STATE OF TENNESSEE
REAL ESTATE ASSET MANAGEMENT
Department of General Service

EOA ARCHITECTS

April 24, 2025


# Old Library and Archives
# and
# Supreme Court Building Renovation

## CMGC RFQ Scope Narrative
## SBC #529/074-01-2023

eoa Architects

24 April 2025

PROJECT: Old Library and Archives and Supreme Court Building Renovation

SBC Number: 529/074-01-2023

SUBJECT: Project Narrative and Design Description

EOA Architects is beginning the process of working with the State of Tennessee Real Estate Asset Management (STREAM) to prepare the design and construction documents for the renovation of the existing Tennessee State Library and Archives building (TSLA) and the State Supreme Court buildings along with developing a new addition that connects both buildings. The project is currently in the Program Verification Phase. Outlined below is a brief project scope narrative and design description.

Project Scope Narrative:
The project construction includes the exterior and interior renovations of the former Tennessee State Library and Archives building (TSLA) and the State Supreme Court building. Both buildings are listed on the National Register of Historic Places. The project also includes the demolition and removal of a later "old stacks" addition located at the rear of the former TSLA building and a new construction addition on the west side of both buildings providing new office space with an elevated bridge connection between the buildings. The new addition provides parking at the basement level along with site revisions and other related work. The approximate total building square footage is 84,200 square feet. The project is currently in the design process with an anticipated construction start date of October 2026.

Project Design Description:
The project will include the preservation of the TSLA exterior, renovation and reconfiguration of the TSLA building interior, removal of the stacks portion of the building, including the vertical circulation core, and replacement with an addition meeting the functional needs of the Supreme Court. Design will include a secure and accessible connector between the TSLA building and the Supreme Court building. New mechanical, electrical, plumbing and fire protection systems will be provided for the existing buildings as well as for the new addition. There will also be moderate reprogramming and rework of the Supreme Court Building as needed to meet the program and return all Court related lease locations in the Metro area to this complex. The project design will embrace the opportunities of the existing facilities while considering a more modern approach to open offices. Both buildings are on the National Register of Historic Places, which will require interaction with the Tennessee Historic Commission. The intent of the project is to utilize the CM/GC delivery method to bring the construction team in at the early stages of the design process allowing significant collaboration between the designer and the construction manager.

Also included in this document for reference is the 2022 State of Tennessee Nashville Supreme Court Feasibility and Program Study.


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# State of Tennessee
# Nashville Supreme Court
## SBC #529/000-02-2019-03

August 23, 2022

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## PROJECT TEAM

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# 1. EXECUTIVE SUMMARY

## General

The Nashville Supreme Court and the former Tennessee State Library and Archives buildings are situated just west of the Tennessee State Capitol building. The Nashville Supreme Court building houses courts staff and facilities as well as the Tennessee Judiciary Museum. The Library and Archives facility has been vacated except for a few employees.

The original study of these premises for an expanded Courts offices began in 1996. This plan proposed combining the Supreme Court and Library and Archives building to house a more robust courts staff to include more divisions than are currently housed in the Supreme Court building. Since that time the mission and vision of the organization has not changed, although there have been some modifications to the design, organizational structure, and space needs. The organization has continued a slow growth consistent with the pattern seen in prior studies. Since the 1996 plan, there have been multiple updates to this plan, the last in 2018. The design team worked with the Administrative Offices of the Courts to revisit the 2018 programming assumptions and plans to further accommodate the changing needs of the courts and administration.

The revised master planning study establishes a recommendation for both buildings regarding building demolition, new programming, and proposed new addition. This plan reevaluates the adjacencies and space planning within this new addition and existing facilities for the modern courts offices.

## Current Challenges and Opportunities

The old “stacks” addition that is located in the rear of the Library and Archives building is not suitable for being programmed for human occupation due to the restricted head heights throughout, but provides the opportunity for a new addition.

## Recommendation

Following review of the previous plan, inspection of existing facilities, meetings with the Administrative Offices of the Courts, analysis of space needs, and development of the program, the 2022 revised design concept of the Nashville Supreme Court is based on keeping the the historic portion of the former Library and Archives building in place, removing the old stacks addition, adding a new and functional addition in the stacks place, and re-programming the Nashville Supreme Court building as necessary. In addition, the design concept includes a secure and accessible access corridor from the Nashville Supreme Court facility.

This recommendation proposes a design that embraces the opportunities of the existing facilities while considering a more modern approach to open offices. Additionally, by co-locating all of the departments and divisions related to the TN Supreme Courts functions into these two adjacent buildings, significant savings in programmed square footages are achieved by sharing many of the ancillary spaces such as toilets, conference rooms, mail rooms and kitchen/break rooms. This also eliminates the need for the State to continue to pay for rental space in leased buildings and houses these functions within State owned facilities. The design team has reviewed that state standards for office design and taken these into consideration.

The opinion of probable construction cost can be found in Section 4 and the Appendices (see Exhibit F).

# 2 PRE-DESIGN & PROGRAMMING

## 2.1. General

The purpose of this study is to determine the best option for the Nashville Supreme Court and former Library and Archives floor plans. The study has an emphasis specifically on the programmatic requirements and their adjacencies for the various courts. An associated opinion of probable cost is included with the suggested program and site plan.

## 2.2. Scope Objectives

The scope of the planning study includes achieving a functional space plan for a projected date of 2026, involving both existing historic buildings, as well as the new addition to include additional office areas and parking. The team was tasked with providing a deeper analysis on programmatic requirements for both existing and new building, including an opinion of probable cost for the new development. The narratives for structure, mechanical, electrical, and plumbing were updated for 2022 (See Exhibits D&E).

## 2.3. Principle Program Issues and Opportunities

The Programming phase began with meeting with representatives of the Administrative Offices of the Courts to revisit the plan done in 2018. The 2018 Program was reviewed as a team to better understand the interdepartmental relationships.

## 2.4 Program Analysis

After the initial programming meetings, a detailed series of spreadsheets summarized the content received from the programming meetings, such as total estimated square foot requirements for each of the departments, storage requirements, and conference facility needs. The following shows an example spreadsheet programming document (See Exhibit A).

**Nashville Supreme Court**

**Division 5 - Court Clerk**

| Space / Position | 2018 Staff Total | 2018 Net S.F. * | 2018 Total Net * | 2022 Staff Total | 2022 Net S.F. * | 2022 Total Net * | 2026 (projected) Staff Total | 2026 (projected) Net S.F. * | 2026 (projected) Total Net * | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| **Clerk Offices** | | | | | | | | | | |
| Clerk of the Courts | 1 | 300 | 300 | 1 | 300 | 300 | 1 | 300 | 300 | |
| Court Marshal | 1 | 80 | 80 | 1 | 80 | 80 | 1 | 80 | 80 | |
| Deputy Clerk | 12 | 100 | 1,200 | 12 | 100 | 1,200 | 12 | 100 | 1,200 | |
| Print Station | 1 | 30 | 30 | 1 | 30 | 30 | 1 | 30 | 30 | |
| Supply Storage | 1 | 200 | 200 | 1 | 200 | 200 | 1 | 200 | 200 | |
| Work/Photocopy Area | 1 | 200 | 200 | 1 | 200 | 200 | 1 | 100 | 100 | |
| Photocopy | 0 | 150 | 0 | 0 | 150 | 0 | 0 | 150 | 0 | |
| Staff Attorney | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 150 | 150 | |
| Staff Clerk | 3 | 80 | 240 | 3 | 80 | 240 | 3 | 80 | 240 | |
| Active Records | 1 | 600 | 600 | 1 | 600 | 600 | 1 | 600 | 600 | |
| Conference Room | 1 | 200 | 200 | 1 | 200 | 200 | 0 | 200 | 0 | |
| Staff Break | 1 | 180 | 180 | 1 | 180 | 180 | 0 | 180 | 0 | |
| Chief Deputy | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 150 | 150 | |
| Microfilm Stations | 2 | 30 | 60 | 2 | 30 | 60 | 2 | 30 | 60 | |
| Component Subtotal | | | 3,590 | | | 3,590 | | | 3,110 | |
| Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| **Component Total** | | | **4,488** | | | **4,488** | | | **3,888** | |
| **Counter Support** | | | | | | | | | | |
| Reception Counter | 1 | 300 | 300 | 1 | 300 | 300 | 1 | 200 | 200 | |
| Record Viewing | 1 | 120 | 120 | 1 | 120 | 120 | 1 | 120 | 120 | |
| Public Computer Workstation | 1 | 40 | 40 | 1 | 40 | 40 | 1 | 40 | 40 | |
| Component Subtotal | | | 460 | | | 460 | | | 360 | |
| Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| **Component Total** | | | **575** | | | **575** | | | **450** | |
| **Archive Area** | | | | | | | | | | |
| Archive File Storage | 1 | 1,500 | 1,500 | 1 | 1,500 | 1,500 | 1 | 1,500 | 1,500 | |
| Record Process/ Holding Area | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 100 | 100 | |
| Component Subtotal | | | 1,600 | | | 1,600 | | | 1,600 | |
| Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| **Component Total** | | | **2,000** | | | **2,000** | | | **2,000** | |
| **Division Total** | | | **7,063** | | | **7,063** | | | **6,338** | |

* - N.S.F. (Net Square Feet) - Amount of space required for a particular function exclusive of interior walls or circulation space around a function.

** - Grossing Factor - Departmental grossing factor used to accommodate the space requirements among individual functional components including interior walls and departmental corridors.

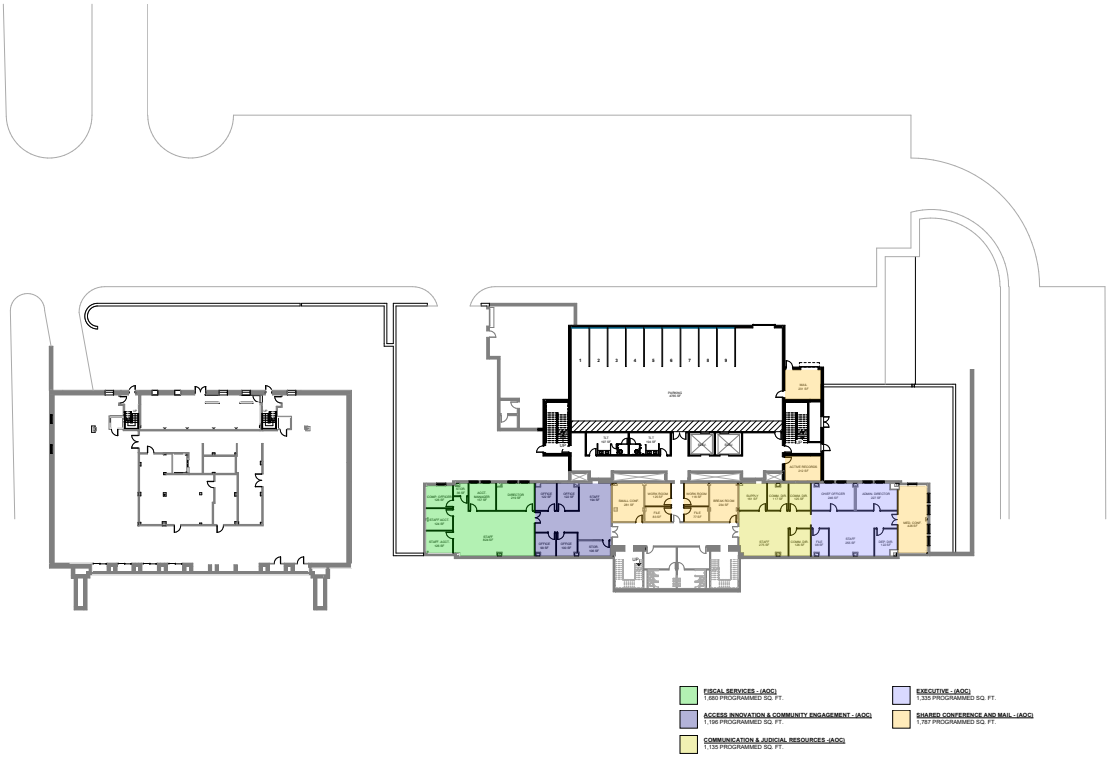
# 3. DESIGN

## 3.1. General

The overall concept design of the Nashville Supreme Court building was not changed since the 2007 plan, as discussed in Section 2, the main focus of this exercise was to re-evaluate the interior space planning of the project.

## 3.2. Architectural & Interior Space Planning (see EXHIBIT C)

Building on the programming data collected in the previous phase, the space plan design was revised to provide a more efficient office space for the courts. This included a re-organization and inclusion of program that is currently in rentable space elsewhere . In addition to adjacencies and efficiency, special consideration was given to humanistic considerations like natural lighting. The following shows a sample plan (See Exhibit C).




eoa Architects

BASEMENT FLOOR PLAN

NASHVILLE SUPREME COURT
SBC #529/000-02-2019-03
AUGUST, 2022

TN

**Nashville Supreme Court**

**Division 3 - Administrative Offices**

| Space / Position | 2018 Staff Total | 2018 Net S.F. * | 2018 Total Net * | 2022 Staff Total | 2022 Net S.F. * | 2022 Total Net * | *2026 (projected)* Staff Total | *2026 (projected)* Net S.F. * | *2026 (projected)* Total Net * | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| **Executive (AOC)** | | | | | | | | | | |
| Administrative Director | 1 | 300 | 300 | 1 | 300 | 300 | 1 | 250 | 250 | |
| Executive Administrative Assistant | 1 | 180 | 180 | 1 | 180 | 180 | 0 | 250 | 0 | |
| Chief of Staff | 1 | 225 | 225 | 1 | 225 | 225 | 1 | 250 | 250 | |
| Deputy Director | 0 | 225 | 0 | 0 | 225 | 0 | 1 | 120 | 120 | |
| Employees | 0 | 225 | 0 | 0 | 225 | 0 | 3 | 50 | 150 | |
| Lobby | 1 | 450 | 450 | 1 | 450 | 450 | 0 | 450 | 0 | *See shared AOC spaces below.* |
| Guest Coat Closet | 1 | 30 | 30 | 1 | 30 | 30 | 0 | 30 | 0 | *See shared AOC spaces below.* |
| File Room | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 100 | 100 | Secure filing and storage required. |
| Break Room | 1 | 450 | 450 | 1 | 450 | 450 | 0 | 450 | 0 | *See shared AOC spaces below.* |
| Work Area | 1 | 350 | 350 | 1 | 350 | 350 | 0 | 350 | 0 | *See shared AOC spaces below.* |
| Component Subtotal | | | 2,085 | | | 2,085 | | | 870 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **2,502** | | | **2,502** | | | **1,044** | |
| **Fiscal Services (AOC)** | | | | | | | | | | |
| Fiscal Services Director | 1 | 300 | 300 | 1 | 300 | 300 | 1 | 250 | 250 | |
| Accounting Manager | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 120 | 120 | |
| Rule 13 Compliance Officer | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 120 | 120 | |
| Staff Accountant | 1 | 150 | 150 | 1 | 150 | 150 | 2 | 120 | 240 | |
| Accounting | 3 | 80 | 240 | 3 | 80 | 240 | 3 | 50 | 150 | |
| TIES-Account Tech | 7 | 80 | 560 | 7 | 80 | 560 | 6 | 50 | 300 | |
| Staff Assistant | 1 | 80 | 80 | 1 | 80 | 80 | 1 | 50 | 50 | |
| Conference Room | | | | | | | | | | *See shared AOC spaces below.* |
| Coat Closet | | | | | | | | | | |
| Supply Storage | 1 | 30 | 30 | 1 | 30 | 30 | 1 | 30 | 30 | |
| Copy/Work Center | 1 | 120 | 120 | 1 | 120 | 120 | 0 | 120 | 0 | *See shared AOC spaces below.* |
| File Storage | 1 | 200 | 200 | 1 | 200 | 200 | 1 | 150 | 150 | |
| Component Subtotal | | | 1,980 | | | 1,680 | | | 1,160 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **2,376** | | | **2,016** | | | **1,392** | |
| **Information Technology Services Division (AOC)** | | | | | | | | | | |
| Technology Director | 1 | 225 | 225 | 1 | 225 | 225 | 2 | 250 | 500 | |
| Administrative Assistant | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 120 | 120 | |
| PMO Lead | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 120 | 120 | |
| Network and Hardware Support Mgr | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 120 | 120 | |
| Tech Team under Joel | 9 | 80 | 720 | 9 | 80 | 720 | 9 | 120 | 1,080 | |
| Application Development Mgr | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 120 | 120 | |

**Nashville Supreme Court**

**Division 3 - Administrative Offices**

| Space / Position | 2018 | | | 2022 | | | *2026 (projected)* | | | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| | Staff Total | Net S.F. * | Total Net * | Staff Total | Net S.F. * | Total Net * | Staff Total | Net S.F. * | Total Net * | |
| Program Staff under Pat | 7 | 80 | 560 | 7 | 80 | 560 | 7 | 50 | 350 | |
| Field Technician | 4 | 80 | 320 | 4 | 80 | 320 | 2 | 50 | 100 | |
| ICJ Project Manager | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 120 | 120 | |
| Special Projects | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 120 | 120 | |
| Application Support Manager | 1 | 100 | 100 | 1 | 100 | 100 | 3 | 120 | 360 | |
| Analyst under Amanda | 3 | 80 | 240 | 3 | 80 | 240 | 2 | 50 | 100 | |
| Analyst | 5 | 80 | 400 | 5 | 80 | 400 | 3 | 50 | 150 | |
| Lead Statistical Clerk | 1 | 80 | 80 | 1 | 80 | 80 | 1 | 50 | 50 | |
| Future Offices/Positions | 3 | 80 | 240 | 3 | 80 | 240 | 1 | 50 | 50 | |
| Computer Set Up | | 500 | 500 | | 500 | 500 | 0 | 500 | 0 | |
| Equipment Storage | | 1,000 | 1,000 | | 1,000 | 1,000 | 0 | 1,000 | 0 | |
| Training Room | | 800 | 800 | | 800 | 800 | 0 | 800 | 0 | |
| Supply Storage | | 200 | 200 | | 200 | 200 | 1 | 1,200 | 1,200 | |
| Data Processing/ LAN Room | | 700 | 700 | | 700 | 700 | 0 | 700 | 0 | |
| Copy / Workroom | | 150 | 150 | | 150 | 150 | 0 | 150 | 0 | |
| Component Subtotal | | | 6,835 | | | 6,835 | | | 4,660 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **8,202** | | | **8,202** | | | **5,592** | |

**Nashville Supreme Court**

**Division 3 - Administrative Offices**

| Space / Position | 2018 | | | 2022 | | | *2026 (projected)* | | | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| | Staff Total | Net S.F. * | Total Net * | Staff Total | Net S.F. * | Total Net * | Staff Total | Net S.F. * | Total Net * | |
| **Legal Services & Judicial Development (AOC)** | | | | | | | | | | |
| General Counsel | 1 | 225 | 225 | 1 | 225 | 225 | 1 | 250 | 250 | |
| Paralegal/Legal Assistant | 2 | 100 | 200 | 2 | 100 | 200 | 1 | 120 | 120 | |
| Asst. General Counsel | 3 | 100 | 300 | 3 | 100 | 300 | 1 | 120 | 120 | |
| Legislative Liaison/Asst. Gen Counsel | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 250 | 250 | |
| Juvenile Court Services Coord. | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 120 | 120 | |
| Court Improvement Mgr | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 120 | 120 | |
| Court Improvement Attorney | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 120 | 120 | |
| Statistical Research Specialist | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 50 | 50 | |
| Admin. Asst. | 1 | 80 | 80 | 1 | 80 | 80 | 1 | 50 | 50 | |
| HR Manager | 1 | 180 | 180 | 1 | 80 | 80 | 1 | 50 | 50 | |
| Benefit Specialist | 1 | 180 | 180 | 1 | 80 | 80 | 1 | 50 | 50 | |
| Receptionist | 1 | 125 | 125 | 1 | 150 | 150 | 1 | 150 | 150 | |
| File Storage | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 150 | 150 | |
| Publishing Assembly Area | 1 | 325 | 325 | 1 | 325 | 325 | 0 | 325 | 0 | |
| Component Subtotal | | | 2,265 | | | 2,090 | | | 1,600 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **2,718** | | | **2,508** | | | **1,920** | |
| **Access Innovation & Community Engagement (AOC)** | | | | | | | | | | |
| Offices | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 120 | 480 | |
| Staff | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 50 | 200 | |
| Storage Room | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 100 | 100 | |
| Component Subtotal | | | 0 | | | 0 | | | 780 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **0** | | | **0** | | | **936** | |
| **Intergovernmental Affairs (AOC)** | | | | | | | | | | |
| Offices | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 120 | 960 | |
| Staff | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 50 | 250 | |
| Storage Room | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 150 | 150 | |
| Component Subtotal | | | 0 | | | 0 | | | 1,360 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **0** | | | **0** | | | **1,632** | |
| **Communication & Judicial Resources (AOC)** | | | | | | | | | | |
| Communications Director | 1 | 250 | 250 | 1 | 250 | 250 | 3 | 120 | 360 | |
| Communications Writer | 1 | 110 | 110 | 1 | 80 | 80 | 3 | 50 | 150 | |
| Publication/ WebMaster | 1 | 110 | 110 | 1 | 80 | 80 | 1 | 50 | 50 | |

**Nashville Supreme Court**

**Division 3 - Administrative Offices**

| Space / Position | 2018 | | | 2022 | | | *2026 (projected)* | | | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| | Staff Total | Net S.F. * | Total Net * | Staff Total | Net S.F. * | Total Net * | Staff Total | Net S.F. * | Total Net * | |
| Workroom | 1 | 75 | 75 | 1 | 75 | 75 | 0 | 75 | 0 | |
| Supply/File Storage | 1 | 75 | 75 | 1 | 120 | 120 | 1 | 450 | 450 | |
| Component Subtotal | | | 620 | | | 605 | | | 1,010 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **744** | | | **726** | | | **1,212** | |
| **Board of Law Examiners (BLE)** | | | | | | | | | | |
| Director | 1 | 250 | 250 | 1 | 250 | 250 | 2 | 250 | 500 | |
| Assistant/ Secretary | 2 | 80 | 160 | 2 | 80 | 160 | 6 | 50 | 300 | |
| Offices | 2 | 150 | 300 | 2 | 150 | 300 | 0 | 150 | 0 | |
| Tech Room | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 80 | 80 | |
| Workroom | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 150 | 150 | |
| File Storage (locked) | 1 | 800 | 800 | 1 | 800 | 800 | 1 | 300 | 300 | |
| Break Room | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 150 | 150 | |
| Conference | 1 | 0 | 0 | 1 | 300 | 300 | 1 | 530 | 530 | |
| Reception/Waiting | 1 | 150 | 150 | 1 | 150 | 150 | 0 | 150 | 0 | *See shared AOC spaces below.* |
| Supply/File Storage | 1 | 120 | 120 | 1 | 120 | 120 | 0 | 120 | 0 | *See shared AOC spaces below.* |
| Component Subtotal | | | 1,930 | | | 2,230 | | | 2,010 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **2,316** | | | **2,676** | | | **2,412** | |
| **Continuing Law Education (CLE)** | | | | | | | | | | |
| Director | 1 | 250 | 250 | 1 | 250 | 250 | 1 | 250 | 250 | |
| Offices | 7 | 110 | 770 | 7 | 110 | 770 | 6 | 120 | 720 | |
| Attorney | | | | | | | | | | |
| Server Room | 1 | 90 | 90 | 1 | 90 | 90 | 1 | 90 | 90 | |
| File / Work Room / Storage | | | | | | | 1 | 105 | 105 | |
| File / Work Room / Storage | | | | | | | 1 | 170 | 170 | |
| File / Work Room / Storage | | | | | | | 1 | 390 | 390 | |
| Storage/ File Room | 1 | 400 | 400 | 1 | 400 | 400 | 0 | 400 | 0 | *See shared AOC spaces below.* |
| Supply Storage | 1 | 30 | 30 | 1 | 30 | 30 | 0 | 30 | 0 | *See shared AOC spaces below.* |
| Waiting Area | 1 | 150 | 150 | 1 | 150 | 150 | 0 | 150 | 0 | |
| Conference | 0 | 150 | 0 | 0 | 150 | 0 | 2 | 530 | 1,060 | |
| Kitchen/Break Room | 0 | 150 | 0 | 0 | 150 | 0 | 1 | 150 | 150 | *See shared AOC spaces below.* |
| Component Subtotal | | | 1,690 | | | 1,690 | | | 2,935 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **2,028** | | | **2,028** | | | **3,522** | |

**Nashville Supreme Court**

**Division 3 - Administrative Offices**

| Space / Position | 2018 Staff Total | 2018 Net S.F. * | 2018 Total Net * | 2022 Staff Total | 2022 Net S.F. * | 2022 Total Net * | *2026 (projected)* Staff Total | *2026 (projected)* Net S.F. * | *2026 (projected)* Total Net * | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| **Board of Professional Responsibility** | | | | | | | | | | |
| Director | 1 | 250 | 250 | 1 | 250 | 250 | 1 | 250 | 250 | |
| Attorney | 13 | 150 | 1,950 | 13 | 150 | 1,950 | 14 | 120 | 1,680 | |
| Receptionist/Admin | 2 | 80 | 160 | 2 | 80 | 160 | 5 | 120 | 600 | |
| Administrative Assistant | 19 | 80 | 1,520 | 19 | 80 | 1,520 | 17 | 50 | 850 | |
| Work Room | 1 | 750 | 750 | 1 | 750 | 750 | 1 | 300 | 300 | |
| Library | 1 | 250 | 250 | 1 | 250 | 250 | 1 | 250 | 250 | |
| Mail Room | 1 | 50 | 50 | 1 | 50 | 50 | 1 | 50 | 50 | |
| Scan Temp Area (former print/fax) | 1 | 20 | 20 | 1 | 20 | 20 | 1 | 20 | 20 | |
| Waiting area/Lobby | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 150 | 150 | |
| Kitchen/Break Room | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 150 | 150 | |
| Conference | 1 | 300 | 300 | 1 | 300 | 300 | 1 | 215 | 215 | (1) small conference room for ~6 people. |
| Conference | 0 | 300 | 0 | 0 | 300 | 0 | 1 | 280 | 280 | (1) large conference room for ~12 people. |
| Conference | 0 | 300 | 0 | 0 | 300 | 0 | 1 | 530 | 530 | |
| Conference | 0 | 300 | 0 | 0 | 300 | 0 | 1 | 640 | 640 | |
| Server Room | 0 | 300 | 0 | 0 | 300 | 0 | 1 | 90 | 90 | |
| Component Subtotal | | | 5,550 | | | 5,550 | | | 6,055 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **6,660** | | | **6,660** | | | **7,266** | |
| **Tennessee Legal Assistance Program (TLAP)** | | | | | | | | | | |
| Director | 1 | 250 | 250 | 1 | 250 | 250 | 1 | 250 | 250 | |
| Attorney | 4 | 150 | 600 | 4 | 150 | 600 | 4 | 120 | 480 | |
| Receptionist/Admin | 1 | 80 | 80 | 1 | 80 | 80 | 1 | 50 | 50 | |
| Work Room/Mail | 1 | 150 | 150 | 1 | 250 | 250 | 2 | 150 | 300 | |
| Waiting area/Lobby | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 150 | 150 | |
| Kitchen/Break Room | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 150 | 150 | |
| Conference | 2 | 150 | 300 | 2 | 150 | 300 | 1 | 280 | 280 | (1) large conference room for ~12 people. Can be shared. |
| Conference | 0 | 150 | 0 | 0 | 150 | 0 | 1 | 215 | 215 | (1) small conference room for ~6 people. Can be shared. |
| Tech Room | 0 | 150 | 0 | 0 | 150 | 0 | 1 | 80 | 80 | |
| Component Subtotal | | | 1,680 | | | 1,780 | | | 1,955 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **2,016** | | | **2,136** | | | **2,346** | |
| **Board of Judicial Conduct (BJC)** | | | | | | | | | | |
| Offices | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 120 | 360 | |
| Copy/Supply Storage | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 150 | 150 | |

**Nashville Supreme Court**

**Division 3 - Administrative Offices**

| Space / Position | 2018 Staff Total | 2018 Net S.F. * | 2018 Total Net * | 2022 Staff Total | 2022 Net S.F. * | 2022 Total Net * | *2026 (projected)* Staff Total | *2026 (projected)* Net S.F. * | *2026 (projected)* Total Net * | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| Small File Room | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 80 | 80 | |
| Kitchen/Break Room | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 150 | 150 | |
| Conference | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 420 | 420 | (1) conference to accommodate 20 people w/ video conferencing technology. |
| Component Subtotal | | | 0 | | | 0 | | | 1,160 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **0** | | | **0** | | | **1,392** | |
| **Share Conference & Mail Areas for AOC** | | | | | | | | | | |
| Central Printing/Publication/Workroom/Main Room | 1 | 550 | 550 | 1 | 250 | 250 | 1 | 250 | 250 | (1) large mail room, (6) file rooms |
| Central Printing/Publication/Workroom/Main Room | 1 | 550 | 550 | 1 | 250 | 250 | 6 | 150 | 900 | (1) large mail room, (6) file rooms |
| Large Reception Area | 0 | 250 | 0 | 0 | 150 | 0 | 1 | 250 | 250 | |
| Central Office Supply | 1 | 250 | 250 | 4 | 150 | 600 | 1 | 150 | 150 | |
| Central Breakrooms | 2 | 350 | 700 | 2 | 250 | 500 | 3 | 250 | 750 | |
| Conference Room | 0 | 250 | 0 | 0 | 150 | 0 | 2 | 280 | 560 | small conference room (12 people) |
| Conference Room | 0 | 250 | 0 | 0 | 150 | 0 | 1 | 420 | 420 | medium conference room (20 people) |
| Conference Room | 6 | 250 | 1,500 | 6 | 150 | 900 | 1 | 640 | 640 | large conference room (35 people) |
| Conference Room | 2 | 350 | 700 | 2 | 150 | 300 | 1 | 420 | 420 | |
| Component Subtotal | | | 3,700 | | | 2,550 | | | 4,090 | |
| Grossing Factor x 1.2 ** | | | 1.2 | | | 1.2 | | | 1.2 | |
| **Component Total** | | | **4,440** | | | **3,060** | | | **4,908** | |
| **Division Total** | | | **22,158** | | | **22,068** | **153 total** | | **18,228** | |

* - N.S.F. (Net Square Feet) - Amount of space required for a particular function exclusive of interior walls or circulation space around a function.

** - Grossing Factor - Departmental grossing factor used to accommodate the space requirements among individual functional components including interior walls and departmental corridors.

**Nashville Supreme Court**

**Division 5 - Court Clerk**

| Space / Position | 2018 Staff Total | 2018 Net S.F. * | 2018 Total Net * | 2022 Staff Total | 2022 Net S.F. * | 2022 Total Net * | *2026 (projected)* Staff Total | *2026 (projected)* Net S.F. * | *2026 (projected)* Total Net * | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| **Clerk Offices** | | | | | | | | | | |
| Clerk of the Courts | 1 | 300 | 300 | 1 | 300 | 300 | 1 | 300 | 300 | |
| Court Marshal | 1 | 80 | 80 | 1 | 80 | 80 | 1 | 80 | 80 | |
| Deputy Clerk | 12 | 100 | 1,200 | 12 | 100 | 1,200 | 12 | 100 | 1,200 | |
| Print Station | 1 | 30 | 30 | 1 | 30 | 30 | 1 | 30 | 30 | |
| Supply Storage | 1 | 200 | 200 | 1 | 200 | 200 | 1 | 200 | 200 | |
| Work/Photocopy Area | 1 | 200 | 200 | 1 | 200 | 200 | 1 | 100 | 100 | |
| Photocopy | 0 | 150 | 0 | 0 | 150 | 0 | 0 | 150 | 0 | |
| Staff Attorney | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 150 | 150 | |
| Staff Clerk | 3 | 80 | 240 | 3 | 80 | 240 | 3 | 80 | 240 | |
| Active Records | 1 | 600 | 600 | 1 | 600 | 600 | 1 | 600 | 600 | |
| Conference Room | 1 | 200 | 200 | 1 | 200 | 200 | 0 | 200 | 0 | |
| Staff Break | 1 | 180 | 180 | 1 | 180 | 180 | 0 | 180 | 0 | |
| Chief Deputy | 1 | 150 | 150 | 1 | 150 | 150 | 1 | 150 | 150 | |
| Microfilm Stations | 2 | 30 | 60 | 2 | 30 | 60 | 2 | 30 | 60 | |
| Component Subtotal | | | 3,590 | | | 3,590 | | | 3,110 | |
| Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| **Component Total** | | | **4,488** | | | **4,488** | | | **3,888** | |
| **Counter Support** | | | | | | | | | | |
| Reception Counter | 1 | 300 | 300 | 1 | 300 | 300 | 1 | 200 | 200 | |
| Record Viewing | 1 | 120 | 120 | 1 | 120 | 120 | 1 | 120 | 120 | |
| Public Computer Workstation | 1 | 40 | 40 | 1 | 40 | 40 | 1 | 40 | 40 | |
| Component Subtotal | | | 460 | | | 460 | | | 360 | |
| Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| **Component Total** | | | **575** | | | **575** | | | **450** | |
| **Archive Area** | | | | | | | | | | |
| Archive File Storage | 1 | 1,500 | 1,500 | 1 | 1,500 | 1,500 | 1 | 1,500 | 1,500 | |
| Record Process/ Holding Area | 1 | 100 | 100 | 1 | 100 | 100 | 1 | 100 | 100 | |
| Component Subtotal | | | 1,600 | | | 1,600 | | | 1,600 | |
| Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| **Component Total** | | | **2,000** | | | **2,000** | | | **2,000** | |
| **Division Total** | | | **7,063** | | | **7,063** | | | **6,338** | |

* - N.S.F. (Net Square Feet) - Amount of space required for a particular function exclusive of interior walls or circulation space around a function.

** - Grossing Factor - Departmental grossing factor used to accommodate the space requirements among individual functional components including interior walls and departmental corridors.

**Nashville Supreme Court**

**Division 2 - Appellate Court Offices**

| | Space / Position | 2018 Staff Total | 2018 Net S.F. * | 2018 Total Net * | 2022 Staff Total | 2022 Net S.F. * | 2022 Total Net * | *2026 (projected)* Staff Total | *2026 (projected)* Net S.F. * | *2026 (projected)* Total Net * | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Court of Appeals Chambers** | | | | | | | | | | |
| | Judge | 4 | 350 | 1,400 | 4 | 350 | 1,400 | 4 | 350 | 1,400 | |
| | Staff Attorney | 1 | 180 | 180 | 1 | 180 | 180 | 1 | 180 | 180 | |
| | Law Clerk/ Assistants | 12 | 110 | 1,320 | 12 | 110 | 1,320 | 12 | 110 | 1,320 | |
| | Interns | 0 | 80 | 0 | 0 | 80 | 0 | 0 | 80 | 0 | |
| | Kitchenette | 4 | 28 | 112 | 4 | 28 | 112 | 0 | 28 | 0 | |
| | File / Work Room / Storage | 4 | 75 | 300 | 4 | 75 | 300 | 4 | 75 | 300 | |
| | Reception | 4 | 100 | 400 | 4 | 100 | 400 | 4 | 100 | 400 | |
| | Component Subtotal | | | 3,712 | | | 3,712 | | | 3,600 | |
| | Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| | **Component Total** | | | **4,640** | | | **4,640** | | | **4,500** | |
| | **Court of Criminal Appeals Chambers** | | | | | | | | | | |
| | Judge | 4 | 350 | 1,400 | 4 | 350 | 1,400 | 4 | 350 | 1,400 | |
| | Staff Attorney | 1 | 180 | 180 | 1 | 180 | 180 | 1 | 180 | 180 | |
| | Law Clerk/ Assistants | 12 | 110 | 1,320 | 12 | 110 | 1,320 | 12 | 110 | 1,320 | |
| | Interns | 0 | 80 | 0 | 0 | 80 | 0 | 0 | 80 | 0 | |
| | Kitchenette | 4 | 28 | 112 | 4 | 28 | 112 | 0 | 28 | 0 | |
| | File / Work Room / Storage | 4 | 75 | 300 | 4 | 75 | 300 | 4 | 75 | 300 | |
| | Reception | 4 | 100 | 400 | 4 | 100 | 400 | 4 | 100 | 400 | |
| | Component Subtotal | | | 3,712 | | | 3,712 | | | 3,600 | |
| | Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| | **Component Total** | | | **4,640** | | | **4,640** | | | **4,500** | |
| | **Courts** | | | | | | | | | | |
| | Court Room | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2,500 | 2,500 | |
| | Robing Room | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 180 | 180 | |
| | | | | | | | | | | | |
| | **Visiting Judges** | | | | | | | | | | |
| | Visting Judge | 2 | 350 | 700 | 2 | 350 | 700 | 2 | 350 | 700 | |
| | | | | 0 | | | 0 | | | 0 | |
| | Component Subtotal | | | 700 | | | 700 | | | 700 | |

**Nashville Supreme Court**

**Division 2 - Appellate Court Offices**

| Space / Position | 2018 Staff Total | 2018 Net S.F. * | 2018 Total Net * | 2022 Staff Total | 2022 Net S.F. * | 2022 Total Net * | *2026 (projected)* Staff Total | *2026 (projected)* Net S.F. * | *2026 (projected)* Total Net * | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| **Component Total** | | | **875** | | | **875** | | | **875** | |
| **Senior Judges** | | | | | | | | | | |
| Senior Judge | 3 | 250 | 750 | 2 | 350 | 700 | 2 | 350 | 700 | |
| | | | 0 | | | 0 | | | 0 | |
| | | | 0 | | | 0 | | | 0 | |
| Component Subtotal | | | 750 | | | 700 | | | 700 | |
| Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| **Component Total** | | | **938** | | | **875** | | | **875** | |
| **Support** | | | | | | | | | | |
| Conference Room | 1 | 300 | 300 | 1 | 300 | 300 | 0 | 300 | 0 | |
| Coffee/Vending | 1 | 80 | 80 | 1 | 80 | 80 | 0 | 80 | 0 | |
| Justice Staff Workroom | 2 | 100 | 200 | 2 | 100 | 200 | 2 | 100 | 200 | |
| Component Subtotal | | | 580 | | | 580 | | | 200 | |
| Grossing Factor x 1.25 ** | | | 1.25 | | | 1.25 | | | 1.25 | |
| **Component Total** | | | **725** | | | **725** | | | **250** | |
| **Division Total** | | | **11,818** | | | **11,755** | | | **13,680** | |

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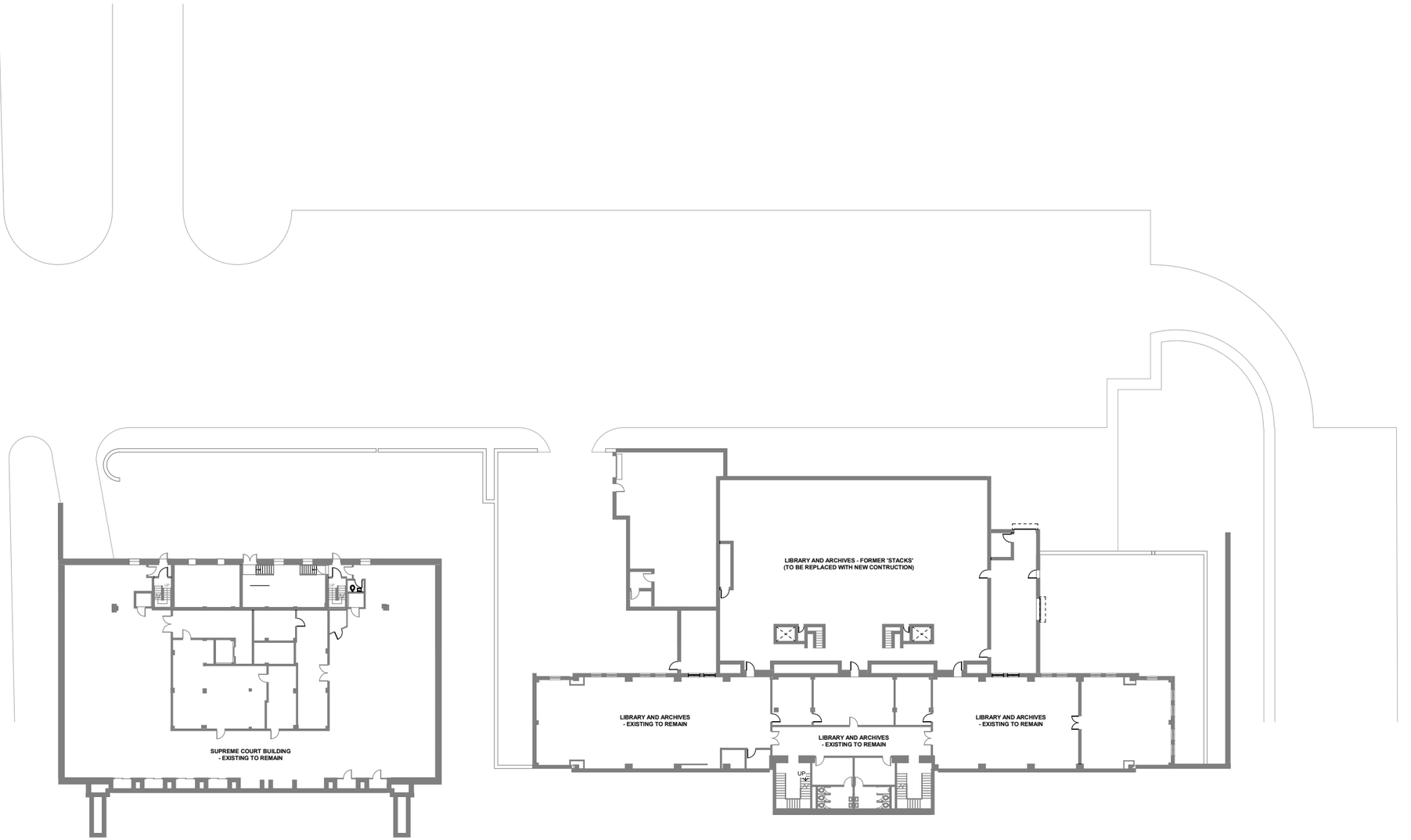
** - Grossing Factor - Departmental grossing factor used to accommodate the space requirements among individual functional components including interior walls and departmental corridors.




# EXISTING BASEMENT FLOOR PLAN

0' 8' 16' 32'

PLAN NORTH

eoa Architects

NASHVILLE SUPREME COURT
SBC #529/000-02-2019-03
AUGUST, 2022

TN


# EXISTING FIRST FLOOR PLAN

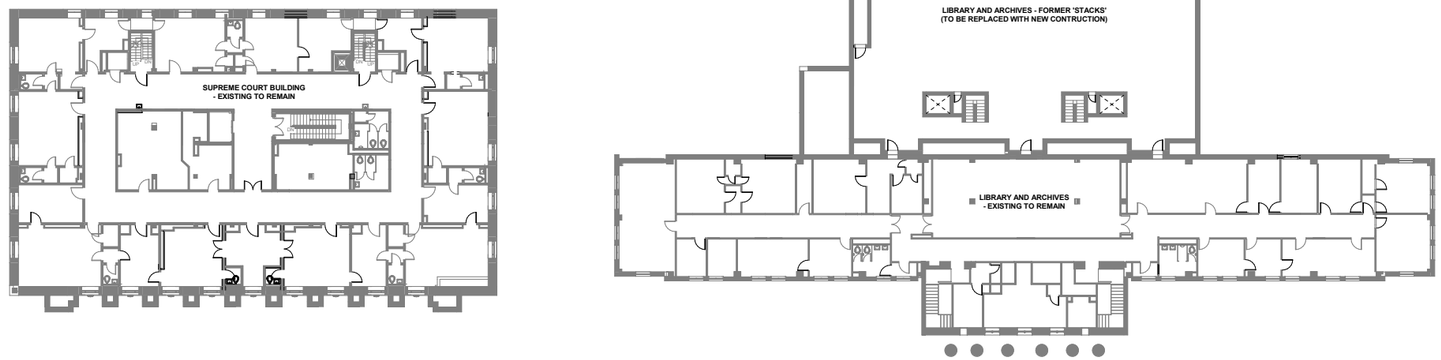
0' 8' 16' 32'

PLAN NORTH

NASHVILLE SUPREME COURT
SBC #529/000-02-2019-03
AUGUST, 2022

eoa Architects

TN




# EXISTING SECOND FLOOR PLAN

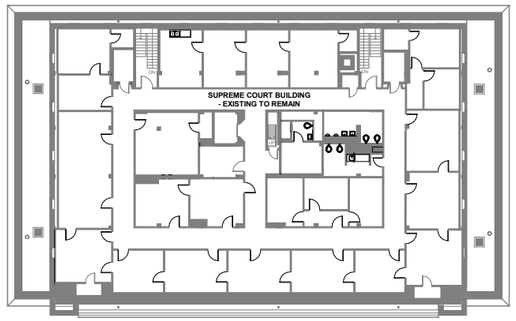
0' 8' 16' 32'

PLAN NORTH

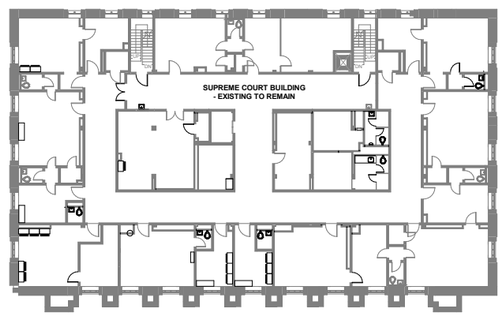
eoa Architects

NASHVILLE SUPREME COURT
SBC #529/000-02-2019-03
AUGUST, 2022

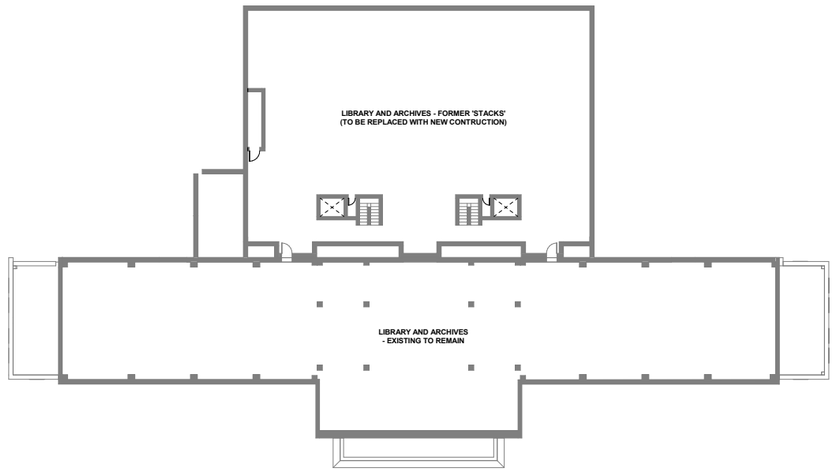
TN




FOURTH FLOOR PLAN




THIRD FLOOR PLAN




# EXISTING THIRD & FOURTH FLOOR PLAN

0' 8' 16' 32'

PLAN NORTH

NASHVILLE SUPREME COURT
SBC #529/000-02-2019-03
AUGUST, 2022

eoa Architects

TN

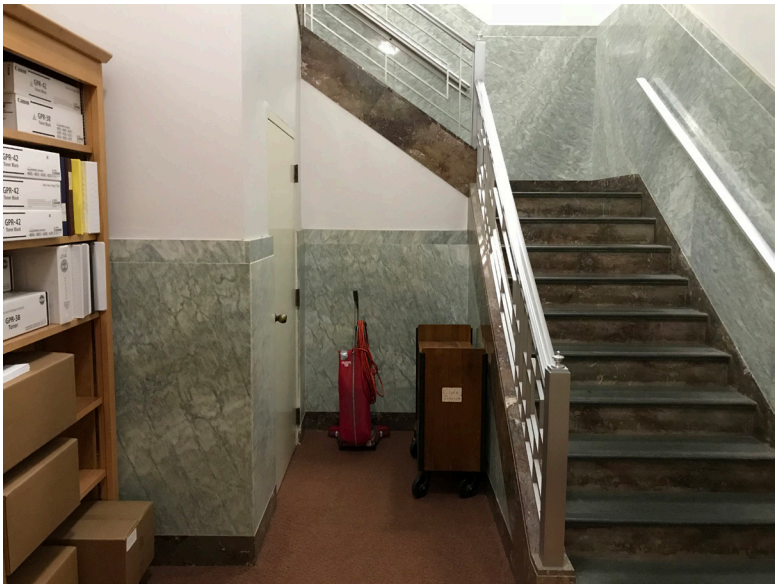
Library and Archives Lobby


Library and Archives Library Level 1

Library and Archives Conference Room

Library and Archives Office

Library and Archives Upper Level Corridor



Library and Archives Stairwell

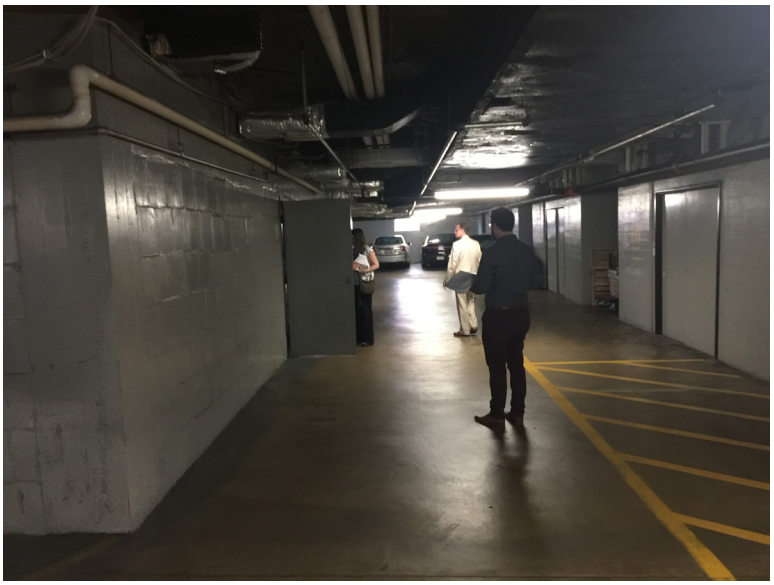
Library and Archives Lower Offices

Nashville Supreme Court Chamber

Nashville Supreme Court Office Floor Corridor

Nashville Supreme Court Office

Nashville Supreme Court Stairwell



Nashville Supreme Court Basement Garage

Nashville Supreme Court Museum


**FISCAL SERVICES - (AOC)**
1,680 PROGRAMMED SQ. FT.

**EXECUTIVE - (AOC)**
1,335 PROGRAMMED SQ. FT.

**ACCESS INNOVATION & COMMUNITY ENGAGEMENT - (AOC)**
1,196 PROGRAMMED SQ. FT.

**SHARED CONFERENCE AND MAIL - (AOC)**
1,787 PROGRAMMED SQ. FT.

**COMMUNICATION & JUDICIAL RESOURCES -(AOC)**
1,135 PROGRAMMED SQ. FT.

# BASEMENT FLOOR PLAN

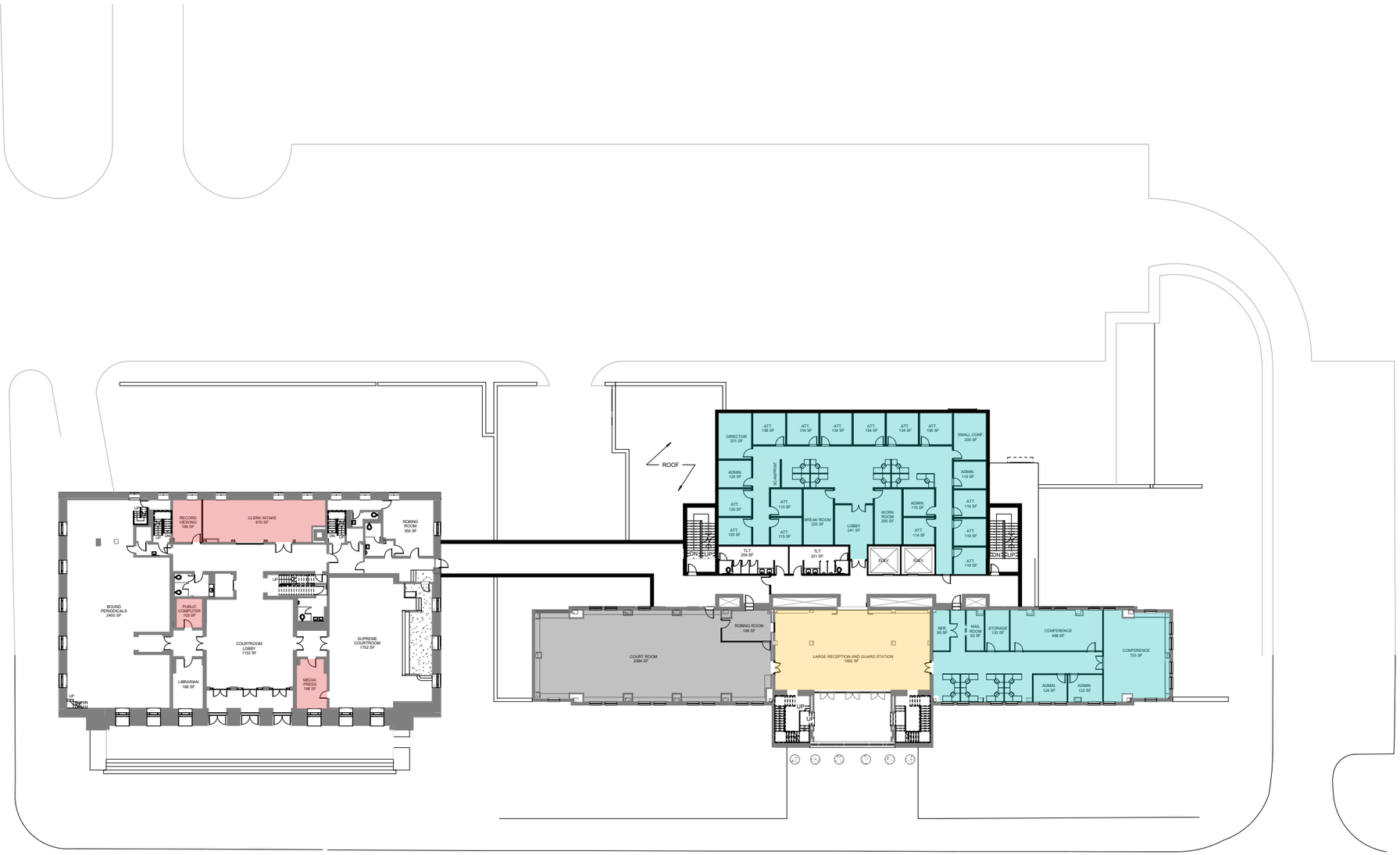
0' 8' 16' 32'

PLAN NORTH

## NASHVILLE SUPREME COURT
SBC #529/000-02-2019-03

eoa Architects

TN




**COURT CLERK**
1,137 PROGRAMMED SQ. FT.

**BOARD OF PROFESSIONAL RESPONSIBLITY**
7,877 PROGRAMMED SQ. FT.

**SHARED CONFERENCE AND MAIL - (AOC)**
1,684 PROGRAMMED SQ. FT.

**COURT ROOMS**
2,868 PROGRAMMED SQ. FT.

# FIRST FLOOR PLAN

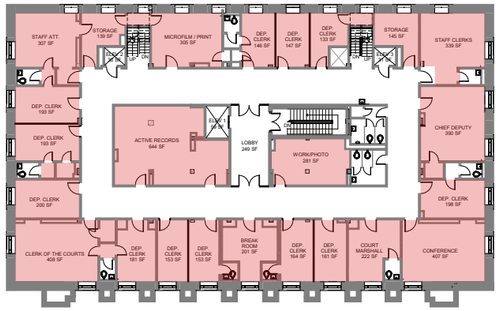
0' 8' 16' 32'

PLAN NORTH

## NASHVILLE SUPREME COURT
SBC #529/000-02-2019-03

eoa Architects

TN





**COURT CLERK**
6,369 PROGRAMMED SQ. FT.

**APPELLATE COURT OFFICES**
11,402 PROGRAMMED SQ. FT.

**SHARED CONFERENCE AND MAIL - (AOC)**
631 PROGRAMMED SQ. FT.

# SECOND FLOOR PLAN

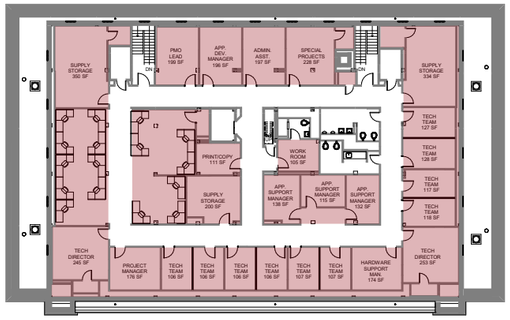
0' 8' 16' 32'

PLAN NORTH

## NASHVILLE SUPREME COURT
SBC #529/000-02-2019-03

eoa Architects

TN




FOURTH FLOOR PLAN

**INFORMATION AND TECHNOLOGY SERVICES DIVISION**
6,142 PROGRAMMED SQ. FT.


THIRD FLOOR PLAN

**EXISTING SUPREME COURT JUSTICES**
6,616 PROGRAMMED SQ. FT.


**BOARD OF JUDICIAL CONDUCT**
870 PROGRAMMED SQ. FT.

**INTERGOVERNMENTAL AFFAIRS**
1,560 PROGRAMMED SQ. FT.

**LEGAL SERVICES & JUDICIAL DEVELOPMENT**
2,200 PROGRAMMED SQ. FT.

**BOARD OF LAW EXAMINERS**
1,986 PROGRAMMED SQ. FT.

**CONTINUING LAW EDUCATION**
2,092 PROGRAMMED SQ. FT.

**SHARED CONFERENCE AND MAIL - (AOC)**
2,837 PROGRAMMED SQ. FT.

# THIRD & FOURTH FLOOR PLAN

0' 8' 16' 32'

PLAN NORTH

eoa Architects

NASHVILLE SUPREME COURT
SBC #529/000-02-2019-03

TN

Power Management Corporation
CONSULTING ENGINEERS

**MPE Pre-Planning Narrative for:**

## Nashville Supreme Court

**Nashville, TN**

**Version 1**
**August 15, 2022**

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Included in this document is a summary of building components for HVAC, Plumbing, Fire Protection, Lighting, Power, and Voice/Data Infrastructure for the Nashville Supreme Court Renovation. These notes are to be used as a pricing tool in conjunction with the drawings provided by EOA Architects.

**Division 21 – Fire Protection Systems:**

Demolition

The limited fire sprinkler piping in the buildings will be completely removed.

Water Entry and Risers

A 6" underground fire line will enter the Basement Level of the Supreme Court Building from Charlotte Ave to serve all areas of both buildings. A double check valve assembly, post indicating valve, and fire department connection will be installed on site. The 6" line will feed one wet riser for the indoor sprinkler system.

Standpipes and Distribution

A horizontal 4" main will be routed through the Basement Level to serve the standpipes and wet sprinkler system for the buildings. A 4" manual wet standpipe with a hose connection will be installed in each of the [four] egress stairwells. One standpipe will serve as a combination sprinkler/standpipe with floor control valve on each level. The entire floor of the buildings will be served from the floor control valve on each level.

Hazard Classifications

Office spaces, court rooms, meeting rooms, break rooms, and similar occupancies will be protected with a Light Hazard density as described in NFPA 13

Equipment Rooms and similar occupancies will be protected with an Ordinary Hazard (Group 1) density as described in NFPA 13

Piping and Sprinkler Heads

All sprinkler piping will be standard-weight black steel pipe. Sprinkler heads in areas with lay-in ceilings will be chrome-plated semi-recessed type. Sprinkler heads in areas with gypsum board ceilings will be concealed type, and heads in exposed ceiling areas will be brass upright type. Sprinklers in the garage will be upright dry-type.

**Division 22 – Plumbing Systems:**

Demolition

All of the existing plumbing systems (fixtures, domestic water piping, sanitary and vent piping) will be removed from the buildings.

Water Entry

A new 3" domestic water line will enter the Basement Level of the Supreme Court Building from Charlotte Ave to serve both buildings. A reduced pressure backflow preventer will be installed in an above ground enclosure on site.

Domestic Piping Systems

Domestic hot, cold and recirculation water piping will be Type L copper and distributed throughout the building to serve all plumbing fixtures. All domestic water piping will be insulated. Schedule 40 cast iron piping shall be used for all sanitary waste, vent, and rain water leaders throughout the buildings. A 6" sanitary line and 12" storm water line will exit the building.

Fuel Oil

A 10,000-gallon fuel-oil storage tank for supplying the standby generators will be installed in a 2-hour vault in the plaza level. The fuel oil tank will be UL42 listed double-wall indoor rated. The storage tank will have vent piping, emergency vent piping, and fill piping to the outdoors in accordance with the IMC.

The transfer pumps will be duplex, positive displacement pumps with BACnet BAS interface and dual redundant controllers. They will also be in the fuel-oil vault.

A packaged Fuel Maintenance System will be installed in the vault to polish the fuel oil. The system will be rated for 10 GPM, with BACnet interface for alarms, and a programmable scheduler.

A 300-gallon day tank will be provided at the generator location. The day tank controller will have redundant fill valves and a backup overflow valve. All valves will be monitored for status and will generate an alarm if not in the proper position.

Fuel oil piping (supply and overflow) will be black steel between the generator day tank, fuel polisher, and fuel tank.

Water Heaters

A steam to water heat exchanger will provide domestic hot water to serve the Supreme Court and Library/Archives buildings.

Fixtures

Plumbing fixtures for the buildings will be medium grade fixtures, typical for commercial building use. Water closets will be flush valve type.

**Division 23 - Heating, Ventilation, and Air-Conditioning Systems:**

Demolition

The entire mechanical system (air handlers, ductwork, reheat coils) for the Library/Archives building and the Supreme Court building will be removed. Most of the ductwork to be removed is installed in vertical chases. The two building entries for the District Energy System (DES) will be removed.

DES Entry

A new DES Chilled water and steam entry will be provided in the Basement Level of the Supreme Court Building. Heat exchangers and chilled/hot water pumps will be installed to decouple the DES system from the building's hydronic system.

Chilled Water and Hot Water Systems

Chilled water will be pumped form the Basement Level to each new air-handling unit (AHU). Hot water will be pumped from the Basement Level to each new re-heat coil located in the building.

Air Handling Units

The Library/Archives building will have a mechanical room on each level that will house a chilled water AHU. AHUs will range from 15,000 CFM to 20,000 CFM. The Supreme Court building will have a 25,000 CFM AHU located in the Basement Level and a 10,000 CFM AHU located in the penthouse. All AHUs will have a hot water pre-heat coil. They will include variable speed fans and supply a medium pressure ductwork system with variable air volume (VAV) terminal units.

Air Distribution (Supply, Return, Ventilation, and Exhaust)

Supply, return, ventilation, and exhaust ductwork for the Supreme Court building will be new and routed in the same general locations as the current ductwork that will be removed. The AHU on the Basement Level will serve Basement, First, Second, and half of the Third Levels. The Penthouse AHU will serve Fourth and half of the Third Level of the Supreme Court building.

Supply and return ductwork for the Library/Archives building will be routed from each mechanical room throughout the floor it serves. Ventilation air will be delivered from a roof mounted 5,000 CFM energy recovery ventilator to each AHU in the Library/Archives building. All ductwork will be galvanized sheet meatal.

Terminal Units

[Description of the VAV boxes here. Need to decide how to describe the Supreme Court Building distribution. Are we replacing fan coil units with VAV boxes?]

Building Automation System

A native BACnet over IP building automation system will be provided and will interface to all pertinent mechanical systems as well as the lighting controls. System will have a graphical user interface and will be capable of controlling and trending all major pieces of equipment and performance parameters.

**Division 26 – Electrical Systems**

Demolition

The existing electrical lighting, power distribution, and low-voltage systems serving the Library/Archives building will be demolished. Electrical systems in the Supreme Court building will be selectively demolished, keeping existing infrastructure in areas that are not being renovated.

The existing electrical utility vaults will be demolished.

All demolished materials will be removed from the site and properly disposed.

Utility Vault and Service Entrance

A new underground electric utility vault will be constructed on Charlotte Avenue, on the North boundary of the property. The new vault will be constructed in accordance with NES network guidelines. [Need reference to the actual name]

The new vault will be approximately 45’ x 20’ with a 16’ depth, located under the public sidewalk. It will be constructed of reinforced concrete with removable concrete plank covers and steel grating for ventilation.

The vault will house three to four (N+1) oil-filled network transformers that will be dedicated to the facility. [check sizes vs service entrance size to determine quantity]

Power Distribution

The service voltage to the building will be 277/480-volt three-phase four-wire, grounded wye. Two service entrance laterals will be routed in rigid metallic conduit from the utility vault to the electrical room in the original courthouse building. Each service entrance will be rated 2,000-amps and will terminate in an incoming/metering section of the switchboards described below.

The main electrical distribution will consist of two main switchboards (MSA and MSB). Each switchboard will have a 2,000-amp MAIN circuit breaker, and a 1,200-amp TIE breaker. All MIAN and TIE breakers will be UL 1558 Power Circuit Breakers with draw-out chassis and motorized operators. A manual control scheme will allow the operator to transfer from the MAIN to the TIE at each switchboard.

The distribution section of each switchboard will include overcurrent protective devices (molded case circuit breakers in a fixed-mount arrangement) serving various distribution panels and transformers in the building. The bussing will be copper, and the entire switchboard and all overcurrent protective devices will be rated for 200kAIC at 277/480-volts.

Two 500 kVA dry-type transformers and 1,600-amp switchboards will be installed for distribution of the 120/208-volt power system. The 1,600-amp switchboards will each have 1,600-amp main circuit breakers and 800-amp TIE breakers. The TIE breakers will connect each switchboard together to provide the ability to maintain each 500-kVA transformer without shutting down the loads.

Standby Power

A single 1,000 kW standby diesel generator will be installed in a new generator room. Its output will be 277/480-volt and it will be connected to a 3,000-amp generator distribution switchboard. The GSB will include two 1,600-amp insulated case circuit breakers for generator input connections and two vertical sections for output distribution at 480-volt three phase, 3-wire. One of the input breakers will be used for the permanent generator, and the second one will be for a temporary generator connection or load bank connection point. There will be provisions for adding a second generator with on-board paralleling capability in the future.

Standby power will be provided for the life safety loads (Article 700), Legally required standby loads (Article 701) and optional standby loads (article 702), via five automatic transfer switches (ATS). Each ATS (excluding the fire pump controller) will include a power meter, isolation bypass mechanism, and be of the closed-transition type.

Life safety branch circuit panels will be located on each floor for connection to the required egress lighting and fire alarms systems components. Elevators and all smoke evacuation/control fans will be powered from the equipment (701) branch transfer switch.

Information Technology equipment and the HVAC and fire protection systems serving technology spaces will be of a “dual-bus” design for concurrent maintainability. The “A” bus will be connected to a dedicated ATS and the “B” bus will be connected to a second ATS. Power pathways for all technology equipment will be 2N redundant from the generator to the end use equipment.

Automatic Transfer Switch Summary:

| ATS | Rating | Loads Served |
|---|---|---|
| LS | 260-amp | Lifes Safety Systems |
| FP | 260-amp | Fire Pump |
| EQ | 800-amp | Elevators/smoke control |
| ITEQ-A | 800-amp | Technology Equipment and related Cooling |
| ITEQ-B | 800-amp | Technology Equipment and related Cooling |

Lighting and Controls

General lighting will be accomplished with recessed LED luminaires as follows. All lighting fixtures and controls components will be made in the USA:

| Space | Lighting Fixture Type | Control Type | LPD (W/SF) | Illuminance (FC) |
|---|---|---|---|---|
| Offices/Administrative | 2x4 Recessed Indirect | Vacancy | | |
| Conf Rooms<br>Library | Pendant Indirect<br>6” downlights | Vacancy +<br>Scene Controller | | |
| Stairs | Wall mount 4’ linear | Occupancy | | |
| Courtroom Lobby/Hall | Existing pendant fixtures re-fit with LED | Scene Controller | | |
| Appellate Courtroom | Decorative Pendants<br>6” downlights | Scene Controller | | |
| Restrooms | Cove lighting +<br>6” downlights | Occupancy | | |
| Corridors | Decorative sconces and downlights | Occupancy | | |
| Storage<br>Mechanical/Electrical | Surface mounted and pendant 4’ linear | Occupancy | | |
| Parking Garage | Low profile surface mount PG | Occupancy | | |
| Exterior | Wall mounted accent lighting | Time of Day | | |
| | | | | |

Branch Circuitry and General Use

The 480-volt and 120/208-volt power will be distributed to branch circuit panels on each floor of each structure. All lighting and general receptacle branch circuits will be 120-volt. All HVAC fans and other miscellaneous equipment will be 480-volt three phase, three-wire. The neutral conductor on the 480-volt system will not be carried to the 480-volt distribution panels and no equipment will utilize 277-volts. This will greatly reduce the potential for ground fault nuisance trips and reduce the costs of installation.

All branch circuit home runs will be copper conductors in EMT conduit with steel set-screw fittings. MC cable will be utilized for 20-amp branch circuits where concealed inside metal stud walls. Conduit in the parking garage will be poured in the slab in EMT conduit.

General use receptacles will be specification grade, 20-amp devices. Line-voltage occupancy/vacancy sensors will be specification grade. All dimmable LED fixtures will require 0-10-volt DC control wiring. All scene controllers will be low-voltage with RJ45 jacks and ethernet cable for control wiring.

Communications and Information Technology Rooms

Low voltage cabling will be run overhead above suspended acoustical tile ceilings. J-hooks and cable ties will be utilized for most cable management. Some wire basket tray will be used for major trunks, near the core and the IDF rooms.

There will be two IDF closets on each floor for levels 1 through 3, and one IDF closet on level 4. The MDF will be in the Plaza level. All IDFs will connect to the MDF via multi-mode fiber.

The MDF will be supported by two 100 kVA Uninterruptible Power Supply systems (UPS). Each UPS will be fed from a separate ATS for concurrent maintainability (See Standby Power section above). Each UPS will include a power distribution module and 84-pole spaces for critical system branch circuits. 100-amp UPS sub-feed panels will be located on each floor for serving IT equipment in the IDFs.

Fire Alarm System

A complete fire alarm and life safety system will be installed in the building. The system will be compliant with NFPA 72 and listed to UL 2572 (Mass Notification System). Annunciation will be by speakers and strobes. Either automated or manual voice evacuation instructions will direct occupants with the appropriate response to an emergency.

The sprinkler system will be monitored, as will all smoke detection equipment related to the atrium. Elevators will be recalled to the selected floor upon any fire event. Fireman phone jacks will be located at each elevator lobby and in each star. Area smoke detection will be installed where required by the NFPA and IBC codes for the occupancy type. Manual pull stations will be located at all primary exits.

The main fire alarm control panel and annunciators will be located at the fire command center in the main level.

Lightning Protection and Surge Protection

The building will be protected by a lightning protection system that complies with NFPA 780. All Switchboards will be protected by a Level 2 Surge Protective Device (SPD). All standby power panel and panelboards will be protected by a Level 3 SPD.

END OF NARRATIVE

EMC STRUCTURAL ENGINEERS, P.C.

# TN Supreme Court Library & Archives
# Nashville, Tennessee

## Structural Schematic Narrative

### I. Project Description

The project includes additions and renovations to the former State Library and Archives buildings, circa 1951. The scope includes demolishing the existing stacks building and adding a new three-story office building behind the former State Library and Archives building. There will be enclosed parking at the basement level of the new office building. The project also includes a private elevated connector between the existing State Supreme Court building and new office addition. There will be an expansion joint between the new office building and the existing building.

### II. Code and Design Criteria

A. Applicable Codes

1. International Building Code, 2018 Edition
2. ASCE 7-16

B. Design Loads

1. Live Loads: (Reducible as allowed by code)

| | |
|---|---|
| Court Rooms | 100 psf |
| Public Spaces, Stairs | 100 psf |
| Sidewalks/Drives/Plaza | 250 psf |
| Mechanical Room | 125 psf |
| Offices (including partitions) | 65 psf |
| Corridors (upper floor) | 80 psf |
| Storage | 150 psf |
| Roof | 20 psf (minimum) |

2. Dead Loads (superimposed)

| | |
|---|---|
| Partitions | 10 psf |
| Miscellaneous | 10 psf |
| Roof | 20 psf |

3. Wind Loads

| | |
|---|---|
| Basic Wind Speed | 105 mph |
| Exposure | B |
| Wind Risk Category | II |

4. Seismic Loads

| | |
|---|---|
| Seismic Use Group | II |
| Importance Factor | 1.0 |
| Sds | 0.151 |
| Sd1 | 0.075 |
| Site Class | A (Assumed) |
| Seismic Design Category | B (Assumed) |
| Seismic Force Resisting System | Ordinary reinforced concrete shear walls. |
| Analysis Procedure | Equivalent Lateral Force Procedure |

## III. Foundations

A. Geotechnical Report

A geotechnical report has not been produced for this project. For the purpose of this narrative, a shallow foundation system with an allowable rock bearing capacity of 50 ksf has been assumed. The foundation systems described below are assumed and should be verified with the geotechnical report when produced.

B. Slabs on Grade

Four-inch-thick concrete (4,000 PSI) slab reinforced with WWF 6 x 6-W1.4 x W1.4 over 15 mil polyofelin geo membrane vapor barrier on 4” granular fill (sand or crushed stone).

C. Spread Footings

1. Exterior walls and load bearing walls will be supported on strip footings 3’-0” wide x 1’-0” thick reinforced with four #5 continuous rebar bearing on sound bedrock.

2. Typical column footings are estimated to be as follows:
Interior columns: 4’-0” x 4’-0” x 30” thick reinforced with (8) #6 each way.
Exterior columns: 4’-0” x 4’-0” x 24” thick reinforced with (8) #6 each way

D. Basement Walls

Fourteen-inch thick concrete wall reinforced with two layers of #5 at 12" vertical and horizontal.

## IV. Floor Framing

A. Composite Steel – Office Addition

1. The structure for the floor will consist of 6-1/2" slab of normal weight structural concrete (4,000 PSI) reinforced with 6 x 6–W2.1 x W2.1 WWF on two-inch, 20-gage galvanized composite deck. The slab will be supported by composite steel beams and girders. Steel beams will be spaced approximately 7'-0" centers. Steel girders will be located on interior column lines. There will be a steel bent plate around the perimeter.

2. Typical composite beams will be W18x35. Typical composite girders will be W21x44.

3. Floor structure weight (including deck and columns) is expected to be approximately 9.0 p.s.f.

4. Typical steel columns will be W10x60.

B. Composite Steel – Elevated Connector

The connector bridge will consist of structural steel trusses that clear span approximately 70-ft above existing parking and drive. Two parallel trusses will be constructed of W18x40 bottom and top chords and HSS5x5 diagonal members. Floor framing will consist of a 5-1/2" slab of normal weight structural concrete (4,000 p.s.i.) reinforced with 6 x 6 – W2.1 x W2.1 WWF on two-inch, 20-gage galvanized composite deck. The slab will be supported by W12x26 composite steel beams spaced approximately 6'-0" centers. The bridge will be supported by W12x72 columns at the end of each truss. Floor structure weight (including deck and columns) is expected to be approximately 10.0-psf.

## V. Roof Framing

A. The roof will consist of 22-gage, 1-1/2" deep, wide-ribbed, painted roof deck. The deck will bear on steel beam purlins spaced at approximately 5'-0" centers. Typical purlins will span 25' to 30'. The steel roof purlins will be supported by steel girders located on primary column lines. Typical steel purlin depth will vary from 12" to 14". Typical steel girders will vary from 16" to 18" in depth. There will be a continuous steel angle or bent plate at the roof perimeter. Roof steel weight (excluding columns and deck) is expected to be approximately 7.0-psf.

B. Rooftop Unit Supports and Screen Walls

Rooftop mechanical units will be supported by a 5-1/2" normal weight concrete slab on two-inch, 20-gage galvanized composite steel form supported by the roof framing.

There will be screen walls around the rooftop mechanical equipment. Vertical HSS6 x 6 steel columns at approximately 10'-0" centers will be supported from the roof framing. An HSS 6 x 6 tube will run horizontally at the top and bottom of the screen wall. The space between the horizontal tubes will be infilled in with 6" light gage studs.

## VI. Veneer Support Lintels

A. A steel shelf angle will be suspended from the first floor and low roof structures to support the brick veneer for openings greater than 10'. For openings 10' or less in width loose angle lintels may be used. The lintels and other miscellaneous steel will add approximately 1.0-psf of steel to the project.

## VII. Lateral Load-Resisting Structure

A. Concrete Shear Walls

Elevator and stair shaft walls will be constructed with 10" concrete walls typically reinforced with two layers of #5 rebar at 12" centers vertical and horizontal. Boundary elements of rebar column cages with (4) #5 vertical and #3 ties at 12" will be located at each corner of each wall.

## VIII. Structural Testing and Inspection

A. Special inspections and testing, as defined in Chapter 17 of the International Building Code and specified in the Project Specifications, are required to verify that the work has been completed in compliance with the Construction Documents. Tests and inspections shall be performed by a qualified Structural Testing/Inspection Agency.

## IX. Existing Structures

The building code requirements for existing buildings under the 2018 International Building Code is no longer in "Chapter 34" as in earlier editions. The 2018 IBC references another new publication "2018 International Existing Building Code" for requirements for repair, alterations, additions, and change of occupancy of existing structures. We performed a code analysis of this existing building code, and a copy of the applicable sections are included.

### Historic Buildings

It is our understanding from EOA, the project architect, that the front portion of the former Library and Archives building is a historic building. Chapter 2 of the existing building code defines historic buildings. Chapter 12 of the existing building code addresses the requirements for repair alterations and change of occupancy for historic buildings. Section 1205 of Chapter 12 covers the structural requirements for historic buildings. Paragraph 1205.1 states historic buildings shall comply with the applicable structural provisions in Chapter 5. The applicable section of Chapter 5 for this building is 503 - Alterations. The following is our interpretation of the applicability of each paragraph.

503.1 The existing structure meets this requirement.

503.2 Not applicable.

503.3 This paragraph is applicable, and is discussed at the end of this section of the Narrative.

503.4 Not applicable due to locations of expansion joints between additions and existing buildings.

503.5 Not applicable.

503.6 Not applicable.

503.7 Not applicable.

503.8 Not applicable.

503.9 Not applicable.

503.10 Not applicable.

503.11 Not applicable.

503.12 Not applicable.

503.13 Not applicable.

Paragraph 503.3 addresses the gravity load-carrying capacity of the floor structures. The use of the existing floors for this project are very similar to the uses shown in the original drawings. Based upon our code research and analysis of the existing floor structures, the project does not cause an increase in the design dead, live, or snow load, and therefore meets the requirements of this paragraph.

No structural modifications or strengthening are required for the existing historic structure to be used for this project.

3.3 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to inspect field welds and high-strength bolted connections.

**END OF SECTION 05120S**