conductive Fall Tape:
1. Manufacturer's standard aluminum foil tape, with required thickness, for use with cutouts near heat sources.
F. Insulating Fall Tape:
1. Manufacturer's standard for use with conductive tape in insulating solid surface material from adjacent heat source.

2.3 SHOP FABRICATION
A. Shop Assembly
1. Fabricate components to greatest extent practical to sizes and shapes indicated, in accordance with approved shop drawings and manufacturer's instructions.
2. Form joints between components using color matched Joint Adhesive in an inconspicuous manner.
a. Reinforce with 4 in wide strip of SSF material.
3. Provide factory cutouts for plumbing fittings and bath accessories as indicated.
a. Radius inside corners of cutouts as large as but not less than 1/4 in.
b. Reinforce with SSF corner blocks to avoid stress cracking.
c. Sand edges and corners smooth and free of chips or nicks.
d. Utilize heat conductive aluminum tape around drop-in stoves and other heat sources to protect SSF from thermal stress.

12 36 63 - SOLID SURFACE FABRICATIONS (SSF) - CONTINUED

4. Rout and finish component edges with clean, sharp returns.
a. Rout cutouts, radii and contours to template.
b. Smooth edges.
c. Repair or reject defective and inaccurate work.
5. Fabricate coved splashes where indicated.
6. Reinforce inside corners, narrow pieces, cantilevered overhangs, and stress points against breakage by laminating an additional thickness of SSF on concealed face.
7. Laminate additional thicknesses of SSF and tool edge profiles indicated.
8. Uniformly finish completed pieces according to SSF schedule.
2.4 FABRICATIONS
A. SSF Window Sills:
1. Configurations detailed on Architectural Drawings.
2. Thickness: Minimum 1/2 in (unless otherwise indicated).
3. Join multiple pieces with joint adhesive to create inconspicuous seam.
4. Edge Treatment: As indicated on the drawings.
5. Polish exposed faces.
6. SSF Color / Pattern / Finish: Per SSF Schedule.
B. SSF Wall Caps, Niches and Similar Decorative Uses:
1. Configurations detailed on Architectural Drawings.
2. Thickness: Minimum 1/2 in, unless otherwise indicated.
3. Join multiple pieces with joint adhesive to create inconspicuous seam.
4. Edge treatments: As indicated on the drawings.
5. Polish exposed faces.
6. SSF color / pattern / finish: Per SSF Schedule.
C. SSF Countertops:
1. Configurations as indicated on the IC-Series Drawings.
2. Composite thickness of countertop assemblies: 1-1/4 in unless otherwise indicated.
3. Nominal Thickness of SSF material: Minimum 1/2 in unless otherwise indicated.
4. Radius exposed outside corners: Minimum 1-1/2 in.
5. Backer:
a. Configure backing material as required for application:
1) Form ladders from approved backing material ripped into 3- 4 in wide strips.
2) Locate main runner strips (rails) along front and back edges of countertops.
a) Provide clearance for shrinkage and normal expansion and contraction.
3) Space front-to-back supports (stiles) to align with line where base cabinet units adjoin.
4) Where base cabinets and supports exceed in 24 in width: Include additional intermediate stiles so that maximum spacing does not exceed 24 in.
5) Provide additional intermediate stiles at seams in SSF countertop material.
6) Join the stiles to rails using screwed or glued wood biscuit seams, serrated dovets or rabbled seams.
7) Overhangs: Configure backer material per SSF manufacturer's guidelines according to distance overhang projects past its support.
c. Countertops which span between supports 30 in and wider:
1) Fabricate backer from solid backing material (not stile and rail construction).
2) Extend one piece, solid backer material, across entire span. Extend load bearing edges not less than 4 in over edge of supporting cabinets (or similar support).
d. Portions of Countertops schedule to support countertop equipment:
1) Provide full backing for the entire countertop cross section for the full width of the equipment.
2) Extend 4 in (min) beyond equipment width and as required for mounting.
6. Backsplashes and Sidesplashes:
a. Provide where indicated.
b. Thickness: Minimum 1/2 in (unless otherwise indicated).
c. Height: As indicated.
d. Fabricate from same material and color as top.
e. Backsplash Style: Integrally coved.
f. Sidesplash Style: Applied.
7. Front overhang of Tops: 1-1/2 in, unless otherwise indicated.
8. Edge Treatment: As indicated on the drawings.
9. Polish exposed faces.
10. SSF color / pattern / finish: Per SSF Schedule.

PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates and conditions, with fabricator present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
1. Verify measurements, dimensions and drawing details before proceeding.
2. Coordinate location of furring, nailers, blocking, grounds and similar supports for attached work.
3. Examine conditions under which work is to be installed.
4. Correct unsatisfactory conditions.
B. Proceed with installation only after unsatisfactory conditions have been corrected.
C. Installation constitutes acceptance of responsibility for performance.
3.2 INSTALLATION
A. General:
1. Install components plumb, level and rigid, scribed to adjacent finishes, in accordance with approved shop drawings and product data.
2. Provide product in the largest pieces available.
3. Form field joints using manufacturer's recommended adhesive, with joints inconspicuous in finished work.
a. Exposed joints/seams will not be allowed.
4. Reinforce field joints with SSF strips extending a minimum of 1 to 2 in on either side of the seam with the strip being the same thickness as the top.
5. Cut and finish component edges with clean, sharp returns.
6. Rout radii and contours to template.
7. Anchor securely to base cabinets or other supports.
8. Align adjacent countertops and form seams to comply with manufacturer's written recommendations using adhesive in color to match countertop.
9. Carefully dress joints smooth, remove surface scratches and clean entire surface.
10. Install countertops with no more than 1/8 in sag, bow or other variation from a straight line.
11. Units with sinks or lavatories shall withstand an applied vertical load of not less than 250 LBS on front edge of countertop.
B. Window Sills (sills):
1. Shim as required so that installed items are plumb, true and level.
2. Install Window Sills full length of window, set securely into place using only concealed fasteners and approved adhesive.
3. Adhere sills to substrate with dabs of a clear silicone sealant at 10 to 12 in intervals.
4. Where sills are abutted by walls at both ends: Allow 1/8 in expansion gaps at both ends for every 10 FT sill.
a. Seal gaps with elastomeric sealant.
5. Ease edges and sand smooth.
C. Countertops:
1. Install plumb, level, true and straight.
a. Shim as necessary using concealed shims.
2. Adhere tops to base cabinets with clear silicone sealant at 10 to 12 in apart.
3. Attach top securely to base unit or support brackets in accordance with manufacturer's instructions.
a. Supply additional wood supports, spaced no more than 18 in apart or as otherwise required for adequate strength.
4. Attach top securely to base unit or support brackets in accordance with manufacturer's instructions.
a. Ensure full contact with support brackets and backing for entire support length with mechanical fastening into backing material.
b. Provide fasteners of appropriate length. Do not allow screws to penetrate into SSF material.
c. Supply additional supports or solid backing as required for adequate strength.
5. Where tops are abutted by walls at both ends:
a. Include 1/8 in expansion gaps at both ends for every 10 FT countertop.
b. Seal gaps with elastomeric sealant.
D. Backsplashes and Sidesplashes:
1. Integrally Coved Splashes:
a. Join coved items to countertops using color matched Joint Adhesive.
b. Adhere to walls and other substrates with clear silicone sealant.
c. Seal to walls and adjacent cabinets with color matched, elastomeric sealant.
2. Applied Splashes:
a. Join adhered items to substrate using color matched, elastomeric sealant.
b. Adhere to walls and other substrates with clear silicone sealant.
c. Seal to walls and adjacent cabinets with color matched, elastomeric sealant.
E. Sinks:
1. Install sinks per Section 22 42 00.
2. Seal to Countertop with elastomeric sealant and mounting hardware provided.
3. Drain and overflow connections: Specified in Section 22 42 00.
F. Faucets and Trim:
1. Install faucets and trim per Section 22 42 00.
2. Plumbing connections: Specified in Section 22 42 00.
3. Seal to Countertop with elastomeric sealant.

3.3 CLEANING AND PROTECTION
A. Keep components clean during installation.
B. Protect finished surfaces from damage.
C. Remove adhesives, sealants and other stains.
D. Replace damaged work which cannot be repaired.

Autodesk Docs://10377916\_Belmont\_General\_Spec\_2022/10377916-01-A-CPT2.rvt 10/20/24 11:44:30 AM

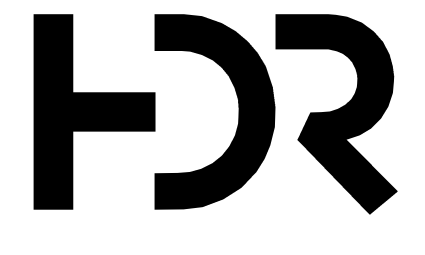
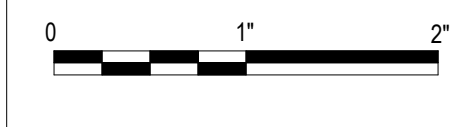


Table with 3 columns: ISSUE, DATE, DESCRIPTION. Includes Project Manager (Will Shull, PE), Designer (J. Tabor), and Project Number (10385465).



CITY OF BELMONT COUNCIL DAIS RENOVATION



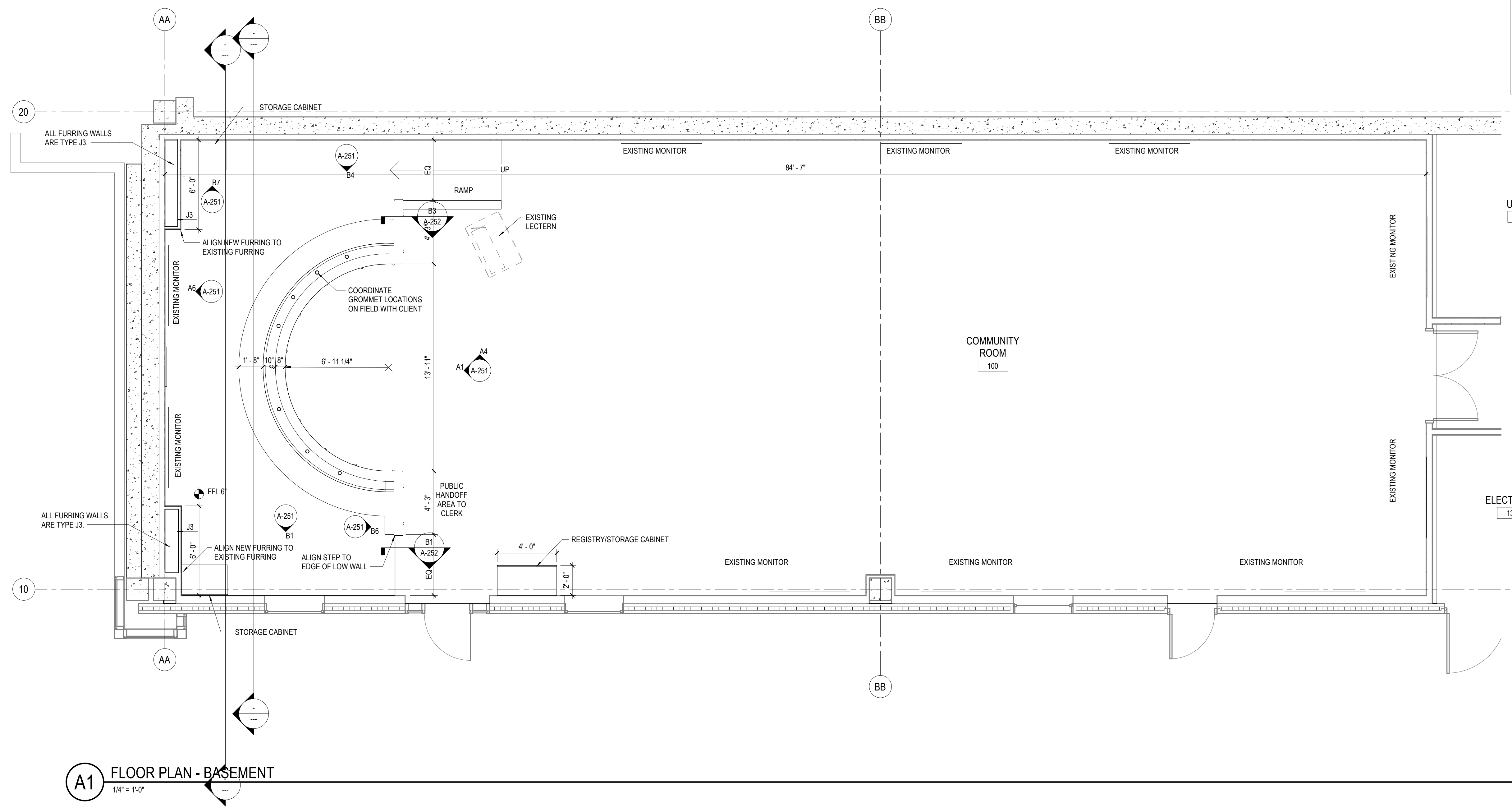
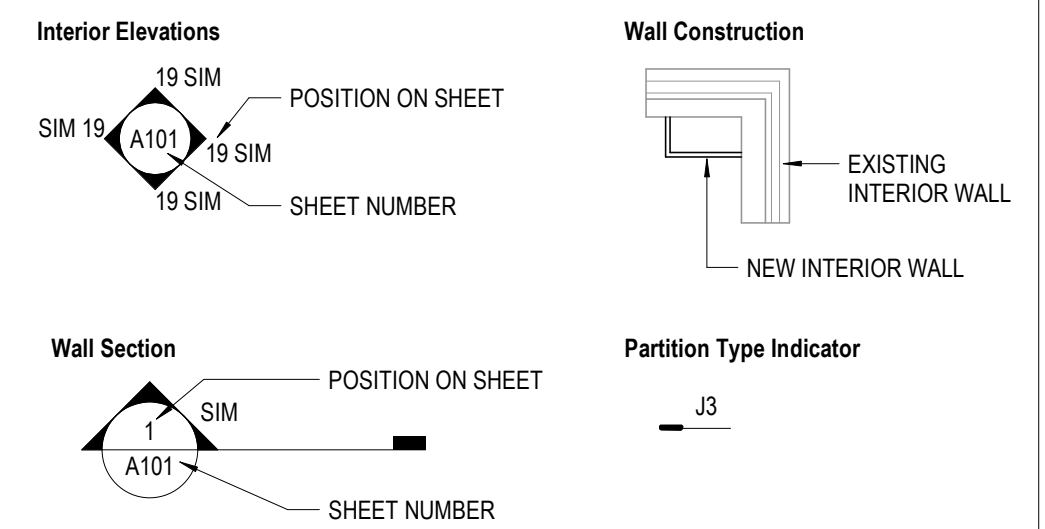
SHEET SPECIFICATIONS

FILENAME SCALE

SHEET A-005

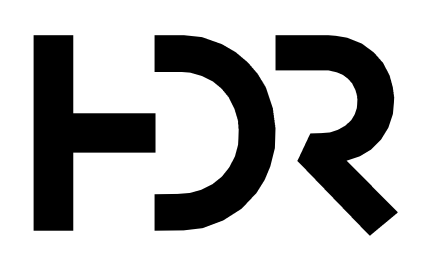
HDR Architecture, Inc. 440 S. Church Street, Suite 1200 Charlotte, NC 28202 704.338.6700 N.C. Board of Architecture License Number 50019

# INTERIOR FLOOR PLAN LEGEND



**A1 FLOOR PLAN - BASEMENT**  
 1/4" = 1'-0"

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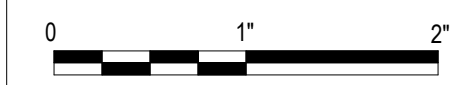
ISSUE	DATE	DESCRIPTION
	02/2024	ISSUED FOR BID

PROJECT MANAGER	WILL SHULL, PE
DESIGNED BY	J. TABOR
DRAWN BY	J. WILLIAMS / P. VELAZQUEZ
CHECKED BY	J. MARCYNIAK & J. HALLORAN
PROJECT NUMBER	10385465



**CITY OF BELMONT  
 COUNCIL DAIS  
 RENOVATION**

**BASEMENT - FLOOR PLAN**

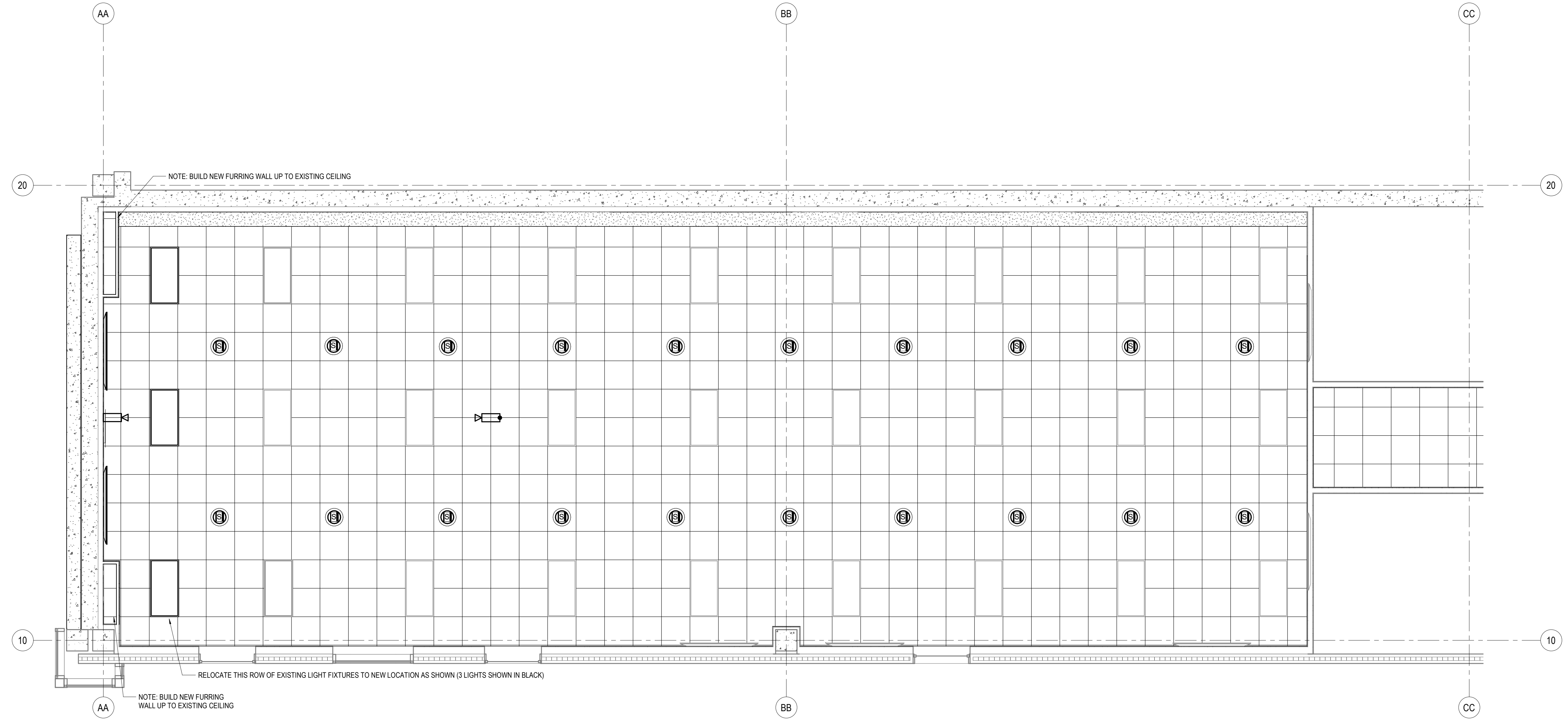


FILENAME  
 SCALE As indicated

SHEET  
**A-101**

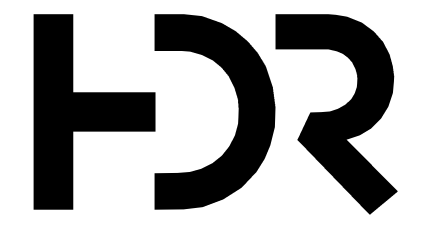
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 1/3/2024 11:44:31 AM

1 2 3 4 5 6 7 8



**A1** EXISTING REFLECTED CEILING PLAN  
1/4" = 1'-0"

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704.338.6700  
N.C. Board of Architecture License Number 50019

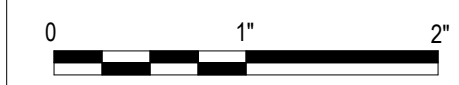


ISSUE	DATE	DESCRIPTION
	02/2024	ISSUED FOR BID

PROJECT MANAGER	WILL SHULL, PE
DESIGNED BY:	J. TABOR
DRAWN BY:	J. WILLIAMS / P. VELAZQUEZ
CHECKED BY:	J. MARCYNIAK & J. HALLORAN
PROJECT NUMBER	10385465



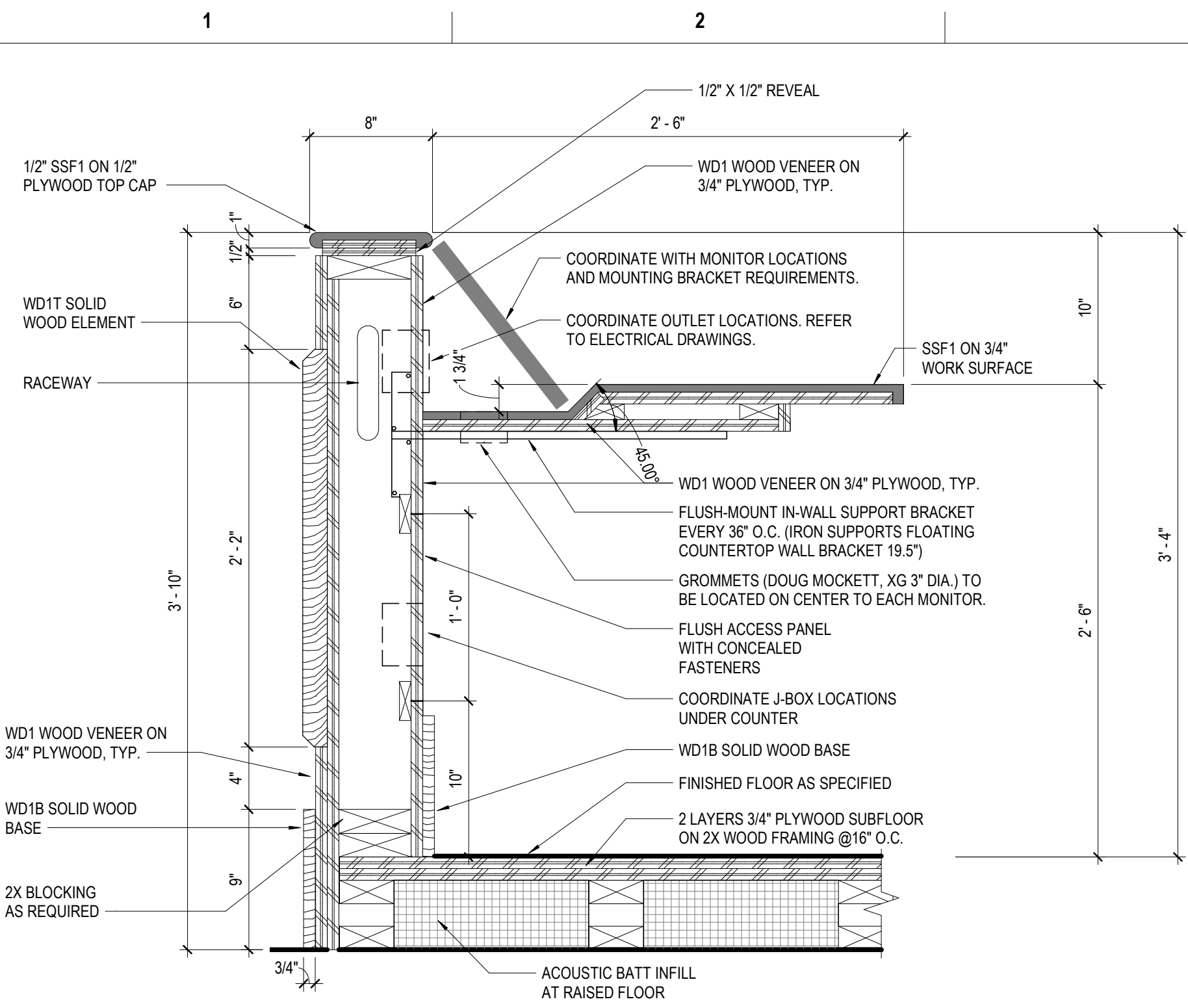
**CITY OF BELMONT  
COUNCIL DAIS  
RENOVATION**



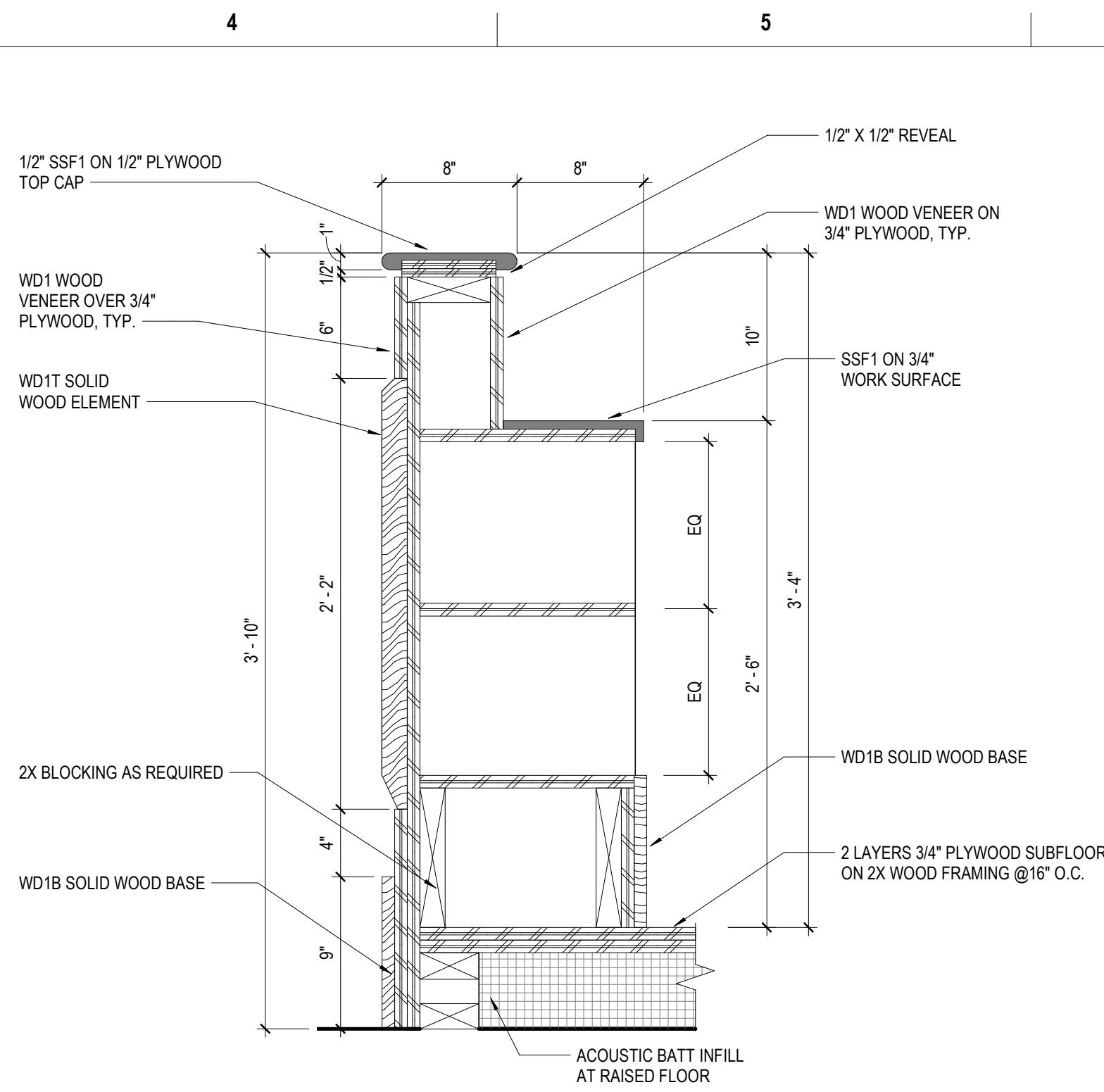
FILENAME  
SCALE 1/4" = 1'-0"

SHEET  
**A-150**

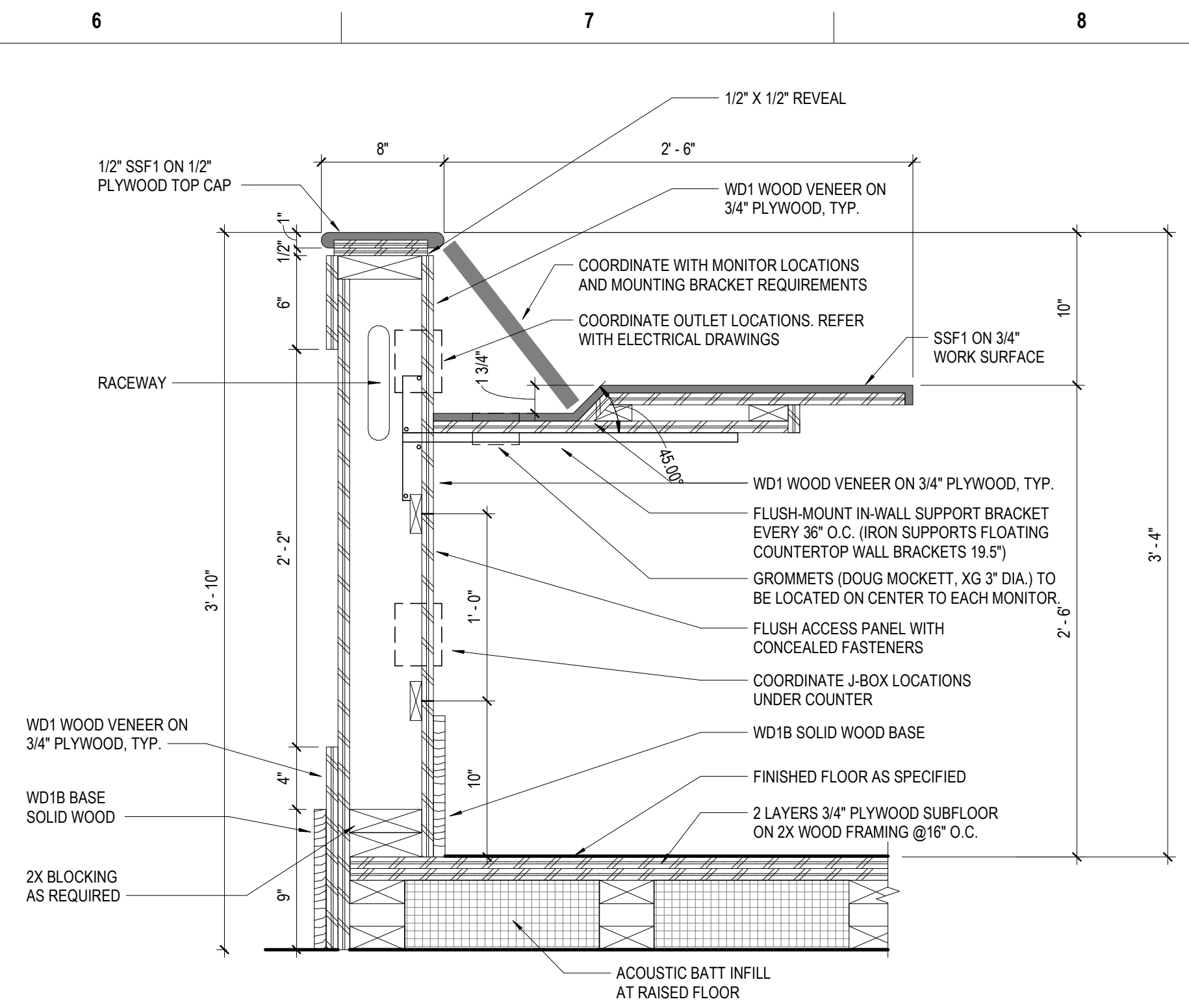
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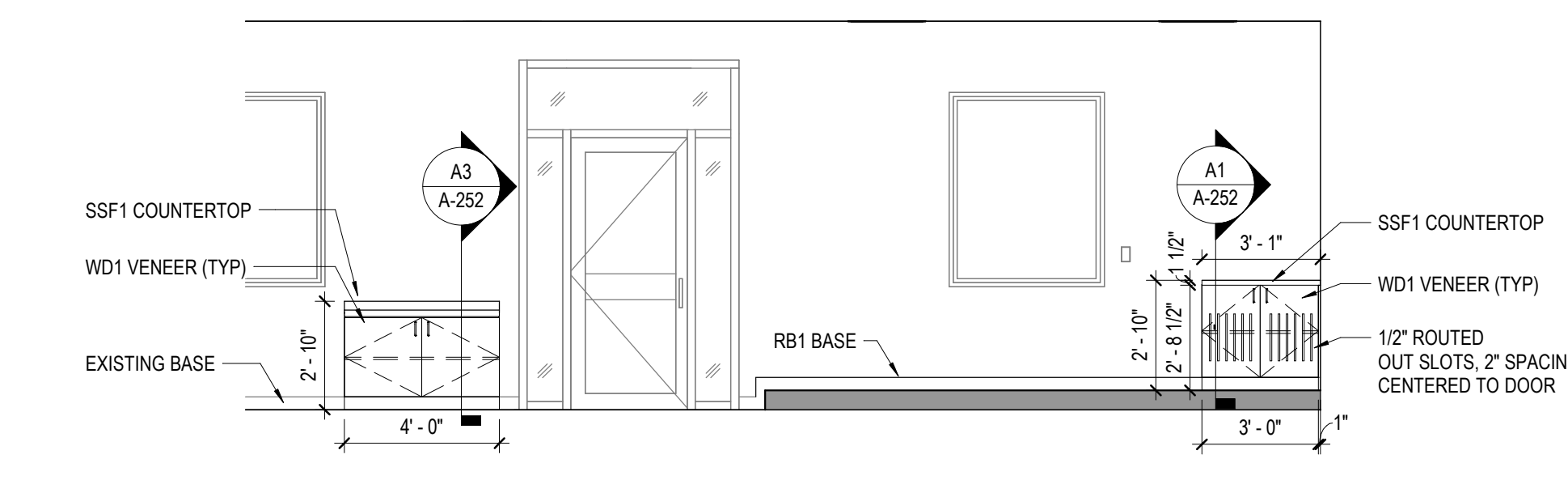
**C1 SECTION - MILLWORK - BENCH**  
1 1/2" = 1'-0"



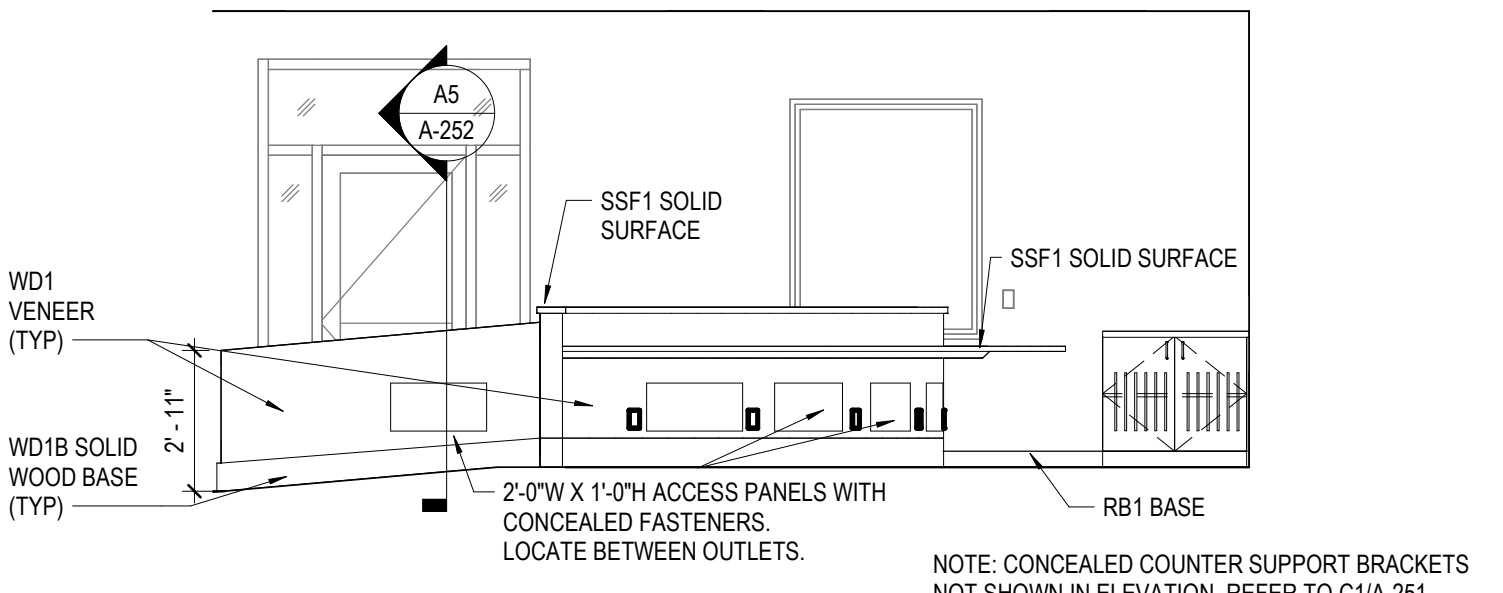
**C4 SECTION - MILLWORK - CLERK**  
1 1/2" = 1'-0"



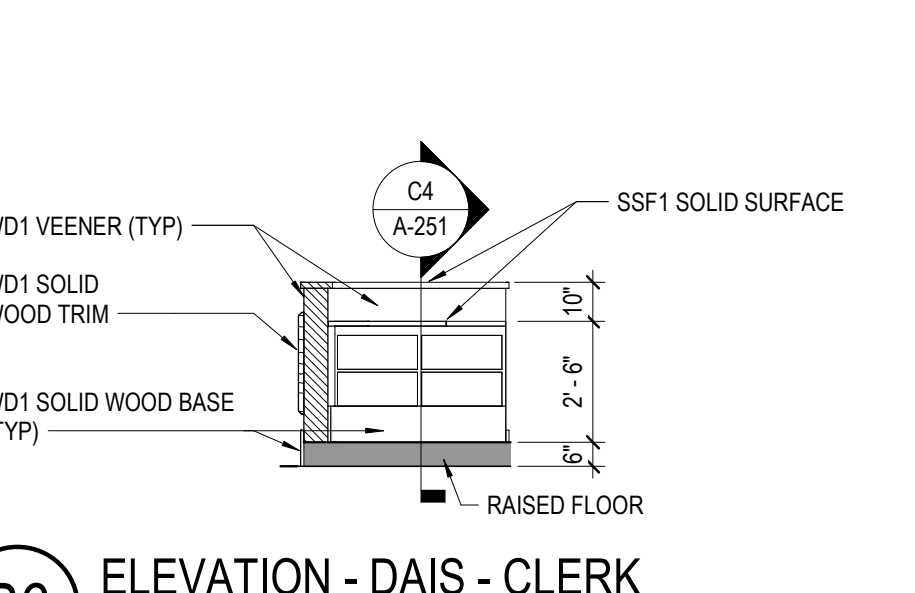
**C6 SECTION - MILLWORK - BENCH 2**  
1 1/2" = 1'-0"



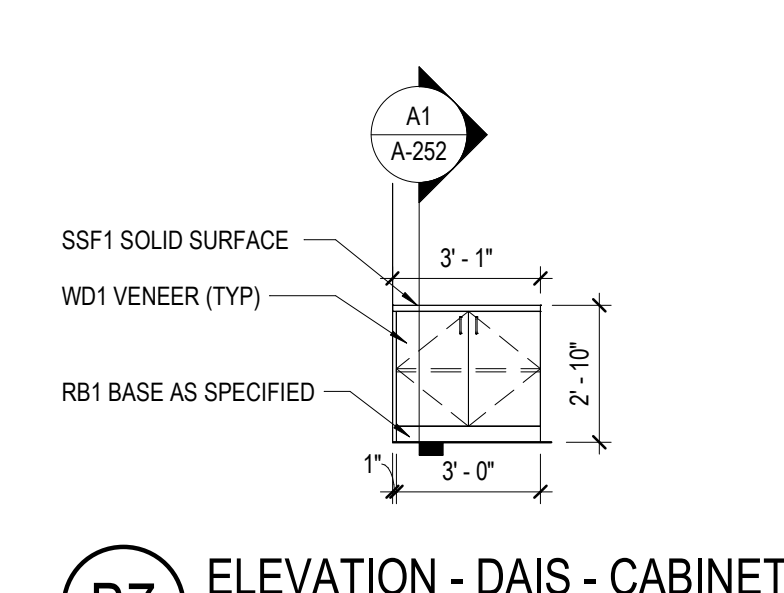
**B1 ELEVATION - ENTRANCE**  
1/4" = 1'-0"



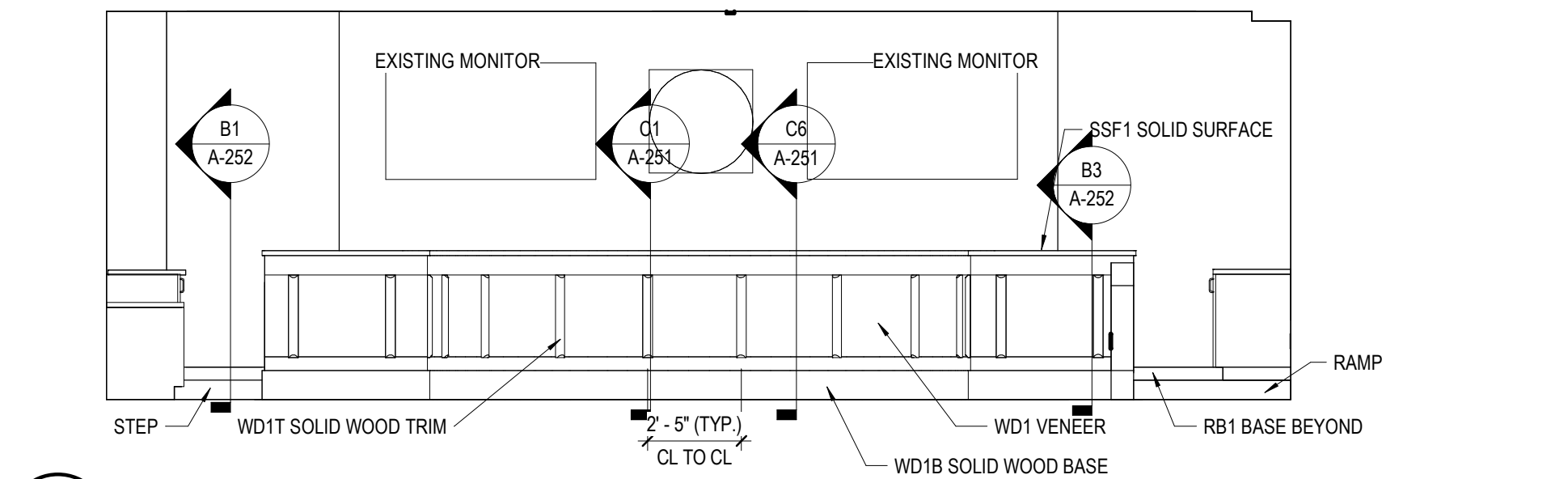
**B4 ELEVATION - DAIS - RAMP**  
1/4" = 1'-0"



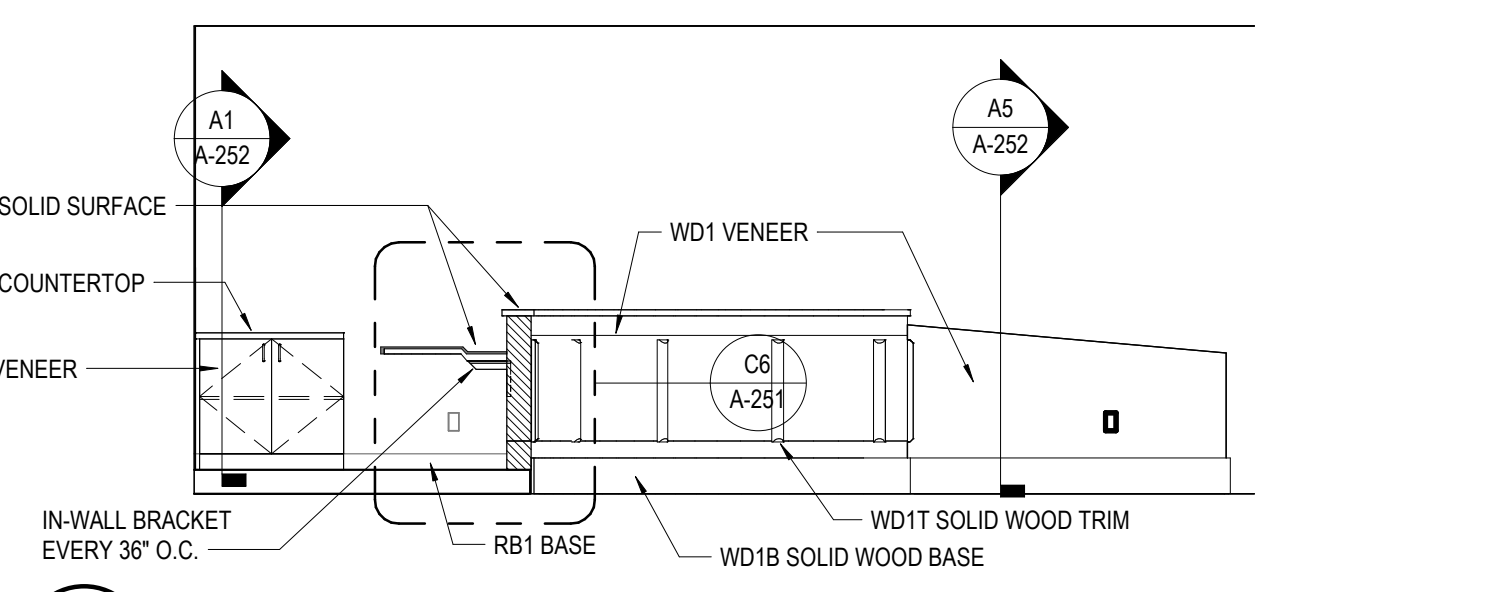
**B6 ELEVATION - DAIS - CLERK**  
1/4" = 1'-0"



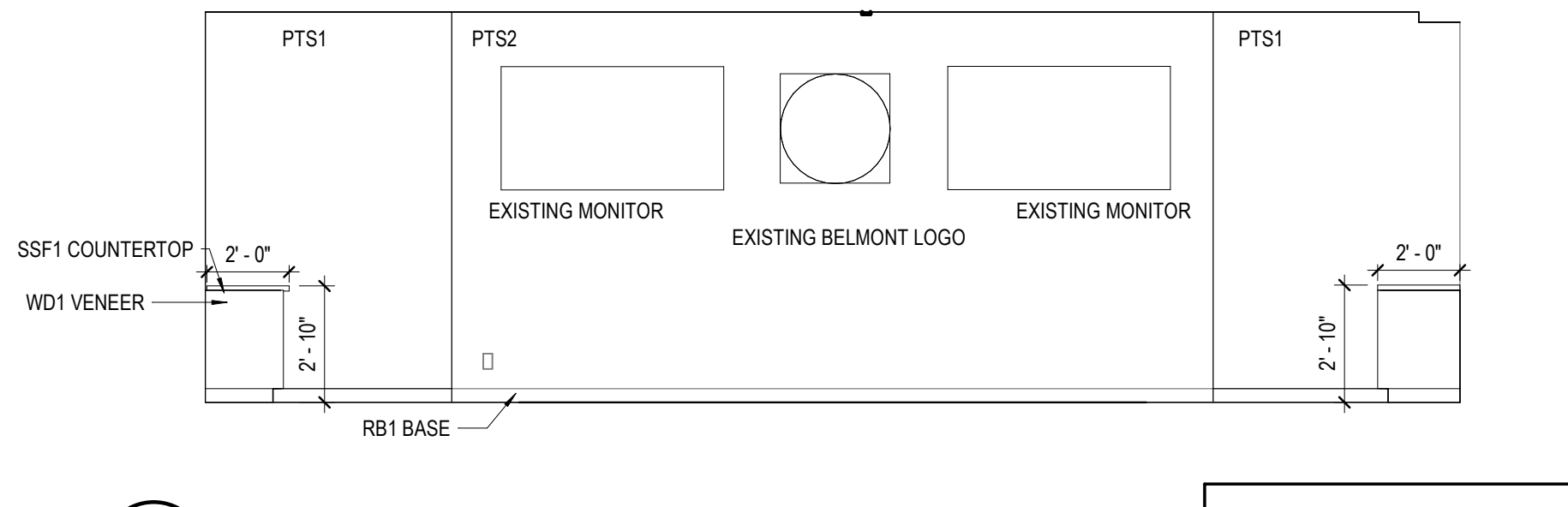
**B7 ELEVATION - DAIS - CABINET**  
1/4" = 1'-0"



**A1 ELEVATION - DAIS FRONT**  
1/4" = 1'-0"

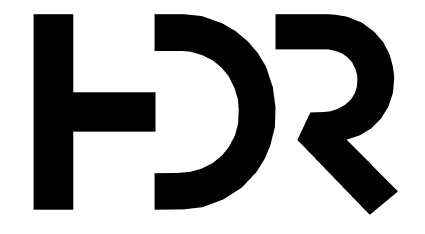


**A4 ELEVATION - DAIS - RAMP NORTH**  
1/4" = 1'-0"



**A6 ELEVATION - DAIS - FEATURE WALL**  
1/4" = 1'-0"

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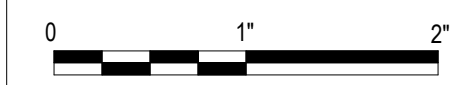


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DRAWN BY	J. WILLIAMS / P. VELAZQUEZ
CHECKED BY	J. MARCYNIAK & J. HALLORAN
PROJECT NUMBER	10385465



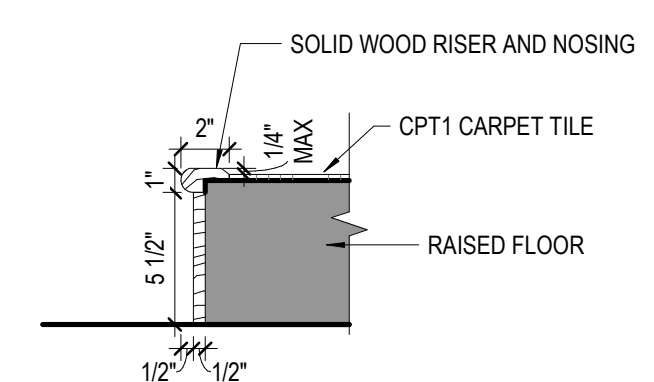
**CITY OF BELMONT  
COUNCIL DAIS  
RENOVATION**



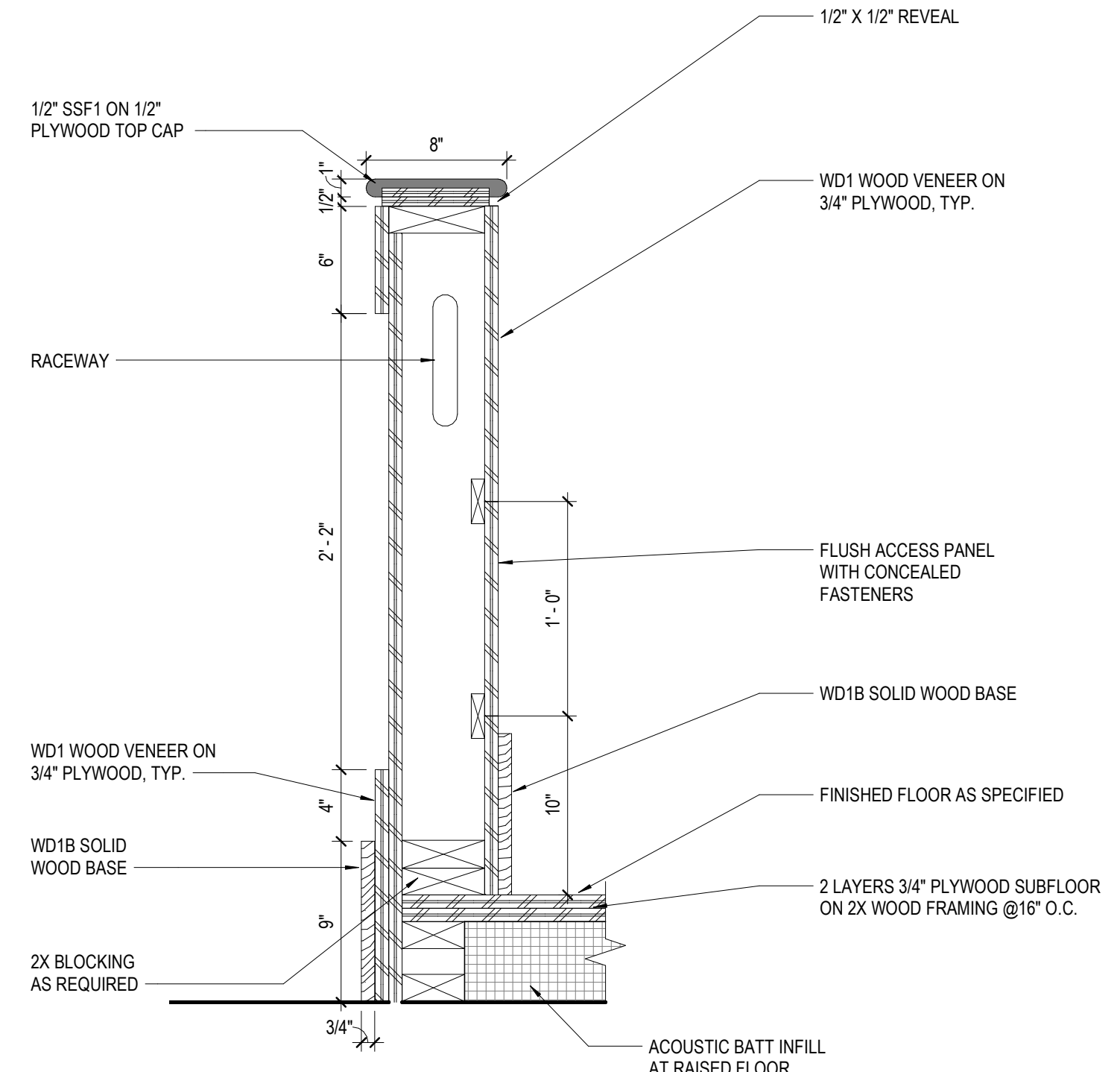
FILENAME  
SCALE As indicated

SHEET  
**A-251**

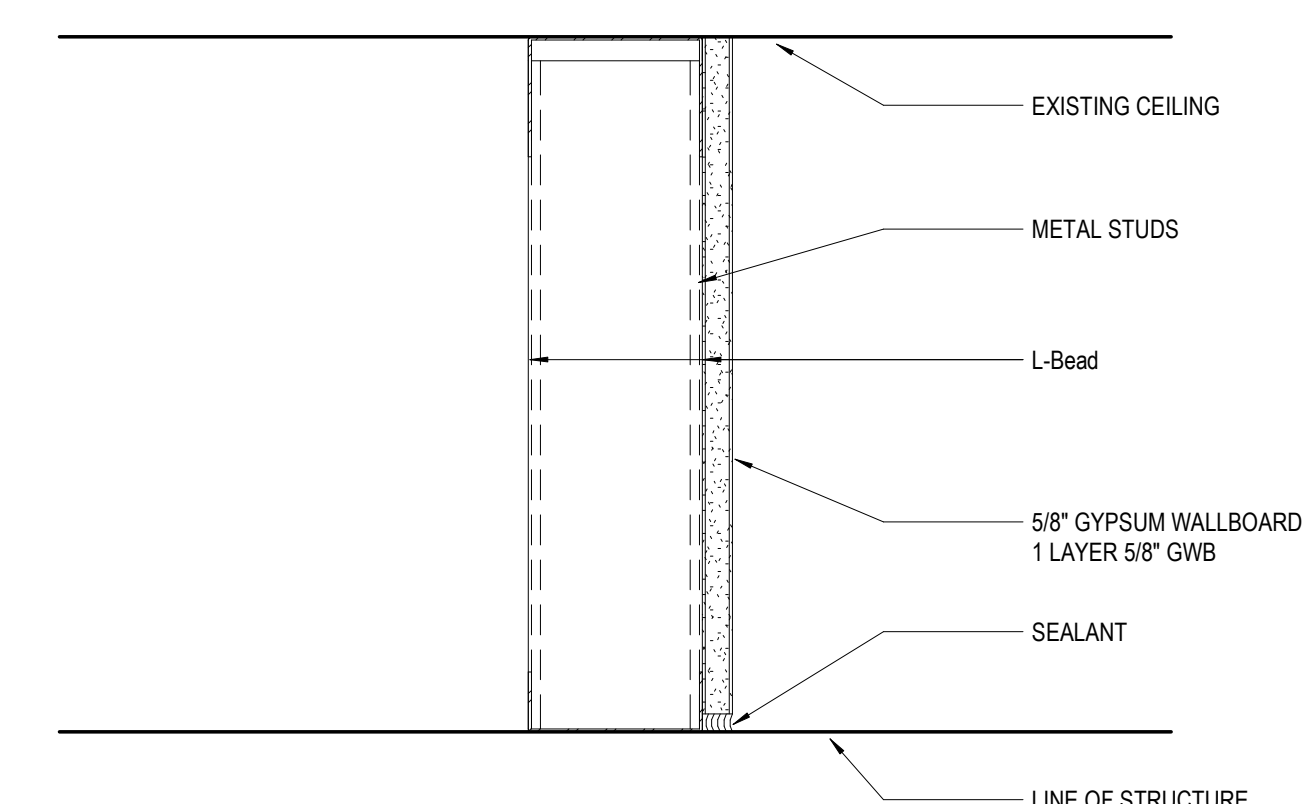
Autodesk Docs/1037916\_Belmont\_General & Misc\_Sep\_2022/1037916501-A-CPT2.rvt 1/3/2024 2:17:00 PM



**B1** SECTION - STAIR NOSING DETAIL  
1 1/2" = 1'-0"



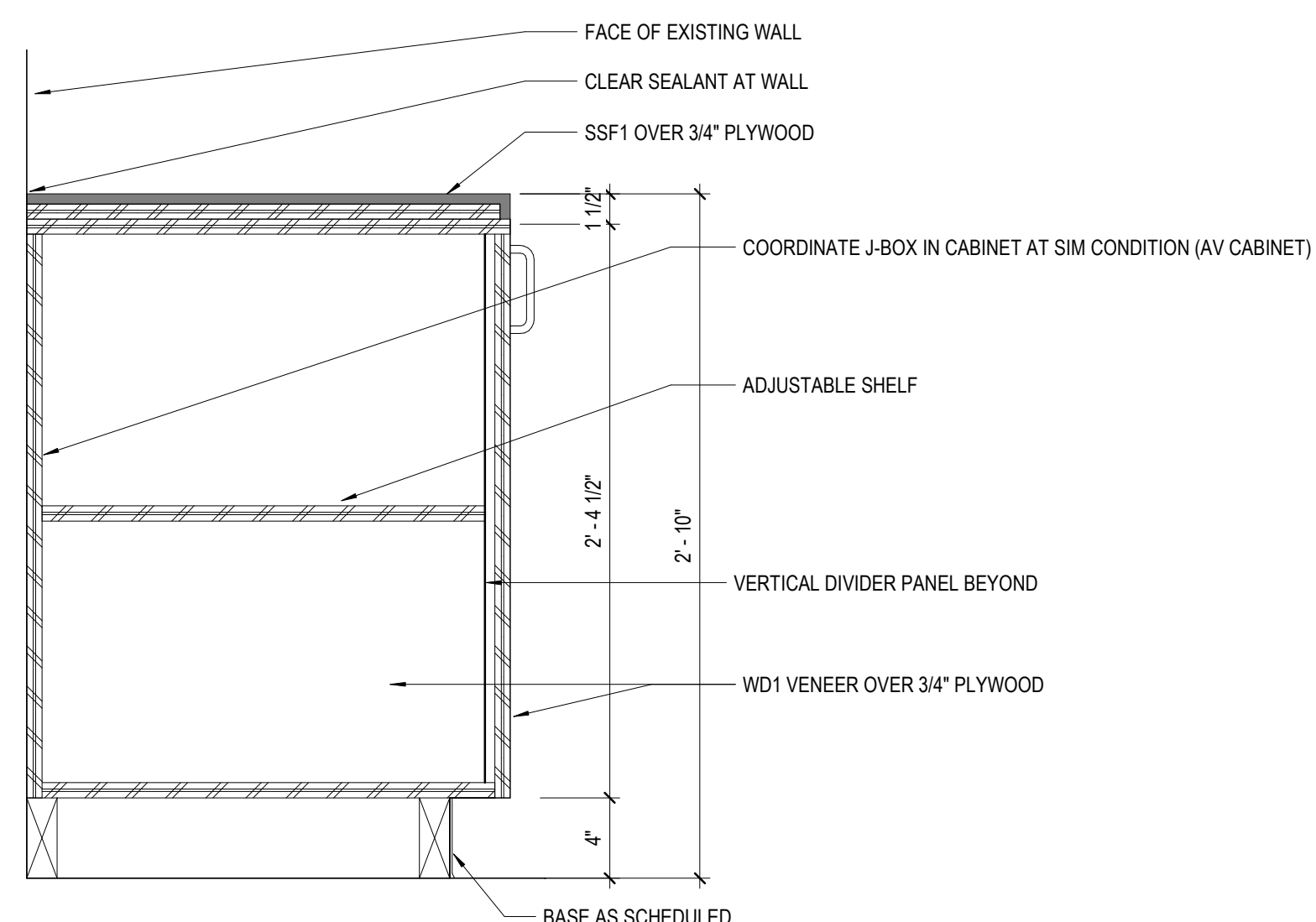
**B3** SECTION - DAIS - ATTORNEY  
1 1/2" = 1'-0"



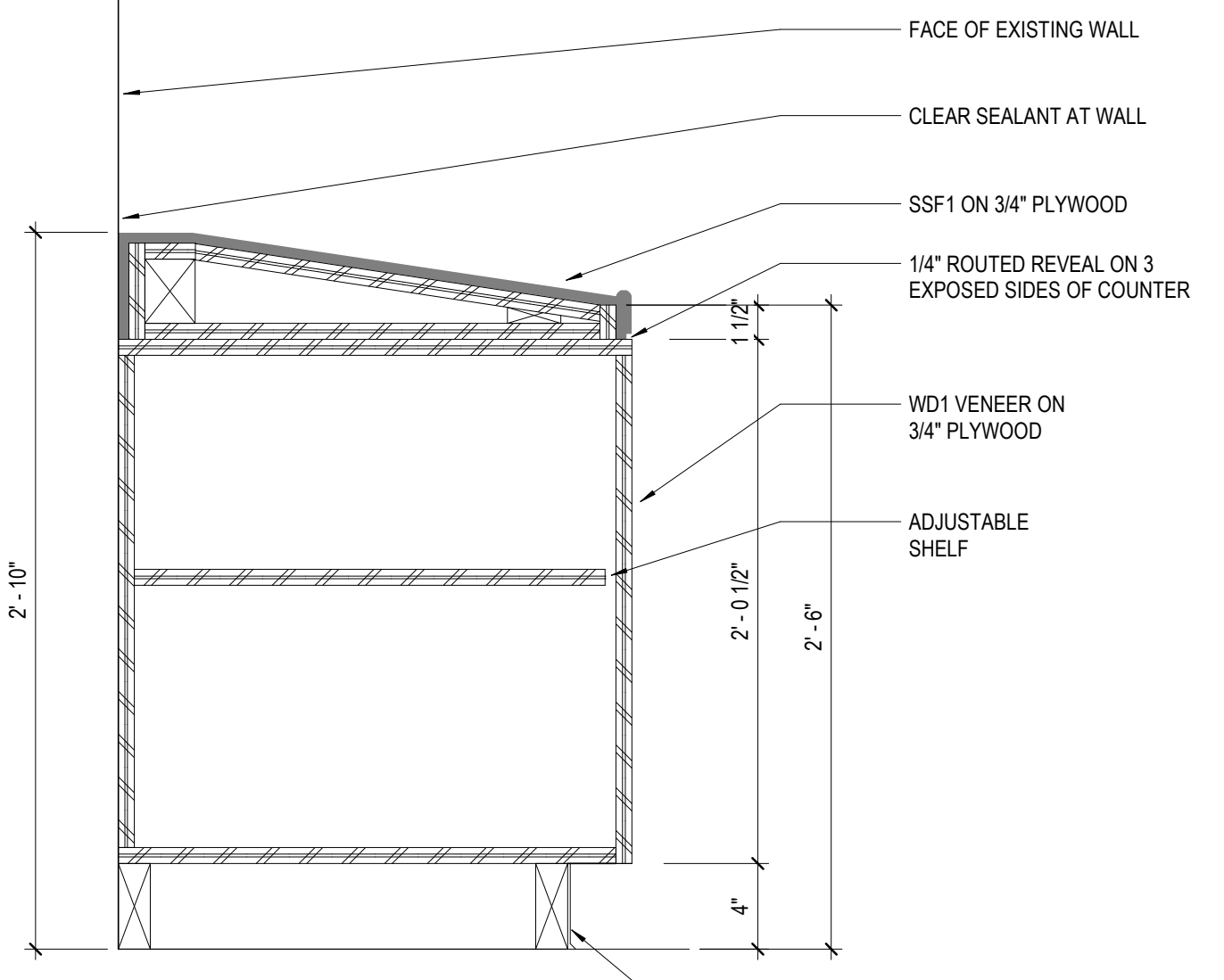
**(TYPE J) NON-RATED PARTITION**

MARK	STUD WIDTH	PRTN WIDTH	Design STC
J3	3 5/8"	J3	J3

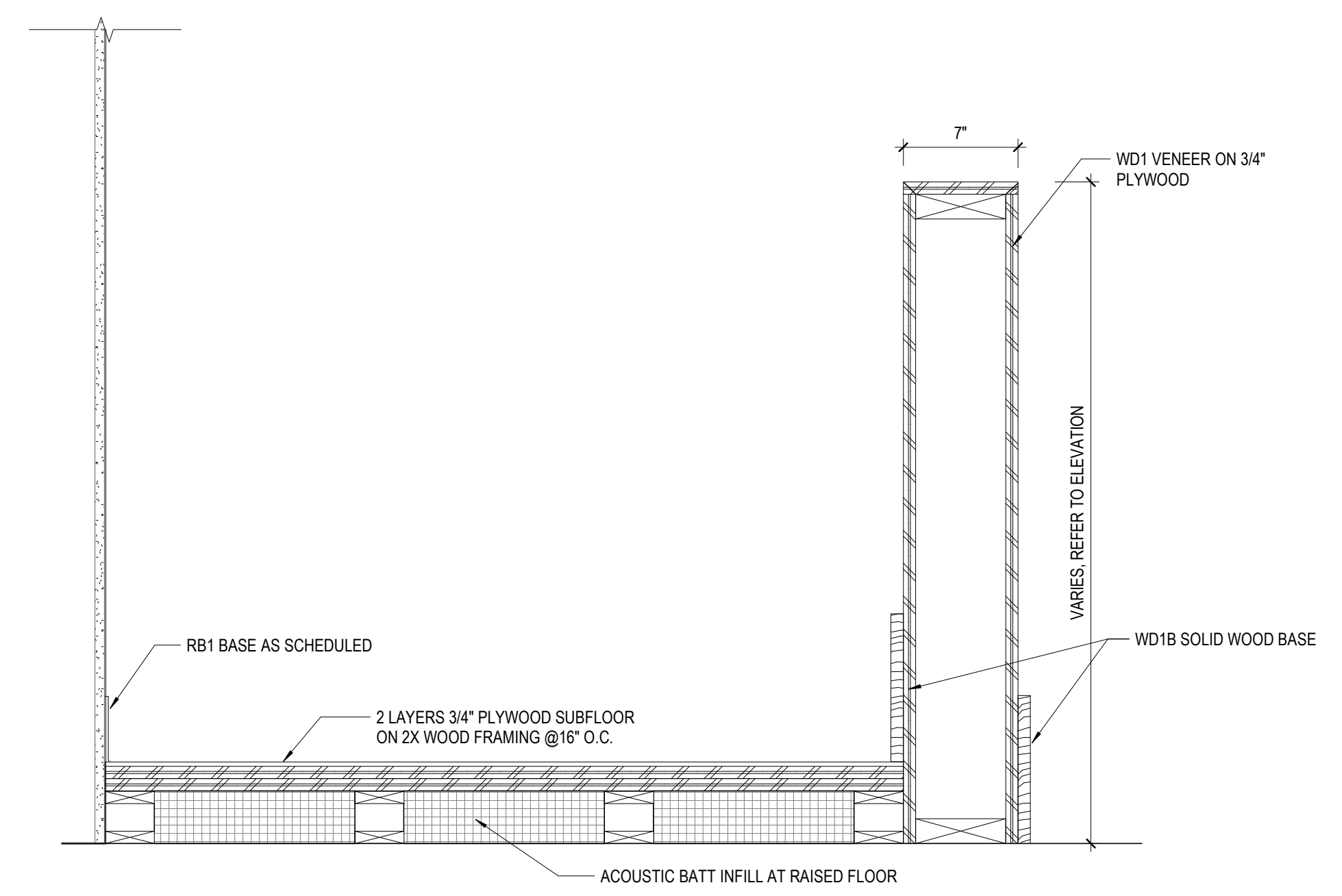
**B6** NON-RATED PARTITION  
NOT TO SCALE



**A1** SECTION - MILLWORK - CABINET  
1 1/2" = 1'-0"

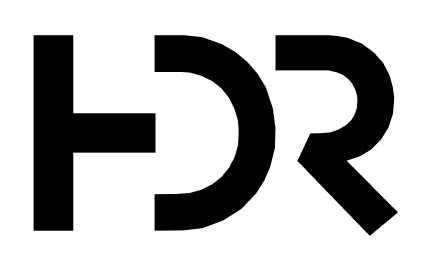


**A3** SECTION - MILLWORK - SIGN IN  
1 1/2" = 1'-0"



**A5** SECTION - DAIS - RAMP  
1 1/2" = 1'-0"

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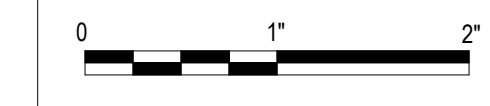


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DESIGNED BY	J. TABOR
DRAWN BY	J. WILLIAMS / P. VELAZQUEZ
CHECKED BY	J. MARCYNIAK & J. HALLORAN
PROJECT NUMBER	10385465

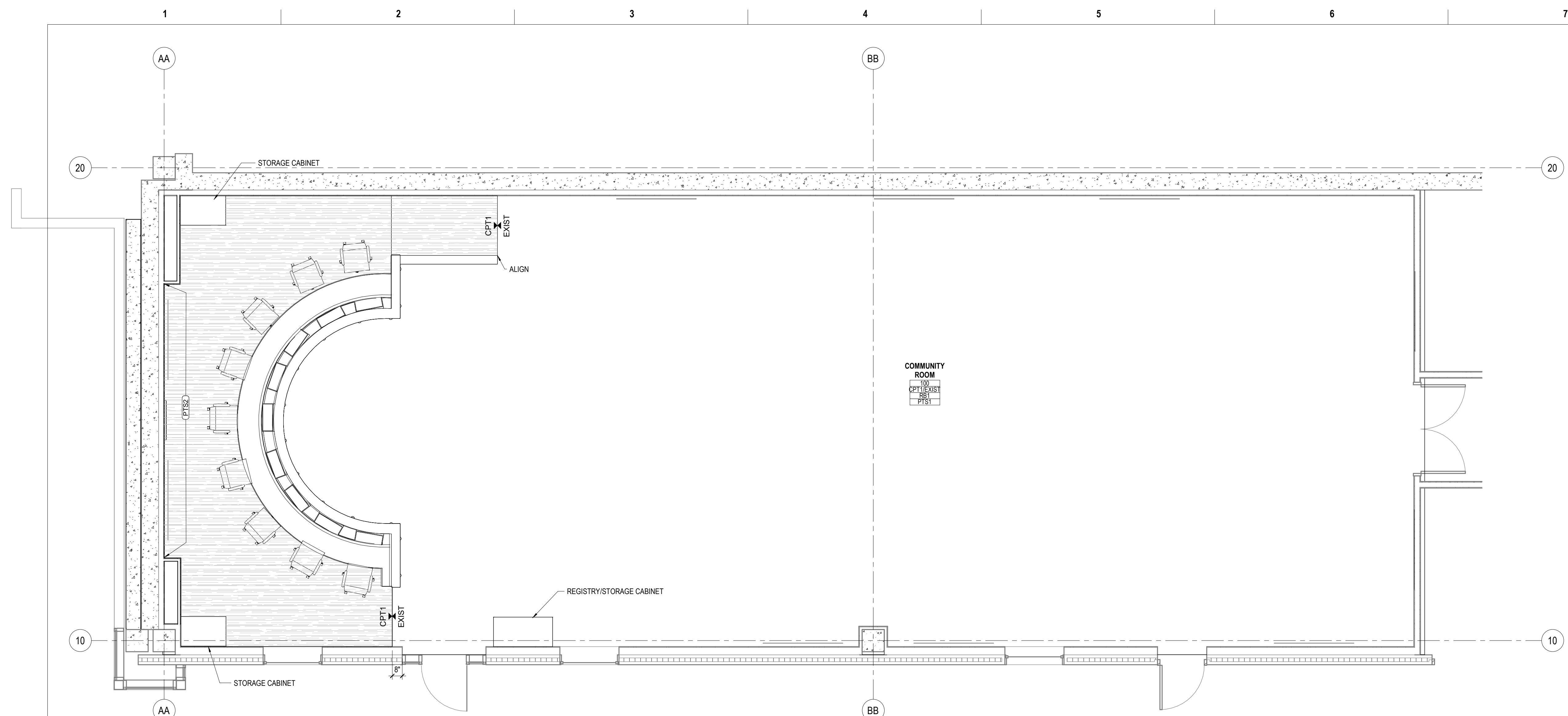


**CITY OF BELMONT  
COUNCIL DAIS  
RENOVATION**



FILENAME  
SCALE As indicated

SHEET  
**A-252**



**INTERIOR FINISH PLAN LEGEND**

ROOM NAME	ROOM NUMBER	FLOOR FINISH	BASE FINISH	WALL FINISH
101				

CPT1

**HDR INSTRUCTION:**  
REVIEW AND MODIFY LEGEND AS NECESSARY TO MEET PROJECT REQUIREMENTS

**INTERIOR FINISH GENERAL NOTES**

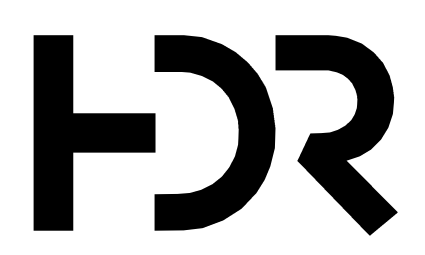
- REFER TO ASSOCIATED SPECIFICATION SECTION FOR DETAILED INFORMATION, SHEET SERIES G-002 TO G-005.
- ANY COLOR SUBSTITUTE SHALL BE REQUESTED TO THE ARCHITECT.
- CONSISTENT MATERIAL COLORS AND PATTERNS SHALL BE PROVIDED. PROVIDE MATERIALS FROM SAME PRODUCT RUN.
- FINISH INDICATED AS "EXIST" MEANS "EXISTING TO REMAIN".
- UNLESS OTHERWISE INDICATED, DO NOT PAINT FACTORY-FINISHED OR INSTALLER-FINISHED ITEMS.
- ALL INTERIOR FINISHES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INSTALLER SHALL BE QUALIFIED TO INSTALL SPECIFIC FINISH MATERIAL AND HAVE EXPERIENCE WITH PROJECTS OF SIMILAR SIZE AND COMPLEXITY.
- EXTEND FLOORING UNDER LAV/SINK BASE CABINETS AND OPEN KNEE SPACE.
- CASEWORK TOE-KICK HEIGHT TO MATCH BASE HEIGHT IN ROOM.
- WALL BASE DOES NOT EXTEND OVER STOREFRONT OR OTHER SPECIALTY WALL FINISH UNLESS SHOWN OTHERWISE.
- ALL WOOD GRAIN SHALL RUN VERTICALLY.

**A1 INTERIOR FINISH PLAN - BASEMENT**  
1/4" = 1'-0"

I-001s - INTERIOR FINISH LEGEND					
CODE	MANUFACTURER	SERIES/STYLE	COLOR	SIZE	COMMENTS
<b>06 20 00 FINISH CARPENTRY</b>					
WD1	SEE SPECIFICATION	MAPLE, QTR. SAWN, VENEER	CLEAR	--	PROVIDE MATCHING VENEER EDGE BAND AT EXPOSED EDGES. ALL EDGE BANDING TO MATCH VENEER SPECIES AND FINISH.
WD1B	SEE SPECIFICATION	MAPLE, QTR. SAWN, SOLID WOOD	CLEAR	--	SOLID WOOD BASE / REFER TO C1/A-251 FOR BASE PROFILE
WD1T	SEE SPECIFICATION	MAPLE, QTR. SAWN, SOLID WOOD	CLEAR	--	SOLID WOOD TRIM / REFER TO C1/A251
<b>09 51 00 ACOUSTICAL CEILINGS</b>					
ACT1	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	EXISTING CEILING TO REMAIN, PATCH AND REPAIR CEILING TILE IF DAMAGED DURING RENOVATION.
<b>09 65 13 RESILIENT BASE</b>					
RB1	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	BASE TO REMAIN AT EXISTING WOOD-LOOK LVT. PROVIDE NEW WALL BASE AT RAISED FLOOR TO MATCH EXISTING.
<b>09 68 13 TILE CARPETING</b>					
CPT1	SHAW CONTRACT	EMBARK TILE 5T040	SMOKE 37557	24" X 24" TILE	MONOLITHIC INSTALLATION
<b>09 91 23 INTERIOR PAINTING</b>					
PTS1	PPG	STAIN RESISTANT / EGG SHELL	1002-1 SILVER FEATHER	--	--
PTS2	PPG	STAIN RESISTANT / EGG SHELL	TO MATCH BELMONT BRAND BLUE	--	--
<b>12 36 63 SOLID SURFACE FABRICATIONS</b>					
SSF1	WILSONART	--	MOON GEYSER 9209CM	--	--

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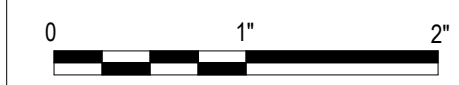
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DESIGNED BY:	J. TABOR
DRAWN BY:	J. WILLIAMS / P. VELAZQUEZ
CHECKED BY:	J. MARCYNIAK & J. HALLORAN
PROJECT NUMBER:	10385465
ISSUE DATE:	02/2024
DESCRIPTION:	ISSUED FOR BID



**CITY OF BELMONT  
COUNCIL DAIS  
RENOVATION**



FILENAME: \_\_\_\_\_  
SCALE: As indicated

SHEET  
**I-101**



**A1** RENDERING-DAIS-COUNCIL AREA  
1/2" = 1'-0"



**A2** RENDERING-DAIS-FRONT  
1/2" = 1'-0"



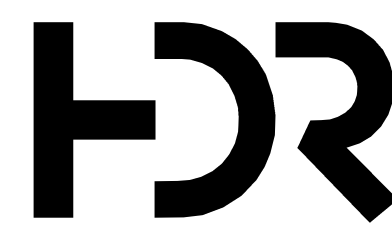
**A3** RENDERING - RIGHT FRONT



**A4** RENDERING - LEFT FRONT

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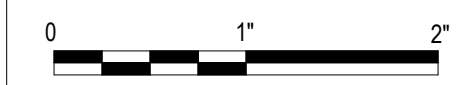


ISSUE	DATE	DESCRIPTION
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DESIGNED BY	J. TABOR
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PROJECT NUMBER	10385465



**CITY OF BELMONT  
COUNCIL DAIS  
RENOVATION**

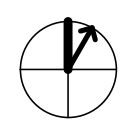


**RENDERINGS**

FILENAME  
SCALE 1/2" = 1'-0"

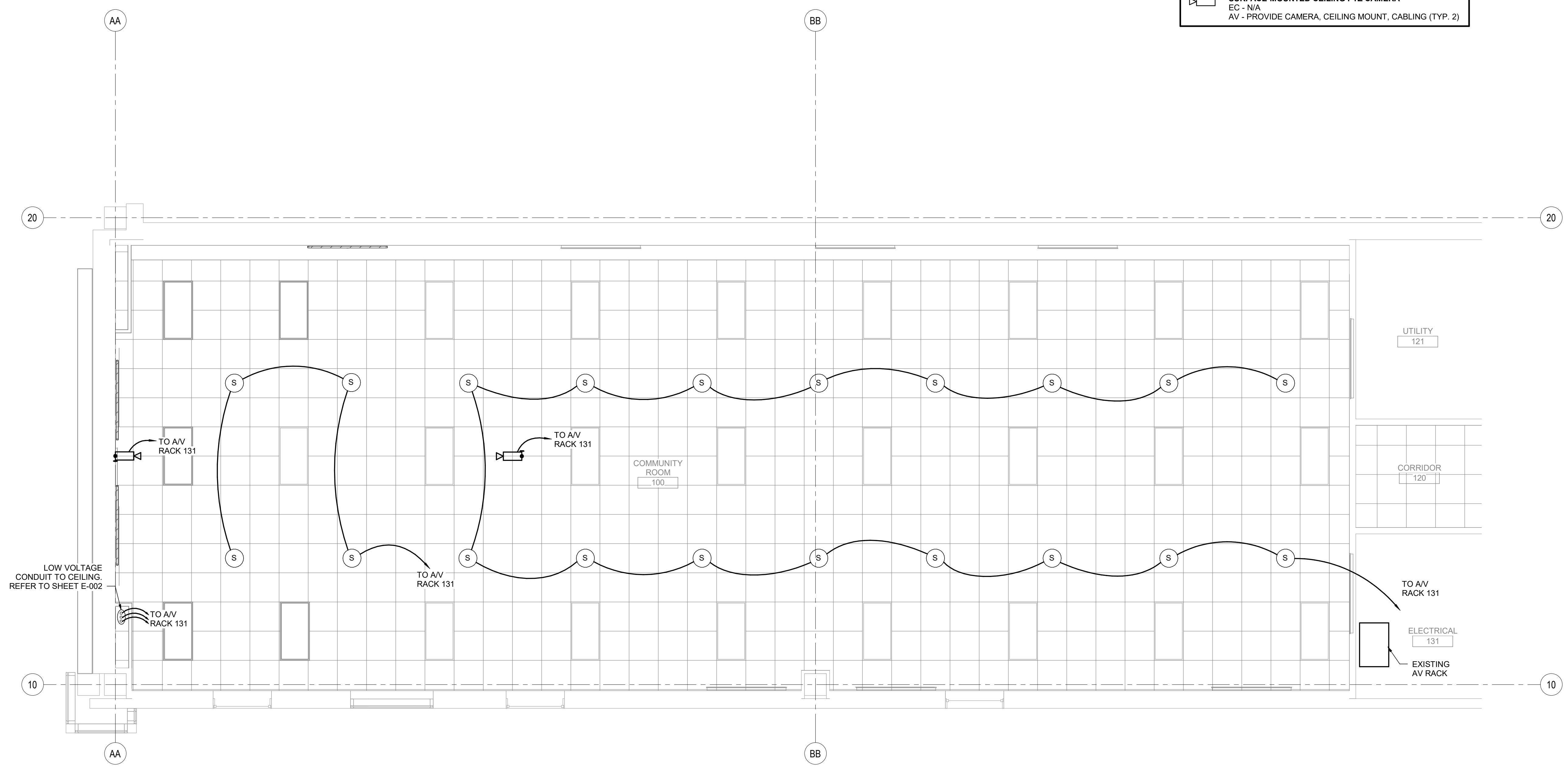
SHEET  
**I-905**

1 2 3 4 5 6 7 8



AV DEVICE LEGEND	
	<b>FLUSH-MOUNTED CEILING LOUDSPEAKER</b> EC - N/A AV - PROVIDE LOUDSPEAKER AND CABLING (TYP. 20)
	<b>SURFACE-MOUNTED CEILING PTZ CAMERA</b> EC - N/A AV - PROVIDE CAMERA, CEILING MOUNT, CABLING (TYP. 2)

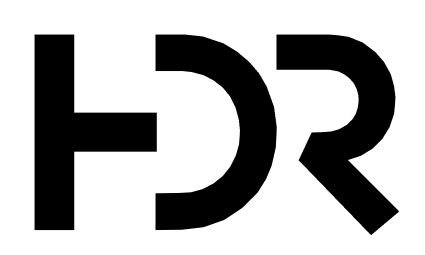
- GENERAL NOTES**
- 1 ALL AV SCOPE SHOWN ON THIS DRAWING IS FOR ILLUSTRATIVE/COORDINATION PURPOSES ONLY. LOCATION OF DEVICES IS APPROXIMATE.
  - 2 THE AV SCOPE IS A DEFERRED DESIGN BY THE AV SUBCONSULTANT. AV SUBCONSULTANT TO FURNISH AND INSTALL AV EQUIPMENT TO COMPLETE A FULLY FUNCTIONING SYSTEM. REFER TO AV SCOPE INCLUDED AS AN ATTACHMENT IN THE BID FORM WITH THE SPECIFICATIONS.
  - 3 LOW VOLTAGE AV CABLING TO AV RACK IN ROOM 131 WILL BE RAN FREE AIR ABOVE CEILING AND MUST MEET PLENUM RATING IF REQUIRED.
  - 4 ALL RACEWAYS, CONDUIT, BOXES, AND BACKBOXES PROVIDED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.



**AV CEILING PLAN**  
1/4" = 1'-0"

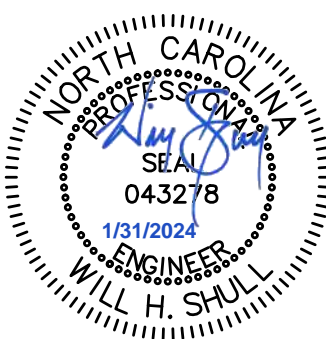
Autodesk Docs/10377915\_Belmont\_General & Misc\_Sep\_2022/10377915-00-E.rvt 1/31/2024 11:40:07 AM

HDR Engineering Inc.  
of the Carolinas  
  
440 S. Church Street, Suite 1000  
Charlotte, NC, 28202  
704.338.6700  
  
N.C.B.E.L.S Licence Number: F-0116



ISSUE	DATE	DESCRIPTION
	02/2024	ISSUED FOR BID

PROJECT MANAGER	W. SHULL, P.E.
DESIGNED BY:	M. DAVIS
DRAWN BY:	J. NUR
CHECKED BY:	W. SHULL, P.E.
PROJECT NUMBER	10385465



**CITY OF BELMONT  
COUNCIL DAIS  
RENOVATION**

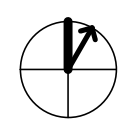
**COMMUNITY ROOM AUDIO/VISUAL REFLECTED CEILING PLAN**



FILENAME | 10377915-00-E.rvt  
SCALE | 1/4" = 1'-0"

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**AV-001**

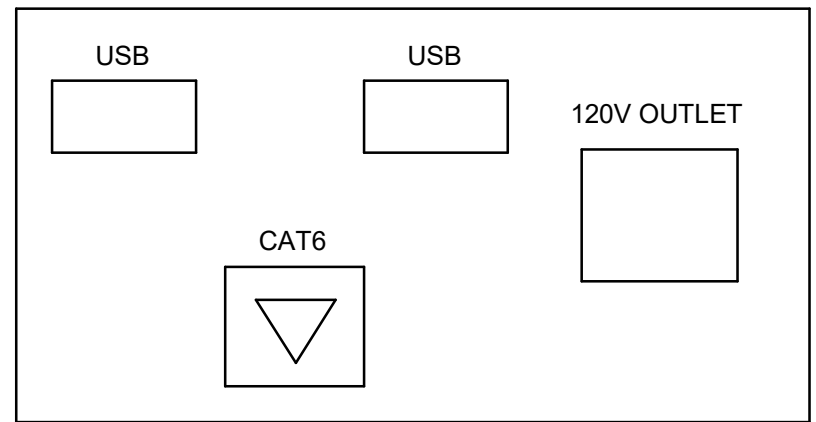
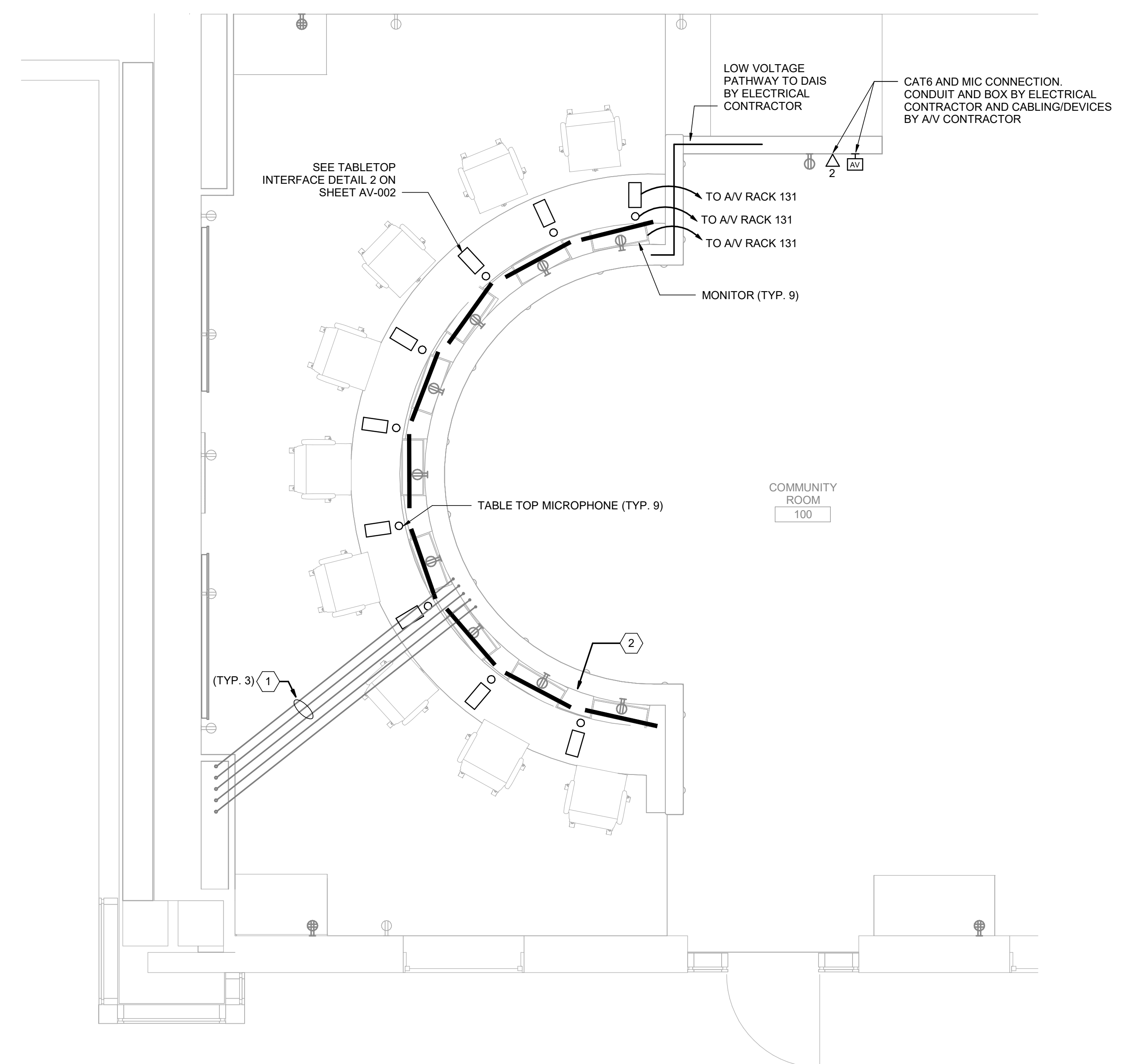




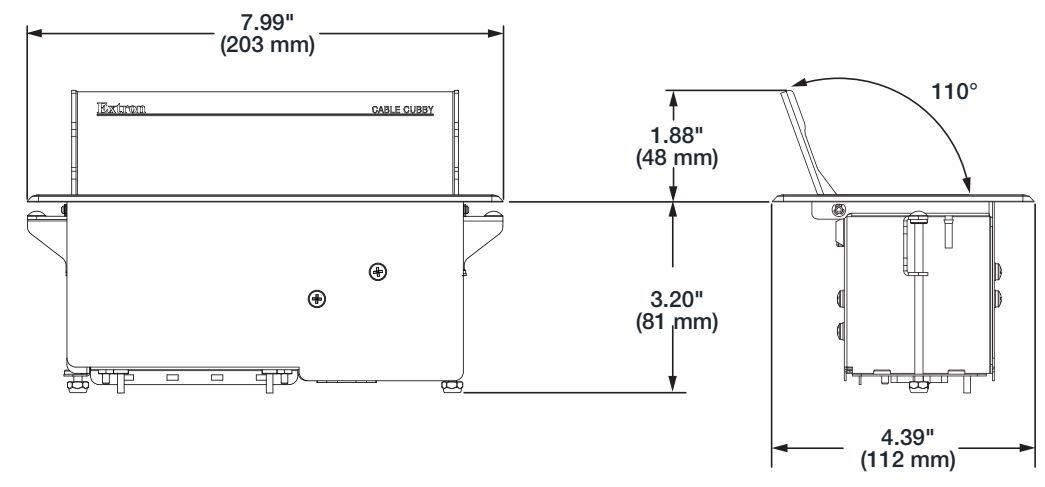
**AV DEVICE LEGEND**

	<b>AV J-BOX FOR LECTERN VIDEO</b> EC - PROVIDE 4" DEEP BOX WITH 1-GANG PLASTER RING AND LOW VOLTAGE PATHWAY TO DAIS AV - PROVIDE CABLING AND PLATE
	<b>2-PORT DATA FOR LECTERN</b> EC - PROVIDE 4" DEEP BOX WITH 1-GANG PLASTER RING AND LOW VOLTAGE PATHWAY TO DAIS AV/TELECOM - PROVIDE CABLING AND PLATE

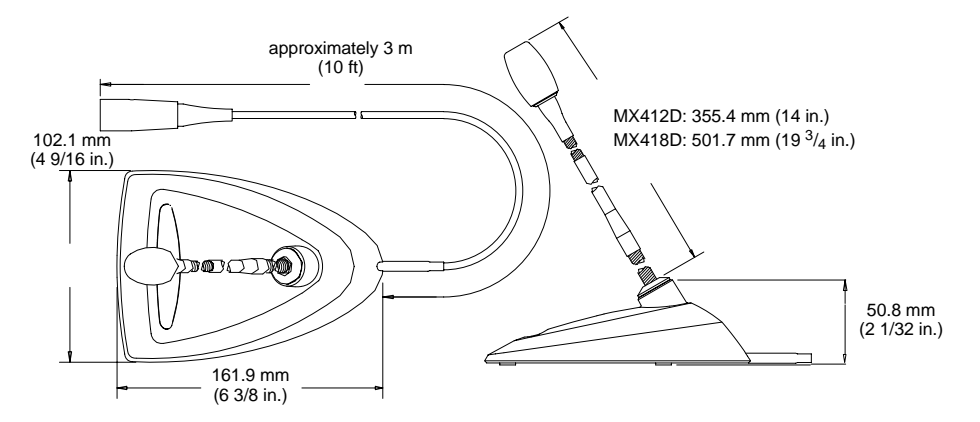
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  - THE AV SCOPE IS A DEFERRED DESIGN BY THE AV SUBCONSULTANT. AV SUBCONSULTANT TO FURNISH AND INSTALL AV EQUIPMENT TO COMPLETE A FULLY FUNCTIONING SYSTEM. REFER TO AV SCOPE INCLUDED AS AN ATTACHMENT IN THE BID FORM WITH THE SPECIFICATIONS.
  - LOW VOLTAGE AV CABLING TO AV RACK IN ROOM 131 WILL BE RAN FREE AIR ABOVE CEILING AND MUST MEET PLENUM RATING IF REQUIRED.
  - ALL RACEWAYS, CONDUIT, BOXES, AND BACKBOXES PROVIDED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.



**2 TABLE TOP INTERFACE A/V DETAIL**  
NOT TO SCALE



**3 TABLE TOP INTERFACE DETAIL**  
NOT TO SCALE



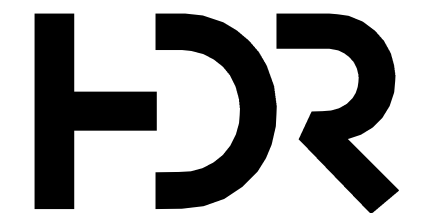
**4 TABLE TOP MICROPHONE DETAIL**  
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- KEYNOTES (#)**
- ROUTE LOW VOLTAGE CABLING THROUGH AV CONDUITS TO ACCESSIBLE CEILING. REFER TO KEY NOTE 3 AND 5 ON SHEET E-002.
  - REMOVABLE PANELS ARE PROVIDED THROUGHOUT THE DAIS FOR ROUTING LOW VOLTAGE CABLE. REFER TO B4/A-125.

**COMMUNITY ROOM AUDIO/VISUAL FLOOR PLAN - ENLARGED**  
3/8" = 1'-0"

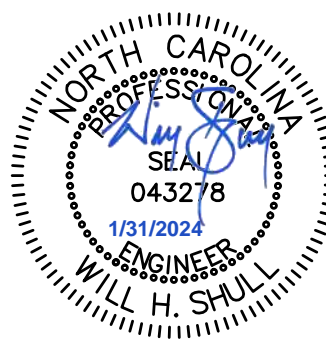
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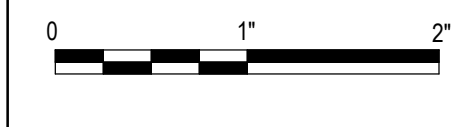
ISSUE	DATE	DESCRIPTION
	02/2024	ISSUED FOR BID

<b>PROJECT MANAGER</b>	W. SHULL, P.E.
DESIGNED BY:	M. DAVIS
DRAWN BY:	J. NUR
CHECKED BY:	W. SHULL, P.E.
<b>PROJECT NUMBER</b>	10385465



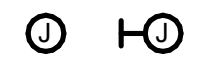






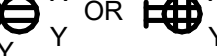




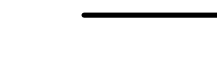




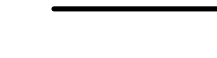

**CITY OF BELMONT  
COUNCIL DAIS  
RENOVATION**

**COMMUNITY ROOM AUDIO/VISUAL FLOOR PLAN - ENLARGED**



FILENAME | 10377915-00-E.rvt  
SCALE | 3/8" = 1'-0"

SHEET  
**AV-002**

-  JUNCTION OR PULL BOX, CEILING OR WALL MOUNTED
-  PANELBOARD (250V TO 600V)
-  PANELBOARD (LESS THAN 250V)
-  PLUG-IN RECEPTACLE STRIP, QUANTITY AND SPACING OF RECEPTACLES AS NOTED OR SPECIFIED
-  SPECIAL-PURPOSE RECEPTACLE AS DEFINED
-  TYPE LEGEND
-  W - 30A WELDING RECEPTACLE
-  TWO RECEPTACLES IN 2-GANG BOX UNDER COMMON COVER PLATE
-  DUPLEX RECEPTACLE
-  SIMPLEX RECEPTACLE
-  CEILING MOUNTED QUAD RECEPTACLE
-  RECESSED FLOOR MOUNTED BOX, QUANTITY AND TYPE OF RECEPTACLES AS INDICATED
- SUBSCRIPTS:
- X - INDICATES TYPE
- GFCI - GROUND FAULT CIRCUIT INTERRUPTER
- IG - ISOLATED GROUND
- TR - TAMPER RESISTANT
- PLH - PLUG LOAD HALF CONTROLLED
- PLD - PLUG LOAD DUAL CONTROLLED
- USB - USB CHARGING STATION
- SPD - SURGE PROTECTIVE DEVICE
- Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD
-  CONDUIT TURNING UP
-  CONDUIT TURNING DOWN
-  HOMERUN TO PANEL  
SINGLE PHASE: 2 #12, 1 #12G IN 3/4" C  
THREE PHASE: 3 #12, 1 #12G IN 3/4" C  
UNLESS OTHERWISE NOTED, CONDUCTOR SIZE IS FOR ENTIRE CIRCUIT.
-  CONDUIT CONNECTION TO EQUIPMENT
- CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS, CONCEALED IN ARCHITECTURALLY FINISHED AREAS, CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.
- CONDUIT RUN BETWEEN DEVICES CONCEALED IN NON-ARCHITECTURALLY FINISHED AREAS OR UNDER FLOOR SLAB, CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.
- CIRCUIT HASH MARKS (WHEN INDICATED); LONG, SHORT, SINGLE DOT, AND DOUBLE DOT REPRESENT PHASE, NEUTRAL, EQUIPMENT GROUND, AND ISOLATED EQUIPMENT GROUND, RESPECTIVELY. #12 IN 3/4" CONDUIT UNLESS OTHERWISE INDICATED.
-  CIRCUIT CONTINUATION
-  CONDUIT STUBBED OUT AND CAPPED
-  CORD AND PLUG CONNECTION

### ABBREVIATIONS

EGB	ELECTRIC GROUND BAR
EWC	ELECTRIC WATER COOLER
EV	ELECTRIC VEHICLE PARKING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
LTG	LIGHTING
RCPT	RECEPTACLE
PPC	POWER FACTOR CORRECTION UNIT
ETU	ELECTRONIC TRIP UNIT

### 260101 BASIC ELECTRICAL REQUIREMENTS

- A. THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES AS NECESSARY FOR THE COMPLETE AND SATISFACTORY OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS.
- B. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA, STATE BUILDING CODE, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY.
- C. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL ELECTRICAL PERMITS AND INSPECTION FEES.
- D. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY THE UNDERWRITER'S LABORATORIES, INC. OR BY A STATE APPROVED THIRD PARTY TESTING AGENCY FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE EXISTS. ALL ITEMS OF THE SAME TYPE AND RATING SHALL BE IDENTICAL AND OF THE SAME MANUFACTURER.
- E. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG DATA IN ELECTRONIC FORMAT (PDF) FOR ALL ELECTRICAL ITEMS IN THE SCOPE OF WORK, INCLUDING, BUT NOT LIMITED TO, RACEWAYS, BOXES, FITTINGS, CONDUCTORS, ETC. FOR APPROVAL AS APPLICABLE FOR THE PROJECT. ONE COMPLETE SET OF APPROVED SUBMITTALS SHALL BE MAINTAINED AT THE JOB SITE.
- F. ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH THE BASIS OF DESIGN, INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, CONDUIT WIRING, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, METHODS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID. NO ADDITIONAL COSTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT WILL BE APPROVED AFTER BIDS HAVE BEEN ACCEPTED AND ALL COSTS WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. CREDITS SHALL BE GIVEN TO THE OWNER WHERE SUCH EQUIPMENT AND METHODS RESULT IN LESS EXPENSE TO THE CONTRACTOR.
- G. ONE COMPLETE SET OF THE LATEST CONSTRUCTION PLANS OF ALL TRADES SHALL BE MAINTAINED AT THE JOB SITE. IN ADDITION, ALL ADDENDUMS, BULLETINS, AND/OR SKETCHES SHALL BE INCORPORATED INTO THE ON-SITE CONSTRUCTION PLANS AS THE JOB PROGRESSES.
- H. COMPLETELY ADEQUATE HOUSING SHALL BE PROVIDED FOR ALL MATERIALS STORED ON JOB SITE. ONLY CONDUIT MAY BE STORED OUTSIDE, BUT NOT IN CONTACT WITH THE GROUND.
- I. WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED. FAULTY WIRING SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- J. PROVIDE ALL CUTTING AND PATCHING FOR INSTALLATION OF WORK AND REPAIR ANY DAMAGE DONE.
- K. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (UNLESS OTHERWISE NOTED), EXCEPT FOR CONTROL WIRING FOR EQUIPMENT NOT PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING FOR SUCH EQUIPMENT SHALL BE PROVIDED BY THE RESPECTIVE DISCIPLINE.
- L. ALL ELECTRICAL JUNCTION BOXES, SWITCHGEAR, CABLING, VOICE/DATA OUTLETS, LOW VOLTAGE CABINETS, EMERGENCY RECEPTACLES, ETC. SHALL BE LABELED ACCORDING TO PANEL/RACK AND CIRCUIT NUMBER.
- M. UPON COMPLETION OF WORK, CONTRACTOR SHALL PRESENT ENGINEER WITH CERTIFICATE OF APPROVAL FROM LOCAL AND/OR AUTHORITY HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.
- N. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR EFFECTIVE THE DATE THE PROJECT IS ACCEPTED BY THE OWNER. ANY IMPERFECT MATERIALS OR WORKMANSHIP SHALL BE REPLACED WITHOUT ADDED COST TO THE PROJECT.
- O. IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL NECESSARY ITEMS FOR A COMPLETE AND OPERATING SYSTEM.
- P. THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT, CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION. ALL LABOR, PRODUCT OPTIONS, ACCESSORIES AND INCIDENTAL MATERIALS REQUIRED SHALL BE INCLUDED AS PART OF THIS WORK TO COMPLETE THE INSTALLATION.
- Q. THE WORD "CONNECT" MEANS THAT THIS CONTRACTOR SHALL PROVIDE (SEE DEFINITION ABOVE) ALL DISCONNECTING MEANS, OVERCURRENT PROTECTION AND WIRING REQUIRED TO PLACE THE EQUIPMENT AND SYSTEMS IN PROPER OPERATING CONDITION AND TO COMPLY WITH CODE REQUIREMENTS.
- R. CONTRACTOR SHALL COORDINATE THE ROUTING OF ALL OUTLET LOCATIONS WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS, AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.
- S. ELECTRICAL CONTRACTOR SHALL NOT SCALE PLANS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, UNLESS OTHERWISE NOTED.
- T. CONTRACTOR TO PAINT WHERE EXISTING EXPOSED PANELBOARDS, SURFACE RACEWAY, SURFACE BOXES, ETC. HAVE BEEN REMOVED DURING THE DEMOLITION PHASE, EITHER FOR TEMPORARY WORK OR PERMANENTLY.
- U. IF DURING THE COURSE OF WORK, THE CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NEC, OR OTHER CODES OR REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.
- V. WHERE THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL BRING THE ISSUE TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK OR ORDERING ANY MATERIALS. NO ADDITIONAL COSTS SHALL BE WARRANTED WITHOUT A CHANGE TO THE PROJECT SCOPE.

### 260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES:

- A. CONDUCTORS SHALL BE MANUFACTURED BY SOUTHWIRE (SIMPULL), ENCORE (SUPERSLICK), UNITED COPPER (SLK), CERRO (SLP), OR APPROVED EQUAL, "PRE-LUBRICATED" BY THE MANUFACTURER.
- B. ALL CONDUCTORS SHALL BE COPPER, RATED 75° C WET/DRY EXCEPT WHERE OTHERWISE NOTED OR REQUIRED BY U.L. OR OTHER CODES.
- C. ALL CONDUCTORS SHALL BE SINGLE INSULATED CONDUCTOR, THHN/THWN-2. SIZES #10 AWG AND SMALLER SHALL BE SOLID. SIZES #9 AWG AND LARGER SHALL BE STRANDED. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG. CONTROL WIRING MAY BE #14 AWG.
- E. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS AND BROWN/ORANGE/YELLOW FOR 277/480 VOLT SYSTEMS FOR A, B, AND C PHASES, RESPECTIVELY. NEUTRAL SHALL BE WHITE FOR 120/208 VOLT SYSTEMS AND NATURAL GRAY FOR 277/480 VOLT SYSTEMS. GROUND CONDUCTOR SHALL BE GREEN ON ALL SYSTEMS. ALL CONDUCTOR SIZES SHALL HAVE COLOR-CODED INSULATION. THE USE OF COLORED TAPE ON LARGER WIRE SIZES SHALL NOT BE ALLOWED.
- F. INSULATION SHALL BE DUAL RATED TYPE THHN/THWN-2 FOR FEEDERS AND BRANCH CIRCUITS. FIXTURE TAPS SHALL BE #12 THHN/THWN-2 IN FLEX WITH GREEN #12 AWG GROUNDING CONDUCTOR.
- G. ALL CONDUCTORS SHALL BE IN CONDUIT.
- H. WIRING TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY UL LABEL.
- I. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE ALLOWED, UNLESS EXPLICITLY INDICATED ON THE DRAWINGS, WHERE EXPLICITLY INDICATED ON THE DRAWINGS:

1) ALL 20A MULTI-WIRE RECEPTACLE CIRCUITS SHALL UTILIZE A #10 AWG NEUTRAL CONDUCTOR.

OR

### 260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (CONTINUED):

- 2) ONLY WHERE PERMITTED UNDER "RACEWAYS", MC CABLE ASSEMBLIES CAN BE AFC "SUPER NEUTRAL" OR EQUAL, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. WHERE MULTI-WIRE BRANCH CIRCUITS ARE EXPLICITLY INDICATED ON THE DRAWINGS, THEY SHALL BE INSTALLED PER NEC 210.4. MEANS SHALL BE PROVIDED TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES IN ADDITION TO OTHER REQUIREMENTS PER NEC 210.4.
- J. JOINTS IN #10 AWG AND SMALLER SHALL BE MADE UP WITH CRIMPED CONNECTORS WITH INSULATING CAPS (NO TAPE) OR WIRENUTS (MAXIMUM OF 3 CONDUCTORS UNDER ANY CONNECTOR OR WIRENUT). LARGER WIRE SHALL USE SPLIT BOLTS OR BOLTED CLAMPS.
- K. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING, BUT NOT LIMITED TO, BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, MOTOR STARTER LUGS, TRANSFORMERS LUGS, WIRING DEVICE TERMINALS, AND ALL EQUIPMENT LUGS/TERMINALS SHALL BE RATED FOR USE WITH 75 DEGREE INSULATED CONDUCTORS AT THEIR 75 DEGREE AMPACITY AND SHALL BE SIZED AND SELECTED TO MATCH THE CONDUCTOR SIZE AND MATERIAL.
- L. CIRCUIT JOINTS SHALL NOT BE MADE ON DEVICE TERMINALS.
- M. WIRE WITHIN PANELBOARDS SHALL BE NEATLY TRAINED, SQUARED, BUNCHED, AND TAGGED.
- N. ALL SYSTEM FURNITURE CONNECTIONS SHALL COMPLY WITH NEC 605.
- O. GROUND ALL EQUIPMENT PER NEC ARTICLE 250. BOND WHERE CONDUITS ENTER ENCLOSURES THROUGH CONCENTRIC KNOCKOUTS. ALL FLEX, INCLUDING FIXTURE TAPS, SHALL INCLUDE GREEN GROUNDING CONDUCTOR, #12 AWG MINIMUM. PROVIDE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT AND FOR EACH CIRCUIT, SIZED PER NEC 250-122.
- P. ALL CONDUCTORS INSTALLED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AT INTERVALS AS REQUIRED PER NEC 300-19.
- Q. THE ELECTRICAL CONTRACTOR SHALL FOLLOW AND APPLY THE TABLE BELOW, REGARDLESS WHAT THE PANEL SCHEDULE INDICATES, FOR SIZING ALL 120V & 277V, 20 AMP BRANCH CIRCUITS (COPPER CONDUCTORS) TO ALLOW A MAXIMUM OF 3% VOLTAGE DROP FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE ON THE BRANCH CIRCUIT AND ACHIEVE A MAXIMUM OF 5% VOLTAGE DROP ACROSS THE ENTIRE BRANCH CIRCUIT:

VOLTAGE	CONDUCTOR LENGTH *	BRANCH CIRCUIT
120	0' - 50'	#12
120	51' - 90'	#10
120	91' - 140'	#8
120	141' - 225'	#6
277	0' - 125'	#12
277	126' - 200'	#10
277	201' - 330'	#8
277	331' - 525'	#6

\* THE LENGTH IS MEASURED FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE WHICH THE BRANCH CIRCUIT SERVES. WHERE THE DISTANCE EXCEEDS ABOVE, CONSULT WITH THE ENGINEER.

### 260534 CONDUITS:

- A. CONDUIT SHALL BE MANUFACTURED BY ALLIED, WHEATLAND, REPUBLIC CONDUIT, WESTERN TUBE, OR APPROVED EQUIVALENT.
- B. FOR INTERIOR WORK, CONDUIT SHALL BE ZINC COATED EMT EXCEPT WHERE NOT PERMITTED BY CODE.
- C. EMT FITTINGS SHALL BE COMPRESSION GLAND TYPE, OF MALLEABLE STEEL. CONNECTORS SHALL HAVE INSULATED THROATS. CAST, SET SCREW, OR INDENTER TYPE FITTINGS ARE NOT ACCEPTABLE. ALL FITTINGS FOR EMT SHALL BE MADE OF STEEL.
- D. ALL RACEWAY SHALL BE RUN CONCEALED, UNLESS OTHERWISE NOTED. FISH ALL NEW OUTLETS IN EXISTING WALLS, WHERE POSSIBLE. ALL RUNS SHALL BE NEAT AND SQUARE.
- E. LOW VOLTAGE CABLING NOT SPECIFIED TO BE INSTALLED IN CONDUIT, SHALL BE INSTALLED IN A CABLE TRAY SYSTEM OR J-HOOK SYSTEM CONSISTING OF MINIMUM 2" DIAMETER HOOKS LOCATED ON 3'-0" CENTERS IN ALL ACCESSIBLE CEILINGS, WHERE THERE ARE INACCESSIBLE CEILINGS, PROVIDE CONDUIT FOR ENTIRE LENGTH OF INACCESSIBILITY.
- F. RACEWAYS USED FOR LOW VOLTAGE SYSTEMS SUCH AS TELECOMMUNICATIONS, FIRE ALARM, SECURITY, CCTV, CONTROLS, AND SIMILAR CONDUITS ABOVE THE CEILING AND BACKBOARD(S) SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS AT EACH CONDUIT TERMINATION. THESE BUSHINGS SHALL BE BE INSTALLED PRIOR TO PULLING LOW-VOLTAGE CABLES.
- G. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH IMPERVIOUS, NON-SHRINK GROUT SUFFICIENTLY TIGHT TO PREVENT THE TRANSFER OF SMOKE, WATER, AND DUST. ROOF PENETRATIONS SHALL BE WITHIN THE EQUIPMENT ROOF CURB.
- H. SUPPORT ALL CONDUIT WITH STRAPS AND CLAMPS.
- I. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES, WHETHER EXPOSED OR NOT AND SUPPORTED FROM STRUCTURE AND PROPERLY SECURED.
- J. WHERE CONDUITS PASS THROUGH A BUILDING EXPANSION JOINT, PROVIDE GALVANIZED EXPANSION FITTINGS WITH BONDING JUMPERS.
- K. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR INTERIOR WORK, 1" FOR EXTERIOR WORK.
- L. PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY RACEWAYS.
- M. PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360°. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WHERE CONDUITS PASS UNDER PAVED AREAS, THEY SHALL BE RGS.
- N. ALL CONDUIT BENDS/ELBOWS EMERGING FROM UNDERGROUND SHALL BE IMC AND SHALL EXTEND A MINIMUM OF 18" BELOW GRADE.
- O. ALL UNDERGROUND RACEWAYS SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTUM BITUMASTIC.
- P. ALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SHALL HAVE JOINTS MADE WATERTIGHT BY USE OF POLYETRA-FLUOROETHYLENE TAPE.
- Q. AC AND MC CABLE MAY ONLY BE UTILIZED WHERE PERMITTED BY CODE AND IT SHALL ONLY BE ALLOWED WHERE CONCEALED BEHIND HARD WALLS AND HARD CEILINGS. MC CABLE SHALL NOT BE EXPOSED.

### 260537 BOXES:

- A. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED STEEL, ACCEPTED MANUFACTURERS SHALL BE STEEL CITY (THOMAS & BETTS), RACO, CROUSE-HINDS, APPLETON (EMERSON), OR APPROVED EQUIVALENT.
- B. OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS.
- C. ATTACH EMT WITH CONNECTORS HAVING INSULATED THROAT.
- D. ATTACH BOXES TO STUD WORK USING CADDY BAR STRAPS THAT CONNECT TO TWO ADJACENT STUDS TO PREVENT TWISTING OF BOX IN WALL.
- E. ALL OUTLET BOXES (INCLUDING TELEPHONE, CABLE TV, AND COMPUTER) SHALL HAVE COVER PLATES, BLANK IF NOT USED.

### 262413 AND 262416 SWITCHBOARDS AND PANELBOARDS:

- A. ALL BREAKERS SHALL BE AUTOMATIC THERMAL-MAGNETIC TYPE MOLDED CASE BOLT-ON TYPE, CALIBRATED FOR 40 DEGREE C, OR AMBIENT COMPENSATION, UNLESS OTHERWISE NOTED.
- B. BREAKERS USED FOR SWITCHING SHALL BE SWITCHING DUTY (SWD) RATED.
- C. BREAKERS USED FOR HEATING, AIR-CONDITIONING AND/OR REFRIGERATION SHALL BE HACR RATED.
- D. GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION WHERE A DEVICE LOCATION IS NOT ACCESSIBLE. THE GFCI PROTECTION SHALL BE PROVIDED WITH THE BREAKER SERVING THE DEVICE.
- E. ALL PANELBOARDS SHALL HAVE METAL DIRECTORY FRAME. FOR EACH PANELBOARD, PROVIDE TYPED CIRCUIT DIRECTORY PER NEC 408.4. SPARE CIRCUIT BREAKERS SHALL BE LABELED SPARE AND IN THE OFF POSITION.

### 262717 WIRING DEVICES:

- A. WIRING DEVICES SHALL BE SPECIFICATION GRADE, MINIMUM, EQUAL TO COOPER QUALITY INDICATED BELOW OR AS MANUFACTURED BY HUBBELL, LEGRAND-PASS & SEYMOUR, LEVITON, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED:

DUPLEX RECEPTACLES SHALL HAVE A NYLON FACE AND SHALL BE AS FOLLOWS:

15 AMP DUPLEX	COOPER 5252
20 AMP DUPLEX	COOPER 5352
15 AMP DUPLEX GFCI	COOPER SGF15F
20 AMP DUPLEX GFCI	COOPER SGF20F

THE PART NUMBERS ABOVE ARE FOR WIRING DEVICE TYPE ONLY. SEE BELOW FOR WIRING DEVICE COLOR AND PLATE MATERIAL/COLOR.

- B. SEE MOUNTING HEIGHT ELEVATION DETAIL FOR STANDARD MOUNTING HEIGHTS OF ALL DEVICES, UNLESS OTHERWISE NOTED.
- C. ALL WIRING DEVICES (RECEPTACLES) AND PLATES SHALL MATCH EXISTING IN MATERIAL AND COLOR, UNLESS OTHERWISE NOTED.
- D. EACH DUPLEX RECEPTACLE INDICATED TO BE ON A DEDICATED CIRCUIT SHALL BE 20 AMP TYPE.
- E. ADJACENT DEVICES SHALL HAVE A COMMON WALL PLATE.
- F. A MAX. OF 8 GENERAL PURPOSE RECEPTACLES SHALL BE ON EACH BRANCH CIRCUIT.

### 270100 TELECOMMUNICATIONS GENERAL REQUIREMENTS:

- A. TELECOMMUNICATION OUTLETS SHALL CONSIST OF A 4" SQUARE DEEP BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK PLATE WITH KNOCKOUTS FOR OUTLETS, AS PERMANENT COVERS WILL BE PROVIDED BY A SEPARATE INSTALLER.
- B. PROVIDE MINIMUM 1" RACEWAY, UNLESS OTHERWISE NOTED, FROM EACH BOX TO ABOVE NEAREST ACCESSIBLE CEILING SPACE FOR J-HOOK SYSTEM OR TO CABLE TRAY AS APPLICABLE. PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY RACEWAYS.
- C. PROVIDE GROUNDING FOR ALL TELEPHONE/DATA SYSTEMS AND EQUIPMENT PER REQUIREMENTS AND SPECIFICATIONS PROVIDED BY THE OWNERS DESIGNATED VENDOR.

### GENERAL REQUIREMENTS:

#### ELECTRICAL COORDINATION WITH OTHER TRADES:

- A. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTIONS PRIOR TO ROUGH-IN USING APPROVED CATALOG SHEETS AND SHOP DRAWINGS.

#### DEMOLITION NOTES:

- A. PARTIAL AND TOTAL DEMOLITION OF PORTIONS SHALL BE PERFORMED ALONG WITH ALL NECESSARY MODIFICATIONS TO THAT PORTION OF THE EXISTING BUILDING WHICH SHALL REMAIN SO THAT IT CONTINUES TO FUNCTION UNAFFECTED BY THE DEMOLITION AND ASSOCIATED NEW CONSTRUCTION.
- B. WHERE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, THE DRAWINGS INDICATE THE GENERAL AREAS OF WORK INVOLVED. HOWEVER, THE ELECTRICAL CONTRACTOR SHALL PERFORM WORK OUTSIDE THOSE AREAS SHOWN AS IS NECESSARY TO COMPLY WITH THE INTENT OF THIS SECTION.
- C. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXISTING BUILDING AND WITH THE WORK OF ALL OTHER TRADES AND INCLUDE ALL WORK NECESSARY TO COMPLY WITH THE INTENT OF THE DEMOLITION.
- D. IT SHALL BE UNDERSTOOD THAT FIELD CONDITIONS MAY BE ENCOUNTERED DURING THE EXECUTION OF THIS CONTRACT WHICH WILL REQUIRE EXTENSION OR RELOCATION OF EXISTING SYSTEMS OR EQUIPMENT WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, BUT WHICH ARE REQUIRED TO MEET THE STATED INTENT THAT THE BUILDING CONTINUE TO FUNCTION UNAFFECTED BY THE DEMOLITION AND ASSOCIATED NEW CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL INCLUDE SUCH WORK AS WOULD NORMALLY BE EXPECTED IN AN EXISTING BUILDING OF THIS AGE AND TYPE.
- E. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TOOLS, EQUIPMENT, LABOR, ETC. IN ORDER TO ACCOMPLISH THE DEMOLITION PORTION OF THE PROJECT.
- F. THE DEMOLITION OF CERTAIN AREAS OF THE EXISTING BUILDING SHALL BE PERFORMED BY THE GENERAL CONTRACTOR. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE GENERAL CONTRACTOR TO DIFFERENTIATE THE SCOPE OF WORK BETWEEN SEPARATE TRADES.
- G. THE ELECTRICAL CONTRACTOR SHALL INCLUDE COORDINATION WITH THE GENERAL CONTRACTOR AND SUCH DEMOLITION OF THE EXISTING ELECTRICAL SYSTEMS AS IS NECESSARY SO THAT THE DEMOLITION WORK OF THE GENERAL CONTRACTOR SHALL NOT DAMAGE THOSE PORTIONS OF THE ELECTRICAL SYSTEMS WHICH ARE TO REMAIN IN SERVICE, ARE TO BE REUSED, OR ARE TO BECOME THE PROPERTY OF THE OWNER.
- H. TURN OVER TO OWNER, UPON REQUEST OR AS NOTED, ITEMS SHOWN AS BEING REMOVED AND NOT REINSTALLED. ITEMS NOT DIRECTED OR REQUESTED TO BE TURNED OVER TO THE OWNER SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.
- I. EQUIPMENT OR MATERIALS WHICH ARE TO BE REUSED OR TURNED OVER TO THE OWNER SHALL BE CAREFULLY REMOVED, CLEANED, AND STORED IN A CLEAN AND DRY AREA. SHOULD THE ELECTRICAL CONTRACTOR ENCOUNTER SUCH EQUIPMENT WHICH IS NOT IN SATISFACTORY CONDITION FOR REUSE AND NOT IN WORKING ORDER, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
- J. DISCONNECT ELECTRICAL SERVICES TO ALL EQUIPMENT REQUIRING REMOVAL. CONDUIT SHALL BE REMOVED BACK TO THE POINT WHERE IT WILL BE CONCEALED AT THE COMPLETION OF THIS CONTRACT. WIRE AND CABLE SHALL BE REMOVED BACK TO THE FIRST OUTLET BOX, CABINET, OR TERMINATION POINT WHICH IS TO REMAIN. CIRCUITS WHICH ARE NOT REUSED SHALL BE REMOVED BACK TO THE SOURCE IN THEIR ENTIRETY.
- K. WHERE EXISTING BRANCH CIRCUITS AND SYSTEMS ARE INTERRUPTED BY NEW WORK OR SYSTEMS (ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ETC.), EXTEND AND RECONNECT THOSE CIRCUITS AND SYSTEMS. WHERE THOSE CIRCUITS OR SYSTEMS MUST REMAIN IN SERVICE DURING THE EXECUTION OF THIS CONTRACT, PROVIDE TEMPORARY CONNECTIONS UNTIL FINAL CONNECTIONS ARE COMPLETE.

#### TESTING AND DOCUMENTATION:

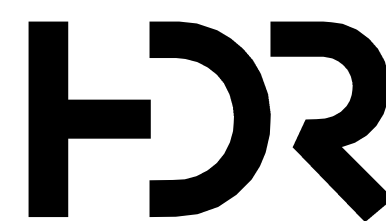
- A. TESTING AND DOCUMENTATION SHALL BE PROVIDED AS FOLLOWS:
  - 1) ALL CONDUCTORS SHALL BE MEGGERED BEFORE FINAL CONNECTIONS.

1. THIS IS A STANDARD ELECTRICAL SYMBOLS SHEET. NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

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704.338.6700

N.C.B.E.L.S. Licence Number: F-0116



PROJECT MANAGER W. SHULL, P.E.

DESIGNED BY: P. HAVANAS  
DRAWN BY: J. NUR  
CHECKED BY: J. GONZALEZ

PROJECT NUMBER 10385465



CITY OF BELMONT  
COUNCIL DAIS  
RENOVATION

ELECTRICAL SYMBOLS AND LEGENDS



FILENAME 10377915-00-E.rvt

SCALE

SHEET

E-001

1

2

3

4

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**KEYNOTES** (#)

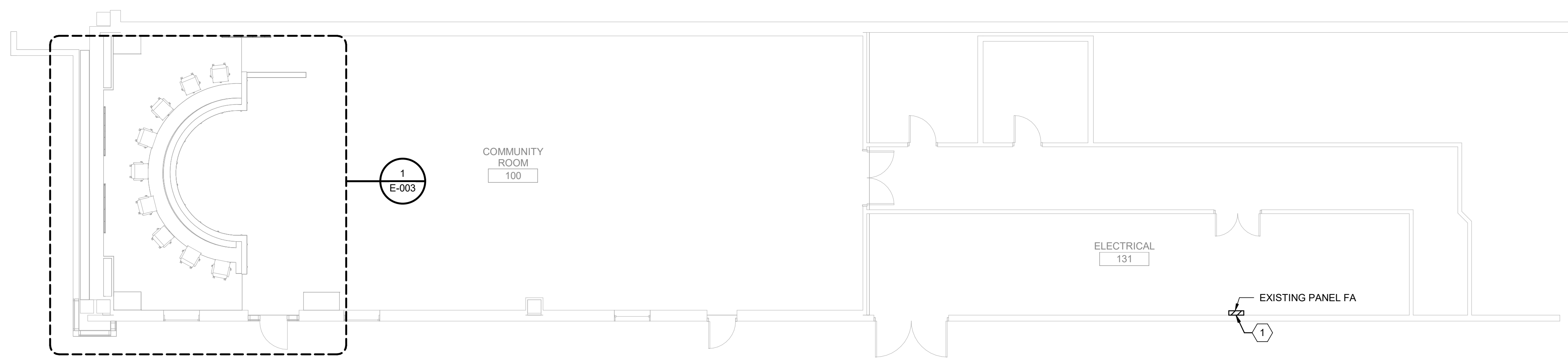
- 1 PROVIDE NEW 120V/1PH/20A CIRCUITS FROM EXISTING PANEL FA TO DEVICES SHOWN ON SHEET E-003 IN ROOM 100. TERMINATE CIRCUIT IN EXISTING 20A/1P CIRCUIT BREAKER.

D

C

B

A



**BASEMENT POWER FLOOR PLAN**

1/8" = 1'-0"

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ISSUE	DATE	DESCRIPTION
	02/2024	ISSUED FOR BID

PROJECT MANAGER W. SHULL, P.E.

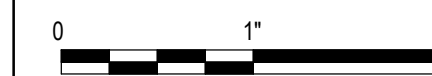
DESIGNED BY: P. HAVANAS  
 DRAWN BY: J. NUR  
 CHECKED BY: J. GONZALEZ

PROJECT NUMBER 10385465



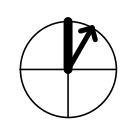
**CITY OF BELMONT  
COUNCIL DAIS  
RENOVATION**

**BASEMENT POWER FLOOR PLAN**

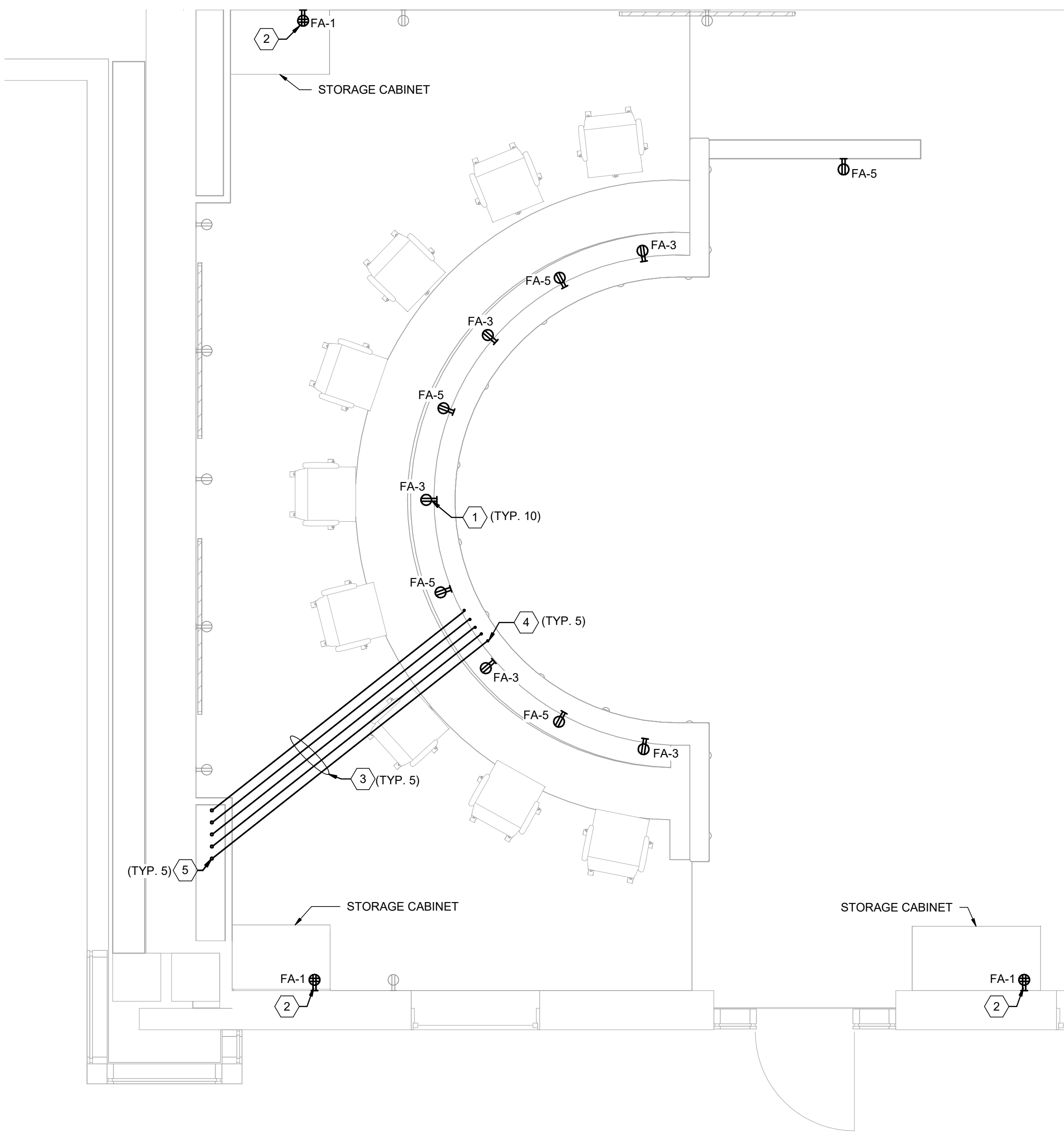


FILENAME 10377915-00-E.rvt  
SCALE 1/8" = 1'-0"

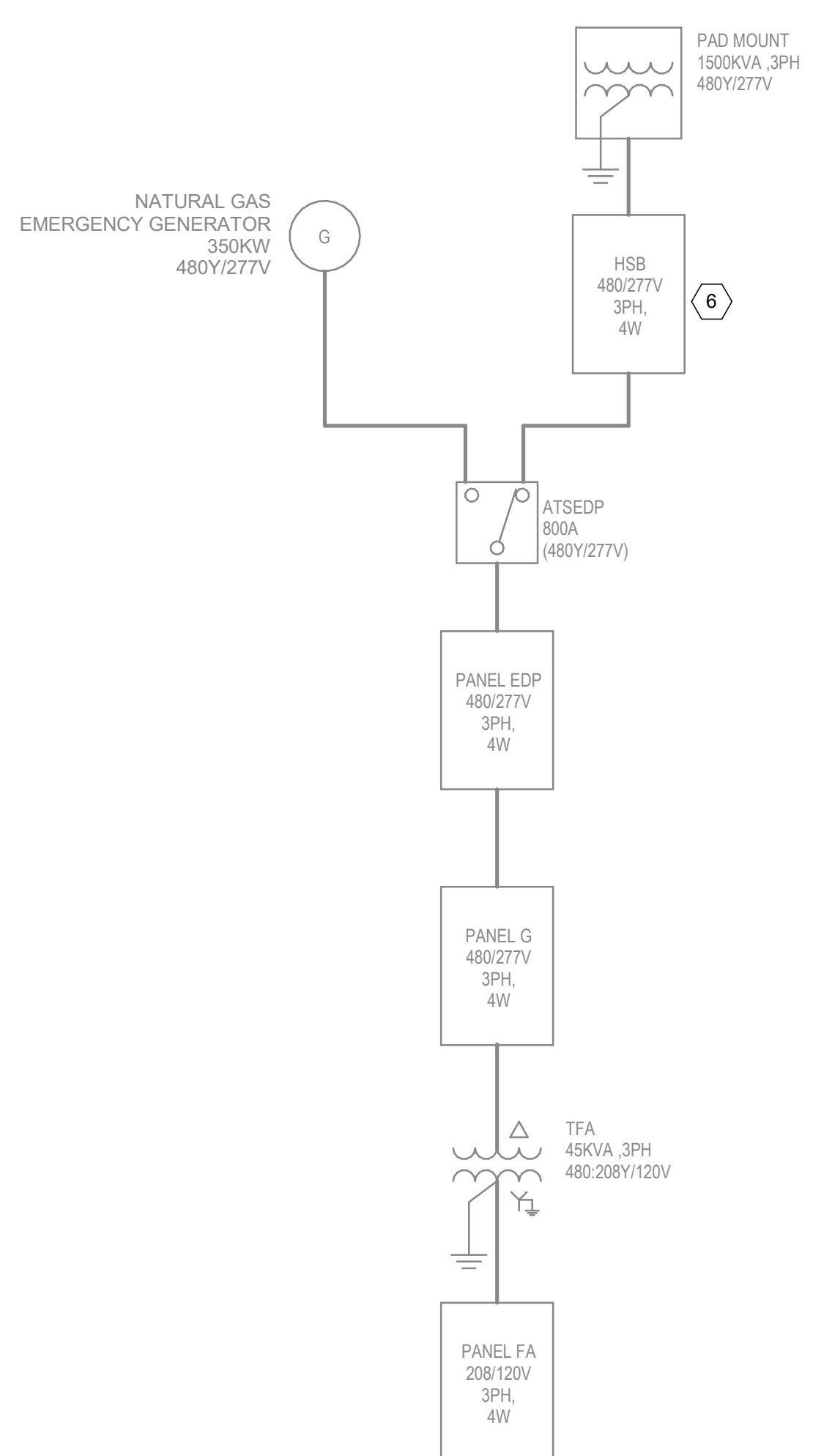
SHEET  
**E-002**



- KEYNOTES (#)**
- 1 PROVIDE NEW 120V/1PH/20A CIRCUIT TO DUPLEX RECEPTACLES FROM EXISTING PANEL FA.
  - 2 PROVIDE NEW 120V/1PH/20A CIRCUIT TO QUAD RECEPTACLE INSIDE AV CABINET FROM EXISTING PANEL FA. COORDIANTE FINAL EXACT INSTALLATION LOCATION WITH STORAGE CABINET REQUIREMENTS.
  - 3 PROVIDE (5) 1.5" EMT CONDUIT ROUTED UNDER RAISED ACCESS FLOOR TO DAIS. (2) CONDUITS RESERVED FOR POWER AND (3) RESERVED FOR LOW VOLTAGE WIRING.
  - 4 STUB CONDUITS INTO DAIS IN ACCESSIBLE AREA. COORDINATE FINAL LOCATION WITH FURNITURE PLANS.
  - 5 PROVIDE CONDUITS FROM RAF TO ACCESSIBLE LOCATION ABOVE CEILING. STUB (3) CONDUITS OUT TO ACCESSIBLE CEILING LOCATION. PROVIDE (2) CONDUITS FOR POWER CONTINUED TO PANEL FA.
  - 6 TOTAL DEMAND LOAD ADDED TO THE BUILDING IS 1.44KVA (1.7A AT 480V-3PH).



**1**  
E-002  
COMMUNITY ROOM POWER FLOOR PLAN - ENLARGED  
3/8" = 1'-0"



**PARTIAL EXISTING ELECTRICAL SINGLE LINE**  
NOT TO SCALE

<b>PANELBOARD ID:</b> PANEL FA		<b>VOLTAGE (L-L):</b> 208		<b>BUS RATING (A):</b> 225		<b>ENCLOSURE:</b> NEMA 1	
<b>VOLTAGE (L-N):</b> 120		<b>MAIN OC DEVICE (A/PHASE):</b> 100		<b>MOUNTING:</b> SURFACE		<b>LOCATION:</b> ELECTRICAL ROOM 131	
<b>PHASE / WIRE:</b> 3 / 4+G							

WIRING				CKT NO.	DESCRIPTION	CONNECTED LOAD (VA)				OCP		CONNECTED LOAD (VA)				DESCRIPTION	CKT NO.	WIRING			
PHASE	NEUT.	GRND.	COND.			LTS	REC	MECH	MISC	AMPS	P	AMPS	P	LTS	REC			MECH	MISC	PHASE	NEUT.
8	8	8	3/4"	1	AV RACK - ROOM 100	1,080				20	1	A					2	**	**	**	**
8	8	8	3/4"	3	DAIS RECEP	900				20	1	B			1,250		4	**	**	**	**
8	8	8	3/4"	5	DAIS RECEP	900				20	1	C	20	1			6	**	**	**	**
**	**	**	**	7	CONDENSATE PUMP*			1,920		20	1	A	20	1			8	**	**	**	**
**	**	**	**	9	ELEVATOR CONTROLS*				720	20	1	B	20	1		1,000	10	**	**	**	**
**	**	**	**	11	ROOM 100 RECEP*	900				20	1	C	20	1		900	12	**	**	**	**
**	**	**	**	13	SPARE					20	1	A	20	1		720	14	**	**	**	**
**	**	**	**	15	ROOM 143 RECEP*	1,080				20	1	B	20	1			16	**	**	**	**
**	**	**	**	17	MS HP-9*			1,500		15	2	C	20	1			18	**	**	**	**
				19	SPARE			1,500				A					20	**	**	**	**
				21	SPARE					20	1	B					22	**	**	**	**
				23	SPARE					20	1	C					24	**	**	**	**
				25	SPARE					20	1	A					26	**	**	**	**
				27	SPARE					20	1	B	100	3			28	**	**	**	**
				29	SPARE					20	1	C					30	**	**	**	**

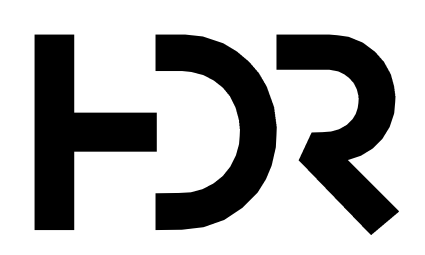
LOAD SUMMARY							PHASE BALANCE		
CONNECTED LOAD (KVA)	LTS	REC	MECH	MISC	SPARE	TOTAL	208	LINE-TO-LINE VOLTS	PHASE A (KVA)
0.03	6.7	9.3	1.7	---	17.8	208	49	CONNECTED AMPS	PHASE B (KVA)
1.25	NEC	1.00	1.44	25%	---	64	DESIGN AMPS	PHASE C (KVA)	
0.04	6.7	9.3	2.5	4.4	22.9				

NOTES:  
 \* EXISTING LOAD FROM PREV.  
 \*\* EXISTING CABLE/CONDUIT

NOTES:  
 \*\*\* MISC DEMAND INCLUDES 25% OF LARGEST MOTOR KVA

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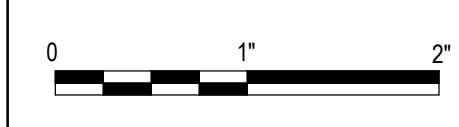
ISSUE	DATE	DESCRIPTION
	02/2024	ISSUED FOR BID

PROJECT MANAGER	W. SHULL, P.E.
DESIGNED BY	P. HAVANAS
DRAWN BY	J. NUR
CHECKED BY	J. GONZALEZ
PROJECT NUMBER	10385465



**CITY OF BELMONT**  
**COUNCIL DAIS**  
**RENOVATION**

**COMMUNITY ROOM POWER FLOOR PLAN - ENLARGED**



FILENAME | 10377915-00-E.rvt  
 SCALE | As indicated

SHEET  
**E-003**