

#### City of Cartersville Historic Preservation Commission COP Application Staff Report

Case: COP22-16

**HPC Meeting - 9.20.2022** 

#### **Application Information**

Address: 429 W Main St.

Applicant: Bartow County Library System.

Historic District: West End

Zoning: P-I

Setbacks: Front= 20ft.

Brief Description: Add amphitheater, Approx. 30ft x 35ft. in the front yard of a multi-

frontage lot.

#### **Applicable Guidelines to Consider**

Residenti	al D	esign Guidelines			
Part One: Maintaining, Repairing, Replacing Structure					
A. Wood	A. Wood K. Utilities and Energy Retrofit				
B. Masonry		L. Accessibility, Health, and Safety Considerations			
C. Architectural Metals		M. Additions to Historic Buildings			
D. Paint		N. Aesthetic Recommendations			
E. Roofs					
F. Exterior Walls	X	PART TWO: New Construction			
G. Driveways, Walkways, and Off-Street Parking					
H. Lighting		PART THREE: Relocation			
I. Windows and Doors					
J. Entrances, Porches and Balconies		PART FOUR: Demolition			
Commercial Design Guidelines (H	isto	ric Downtown Business District)			
PART ONE: General Guidelines for Structures Cor	PART ONE: General Guidelines for Structures Contributing to the District.				
PART TWO: Guidelines for New Construction –					

#### **Project Description:**

- 1. Add amphitheater, approx. 3oft x 35ft.
- 2. Materials to be brick and concrete.
- 3. (Optional) Add metal beams for a roof structure. Could be reviewed at a later date if the roof structure is needed.

#### **History of the Property:**

Bartow County Tax Records show library constructed in 2006.

No COPs on file.

#### **Analysis of the COP:**

The Structure is non-historic, non-contributing.

Type: Modern. Style: Undetermined.

The Bartow County Library System in coordination with Art in Bartow are proposing a new amphitheater adjacent to School Street on the library property. The small performing arts and lecture space- a Performance Patio- will occupy an approx. footprint of 30ft x 35ft. and will utilize the large library lawn as seating area for performances and lectures. The structure will have a masonry floor with an approximate 8ft. wall enclosing the rear of the stage area along School St. The structure will be made of brick and concrete.

Landscaping will enhance the structure.

Steel beams are proposed for the roof structure that would support the addition of audio/ visual enhancements. The roof is optional at this time and may not be a consideration based on a conversation with Carmen Sims, Library Director. The roof structure is shown on the site and architectural plans.

A variance will also be needed for this project as the structure is being placed in the front yard along School Street. The variance will be heard at the Oct. 13<sup>th</sup> BZA meeting. Case No. V22-20.

#### **Commissioners Work Sheet**

#### **Materials:**

Existing Materials Materials to be Used

Roof Steel or like material

Siding Windows Doors

**Exterior Lighting** 

Foundation Concrete/ brick
Walls Concrete/ brick
Steps Concrete/ brick

**Porches** 

Ornamentation

#### **Notes:**

I move to (approve, approve w/ conditions, or deny) the application for (state proposed changes) at (address) (as submitted, or with the following conditions). I find (compliance or noncompliance) with the guidelines referenced in the staff report and those brought up during discussion.

The City Council of the City of Cartersville adopts the West End Historic District as indicated herein.

- (a) Boundaries. The boundaries of the West End Historic District as indicated herein.
  - The West End District encompasses an area commencing with the property at the NW corner of the intersection of West Main Street and Bartow Street. The district continues SW on Etowah Drive to the intersection with Lee Street then west to include the properties on the north side on Lee Street (approximately eight (8) properties). The boundary then extends west to the intersection of Woodland Drive and Terrell Drive (includes the properties on the south side of West Avenue (SR 61/113). The district turns north and west for approximately four (4) properties to West Avenue (Highway 113). The district boundary turns west onto West Avenue (SR 61/113) past Attaway Drive. The boundary to Elm Street then east to Knight Way and Knight Street the intersection with Lee Street. The boundary extends north on Lee Street to West Cherokee Avenue. The boundary extends east on West Cherokee Avenue to School Street then south on School Street to Tabernacle Street. The boundary then follows east on Tabernacle Street to Bartow Street then south on Bartow Street to the intersection with West Main Street.
- (b) Designation of contributing and non-contributing and owner list. The following is a list of all properties and property owners of the West End Historic District and designation of each property as contributing or noncontributing pursuant to the City of Cartersville Historic Preservation Ordinance.

F Name	L Name	House No.	Prefix	St. Name	Туре	City	State	ZIP	Status
D. ARNOLD	TILLMAN, JR.	2		ATTAWAY	DR	CARTERSVILLE	GA	30120	С
D. ARNOLD	TILLMAN, JR.	4		ATTAWAY	DR	CARTERSVILLE	GA	30120	NC
DAVEID ALLEN & MARTHA	WILBERT	13		ATTAWAY	DR	CARTERSVILLE	GA	30120	NC
RANDALL H	DAVEIS	16		ATTAWAY	DR	CARTERSVILLE	GA	30120	NC
SHARON K	MASON	17		ATTAWAY	DR	CARTERSVILLE	GA	30120	NC
DENNIS & ELIZABETH	WOMACK	19		ATTAWAY	DR	CARTERSVILLE	GA	30120	С
MRS. J. W.	GILREATH	23		ATTAWAY	DR	CARTERSVILLE	GA	30120	С
MARION L	WILLS	20		CEDAR	LN	CARTERSVILLE	GA	30120	NC
EXENE D	BLACKSTOCK	22		CEDAR	LN	CARTERSVILLE	GA	30120	NC
LAWRENCE S	PRITCHARD	24		CEDAR	LN	CARTERSVILLE	GA	30120	NC

the site, or if it will require the removal of a significant building element or site feature.

- 3. One shall not construct an addition that significantly changes the proportion of built mass to open space on the individual site.
- 4. Construct new additions so that there is the least possible loss of historic fabric and so that the character-defining features of the historic building are not destroyed, damaged, or obscured.
- 5. Design new additions so that the overall character of the site, site topography, character-defining site features, trees, and significant district vistas and view are retained.
- 6. Locate a new addition on an inconspicuous elevation of the historic building, usually the rear one.

#### $\rightarrow$

#### B. New building construction:

- 1. New site construction shall be compatible with surrounding buildings that contribute to the overall character of the historic district in terms of orientation, and distance from adjacent buildings.
- 2. Design new construction so that the overall character of the site, site topography, character-defining site features, trees, and significant district vistas and views are retained.
- 3. Evaluate in advance and limit any disturbance to the site's terrain during construction to minimize the possibility of destroying unknown archaeological resources.
- 4. Design new buildings to be compatible with surrounding buildings that contribute to the overall character of the historic district in terms of height, form, size, scale, massing, proportion, and roof shape.
- 5. Design the proportion of the proposed new building's front facade to be compatible with the front facade proportion of surrounding buildings.
- 6. Design the spacing, placement, scale, orientation, proportion, and size of window and door openings in proposed new construction to be compatible with surrounding buildings that contribute to the special character of the historic district.
- 7. Select windows and doors for proposed new building that are compatible in material, subdivision, proportion, pattern, and detail with the windows and the doors of surrounding buildings that contribute to the special character of the historic district.
- 8. Select materials and finishes for proposed new buildings that are compatible with historic materials and finishes found in surrounding buildings that contribute to the special character of the historic district in terms of composition, scale, module, pattern, detail, texture, finish and sheen.
- 9. Design new buildings so that they are compatible with, but discernible from, historic buildings in the district.

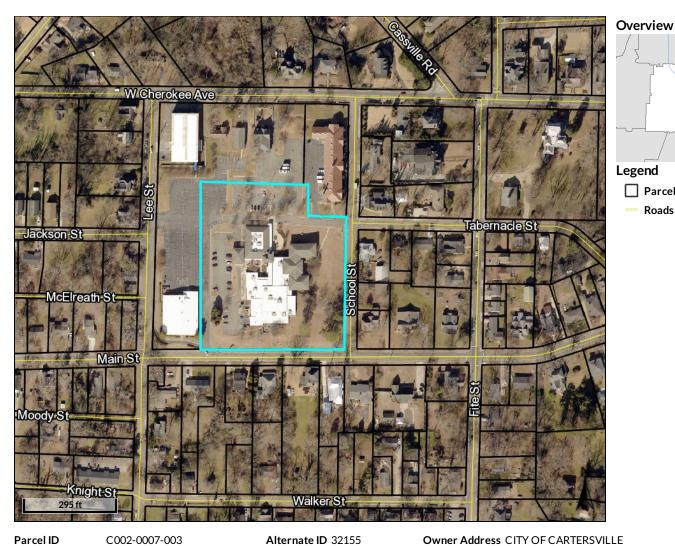
#### Recommendations:

1. Protect large trees and other significant site features from immediate damage during construction and from delayed damage due to construction activities, such as loss of root area or compaction of the soil by equipment. It is especially critical to avoid compaction of the soil within the drip line of trees.

#### PART THREE—RELOCATION OF STRUCTURES

- 1. Before moving a historic structure, document its original setting and context. Use photographs, site plans, or other graphic or written statements to record existing site conditions.
- 2. Enlist contractors experienced in moving historic buildings to do the following:
  - a. Determine the structural condition of the property before the move.
  - b. Coordinate the move with the utility companies and appropriate city departments.
  - c. Protect the structure from vandalism or weather damage before, during and after the move.

# **@qPublic.net**<sup>™</sup> Bartow County, GA



Owner Address CITY OF CARTERSVILLE PO BOX 1390 CARTERSVILLE, GA 30120 ₽

Parcels Roads

District Cartersville

Property Address 429 W MAIN ST

**Brief Tax Description** LL 484 D 4 Bartow County Public Library

(Note: Not to be used on legal documents)

Class

Acreage

Exempt

5.05

Date created: 9/16/2022 Last Data Uploaded: 9/15/2022 10:41:01 PM



Sec/Twp/Rng



#### **PROCEDURE**

#### Application Requirements

All Applications must be complete and include support materials listed on the reverse of this form and a \$25 non-refundable application fee.

#### Application Deadlines

See 3rd page of application for application submittal deadlines

#### Application Representation

The applicant or authorized representative of the applicant should attend the public hearing to support the application

#### **Building Permits Requirements**

In Addition to a COP application, building permits must be acquired from the Community Development Department. Building permits will not be issued without proof of a COP.

#### **Deadline for Project Completion**

After approval, the COP is valid for 18 months and void if construction does not begin within 6 months of approval.

Office Use	Only
Case Number	12-16
Date Received	8-25-72
Contributing	N
Zoning	P-I
Legal Advertisement	9-13-22
Notified Adjacent	
HPC Hearing	9-20-27
<b>HPC Decision</b>	
COP Expiration	
Project.Completion	
Tax Parcel C 0	02-0007-003

# Cartersville Historic Preservation Commission CERTIFICATE OF PRESERVATION APPLICATION

	*Applicant Bartow County Library System				
	Project Address 429 West Main St., Cartersville 30120				
	Mailing Address (if different than project address)				
F	Phone				
E	Emailcarmen@bartowlibrary.org				
f	NOTE. If applicant is not the owner, as listed on the property deed, a letter from the lowner authorizing the proposed work must be included along with the owners phone number and address.				
PR	Existing Building Type				
0	Residential One, Two or Multi-family				
E	Gerage, Storage				
C	Other Public Library				
	Brief Project Description (example addition of survicem installation of fence)				
I NI	Type of Project (Check all that apply)				
F					
O R	Addition to building Relocation of building(s)				
M	Demolition				
Ť	Fence(s), wall(s), landscaping Minor exterior change				
-0	Major restoration, rehabilitation, or remodeling				
N	Other Detached patio with privacy walls				
	Start Date: ASAP				
-	Anticipated Completion				
	Contractor/Consultant/Architect Barry Henderson				
lla	AUTHORIZATION				
In consideration for the City of Cartersville's review of this application for a proposed change to a locally designated property.					
the applicant agrees to hereby indemnify and hold harmless the City and its' agents and employees from and against any and all claims.					
damages, and/or liability arising from or related to this application or					
	any issuance of a permit hereunder.				
Date	Date 8/25/2022 Signature Carmin Minus				

#### APPLICATION CHECKLIST

The following list includes the support material necessary for review of a particular project.

	ildings and New Additions
	site plan
	architectural elevations
	landscape plan (vegetation not required)
	description of construction materials
	photographs of proposed site and adjoining
	properties
Major R	estoration, Rehabilitation, or Remodeling
	architectural elevations or sketches
	description of proposed changes
	description of construction materials
	photographs of existing building documentation of earlier historic
	appearances (restoration only)
Minor E	xterior Changes
	description of proposed changes
	description of construction materials
	photographs of existing building
Site Cha	anges – Parking areas, Drives, Walks
	site plan or sketch of site
	description of construction materials
	photographs of site
Site Cha	anges – Fences, Walls, Systems
	site plan or sketch of site
	architectural elevations or sketches
	description of construction materials
	photographs of site
Site Cha	anges – Signs
	specifications
	description of construction materials and illumination
Demolit	ion
	ude a complete plan for the new development.
	timetable
	demolition budget
	new construction budget
	evidence of adequate financing
NOTE:	Only complete applications will be placed on

n the agenda for design review. Submit to:

> City of Cartersville Planning and Development Department P.O. Box 1390 Cartersville, GA 30120

#### PROJECT DESCRIPTION

Include support materials and attach additional sheets if needed. If the proposed scope of work will involve more than one type of project, please divide the description. [Example: (1) Addition to rear (2) New roof]

Performance patio with privacy walls and steel structure for lights to attach. Intended to enable the library to hos outside performances and events with a raised
outside performances and events with a raised
performance area. See attached.
1
PRECEDENCE OF DECISIONS

Each application will be considered on it's own merit with reference to the Secretary of the Interior's Standards and the Commission's published Design Standards. While the Historic Preservation Commission may consider past actions when making decisions on an Application for a Certificate of Preservation, it is not held by those decisions when considering new application that may appear similar in character.



CARTERSVILLE PUBLIC LIBRARY

# "Performance Patio"

IN PARTNERSHIP WITH ART IN BARTOW



# Library Director, Carmen Sims

The Cartersville Public Library offers educational, informational, and recreational programs for all ages. We serve as a community center providing resources for children and adults including spaces to work, study, hold meetings, attend classes and workshops, share interests and hobbies with others, and attend quality performances and programs.

We hold programs on the large library lawn for children and adults. We have courtyards that are ideal for small programs, but cannot accommodate larger audiences such as those that attend outdoor performances and events. The Friends of the Library host an annual concert on the lawn which often requires rental of portable staging. The library would like to expand upon that need to include a permanent, open stage solution. The concept of a performance patio meets that need. The size of the performance patio is comparable to the interior performance space, but the size of the lawn allows for five times the attendance capacity.

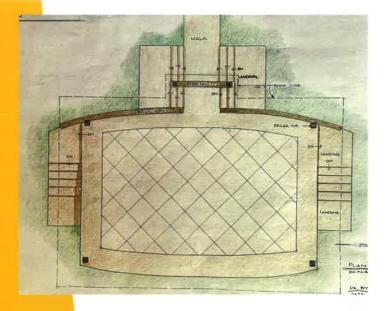
In addition to library use, the performance patio is intended for community use. We would like to coordinate with Roselawn festivals to provide additional or alternate performance space. Our venue could also expand upon festival activities in downtown Cartersville. When not reserved, the patio would be available for people to relax on it, meet with others, use for performance practice.

The performance patio will be available to rent, just as library meeting spaces are. We plan to encourage community theatre groups to use for performances and rehearsals.

We are thankful to partner with our community to bring this vision to fruition.

### Commissioner, Steve Taylor

The Cartersville Public Library excels at creating opportunities for community connection through its successful programming. With the addition of the outdoor performance patio, they can greatly expand their current efforts while supporting our local festivals and celebrating the arts.

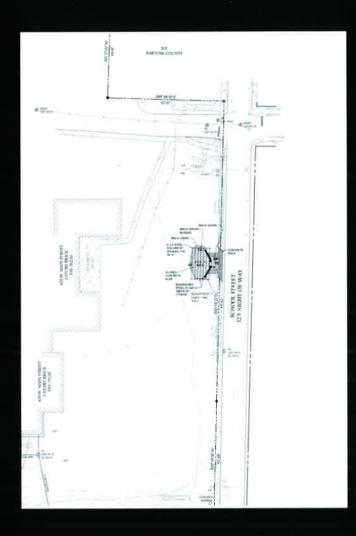


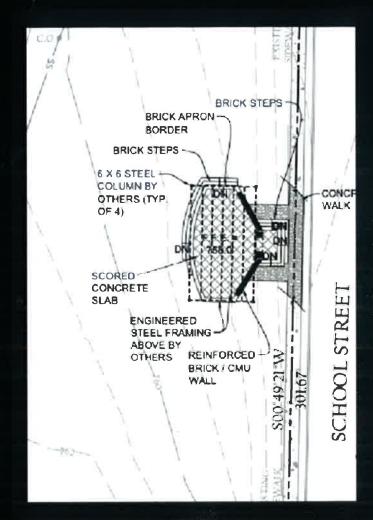




# SPECIAL THANKS TO OUR DONORS

Elisabeth F. Siebert Trust
Art in Bartow
Jim Macht - CADD, Inc
Graham Construction Company
Philip Aplin, Design Planner
Stephenson Engineering, Inc.
Hamilton Audio Visual





# Art in Bartow Board Chair, Barry Henderson

The Patio Performance Stage will expand upon the growth of the current library arts programs which include paintings and sculptures. The Patio will offer our community a place to gather and enjoy the Performing Arts of Music, Dance and Plays. The Arts are vital in bringing our community together now and for the future of our children.

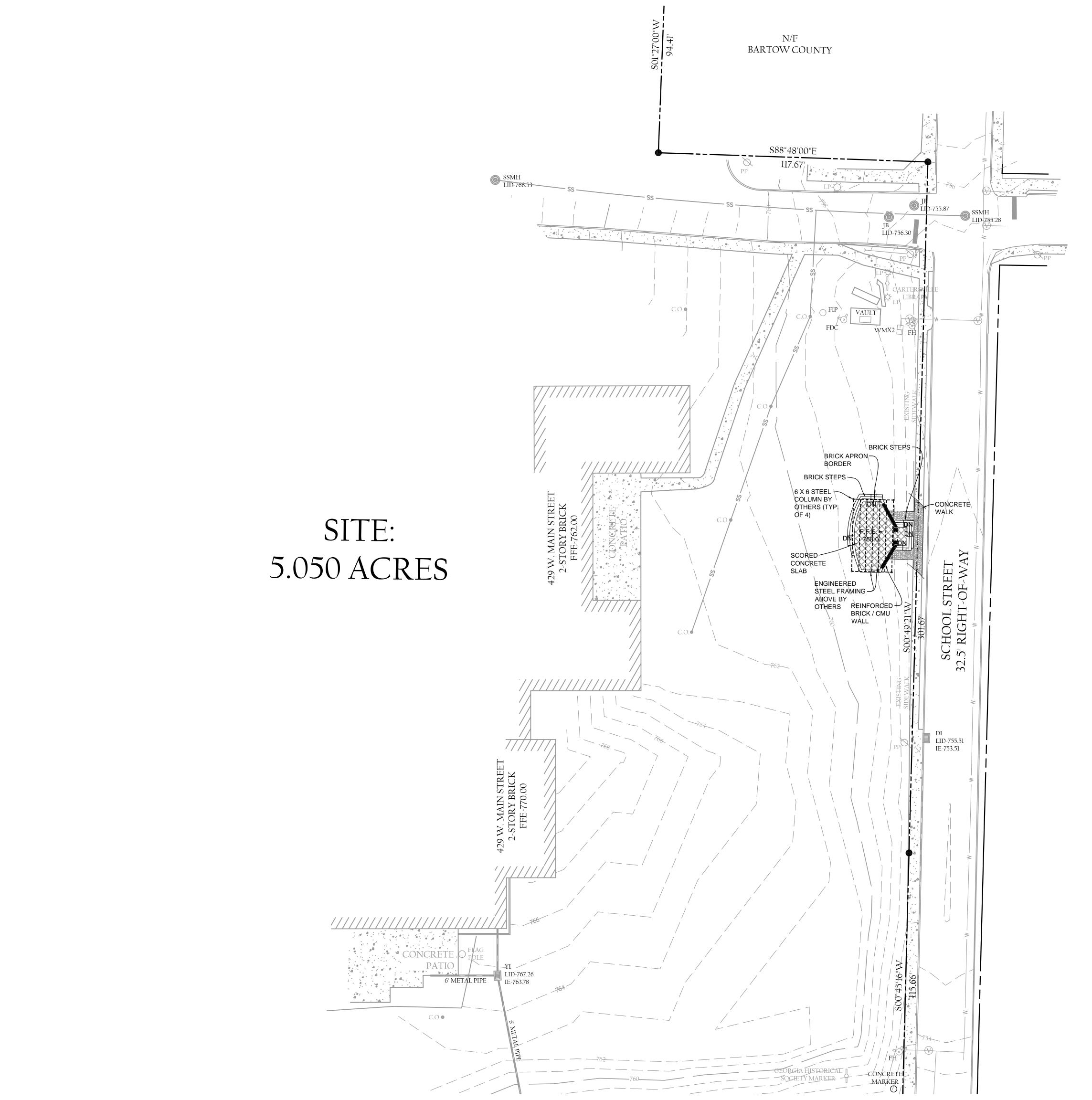
A vibrant presence of the Arts can only be accomplished by the sincere interest and support of our community.

TO THE ARTS!









N/F CITY OF CARTERSVILLE REVISIONS REVISIONS

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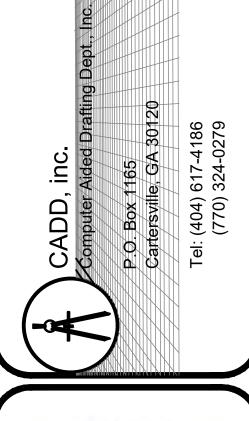
SYMBOL DATE DESCRIPTION SYMBOL DATE

# CITY of CARTERSVILLE LIBRARY OUTDOOR STAGE

429 W MAIN STREET
CARTERSVILLE GEORGIA 30120

RELEASED FOR CONSTRUCTION







CITY of CARTERSVILLE LIBRARY OUTDOOR STAGE

DATE
MAR. 16, 2022

JOB. NO.
22-0212

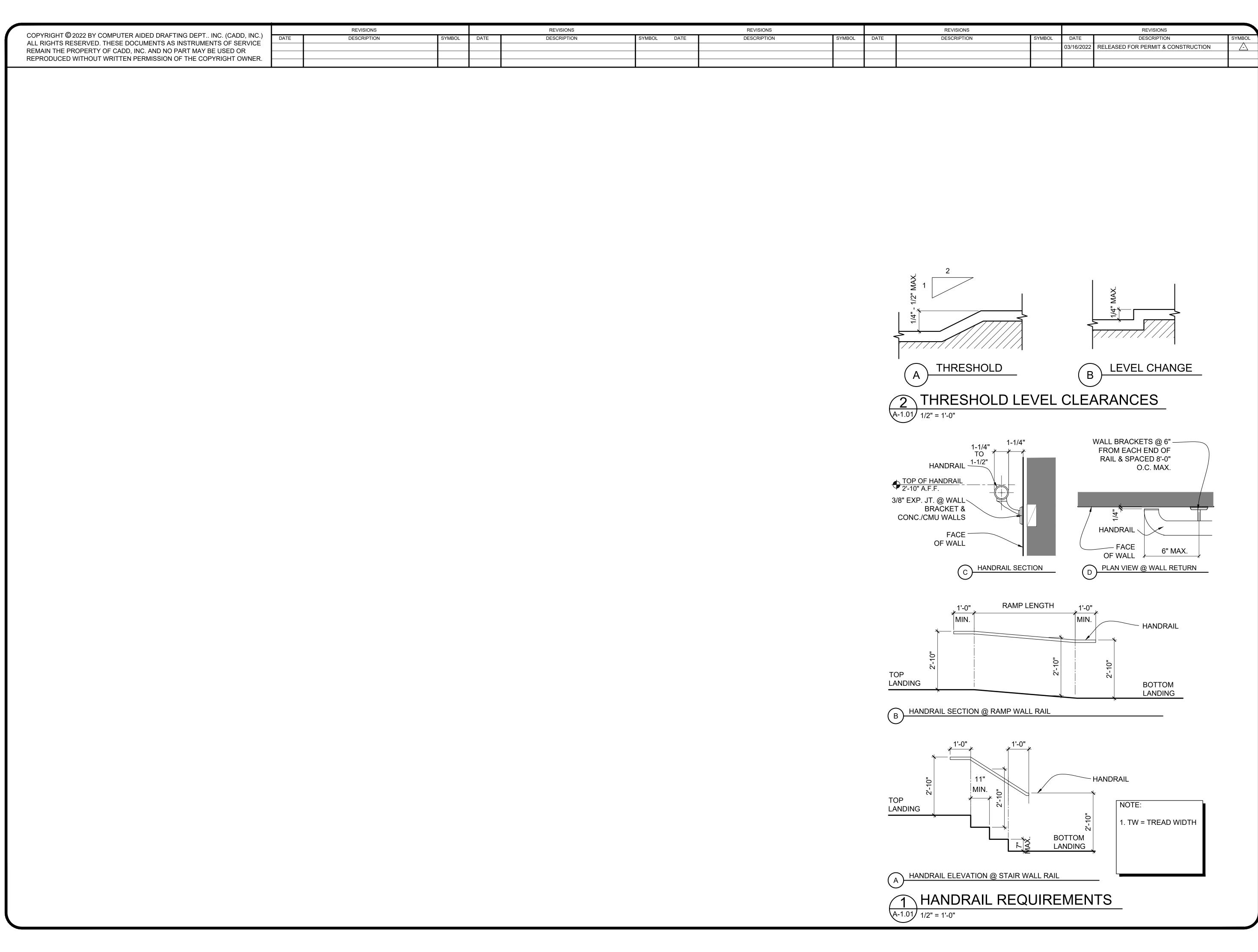
DR CK
WM JM

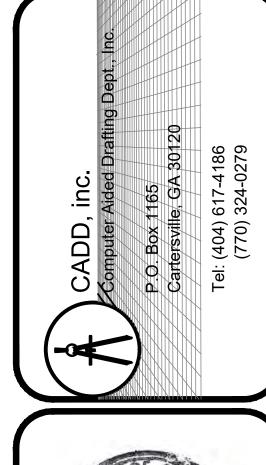
SCALE
AS NOTED

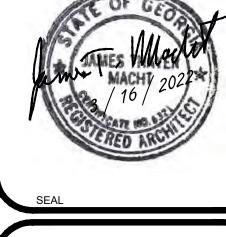
COVER SHEET

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CILY OF CARLERSVILLE
LIBRARY
OUTDOOR STAGE

DATE
MAR. 16, 2022

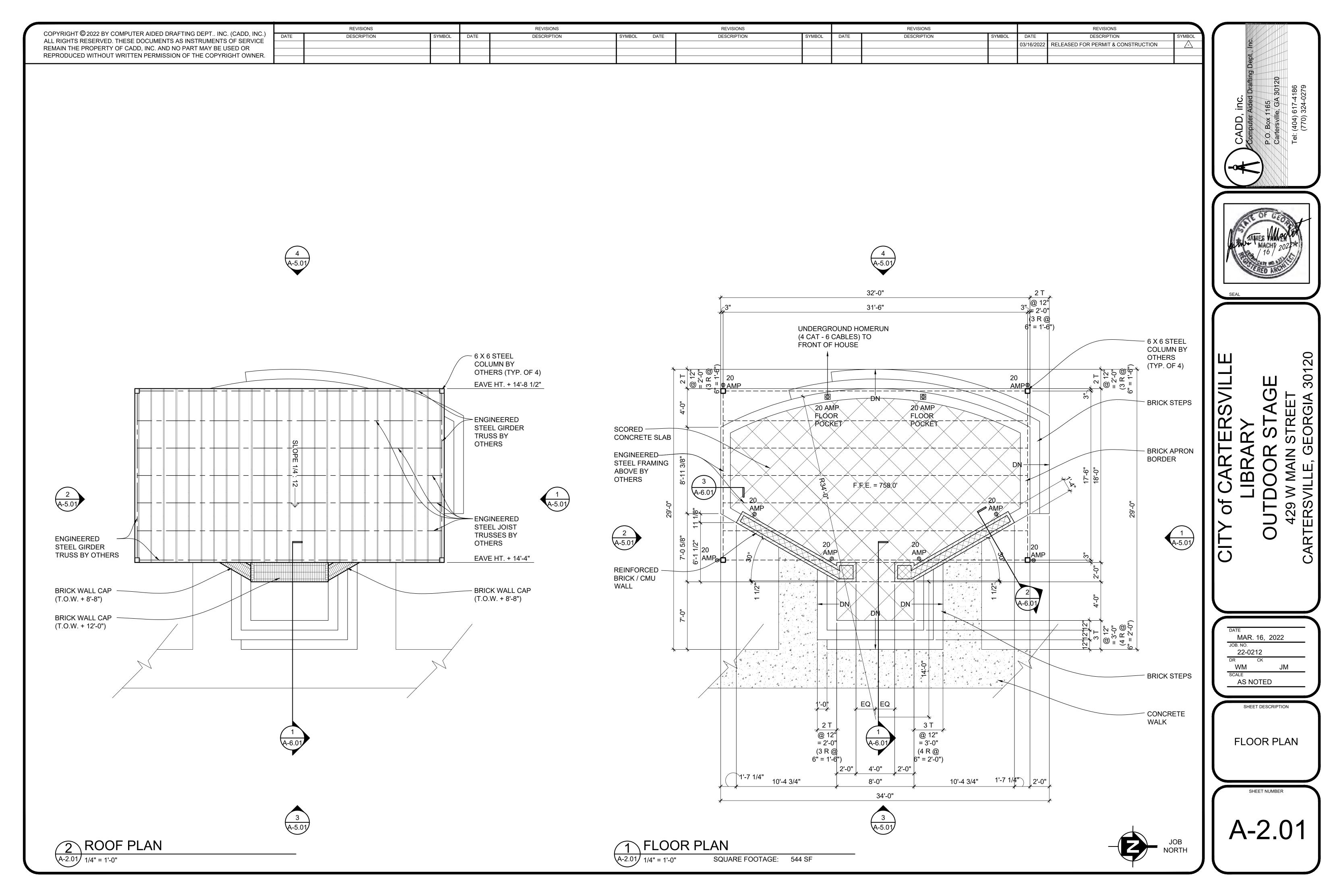
JOB. NO.
22-0212

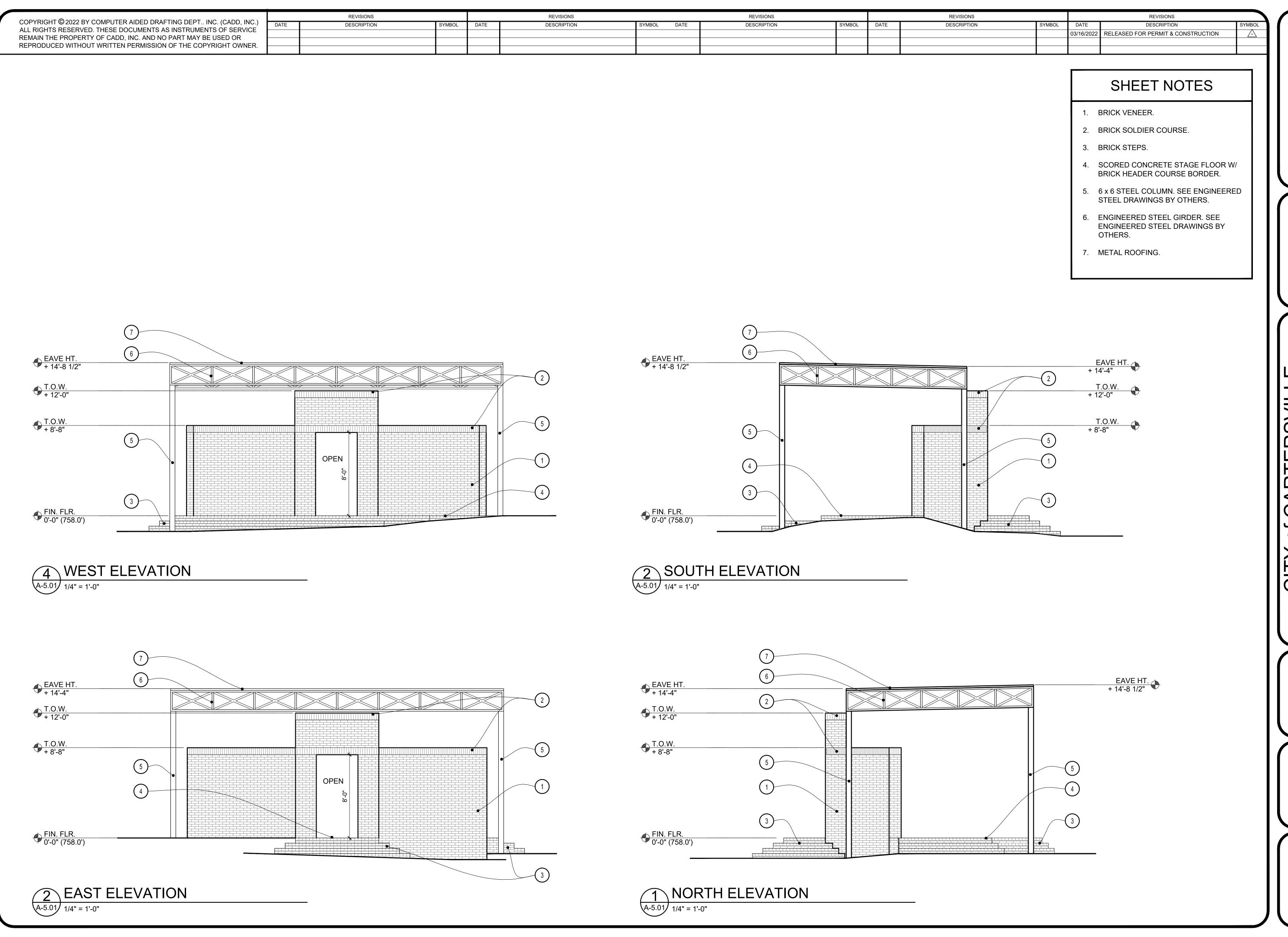
DR CK
WM JM

SCALE
AS NOTED

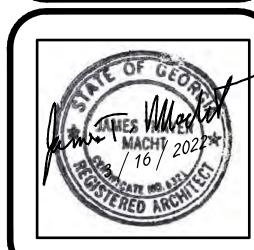
ADA COMPLIANCE
DETAILS & CODE
DIMENSIONS

A-1.01





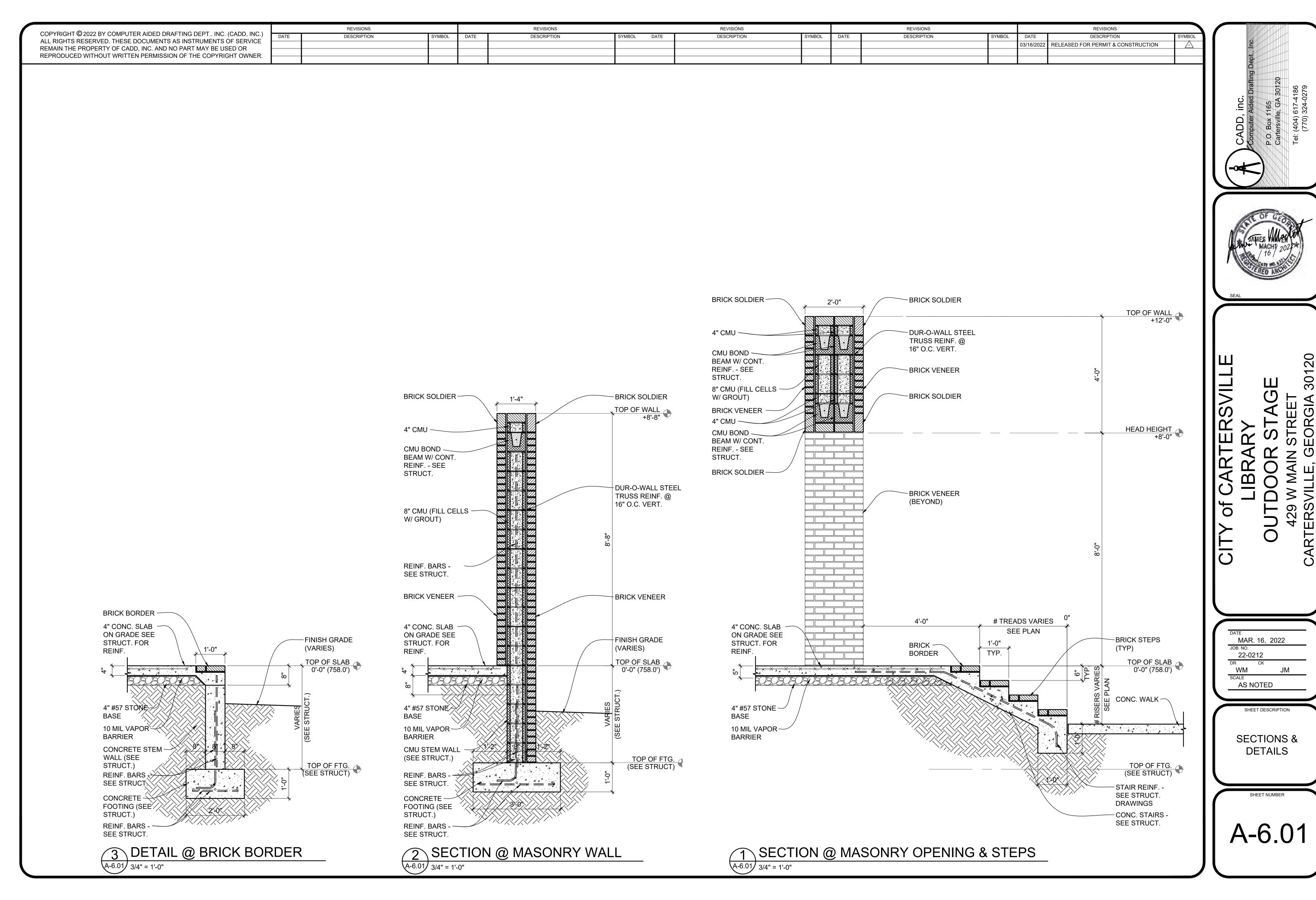




MAR. 16, 2022 JOB. NO. 22-0212 AS NOTED

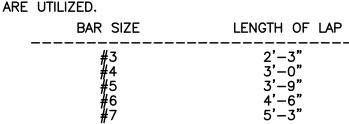
> SHEET DESCRIPTION **EXTERIOR ELEVATIONS**

A-5.01



# **MASONRY NOTES:**

- 1. MASONRY WALL CONTROL JOINTS SHALL BE LOCATED IN THE MASONRY UNIT HEAD JOINT CLOSEST TO LOCATION SHOWN ON PLANS. MAXIMUM SPACING IF NOT SHOWN ON PLANS SHALL BE THE LESSER OF 25'-0" OR 3 TIMES THE WALL HEIGHT.
- 2. PROVIDE 0'-8" OF BEARING (EACH END) FOR LINTELS OVER ALL MASONRY OPENINGS U.N.O.
- 3. REINFORCED MASONRY GROUT (R.M.G.) FOR FILLING CELLS IN C.M.U. WALLS SHALL CONFORM TO: "STANDARD SPECS. FOR MORTAR AND GROUT REINFORCED MASONRY", A.S.T.M. C-476, WITH A SLUMP OF BETWEEN 8" AND 10", AND PLACED NOT MORE THAN 2-1/2 HOURS AFTER WATER HAS FIRST BEEN ADDED (ONE PART CEMENT TO 2-1/2 PARTS FINE AGGREGATE BY VOLUME, DEVELOPING 2500 P.S.I. AT 28 DAYS). PLACE IN 5'-0" LIFTS MAX PER ACI 530.1/ASCE 6/TMS 602
- 4. TYPE "S" MORTAR SHALL BE USED FOR ALL C.M.U. WALLS.
- 5. VERTICAL FILLED CELLS IN CONCRETE MASONRY UNITS (C.M.U.) SHALL BE LOCATED AS SHOWN ON THE FOUNDATION PLAN(S) OR TYPICAL DETAILS. ALL C.M.U. WALLS WHICH CONTAIN FILLED CELLS SHALL BE LAID—UP IN A RUNNING BOND PATTERN. UNLESS SHOWN OTHERWISE ON PLAN OR DETAILS, (1) #4 BAR IN R.M.G. SHALL BE PROVIDED AT ALL CORNERS, WITHIN 16" OF EACH SIDE OF AN OPENING, WITHIN 8" OF EACH SIDE OF A MOVEMENT JOINT, AND WITHIN 8" OF THE END OF A WALL. SEE FOUNDATION SECTIONS (in this set of drawings) FOR FILLED CELL DETAILS.
- 6. FILLED CELLS SHALL BE CONTINUOUS FROM FOOTING TO TOP BOND BEAM COURSE IN ANY GIVEN WALL SEGMENT. AT THE TOP OF BEAM BEARING FILLED CELLS, PROVIDE NON-SHRINK GROUT AND BEARING PLATE AS DETAILED WITH ANCHOR BOLTS OR CAST-IN-PLACE STUD ANCHORS.
- 7. ALL VERTICAL REINFORCEMENT IN FILLED CELLS SHALL BE DOWELED INTO FOOTING AT BOTTOM AND BOND BEAM COURSE AT TOP. THESE DOWELS SHALL BE EQUAL IN SIZE AND QUANTITY AS VERTICAL BAR REINFORCEMENT AND SHALL HAVE A 1'-6" BEND INTO EITHER FOOTING OR BOND BEAM.
- 8. CONTRACTOR SHALL PROVIDE STANDARD GAUGE "DUR-O-WAL" (JOINT REINFORCE-MENT) AT 16" O.C. IN ALL C.M.U. WALLS UNLESS SPECIFICALLY NOTED OTHER-WISE ON THE STRUCTURAL DRAWINGS. "DUR-O-WAL" SHALL BE PROVIDED IN A WIDTH APPROPRIATE FOR THE OVERALL TOTAL THICKNESS OF THE FINISHED WALL. IN MANY CASES, BRICK VENEER WILL BE REQUIRED, BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS OF VARIOUS WALL THICKNESS WITH ALL OF THE CONTRACT DOCUMENTS. IN THE CASE OF NON-COMPOSITE WALLS (1- C.M.U. WYTHE ONLY) PROVIDE "TRUSS-TYPE" HORIZONTAL REINFORCING. IN THE CASE OF COMPOSITE WALLS (C.M.U. + BRICK CASE) PROVIDE DUR-O-WALL WITH EYELETS FOR ADJUSTABLE ANCHORS FOR BRICK AND BLOCK VENEER.
- 9. CONTRACTOR SHALL PROVIDE SMOOTH #2 BAR TIES (AROUND VERTICAL REIN-FORCING) AT 8" O.C. IN BEAM BEARING FILLED CELLS THESE TIES SHALL BE IN MORTAR JOINTS ALTERNATING WITH "DUR-O-WAL". IN THE CASE OF SITU-ATIONS WHERE DOUBLE FILLED CELL DETAILS OCCUR, PROVIDE SMOOTH #2 BAR TIES AT THE SAME LOCATIONS AS PREVIOUSLY OUTLINED, EXCEPT TIES SHALL BE OF AN APPROPRIATE LENGTH TO CAGE ALL VERTICAL REINFORCING FOR ALL FILLED CELLS.
- 10. REINFORCING BARS FOR VERTICAL FILLED CELLS SHALL BE LAPPED AS FOLLOWS UNLESS MECHANICAL CONNECTORS CONFORMING TO ACI 530/ASCE 5/TMS 402 SECTION 2.1.10.7.3



- 11. BARS SHALL BE A.S.T.M. A-615, GRADE 60. STEEL REINFORCEMENT TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 AND THE WELDING SHALL BE IN ACCORDANCE WITH AWS D1.4, STRUCTURAL WELDING CODE REINFORCING STEEL BY THE AMERICAN WELDING SOCIETY.
- 12. BOND BEAMS SHALL BE PROVIDED AT THE TOP OF WALL OPENINGS AND SHALL EX-TEND NOT LESS THAN 24" NOR LESS THAN 40 BAR DIAMETERS PAST THE OPENING. AT LOCATIONS WHERE FULL EXTENSION OF THE REINFORCING CAN NOT BE ACHIEVED, PROVIDE 180 DEG HOOKS AROUND VERTICAL REBAR IN THE LAST FILLED CELL WHERE THE WALL TERMINATES. (BOTH SIDES OF OPENING IF NECESSARY).
- 13. A MINIMUM COMPRESSIVE STRENGTH OF MASONRY (f'm) OF 1500 P.S.I. IS REQUIRED FOR ALL REINFORCED MASONRY CONSTRUCTION. STRENGTH SHALL BE VERIFIED BY THE UNIT STRENGTH METHOD IN ACCORDANCE WITH IBC SECTION 2105.2.2.1.2. UNITS ARE SAMPLED AND TESTED TO VERIFY COMPLIANCE WITH ASTM C 55 OR ASTM C 90. THICKNESS OF THE BED JOINTS DOES NOT EXCEED  $\frac{5}{8}$ ". FOR GROUTED MASONRY, THE GROUT MEETS ONE OF THE FOLLOWING:
  - GROUT CONFORMS TO ARTICLE 2.2 OF TMS 602/ACI 530.1/ASCE 6.
  - MINIMUM GROUT COMPRESSIVE STRENGTH EQUALS OR EXCEEDS f'm BUT NOT LESS THAN 2000 PSI. THE COMPRESSIVE STRENGTH OF GROUT SHALL BE DETERMINED IN ACCORDNACE WITH ASTM C 1019.
- 14. ALL ANCHORS BUILT INTO MASONRY SHALL BE GALVANIZED.
- 15. AT EACH SIDE OF MASONRY OPENINGS IN C.M.U. WALLS, PROVIDE FILLED CELLS PER PLANS, DETAILS, AND SECTIONS. PROVIDE DOWEL INTO FOOTING BELOW.
- 16. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1, CURRENT EDITION. PROVIDE MASONRY INSPECTIONS PER ACI 530. CAVITIES SHALL BE KEPT FREE OF MORTAR.

LOOSE ANGLE L	INTEL SCHEDULE
SPAN	ANGLE LINTEL
0' TO 4'	L 5 X 3 1/2" X 1/4" (L.L.V.)
4' TO 6'	L 5 X 3 1/2" X 5/16" (L.L.V.)
6' TO 8'	L 6 X 3 1/2" X 3/8" (L.L.V.)

NOTES:

1. 6" MIN. BEARING FOR ALL ANGLES, TYP.

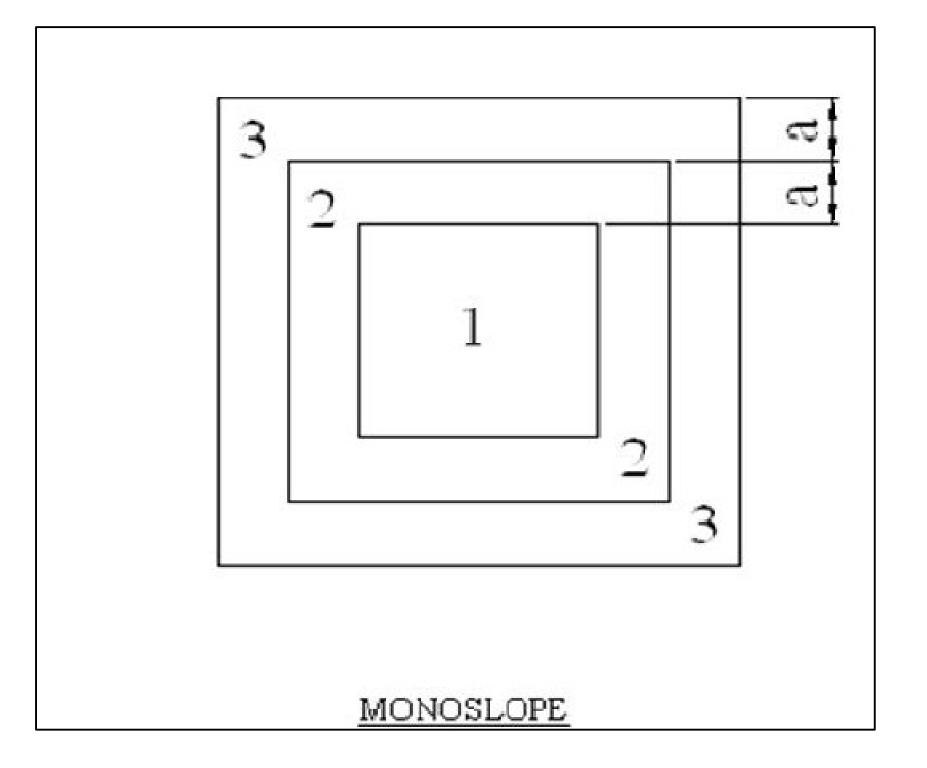
2. ALL LOOSE ANGLE LINTELS SHALL BE GALVANIZED

# ULTIMATE ROOF COMPONENT AND CLADDING PRESSURES PER ASCE 7-16

# Components & Cladding - roof pressures

Kz = Kh (case 1) = 0.88 a = 3.0 ft  $a^2 = 9.0 \text{ sf}$ Base pressure (qh) = 21.6 psf G = 0.85  $4a^2 = 36.0 \text{ sf}$ 

1		Clear Wind Flow						
	Effective Wind Area	zone 3		zone 2		zone 1		
		positive	negative	positive	negative	positive	negative	
	≤ 9 sf	2.53	-3.44	1.90	-1.76	1.26	-1.15	
C <sub>N</sub>	>9, ≤ 36 sf	1.90	-1.76	1.90	-1.76	1.26	-1.15	
	> 36 sf	1.26	-1.15	1.26	-1.15	1.26	-1.15	
Wind	≤ 9 sf	46.3 psf	-63.1 psf	34.7 psf	-32.3 psf	23.2 psf	-21.0 ps1	
Wind pressure	>9, ≤ 36 sf	34.7 psf	-32.3 psf	34.7 psf	-32.3 psf	23.2 psf	-21.0 ps1	
	> 36 sf	23.2 psf	-21.0 psf	23.2 psf	-21.0 psf	23.2 psf	-21.0 ps1	



ROOF WIND ZONES

MICHAEL

JON MJM

MCCAULEY, P.E.

STRUCTURAL ENGINEERING

114 OLD MILL ROAD
CARTERSVILLE, GA 30120
(678) 373-6691 OFFICE
(404) 592-6179 FAX
COA#: PEFOO7101

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Revisio	ons				
No.	<u>Date</u>	<u>Description</u>	_		

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03/16/22

Sheet Title

COMPONENT
& CLADDING
PRESSURES

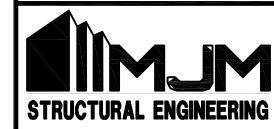
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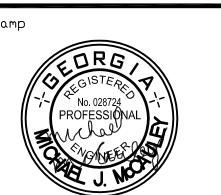
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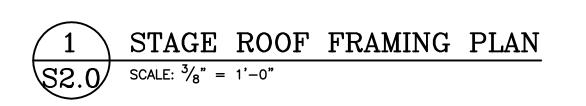




Revisions No. Date Description

Sheet Title

STAGE FOUNDATION PLAN



# NOTES:

1. SEE ARCHITECT FOR TOP OF STEEL (18'-0" MAXIMUM ABOVE FINISH GRADE)

2. FOUNDATIONS HAVE BEEN DESIGNED FOR A RIGID FRAME WITH A FIXED BASE.

3. GIRDER TRUSS TO COLUMN CONNECTIONS ARE TO BE RIGID MOMENT CONNECTIONS.

4. ALLOWABLE 10 YEAR WIND DRIFT = H / 400

MICHAEL

JON MJM

MCCAULEY, P.E.

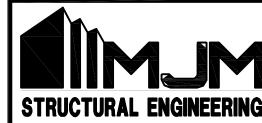
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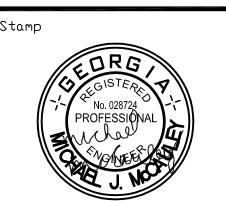
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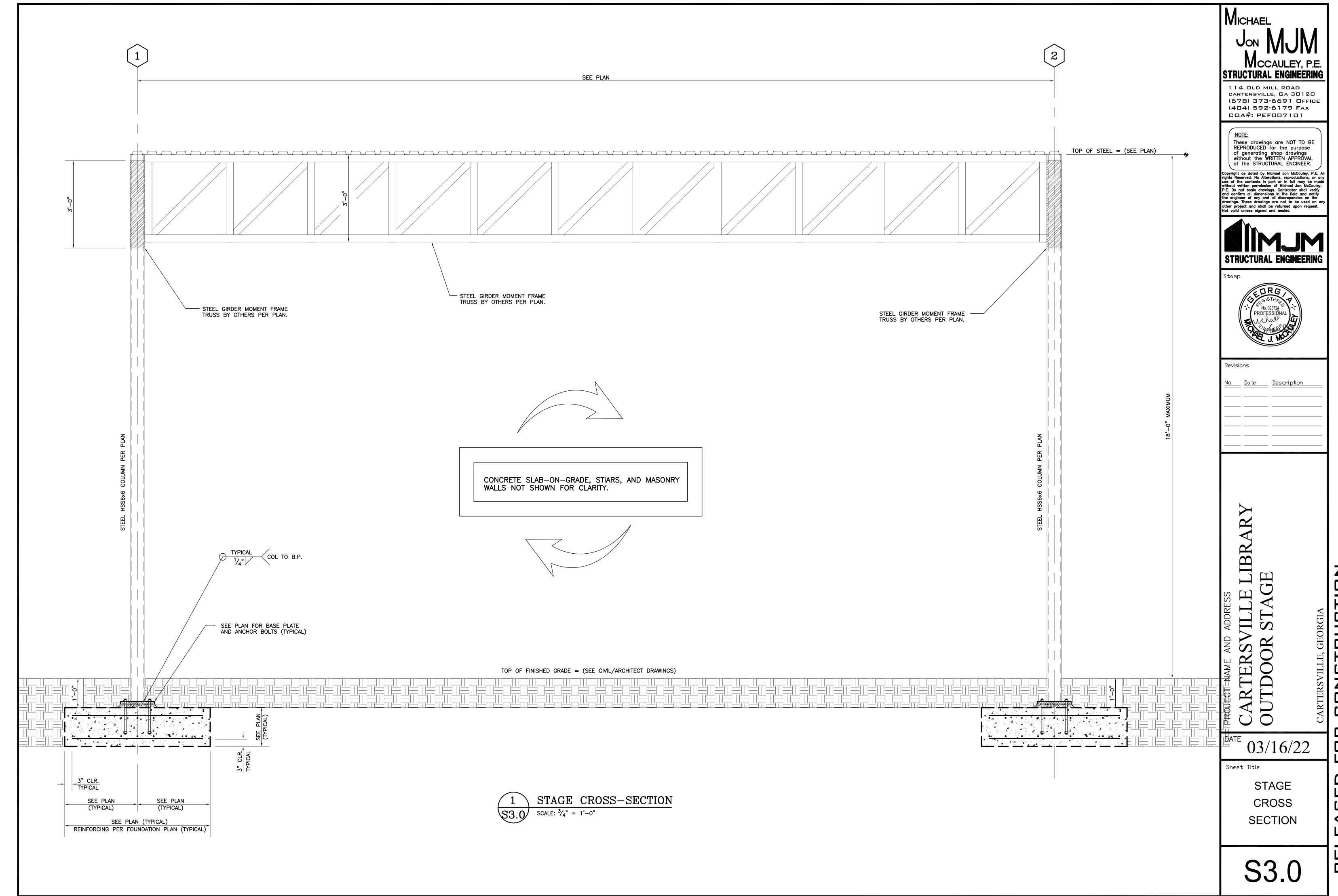
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Sheet Title

STAGE ROOF PLAN

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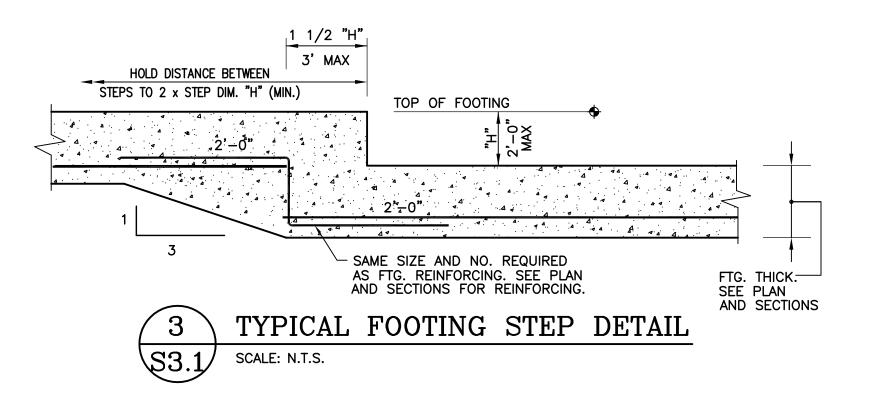
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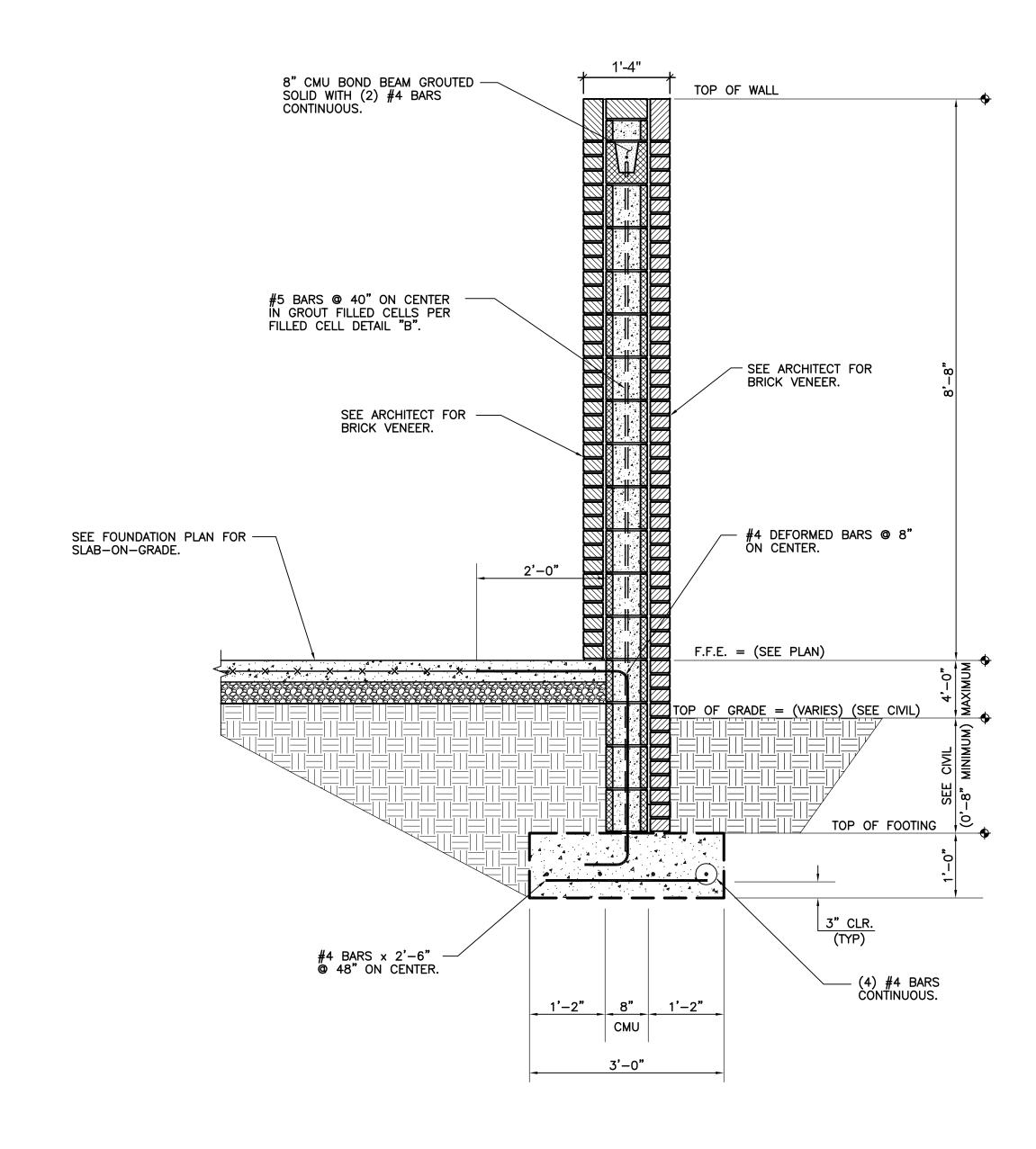


03/16/22

C:\MJM Engineering\Engineering Projects\2022\2022-017 Cartersville Library Outdoor Stage\2022-017\2022-017 S3.# SECTIONS.dwg

SECTION AT FOUNDATION WALL
S3.1 SCALE: NOT TO SCALE





2 SECTION AT MASONRY WALL
S3.1 SCALE: NOT TO SCALE

MICHAEL

JON MJM

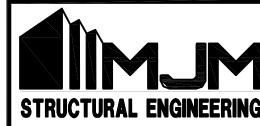
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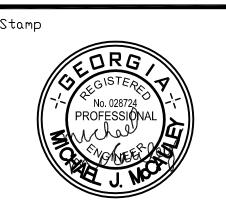
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CARTERSVILLE, GA 30120
(678) 373-6691 OFFICE
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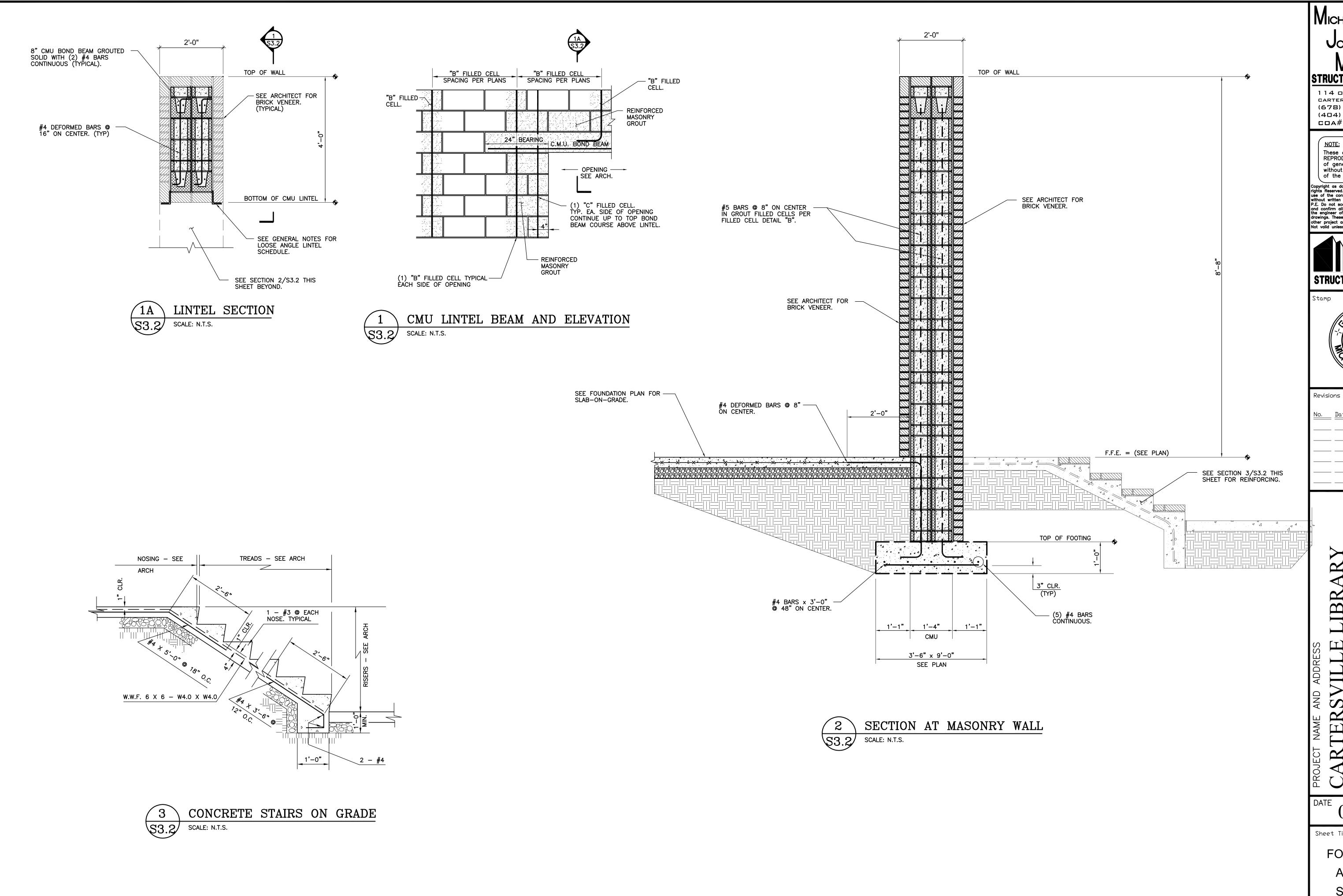
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FOUNDATION AND WALL SECTIONS

S3.1



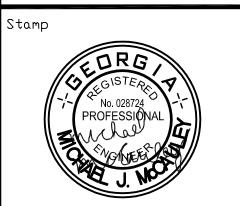
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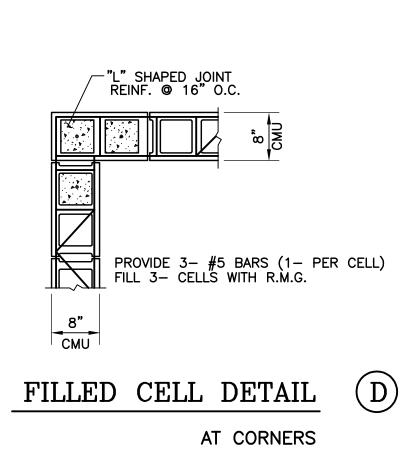


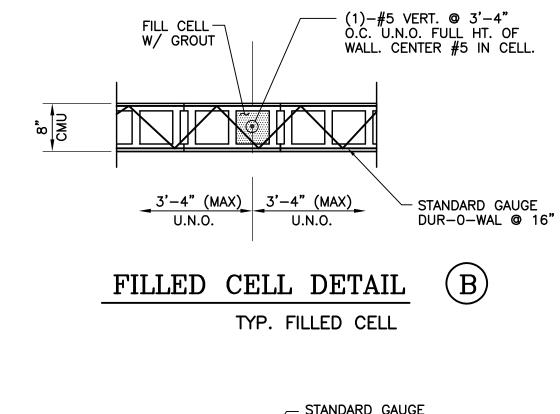
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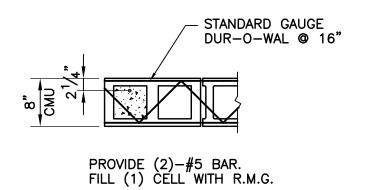
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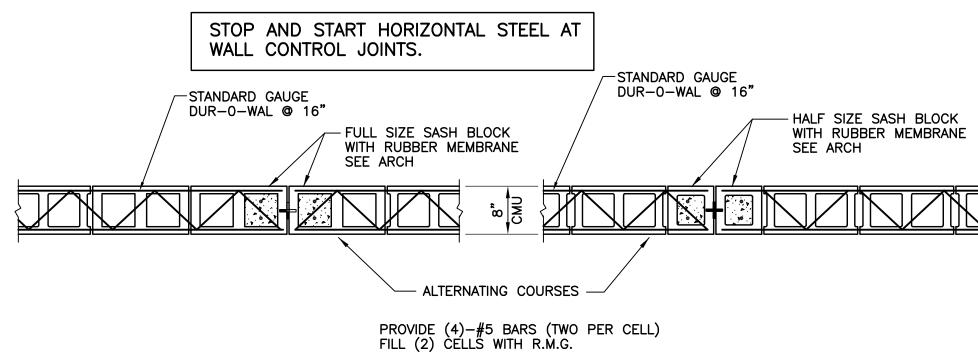
**FOUNDATION** AND WALL SECTIONS







FILLED CELL DETAIL AT BEAM BEARING



CONTROL JOINT SPACING SHALL NOT EXCEED THE LESSER OF 25'-0" OR 3 TIMES THE WALL HEIGHT U.N.O.

JOINTS SHALL NOT BE LOCATED WITHIN 3'-4" MINIMUM OF ANY OPENING SO AS TO ALLOW FOR LINTEL BEARING AT JAMB WITHOUT INTRODUCING A DISCONTINUITY.

FILLED CELL DETAIL (H) AT WALL CONTROL JOINT

# NOTE TO CONTRACTOR:

INCREASE HORIZONTAL REINFORCING WIDTH FOR BRICK VENEER CLADDING NOT SHOWN FOR CLARITY. SEE MASONRY GENERAL NOTES FOR ADDITIONAL SPECIFICATIONS.

TYPICAL

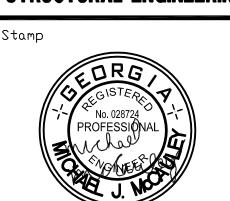
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**MASONRY** WALL **SECTIONS**