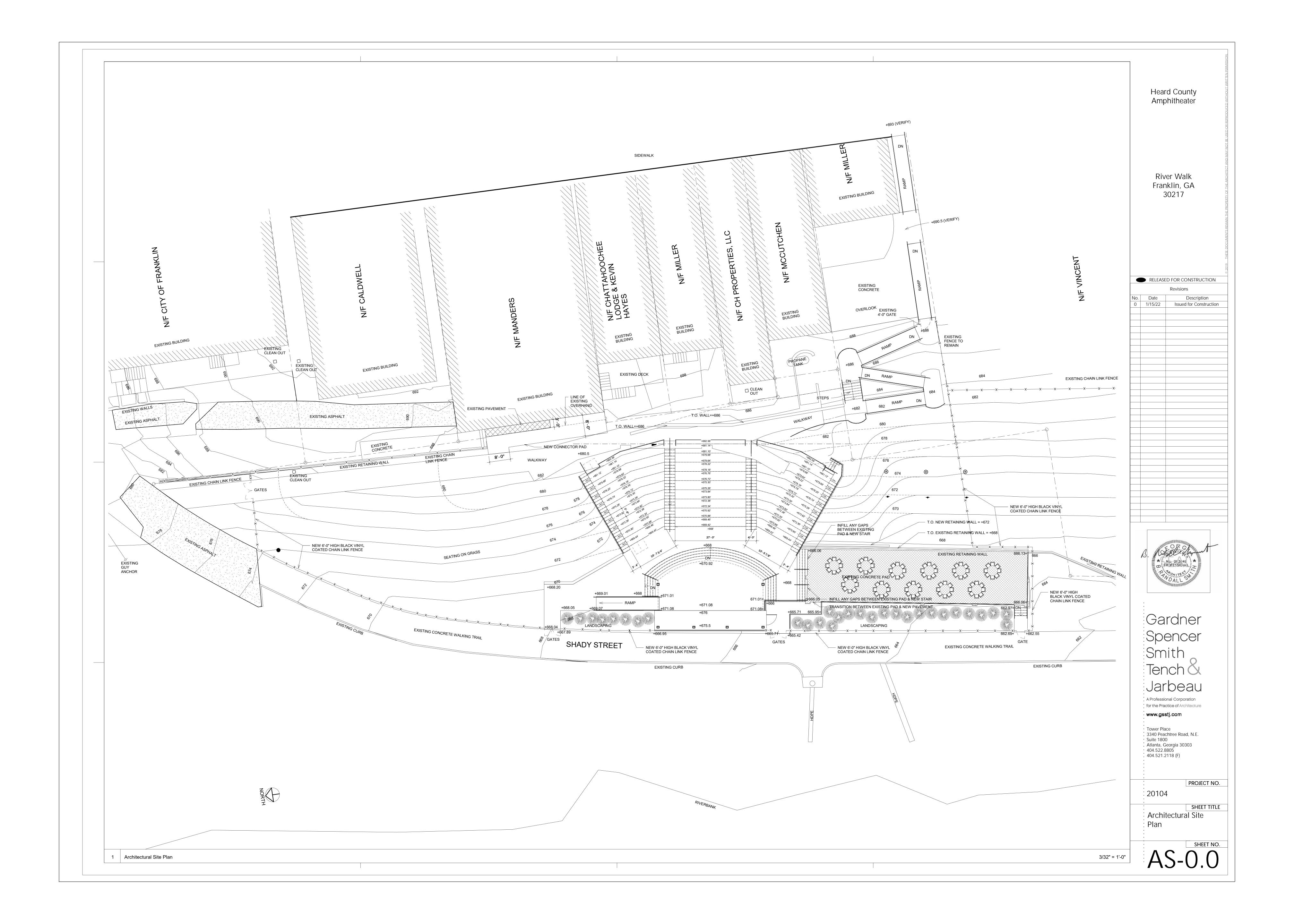
# Heard County Amphitheater

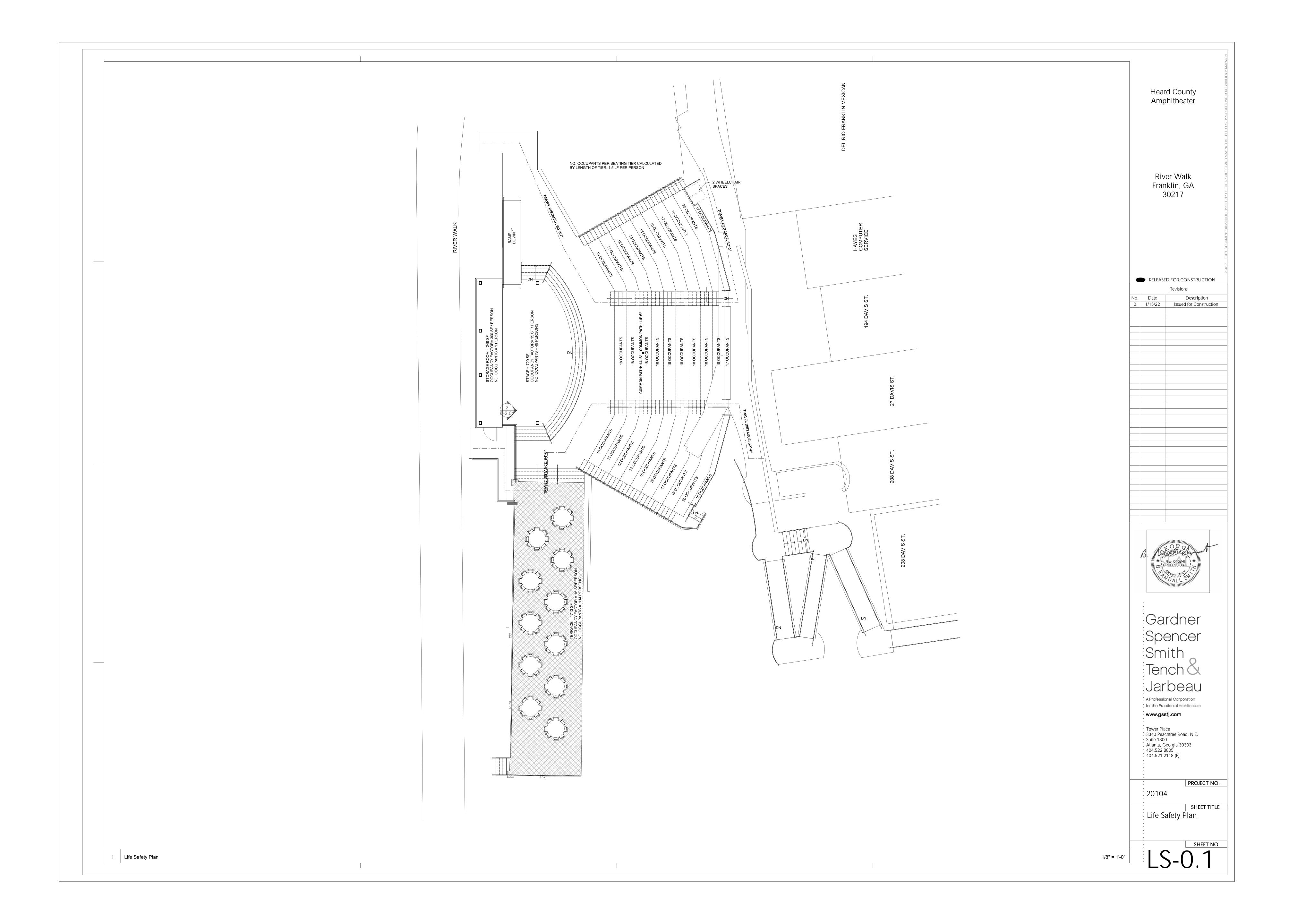
## River Walk Franklin, Georgia 30217

ORIGINAL REV REV REV ISSUE 3 4 5 ORIGINAL REV REV REV GENERAL NOTES INDEX OF DRAWINGS INDEX OF DRAWINGS PROJECT TEAM ISSUE 1 2 3 SHEET DESCRIPTION SHEET NO. SHEET DESCRIPTION RELEASED FOR CONSTRUCTION DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. SUBMIT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION PRIOR TO EXECUTION OF THE WORK IN QUESTION. TITLE SHEET ALL DIMENSIONS ARE TO FACE OF FINISH MATERIAL OR CENTERLINE OF FIXTURE UNLESS CLEARLY SHOWN OR NOTED OTHERWISE ARCHITECTURAL SITE PLAN 01/15/22 THE DEVELOPMENT AUTHORITY OF HEARD COUNTY Description 121 SOUTH COURT SQUARE LIFE SAFETY PLAN 01/15/22 THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN IN THE DOCUMENTS ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE FRANKLIN, GEORGIA 30217 Issued for Construction CONTACT: KATHY KNOWLES IMMEDIATELY NOTIFY ARCHITECT IN WRITING IF ANY OMISSION, DISCREPANCY, AMBIGUITY OR ERROR IN THE CONTRACT DOCUMENTS BE DISCOVERED OR IF ANY DOUBT AS TO THE MEANING OR TELEPHONE: 706-675-0554 INTENT THEREOF SHOULD ARISE. CLARIFICATION WILL BE MADE BY REVISION TO THE CONTRACT DOCUMENTS FAX: 706-675-9400 CIVIL COVER SHEET EMAIL: kk@heardgeorgia.org DEMOLITION PLAN 12/9/21 IMMEDIATELY NOTIFY ARCHITECT IN WRITING IF ANY OMISSION, DISCREPANCY, AMBIGUITY, OR ERROR IN THE CONTRACT DOCUMENTS BE DISCOVERED OR IF ANY DOUBT AS TO THE MEANING OR SITE / UTILITY PLAN 12/9/21 INTENT THEREOF SHOULD ARISE. CLARIFICATION WILL BE MADE BY REVISION TO THE CONTRACT DOCUMENTS. GARDNER, SPENCER, SMITH, TENCH & JARBEAU, P.C. 12/9/21 GRADING / DRAINAGE PLAN TOWER PLACE 12/9/21 PIPE PROFILES / DETAILS 3340 PEACHTREE ROAD, N.E. 12/9/21 EROSION & SEDIMENT CONTROL PLAN (INITIAL) SUITF 1800 EROSION & SEDIMENT CONTROL PLAN (INTERMEDIATE/FINAL) 12/9/21 ATLANTA, GEORGIA 30326 12/9/21 **EROSION CONTROL DETAILS** CONTACT: RANDY SMITH 12/9/21 NPDES PERMIT REQUIREMENTS / DRAINAGE BASIN MAP TELEPHONE: (770) 315-1229 EMAIL: rsmith@gsstj.com CIVIL ENGINEER CAPSTONE ENGINEERING, INC. STAGE LEVEL FLOOR & DIMENSION PLAN 45 LITTLE ROAD A-1.11 TERRACE LEVEL FLOOR PLAN 01/15/22 SHARPSBURG, GEORGIA 30277 01/15/22 RCP AND ROOF PLANS **BUILDING SECTIONS** 01/15/22 CONTACT: NEAL SPRADLIN, P.E. TELEPHONE: 770-502-9748 **BUILDING SECTIONS** 01/15/22 EMAIL: neal@ceiplans.com **BUILDING SECTIONS** 01/15/22 **BUILDING SECTIONS** 01/15/22 **EXTEROR ELEVATIONS** 01/15/22 STRUCTURAL ENGINEER ENLARGED STAGE SECTION 01/15/22 GOODMAN. GIANNAVOLA, HINES ENGINEERS DETAILS 01/15/22 31 14TH STREET, SUITE 2 ATLANTA, GEORGIA 30318 CONTACT: MICHAEL GIANNAVOLA, P.E., LEED AP TELEPHONE: 678-938-5467 EMAIL: mike@gghengineers.com STRUCTURAL **GENERAL NOTES ELECTRICAL ENGINEER** SPECIAL INSPECTIONS 11/08/21 MATHIS CONSULTING ENGINEERS, LLC SLAB & FOUNDATION PLAN & DETAILS 244 O'DELL ROAD, SUITE 6 11/08/21 SYMBOLS LEGEND PROJ. NOTES / APP. CODES GRIFFIN, GEORGIA 30224 11/08/21 FOUNDATION SECTIONS & DETAILS SECTIONS & DETAILS 11/08/21 ENGINEER OF RECORD: J. KEITH MATHIS, P.E. CONTACT: J. KEITH MATHIS, P.E. INTERNATIONAL BUILDING CODE (IBC): 2018 EDITION, WITH GEORGIA AMENDMENTS (2020) EXTERIOR TELEPHONE: 770-584-6193 NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION, WITH GEORGIA AMENDMENTS (2021) ELEVATION SYMBOL E-MAIL: keith@mathisengineers.com GEORGIA ACCESSIBILITY CODE - GAC 120-3-20 - 2015 EDITION NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE (LSC): 2018 EDITION LEGEND, GENERAL NOTES, LIGHTING FIXTURE SCHEDULE, PANELBOARD 02/01/22 U.S. DEPT. OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN (ADA): 2010 EDITION CHAPTER 120-3-3 RULES AND REGULATIONS FOR THE STATE MIN. FIRE STANDARDS IN GA SCHEDULES, RISER DIAGRAM ALIGN SYMBOL FLOOR PLAN - POWER A EXTERIOR WINDOW TYPE SITE PLAN - LIGHTING 02/01/22 ENLARGED PLAN / DETAIL SYMBOL FLOOR PLAN - LIGHTING 02/01/22 EQUIPMENT AND TOILET ACCESSORY ELEVATION HEIGHT REVISIONS SYMBOL SYMBOL 100 ROOM NUMBER INTERIOR WINDOW TYPE B A-1 D INTERIOR ELEVATION SYMBOL VICINITY MAP PROJECT INFORMATION Franklin Police **EXISTING BUILDING:** Department OCCUPANCY CLASSIFICATION OCCUPANCY GROUP: ASSEMBLY A-5, PER IBC 2018 ASSEMBLY, PER NFPA 101 2018 OCCUPANCY LOAD: 646 PERSONS CONSTRUCTION CLASSIFICATION SITE -TYPE OF CONSTRUCTION TYPE II-B PER 2018 IBC, TYPE II(000) PER 2018 NFPA 101 A Professional Corporation SPRINKLERED (YES OR NO) for the Practice of Architecture www.gsstj.com **BUILDING AREA** Terry Harper - State EXTERIOR AREA W/O CANOPY 7,387 S.F. Farm Insurance Agent Tower Place EXTERIOR CANOPY AREA 1,025 S.F. 3340 Peachtree Road, N.E. Cuttin Crew TOTAL AREA (SQ.FT.) Suite 1800 8,412 S.F. Atlanta, Georgia 30303 nklin Chattahoochie 404.522.8805 Marathon Gas 404.521.2118 (F) NUMBER OF STORIES: BUILDING HEIGHT (FT.): SCOPE OF BUILDING PERMIT - [X] APPLICABLE BOX PROJECT NO. : Title Sheet

Heard County Amphitheater

River Walk Franklin, GA 30217





## HEARD COUNTY AMPHITHEATER

CONSTRUCTION PLANS

LAND LOT 382 - DISTRICT 3

 $TOTAL\ AREA = 0.50\ AC.$ 

TAX PARCEL # 0039 A 0016

TOTAL DISTURBED AREA = 0.50 AC.

#### **FLOODPLAIN NOTE:**

THIS SITE DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE. PER FEMA MAP # 13149C0163B (EFF. MAY 19, 2017).

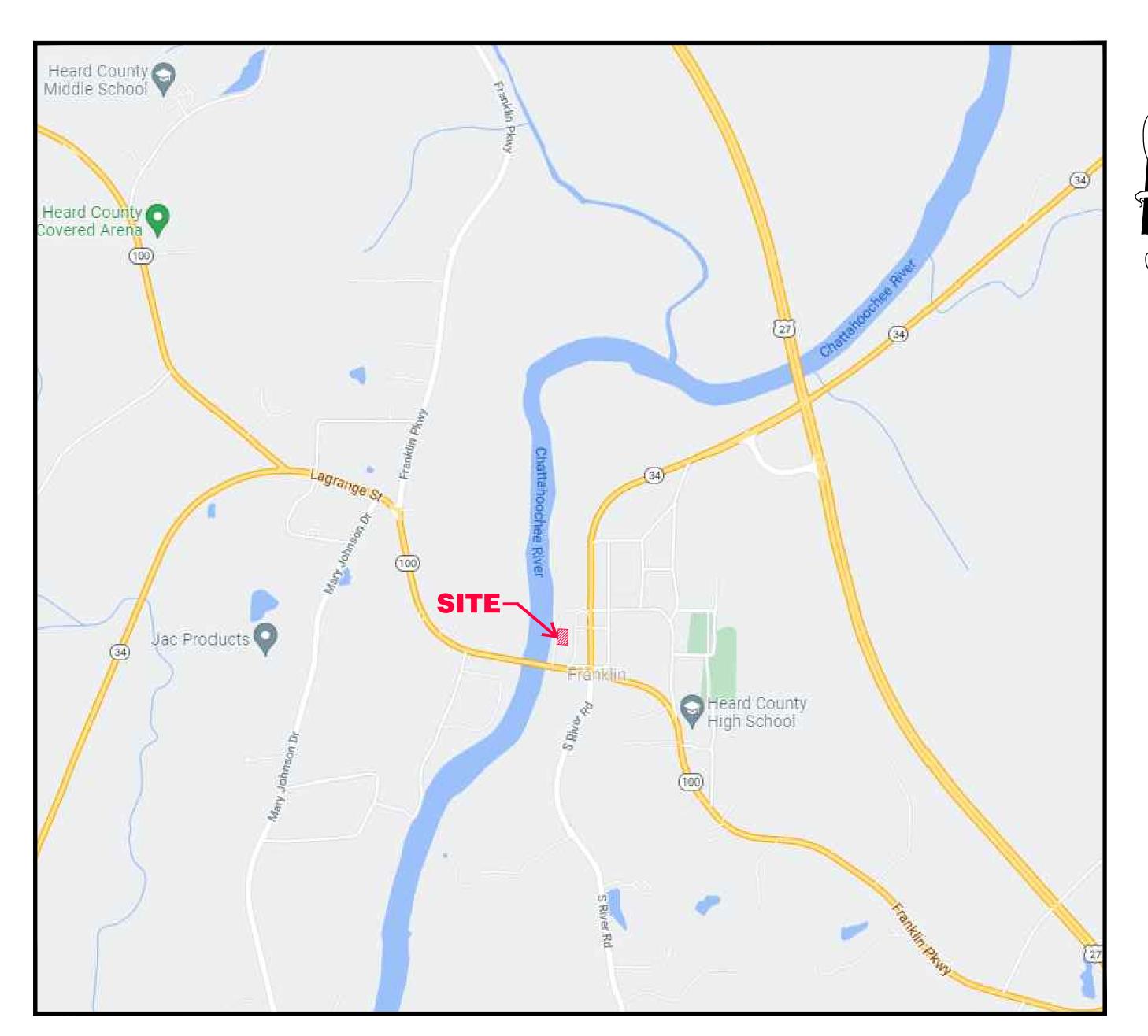
#### **WETLANDS NOTE:**

THIS SITE DOES NOT INCLUDE ANY AREAS OF WETLANDS OR JURISDICTIONAL WATERS AS DEFINED AND REGULATED BY THE U.S. ARMY CORPS OF ENGINEERS.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

ANY DISTURBED AREAS LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STALBILIZED WITH MULCH OR TEMPORARY SEEDING.



## **LOCATION MAP**

**GPS LOCATION OF CONSTRUCTION EXIT:** 

N 33.279322 DEG. W 85.099787 DEG.

## **SHEET INDEX**

- COVER SHEET
- DEMOLITION PLAN SITE/UTILITY PLAN
- GRADING/DRAINAGE PLAN
- PIPE PROFILES/MISCELLANEOUS DETAILS
- EROSION & SEDIMENT CONTROL PLAN (INITIAL)
- EROSION & SEDIMENT CONTROL PLAN (INTERMEDIATE/FINAL)
- EROSION CONTROL DETAILS

EROSION CONTROL PLANS PREPARED BY:



Know what's **below. Call** before you dig.

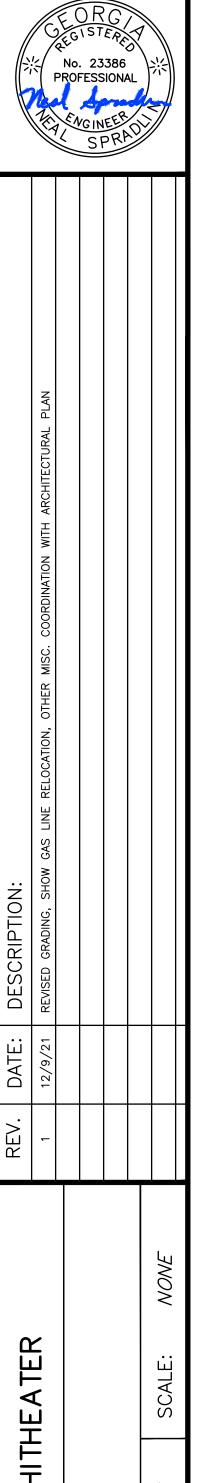
OWNER/DEVELOPER/PRIMARY PERMITTEE:

The Development Authority of Heard County

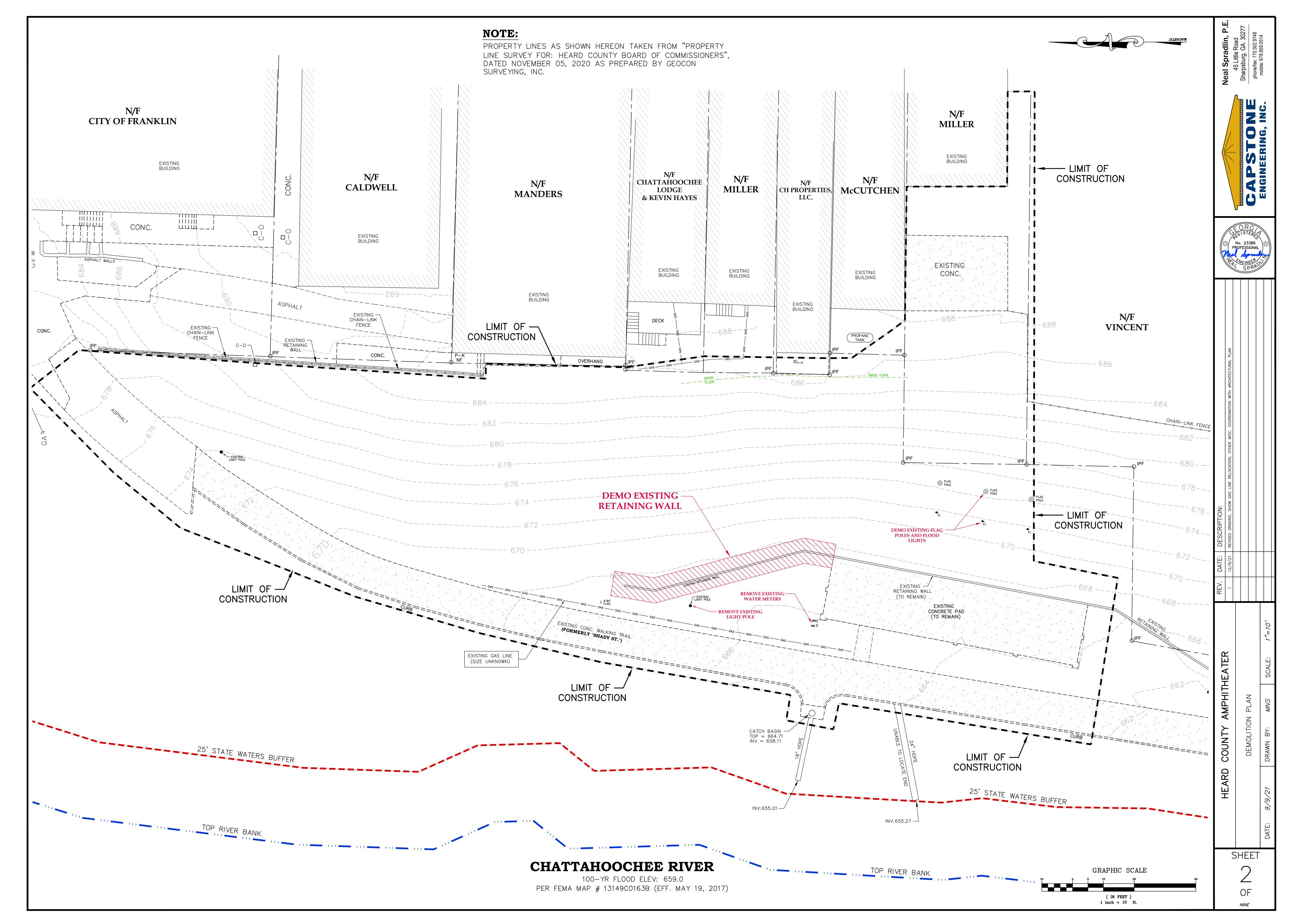
121 South Court Square Franklin, GA 30217

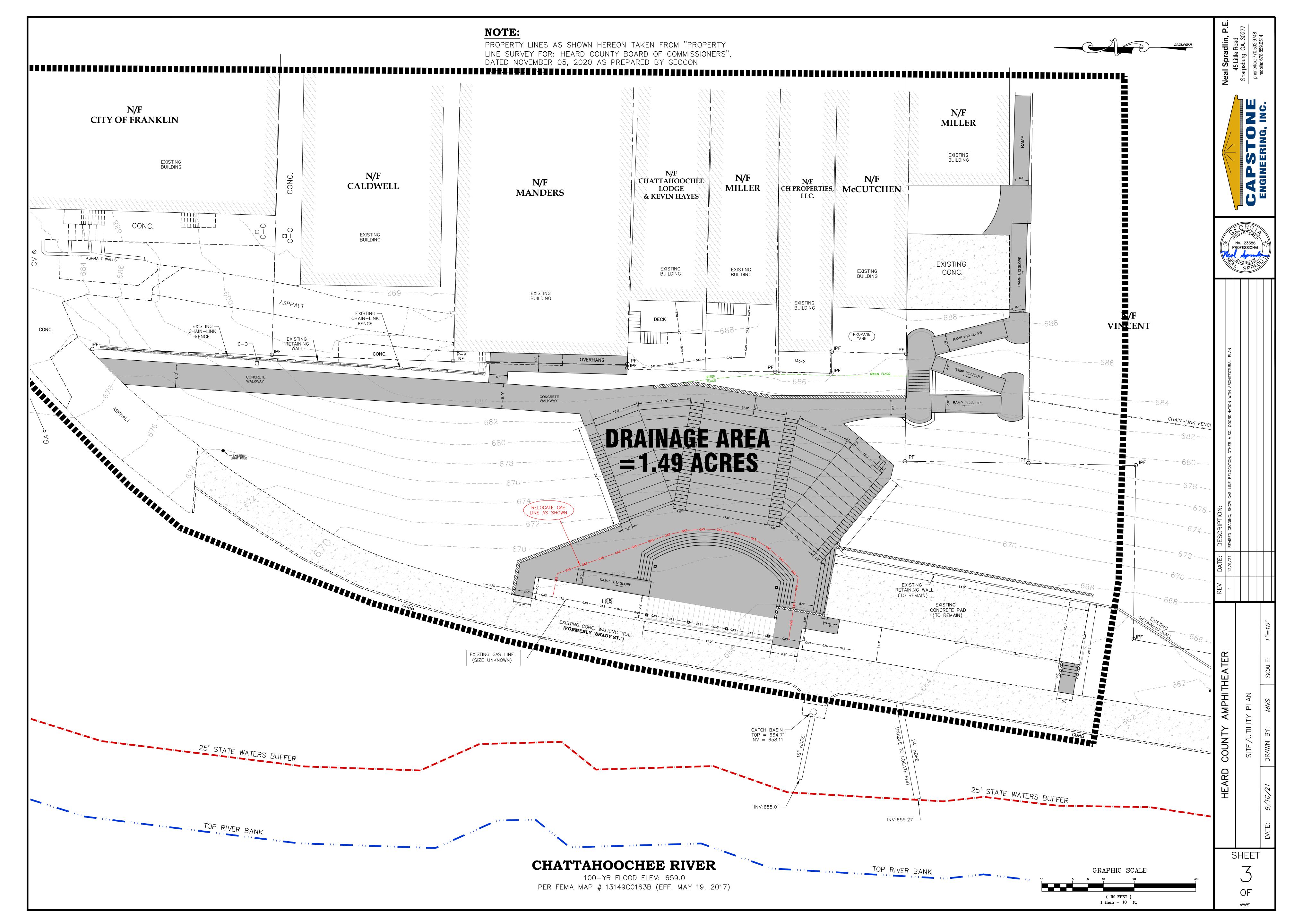
> 24-hr Contact Person: Kathy Knowles (706) 675-0554 kk@heardgeorgia.org

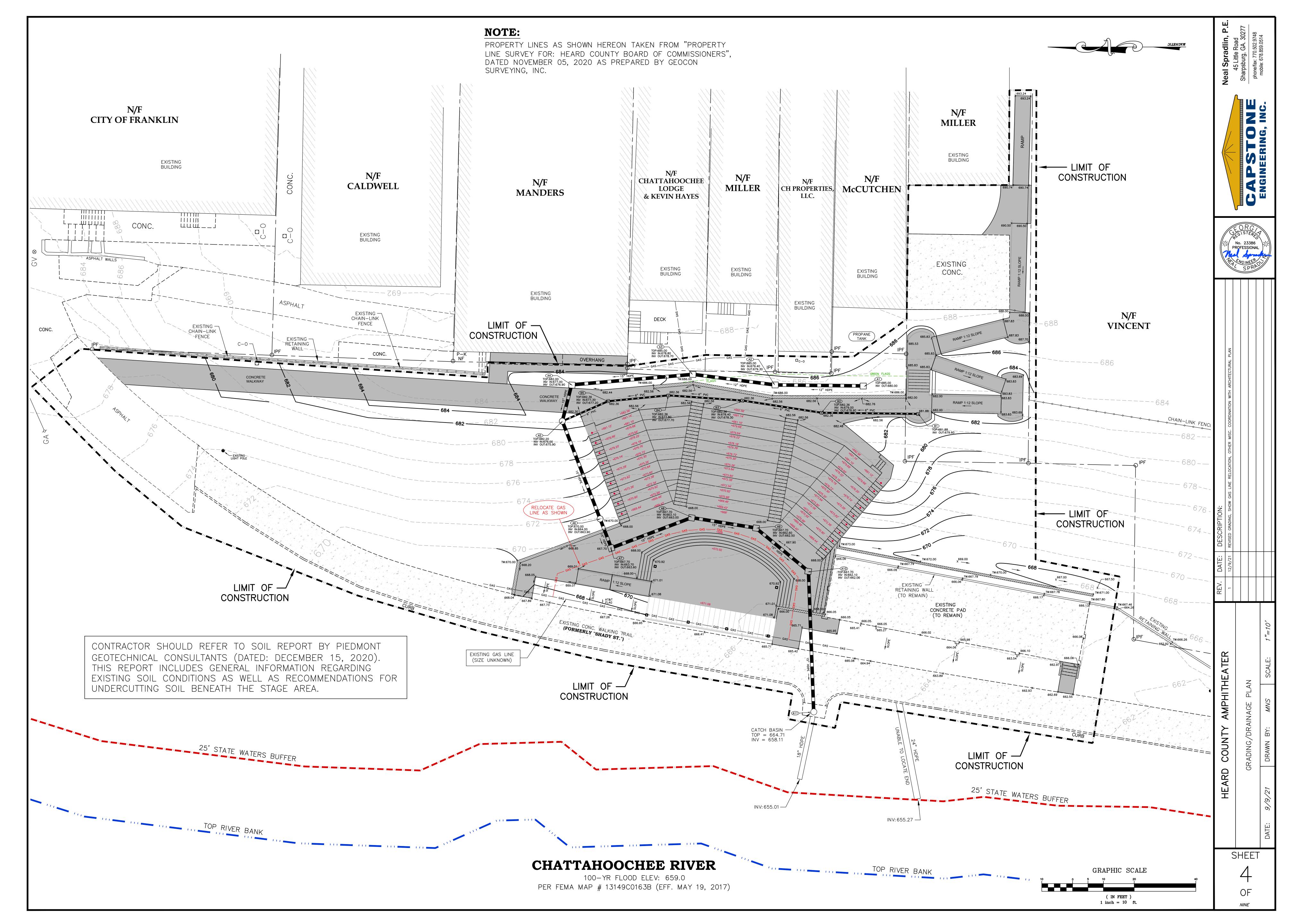


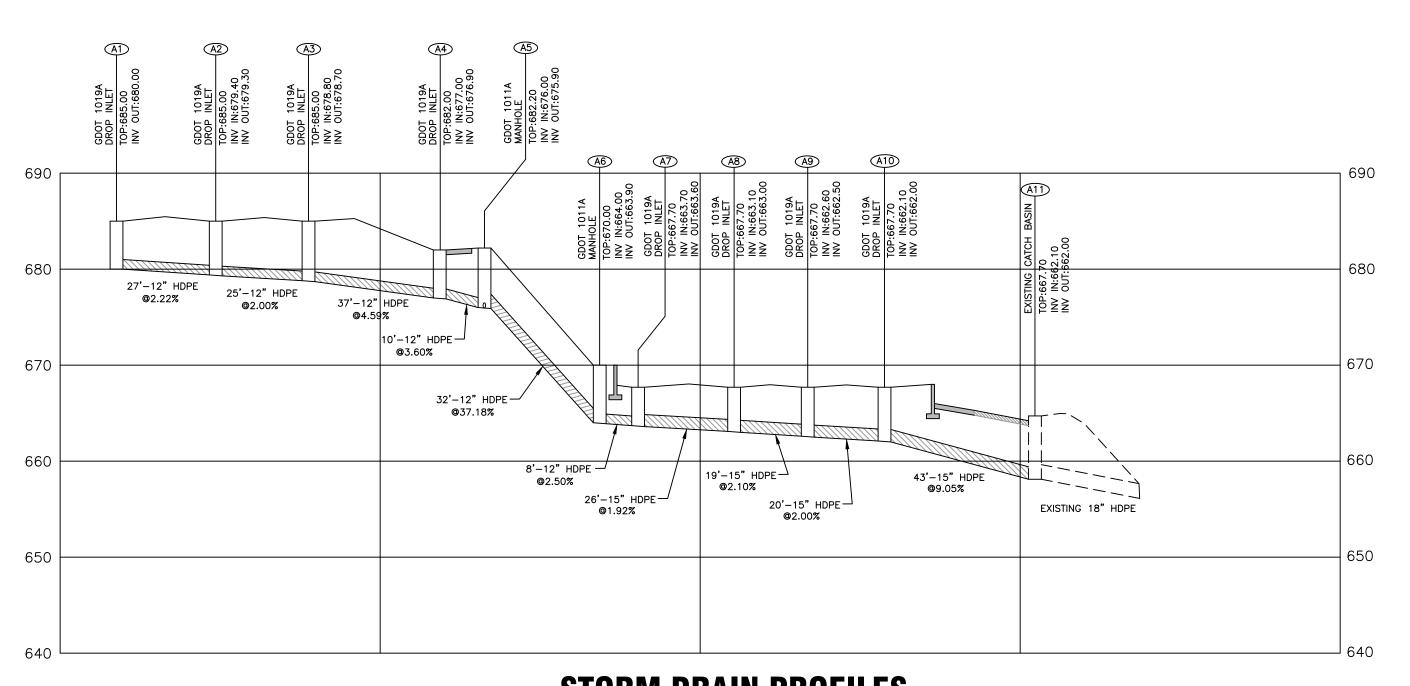


SHEET









## **STORM DRAIN PROFILES**

SCALE: 1"=30' HORIZ. 1"=10' VERT.

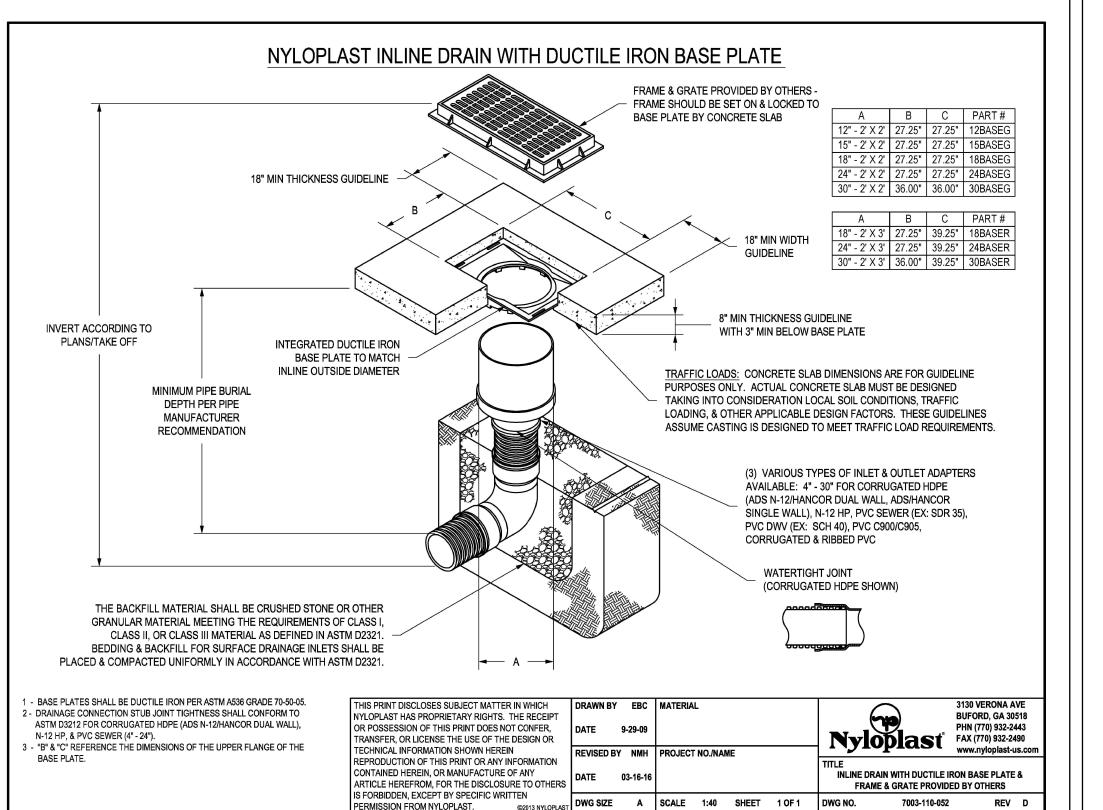
### **PIPE DESIGN DATA:**

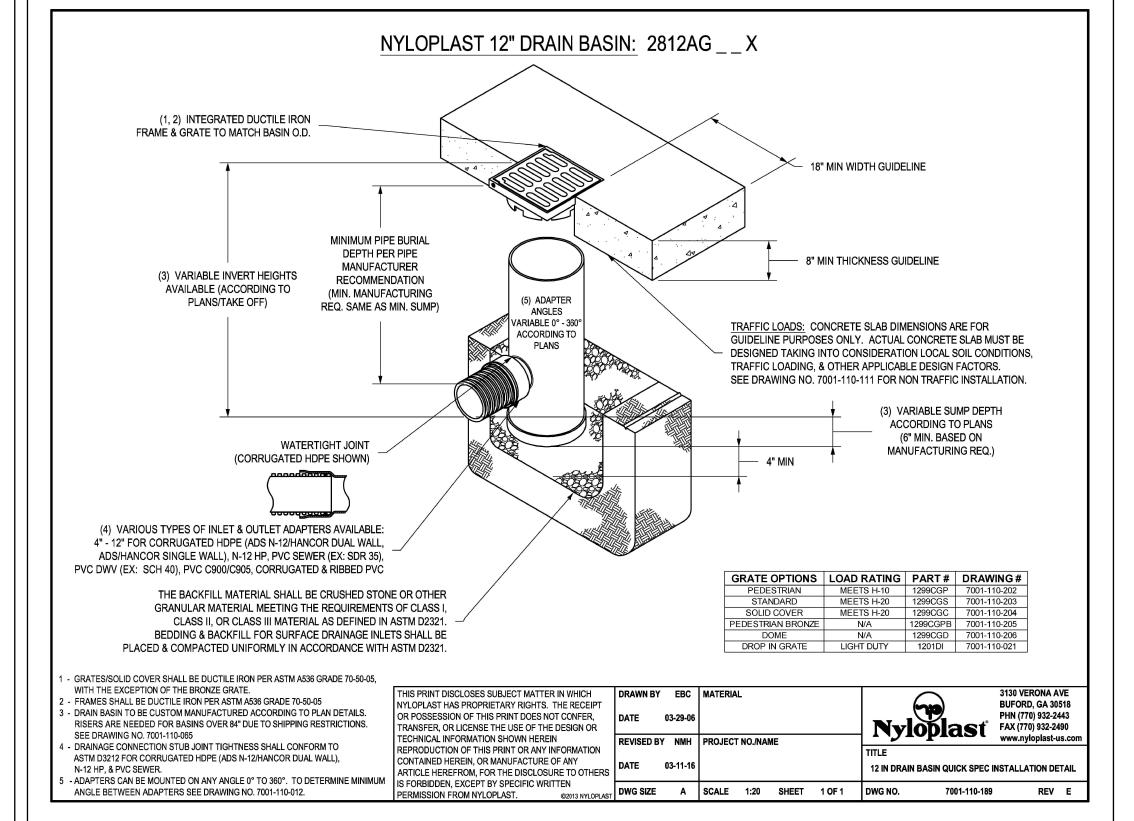
STRUCTURE NO.	PIPE SIZE	LENGTH/ SLOPE	DRAINAGE AREA	RUNOFF COEFFICIENT	Q(50)	V(50)
A1-DROP INLET						
	12" HDPE	27'@2.22%	0.15 AC.	0.88	1.3 CFS	4.3 FPS
A2-DROP INLET						
	12" HDPE	25'@2.00%	0.07 AC.	0.91	2.0 CFS	5.5 FPS
A3-DROP INLET						
	12" HDPE	37'@4.59%	0.05 AC.	0.88	2.4 CFS	6.8 FPS
A4-DROP INLET						
	12" HDPE	10'@3.60%	0.18 AC.	0.90	4.0 CFS	7.1 FPS
A5-MANHOLE						
	12" HDPE	32'@37.18%			4.3 CFS	16.0 FPS
A6-MANHOLE						
	12" HDPE	8'@2.50%			4.3 CFS	6.5 FPS
A7-DROP INLET						
	15" HDPE	26'@1.92%	0.04 AC.	0.74	4.6 CFS	5.7 FPS
A8-DROP INLET						
	15" HDPE	19'@2.10%	0.04 AC.	0.98	5.0 CFS	5.9 FPS
A9-DROP INLET						
	15" HDPE	20'@2.00%	0.04 AC.	0.98	5.4 CFS	6.1 FPS
A10-DROP INLET						
	15" HDPE	43'@9.05%	0.02 AC.	0.98	5.6 CFS	9.5 FPS
A11-CATCH BASIN						

#### HDPE PIPE SPECIFICATIONS:

HDPE PIPE SHALL BE ADS N-12 OR EQUIVALENT DUAL WALL PIPE WITH A CORRUGATED EXTERIOR SURFACE AND SMOOTH INTERIOR SURFACE. HDPE PIPE SHALL SATISFY AASHTO M294 STANDARD SPECIFICATIONS. PIPE SHALL JOINED USING A BELL & SPIGOT SOIL TIGHT JOINT MEETING AASHTO M294.

MANNINGS "n" VALUE FOR DESIGN IS 0.012.

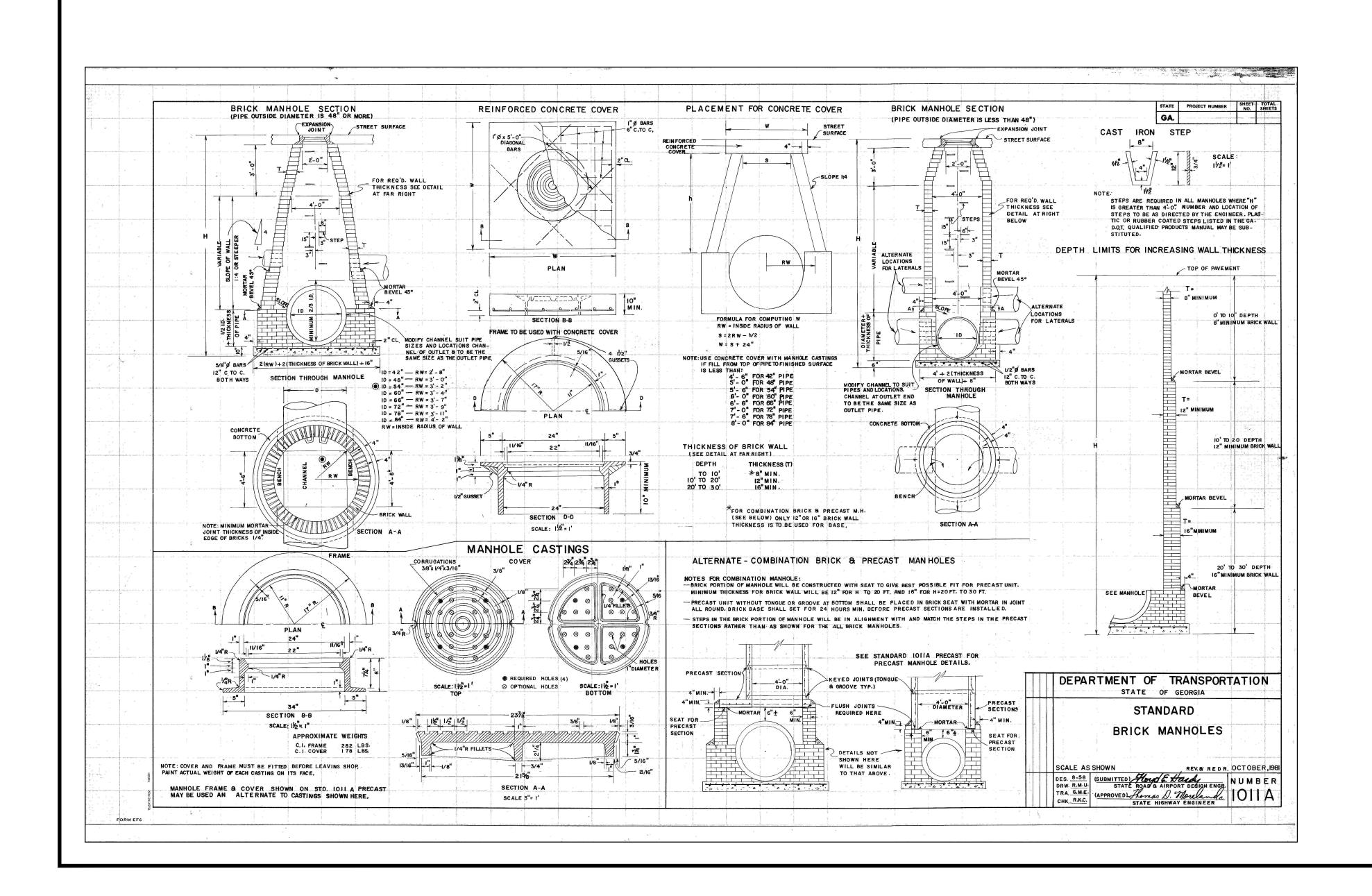


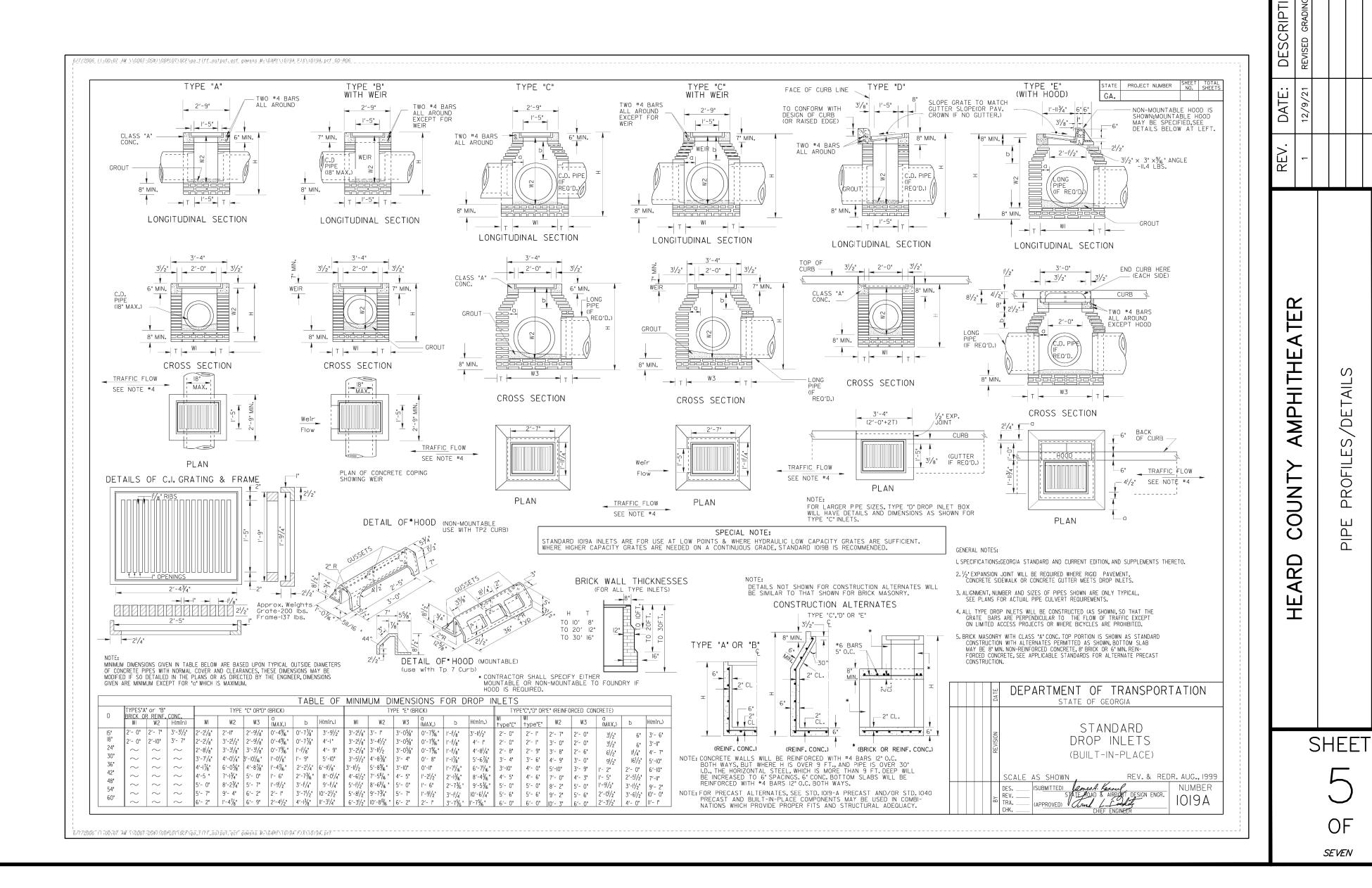


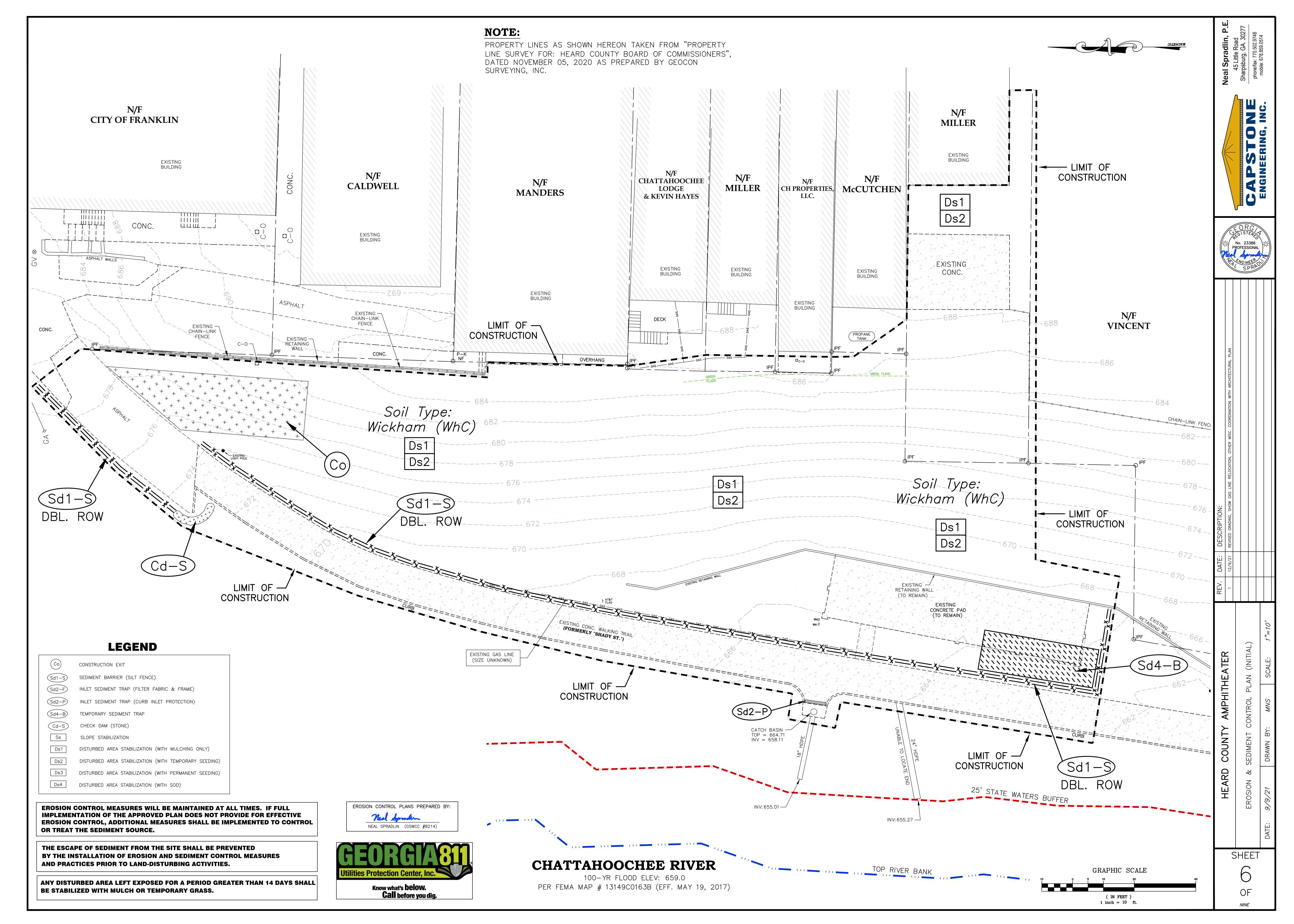
PSTO

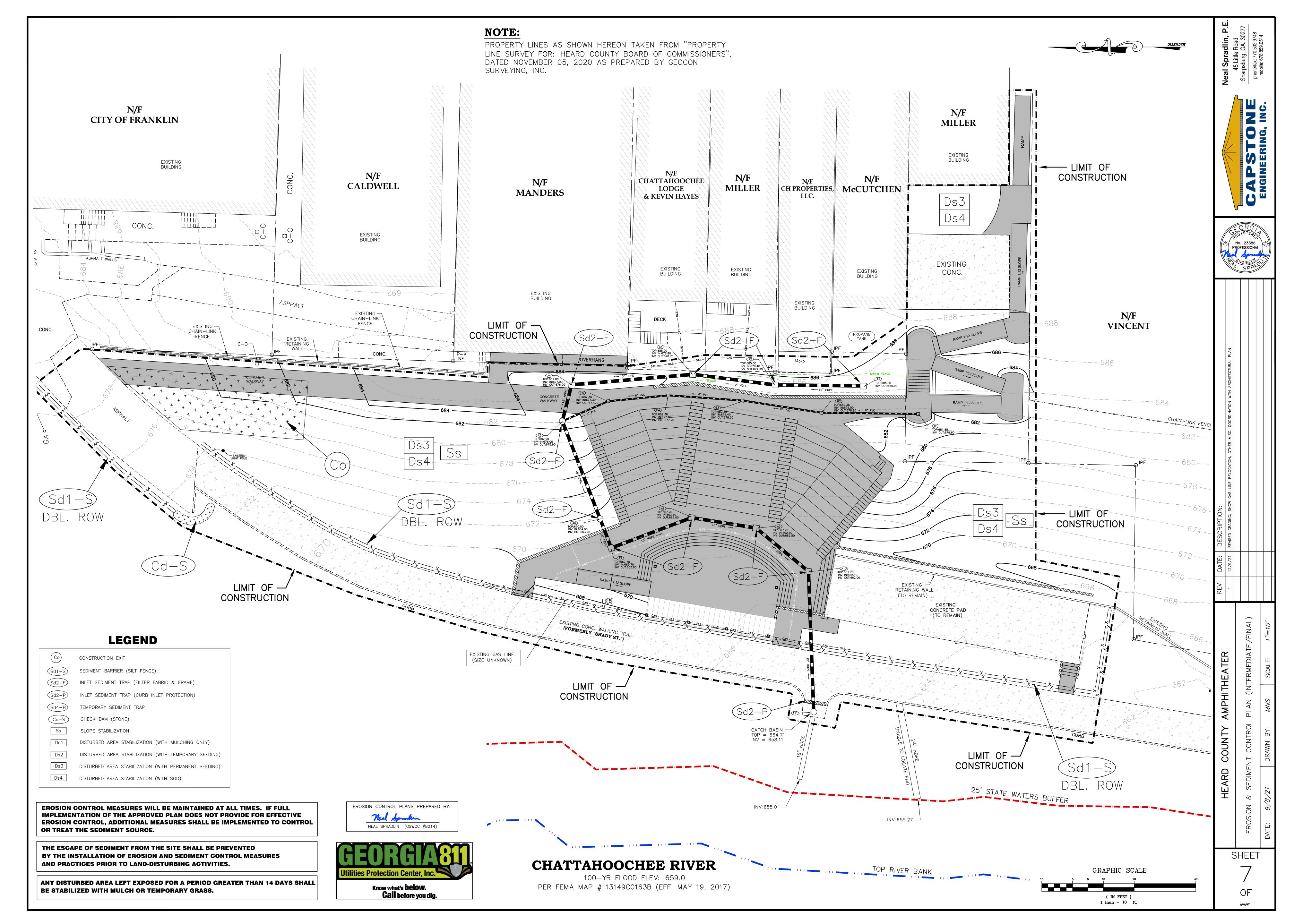
No. 23386 PROFESSIONAL

USE NYLOPLAST INLETS WITH 12"X12" CAST IRON GRATES FOR THE 6" PVC DRAIN LINE AT TOP OF AMPHITHEATER SEATING. (OR EQUIVALENT AS APPROVED BY THE ENGINEER)











. LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 3". 2. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2"-4" PROVIDING COMPLETE SOIL COVERAGE.

#### DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)

SPECIES	SEEDING RATE (LBS. PURE LIVE SEED)	PLANTING DATES
RYEGRASS (ANNUAL)	40 LBS/ACRE	AUGUST — APRIL
MILLET, PEARL	50 LBS/ACRE	APRIL — AUGUST
RYE	168 LBS/ACRE	AUGUST — DECEMBER

- 1. OTHER SPECIES MAY BE USED AS RECOMMENDED BY THE
- "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" 2. LIME AND FERTILIZATION ARE GENERALLY NOT REQUIRED EXCEPT WHEN DIRECTED BY THE ENGINEER.
- 3. MULCHING SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER USING DRY STRAW OR HAY AT A RATE OF 2.5 TONS/ACRE.

#### DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

SPECIES	SEEDING RATE (LBS. PURE LIVE SEED)	PLANTING DATES
BERMUDA, COMMON (HULLED)	6-10 LBS/ACRE	MARCH — JUNE
BERMUDA, COMMON (UN-HULLED)	6-10 LBS/ACRE	OCTOBER – FEBRUARY
FESCUE, TALL	30 -50 LBS/ACRE	AUGUST — OCTOBER MARCH — APRIL
LESPEDEZA	60 – 75 LBS/ACRE	JANUARY — DECEMBER
NOTEC		

#### . OTHER SPECIES MAY BE USED AS RECOMMENDED BY THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"

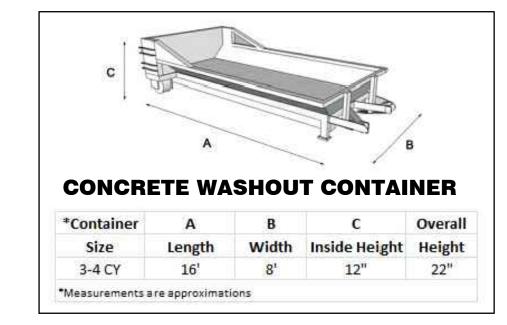
- 2. MULCHING, LIME AND FERTILIZATION ARE REQUIRED. CONVENTIONAL PLANTING SHALL UTILIZE RECOMMENDED RATES DESCRIBED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" LIME SHALL BE APPLIED AS DIRECTED BY SOIL SCIENTIST OR AT THE RATE OF 1-2 TONS PER ACRE. MULCH USING STRAW OR HAY AT A RATE OF 2.5 TONS/ACRE
- 3. HYDRAULIC SEEDING MIXTURES SHALL CONSIST OF APPROPRIATE AMOUNTS OF SEED, MULCH AND FERTILIZER AS DIRECTED BY THE ENGINEER.
- 4. SPECIES MAY BE MIXED TO OBTAIN OPTIMUM RESULTS.

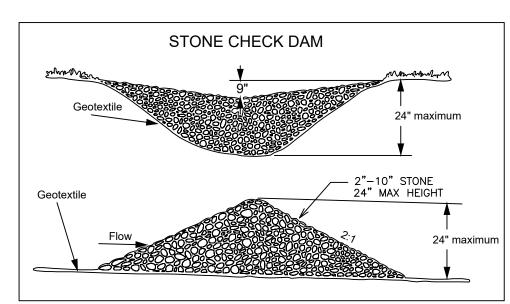
#### DISTURBED AREA STABILIZATION (WITH SOD)

LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 3". MIX FERTILIZER INTO SOIL SURFACE USE 10-10-10 AT 1000 LB/ACRE. APPLY LIME BASED ON SOIL TEST RECOMMENDATIONS. INSTALL BERMUDAGRASS SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DO NOT OVERLAP JOINTS OR STRETCH SOD:

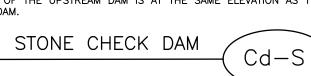
#### FERTILIZER RATES FOR PERMANENT VEGETATION AND/OR TEMPORARY VEGETATION (IF REQUIRED)

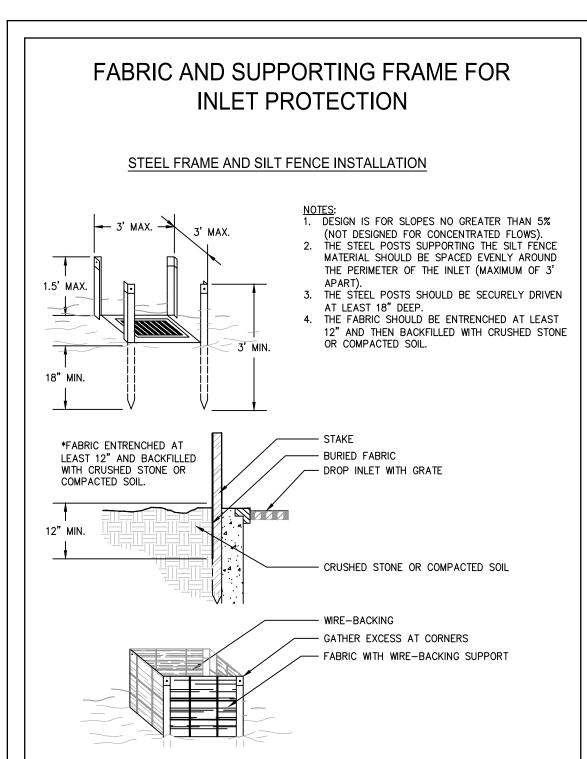
TYPE OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS/ACRE)	N TOP DRESSING RATE (LBS/ACRE)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	1000	
	MAINTENANCE	10-10-10	400	30
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30

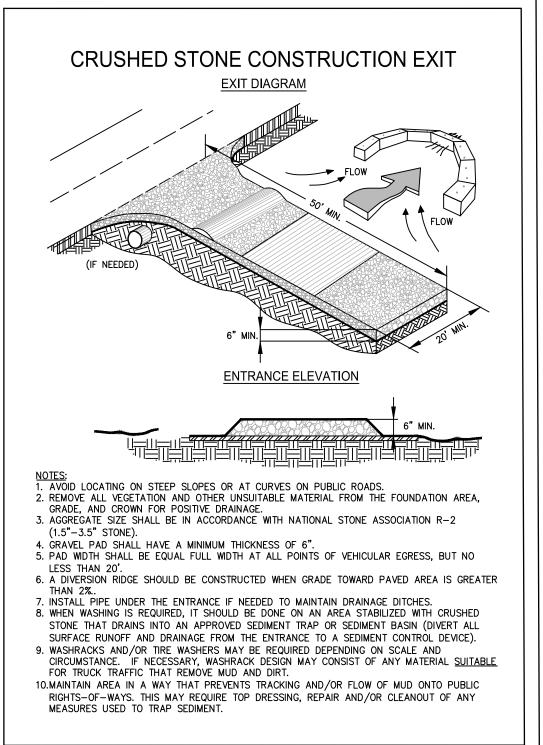


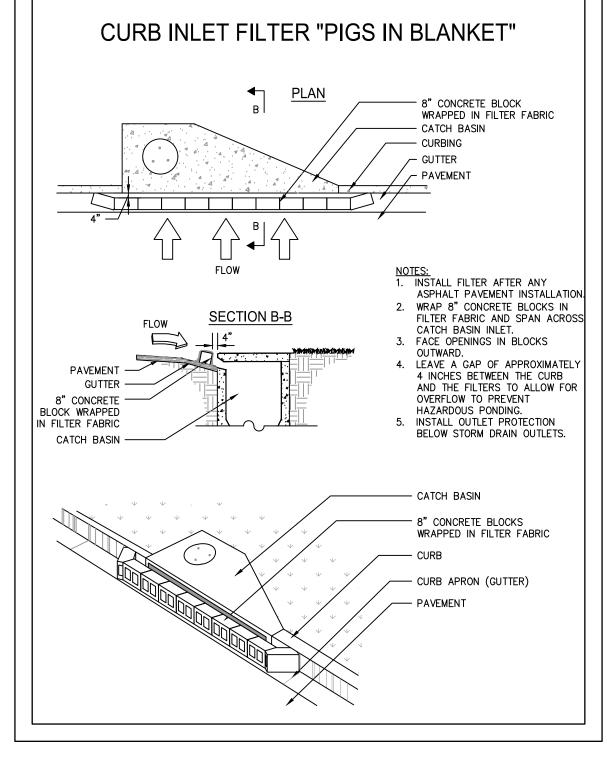


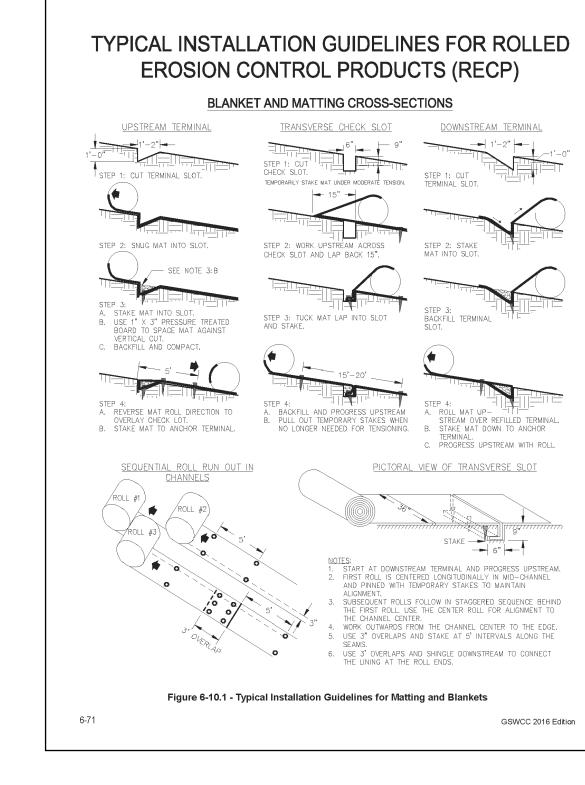
TWO OR MORE CHECK DAMS IN A SERIES SHALL BE USED FOR DRAINAGE AREAS GREATER THAN ONE (1) ACRE. MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE

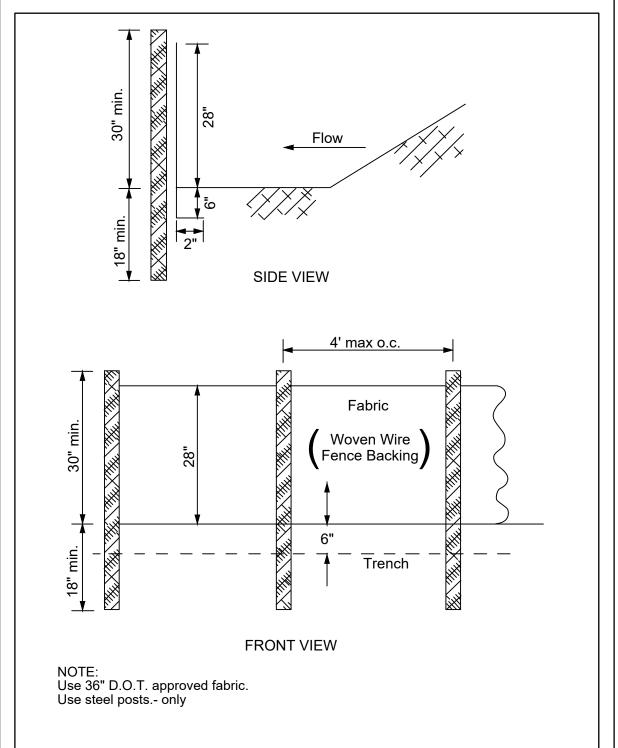












SLOPE STABILIZATION

TEMPORARY SEDIMENT BARRIER

TEMPORARY SEDIMENT TRAP COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

COMBINATION OUTLET

INSTALLATION (TYPICAL)

- SILT FENCE INSTALLATION

(TYPICALLY WITH WIRE

MAXIMUM PONDED DEPTH

(OPTIONAL)

(SEE NOTE 2)

EMERGENCY OVERFLOW WEIR -

COMBINATION SILT FENCE -

SPILLWAY (TYPICAL RIPRAP)

BERM WITH ADDITIONAL REINFORCING AS NECESSARY.

COMPACTED EARTH — EMBANKMENT

SEDIMENT TRAP #1:

SIDE SLOPES 2:1

DRAINAGE AREA = 0.5 AC.

6. DIMENSIONS: 36'X16'X2' DEEP

EXCAVATION DEPTH = 2 FEET

5. SURFACE AREA = 904.5 / 2 = 452 SF

TIE EMBANKMENT INTO —

NOTES:
1. MAXIMUM AREA FOR SEDIMENT TRAP

COMBINATION OUTLÉT IS USUALLY

ACRE WITH GENTLE SLOPES AND

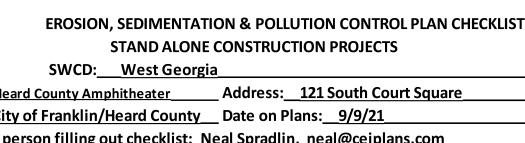
PREDOMINANTLY OVERLAND SHEET

MAXIMUM DEPTH OF PONDED WATER IS USUALLY 12" OR LESS. PROVIDE EMERGENCY SPILLWAY BY

CONSTRUCTING RIPRAP CHANNEL AS

TEMPORARY SEDIMENT TRAP

REQUIRED SEDIMENT STORAGE = 67 CY/AC \* 0.5 = 33.5 CY \* 27 = 904.5 CF



**TO BE SHOWN ON ES&PC PLAN** Page # Y/N 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission 8 **||** Y as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)

3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)

4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.

5 Provide the name, address, email address, and phone number of primary permittee

'Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.

Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes,

residential areas, wetlands, marshlands, etc. which may be affected. 9 Y 12 Design professional's certification statement and signature that the site was visited prior to development of the

ES&PC Plan as stated on **Part IV page 19** of the permit

14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."

9 Y 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal variances and permits."

7 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on

N/A 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." \*

erosion and sediment control measures and practices prior to land disturbing activities."

shall be implemented to control or treat the sediment source."

N/A 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in

N/A 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. \*

9 Y 25 Provide BMPs for the remediation of all petroleum spills and leaks.

Project Name: <u>Heard County Amphitheater</u> Address: <u>121 South Court Square</u> City/County: City of Franklin/Heard County Date on Plans: 9/9/21 Name & email of person filling out checklist:\_Neal Spradlin, neal@ceiplans.com\_

2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be

6 Note total and disturbed acreages of the project or phase under construction.

8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. 9 Description of the nature of construction activity and existing site conditions.

10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.

13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit. \*

in accordance with Part IV.A.5 page 25 of the permit. \*

marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary

16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.

BMPs with a hydraulic component must be certified by the design professional." \*

6-7 Y 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of

6-7 Y 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures

6-7 Y 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

> 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. \*

Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. \*

26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. \*

27 Description of practices to provide cover for building materials and building products on site. 28 Description of the practices that will be used to reduce the pollutants in storm water discharges.

9 Y 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities,

excavation activities, utility activities, temporary and final stabilization). 30 Provide complete requirements of Inspections and record keeping by the primary permittee. \*

31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. \* 32 Provide complete details for Retention of Records as per Part IV.F. of the permit.  $^{*}$ 

33 Description of analytical methods to be used to collect and analyze the samples from each location. 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. \* 35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which

storm water is discharged. \* 36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter

control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine

all of the BMPs into a single phase. ALL Y 37 Graphic scale and North arrow.

ALL II Y 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following

Contour Intervals, ft. Ground Slope 1 inch = 100ft or Flat 0 - 2% 0.5 or 1 Rolling 2 - 8% 1 or 2 Steep 8% + 2,5 or 10

N/A 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at

www.gaswcc.georgia.gov. 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. \*

6-7 | Y | 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. \*

6-7 Y 42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site. 9 Y 43 Delineation and acreage of contributing drainage basins on the project site.

9 Y 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are

5 | Y | 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

6 Y 47 Soil series for the project site and their delineation. 6-7 Y 48 The limits of disturbance for each phase of construction.

8 | Y | 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin,

retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible,

a written justification explaining this decision must be included in the Plan. 6-7 Y 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with

but within 200 ft of a perennial stream, the \* checklist items would be N/A.

8 Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

6-7 Y 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia. \* If using this checklist for a project that is less than 1 acre and not part of a common development

Effective January 1, 2021

SHEET

**Q a** 

No. 23386

**PROFESSIONAL** 

<u>Primary Permittee</u> Operator <u>Design Professional</u> OWNER/DEVELOPER: CONTRACTOR: CIVIL ENGINEER: The Development Authority To Be Determined Capstone Engineering, Inc. Sharpsburg, GA 30277 Franklin, GA 30217 CONTACT PERSON: 24-hr CONTACT PERSON: Neal Spradlin Kathy Knowles 706-675-0554 (770) 502-9748 kk@heardgeorgia.org

Description of Existing Land Use: Site Purpose and Construction Activity:

Site Description and Location: Location: Land Lot 382, District 3, Heard County, GA Site Area: 0.50 ac. Total Area of Disturbance = 0.50 as Soil Types: Wickham

This site does not include any wetlands as defined by the U.S. Army Corps of Engineers. Reference report by Georgia Forestry Consulting, Dated 12/21/2020 Chattahoochee River

State Waters This site is adjacent to the Chattahoochee River (state waters) See plans for location of top of bank and state waters buffer.

Drainage Description Please refer to the Erosion Control Plan, prepared by CAPSTONE ENGINEERING. INC. for detailed information regarding drainage patterns and slopes, and stormwater discharge

Slopes After Grading Maximum Slope is 2:1

<u> Erosion Control Measures</u>

tructural and nonstructural controls will be used onsite to prevent erosion during construction including temporary and permanent grassing, check dams, storm drain inlet and outlet protection, silt fencing, and temporary sediment traps.

See sheet 8 for the applicable Frosion Sedimentation and Pollution Control Plan Checklist

The existing site is grassed with some areas of existing concrete. The proposed project involves the construction of

The following controls will be implemented at the construction site:

1. <u>Initial perimeter controls</u> will include silt fence, check dams, inlet protection and a crushed stone pad to be used at the construction exit.

2. Intermediate grading and drainage BMPS will include inlet/outlet protection for the stormdrain system, silt fence temporary/permanent grassing. Sediment storage provided with a temporary sediment trap and inlet traps at all of the storm drain inlets. 3. <u>Final BMPs</u> will include permanent grassing and landscaping. Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities

have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporarily of permanently ceases is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable. DESCRIPTION OF PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORMWATER DISCHARGES:

Product Specific Practices: Petroleum Based Products - Containers for products such as fuels, lubricants, and tars will be inspected daily for leaks and spills. This includes onsite vehicles and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from State Waters, natural drains, and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to vent/minimize site contamination. Discharge of oils, fuels, and lubricants is prohibited. Proper disposal Paints/Finishes/Solvents - All products will be stored in tightly sealed original containers when not in use. Excess products, and product containers will be disposed of according to manufacturer's specifications and

Concrete Truck Washing - NO concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite. Fertilizer/Herbicides — These products will be applied at rates that do not exceed the manufacturer's specifications or above the quidelines set forth in the crop establishment or in the GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers. ilding Materials — No building or construction materials will be buried or disposed of onsite. All such material will be disposed of in proper waste disposal procedures. After construction is complete - Reduction of pollutants to accomplish runoff reduction and water quality is

accomplished by a series of BMPS's in the form of a treatment train. The treatment train consists of an infiltration system underneath a portion of the stormdrain system followed by the permanent stormwater pond. The infiltration system contains 50% of the Runoff Reduction volume (RRv). The stormwater ponds contains the remaining RRv, Water Quality volume (WQv) and Channel Protection Volume (CPv). Additionally, the stormwater pond hydrology report for additional details and calculations related to these requirements.

al areas for erosion control are as follows Perimeter silt fence adjacent to state waters

PLAN PREPARATION AND SUBMITTAL (7-day inspection letter)

BMP's in these critical greas should be monitored daily and sediment cleaned out as required. Additional erosion

For common developments that begin construction activity after the effective date of this permit, the primary permittee and tertiary permittee(s) must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within seven (7) days after installation. The design professional shall determine if thes BMPs have been installed and are being maintained as designed. The design professional shall repor the results of the inspection to the permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report from the design professional unless weather related site conditions are such that additional time is required. This requirement of this permit is not applicable to tertiary permittees wth a Plan(s) for a typical ndividual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre.

 Waste disposal. Solid materials, including building materials, will not be discharged to waters of the state, except as authorized by a Section 404 permit. 2. Off-site vehicle tracking of dirt, solids, and sediments and the generation of dust will be minimized or eliminated to the maximum extent practical. A construction exit consisting of crushed stone pad to minimize off—site vehicle tracking of dirt. The permittee may use any approved facility for waste disposal that he choses.

Best management practices for prevention of petroleum spills:
All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers that are clearly labeled. Any petroleum to be stored in tanks will have be surrounded by a earthen berm as a secondary protective measure. Any Asphalt substances used onsite will be applied according to the manufacture's recommendations. Contractors and subcontractors are responsible for inspecting their equipment and providing necessary maintenance to eliminate

Best management practices for remediation of petroleum spills:

Manufactures recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures, the location of the information and the cleanup supplies. Materials and equipment necessary for spill cleanup will be available if needed. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose. All spills will be cleaned up immediately after discovery. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury om contact with a hazardous substance. Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of size. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and now to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included. The Operator will designate a spill prevention and cleanup coordinator. The contractor is responsible for providing and implementing a spill

5. A concrete truck washout area shall be located at the site entrance. Washout shall be contained within a watertight container with no material leaving the site or impacting vegetated or non-disturbed areas. Disposal of material shall include the breaking off of material into small amounts for trash disposal or removal from the site to an appropriate landfill. Washout of the drum at the construction site is prohibited. 6. Utilize temporary plastic sheeting to cover building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste,

and other materials in order to minimize exposure to precipitation and to stormwater.

No waste will be disposed of in stormwater inlets. All waste materials will be collected in a securel lidded dumpster. The dumpster will meet all solid waste management requirements. All trash and construction debris from the site will be emptied a minimum of once per week or more often if necessary. Trash will be hauled as required by local regulations. No construction waste will be buried onsite. All personnel will be instructed on proper procedures for waste disposal. A notice stating the practices will be posted at the job site and the contractor will be responsible for seeing that these

MISCELLANEOUS NOTES:

1. Pre-Development Runoff Coefficient = 0.50

Post-Development Runoff Coefficient = 0.69 The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7-days after installation in accordance with Part IV.a.5 page 26 of the permit. 4. Amendments to the ES&PC plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional.

5. Waste materials shall not be discharged to waters of the state, except as authorized by a section 404 Permit. 6. This ES&PC plan is in compliance with waste disposal, sanitary sewer, and septic tank

egulations. A separate permit is required for the installation of septic systems. 7. See project hydrology report for drainage basin maps and calculations of Pre-Development 8. Non-exempt activities shall not be conducted within 25-foot or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the

> 'I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water management practices and sampling methods is of the permit.

'I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitte is, to the best of my knowledge and belief, true, significant penalties for submitting false information, including the possibility of fine and imprisonment for

Primary Permittee

## DOCUMENTATION THAT THE ES&PC PLAN IS IN COMPLIANCE WITH WAST DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED:

All hazardous waste materials will be disposed on in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. The job site superintendent, who will also be responsible for seeing that these practices are followed, will instruct site personnel in these practices. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will bstance with hazardous properties will be instructed on the use of MSDS sheets and the specific information i the applicable MSDS for the product he/she is using, particularly regarding spill control techniques. The contractor will implement the Spill Prevention Control and Countermeasurers (SPCC) Plan found within this SPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with stormwater discharges. If such contact and federal regulations are taken to dispose of such contaminated stormwater. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations. All sanitary waste units will be located in one area where the likelihood of the unit contributing to storm water discharge is negligible. Additional containment BMP's must be implemented, such as gravel bags or specially designed plastic skid containers around the base to prevent wastes from contributing to storm water discharges location of sanitary waste units must be identified on the ES&PC Plan by the contractor once the locations

Sanitary Sewer will be provided by Municipal Authority/Septic System at the completion of this project.

4. Inspections. a. Primary Permittee

(1). Each day when any type of construction activity has taken place at a primary permittee's site. certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking; and (c) measure rainfall once each 24 hour period at the site. These inspections must be conducted until a Notice of Termination is submitted. (2). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site that have not undergone final stabilization; (b) greas used by the primary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization, the permittee must comply with Part IV.D.4.a.(3). These inspections must be conducted until a Notice of Termination is submitted. (3). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the ite that have undergone final stabilization. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment ntrol measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to

ascertain whether erosion control measures are effective in preventing significant impacts to receiving (4). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar (5). A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(4), of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the report does not identify any incidents of non-compliance, the report shall contain a certification that the construction site is in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G. of this permit.

(1). Each day when any type of construction activity has taken place at a secondary permittee's site, certified personnel provided by the secondary permittee shall inspect: (a) all areas used by the secondary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the secondary permittee site where that permittee's vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees. (2). Certified personnel (provided by the utility companies and utility contractors if they are secondary permittees) shall inspect the following each day any type of construction activity has taken place at the construction site: (a) areas of the construction site disturbed by the utility companies and utility contractors that have not undergone final stabilization: (b) greas used by the that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the utility companies and utility ontractors' construction activities shall be observed to ensure that they are operating correctly Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors when they are secondary permittees performing service line installations or when conducting repairs on existing line installations. The certification requirements of this paragraph shall be applicable 90 days after the effective date of this permit. (3) Certified personnel (provided by the secondary permittee) shall inspect the following at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the secondary permittee's construction site that have not undergone final stabilization; (b) areas used by the secondary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Frosion and sediment control measures identified in the Plan applicable to the secondary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion contro measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization, the permittee must comply with Part IV.D.4.b.(4). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is no applicable to utility companies and utility contractors if they are secondary permittees. 4). Certified personnel (provided by the secondary permittee) shall inspect at least once per montl during the term of this permit (i.e., until a Notice of Termination is received by EPD) the greas of their sites that have undergone final stabilization. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors if (5). Based on the results of each inspection, the secondary permittee must notify the primary permittee within 24-hours of any suspected BMP design deficiencies. The primary permittee must evaluate whether these deficiencies exist within 48—hours of such notice, and if these deficiencies are found to exist must amend the Plan in accordance with Part IV.C. of this permit to address nose deficient BMPs within seven (7) days of being notified by the secondary permittee. When th Plan is amended, the primary permittee must notify and provide a copy of the amendment to all affected secondary permittee(s) within this seven (7) day period. The secondary permittees must implement any new Plan requirements affecting their site(s) within 48-hours of notification by the (6). A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.b.(5), o the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the repor

does not identify any incidents of non-compliance, the report shall contain a certification that the

is not applicable to utility companies and utility contractors if they are secondary permittees performing only service line installations or when conducting repairs on existing line installations.

construction site is in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G. of this permit. This paragraph

c. Tertiary Permittee.

(1). Each day when any type of construction activity has taken place at a tertiary permittee's site, certified personnel provided by the tertiary permittee shall inspect: (a) all areas used by the tertiary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the tertiary permittee site where that permittee's vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. Thi paragraph is not applicable to utility companies and utility contractors performing only service installations or when conducting repairs on existing line installations. (2). Certified personnel (provided by the tertiary permittee) shall inspect at least the following once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the tertiary permittee's construction site that have not undergone final stabilization; (b) areas used by the tertiary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the tertiary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization, the permittee must comply with Part IV.D.4.c.(3). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing (3). Certified personnel (provided by the tertiary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of their sites that have undergone final stabilization. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations. (4). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following the inspection. (5). A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the report does not identify any incidents of non-compliance, the report shall contain a certification that the construction site is in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G. of this permit. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing

"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION. (In accordance with Part IV. page 23 of the permit) 9/8/21 Certification "I certify that the ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3) page 37 of the permit as applicable. Georgia Licensed Professional

EROSION CONTROL PLAN PREPARED BY: Nest Spracken NEAL SPRADLIN (GSWCC #8214)

a. Inspections of erosion control measures will be performed and corrective action taken when needed as required by the plan. b. The permittee shall maintain all erosion control measures until permanent vegetation has been established. c. The permittee shall clean out all sediment ponds when required by the engineer. d. Accumulated silt shall be removed when the silt is two—thirds full. See sediment pond design for clean—out

## Non-stormwater discharges are not expected on this site. If a connection to a waterline does occur, the contractor

1. The applicable permittees are required to submit a summary of the monitoring results to the EPD at the address shown below by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum manner to the EPD. The sampling reports must be signed in accordance with Part V.G. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI. frequency stated in this permit must be reported in a similar

> Mountain District - Atlanta Satellite Atlanta, Georgia 30354-3906

2. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The applicable permittees shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is

3. All monitoring results shall include the following information: a. The date, exact place, and time of sampling or measurements;
b. The name(s) of the individual(s) who performed the sampling and measurements;

 d. The time(s) analyses were initiated; e. The name(s) of the individual(s) who performed the analyses; g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results; and h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU."

Sampling Requirements

. The date(s) analyses were performed

All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833—B—92—001" and guidance documents that may be prepared by the EPD.

Sample containers should be labeled prior to collecting the samples. Samples should be well mixed before transferring to a secondary container. Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. e jars should be cleaned thoroughly to avoid contamination. 4) Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless low through automated analysis is utilized. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled. Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in the permit must be reported to the EPD as specified in Part IV.E.

Sampling Points:
For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

1) The upstream sample for each receiving water(s) must be taken immediately upstream of the

confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream 2) The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e. the discharge farthest downstream at the site) out upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value. 3) Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s). ) Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel. The sampling container should be held so that the opening faces upstream. The samples should be kept free from floating debris.

Permittees do not have to sample sheet flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or equivalent stabilization measures (such as the use of rip-rap, gabions, permanent mulches or geotextiles) have been used. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines; a crop of perennial vegetation appropriate for the time of year and region; or a crop of annual vegetation and a seeding of target crop perennials appropriate for e region. Final stabilization applies to each phase of construction 8) All sampling pursuant to this permit must be done in such a way (including generally accepted from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever

The primary permittee must samplein accordance with the Plan at least once for each rainfall event

a) the accumulation of the minimum amount of rainfall for the qualifying event, if the stormwater

described below. For a qualifying event, samples must be taken within forty-five (45) minutes of:

scharge to a monitored receiving water or from a monitored outfall has begun at or prior to the b) the beginning of any storm water discharge to a monitored receiving water or from a monitored ) However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge. Sampling by the permittee shall occur for the following events: a) For each area of the site that discharges to a receiving stream, the first event that reaches or exceeds 0.5 inch and allows for monitoring during normal business hours (Monday thru Friday, 8:00AM to 5:00PM and Saturday 8:00AM to 5:00PM, Čexcluding all non—working Federal holidays, when construction activity is being conducted by the primary permittee) that occurs after all clearing and grubbing operations have been completed in the drainage area of the location selected as the sampling location; b) In addition to (a) above, for each area of the site that discharges to a receiving stream, the first rain event that reaches or exceeds 0.5 inch and allows for monitoring during normal business hours that occurs either 90 days after the first sampling event or after all mass grading operations have been completed in the drainage area of the location selected as the sampling location, whichever comes first; c) At the time of sampling performed pursuant to (a) and (b) above, if BMP's are found to be properly designed, installed and maintained, no further action is required. If BMP's in any area of the site that discharges to a receiving stream are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from during normal business hours until the selected turbidity standard is attained, or until post-storm event inspections determine that BMP's are properly designed, installed and maintained; and d) Existing construction activities, i.e. those that are occurring on or before the effective date of

Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for monitoring at any

this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to

Surface water drainage area < 5 sq. miles Receiving water is a warm water stream (supporting warm water fisheries) Sampling locations are shown on the drainage basin map on this page. ) Turbidity standard = 75 NTU.

conduct additional sampling other than as required by (c) above.

Retention of Records

1. The primary permittee shall retain the following records at the construction site or the records shall be eadily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI: a. A copy of all Notices of Intent submitted to EPD; b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit; The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5.

 d. A copy of all monitoring information, results, and reports required by this permit;
 e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit; . A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. g. Daily rainfall information collected in accordance with Part IV.D.4.a.(1)(c) of this permit. 2. Copies of all Notices of Intent, Notices of Termination, reports, plans, monitoring reports, monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written

All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD. See address below: Georgia Environmental Protection Division 4244 International Parkway, Suite 114 Atlanta, Georgia 30354—3906

SECONDARY PERMITTEE NOTICE:

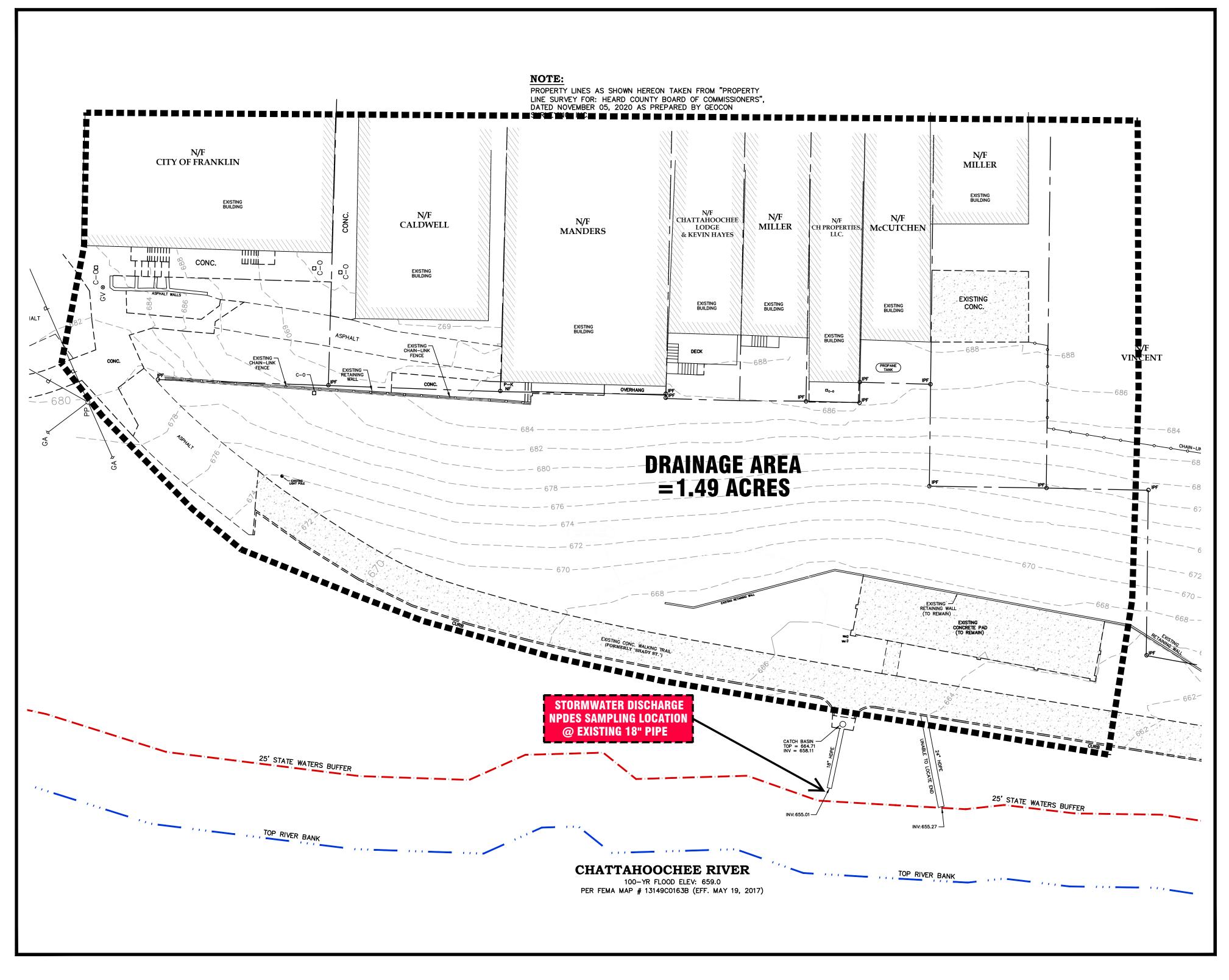
 APPLICABLE PORTIONS OF THIS ES&PC PLAN SHALL BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY CONDUCTING ANY CONSTRUCTION ACTIVITY AND EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE.
 THIS MASTER LIST MUST BE SIGNED AND KEPT IN THE SITE CONSTRUCTION TRAILER. . ALL SECONDARY PERMITTEES MUST SUBMIT NOI'S AT LEAST 14 DAYS PRIOR TO BEGINNING OF CONSTRUCTION ACTIVITIES.

4. BY SIGNING THIS DOCUMENT THE SECONDARY PERMITTEE ACKNOWLEDGES RECEIPT OF THE SEDIMENTATION AND POLLUTION CONTROL PLANS.

**CONSTRUCTION ACTIVITY SCHEDULE** 

INSTALL/MAINTAIN EROSION CONTROL MEASURES DEMOLITION/CLEARING AND GRADING ACTIVITIES
INSTALL STORM DRAIN
CONSTRUCT AMPHITHEATER SEATING
FINAL GRASSING/LANDSCAPING ALL DISTURBED AREAS

## DRAINAGE BASIN MAP (SCALE: 1"=20')



OWNER/DEVELOPER/PRIMARY PERMITTEE:

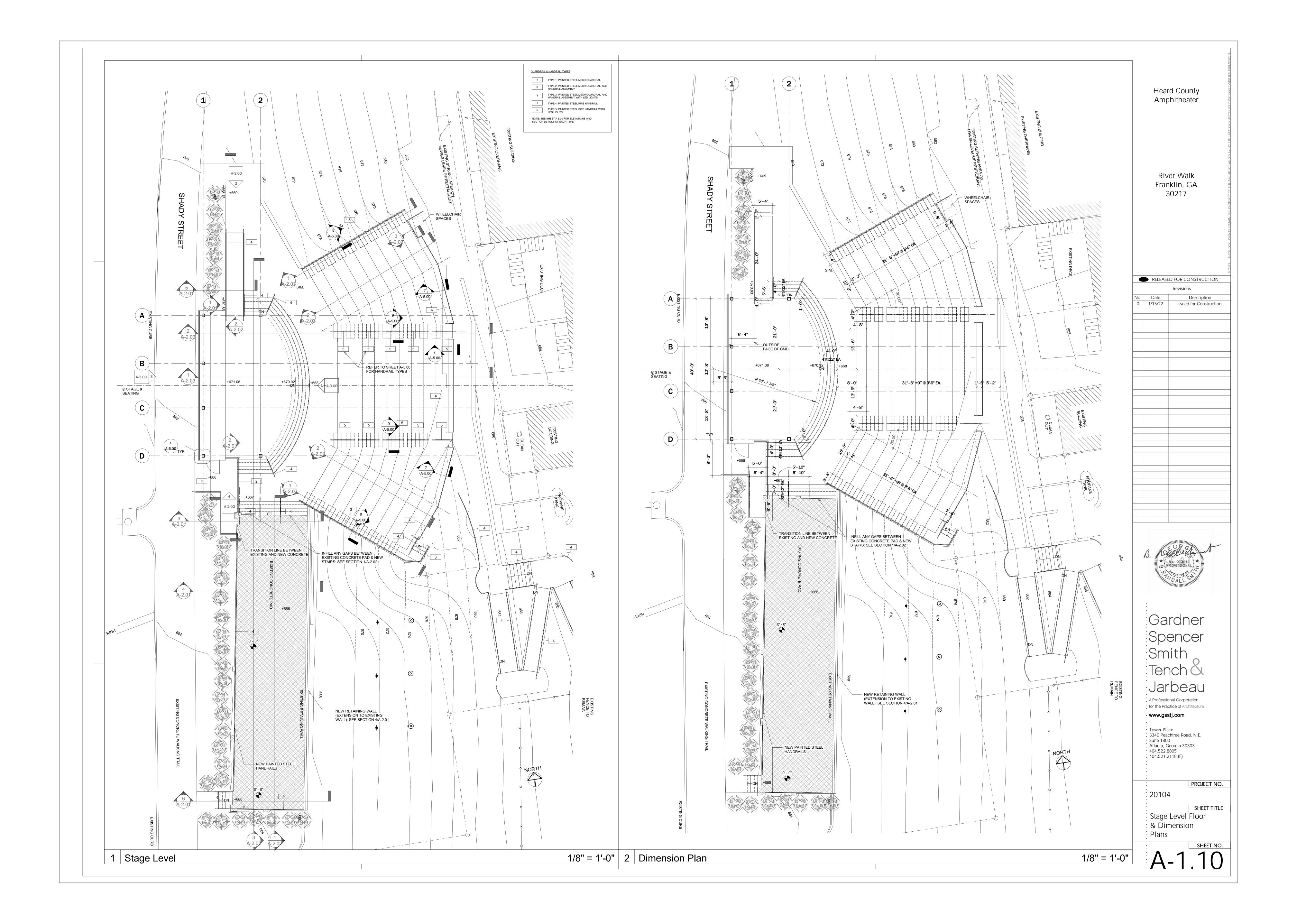
The Development Authority of Heard County

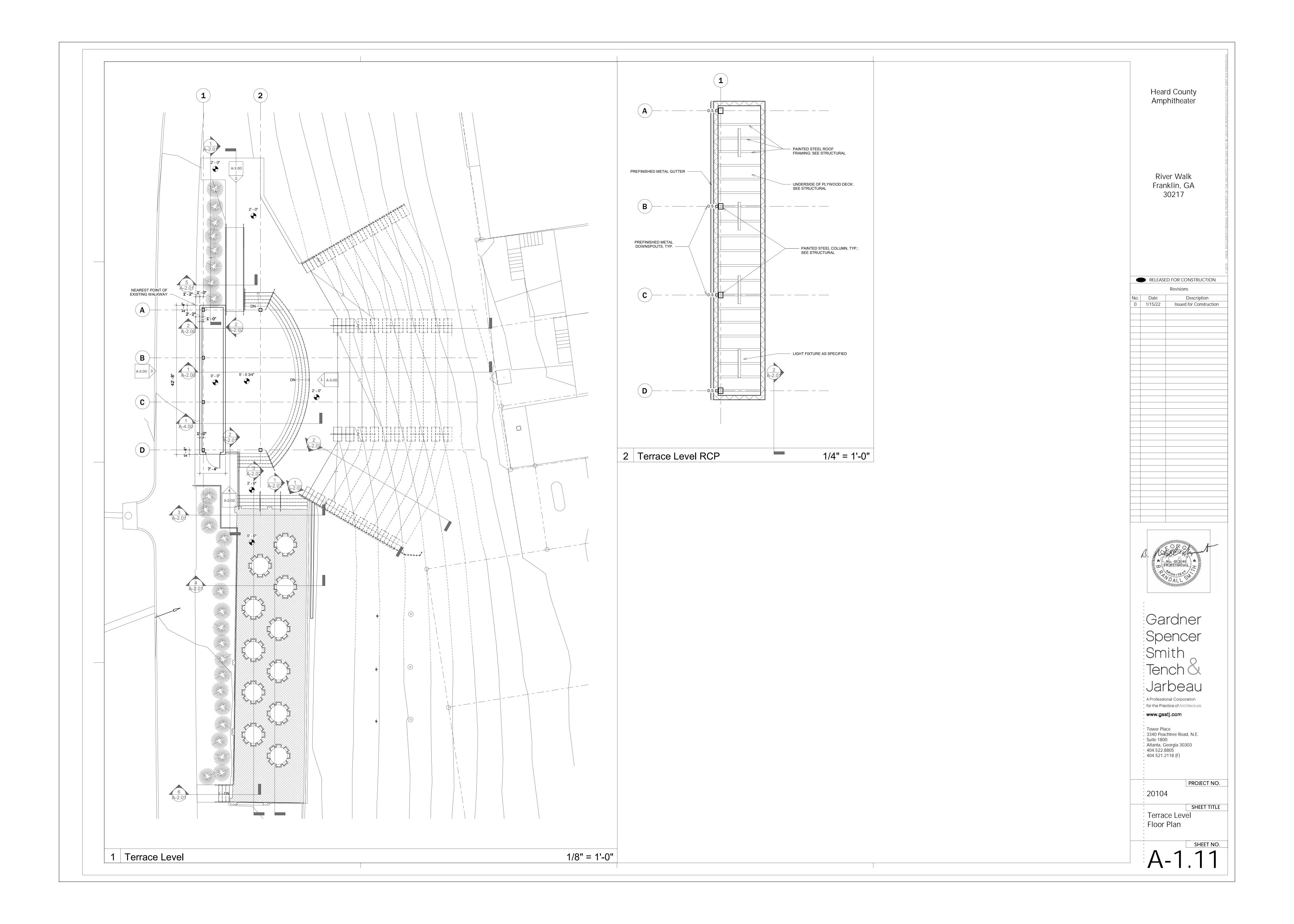
121 South Court Square Franklin, GA 30217

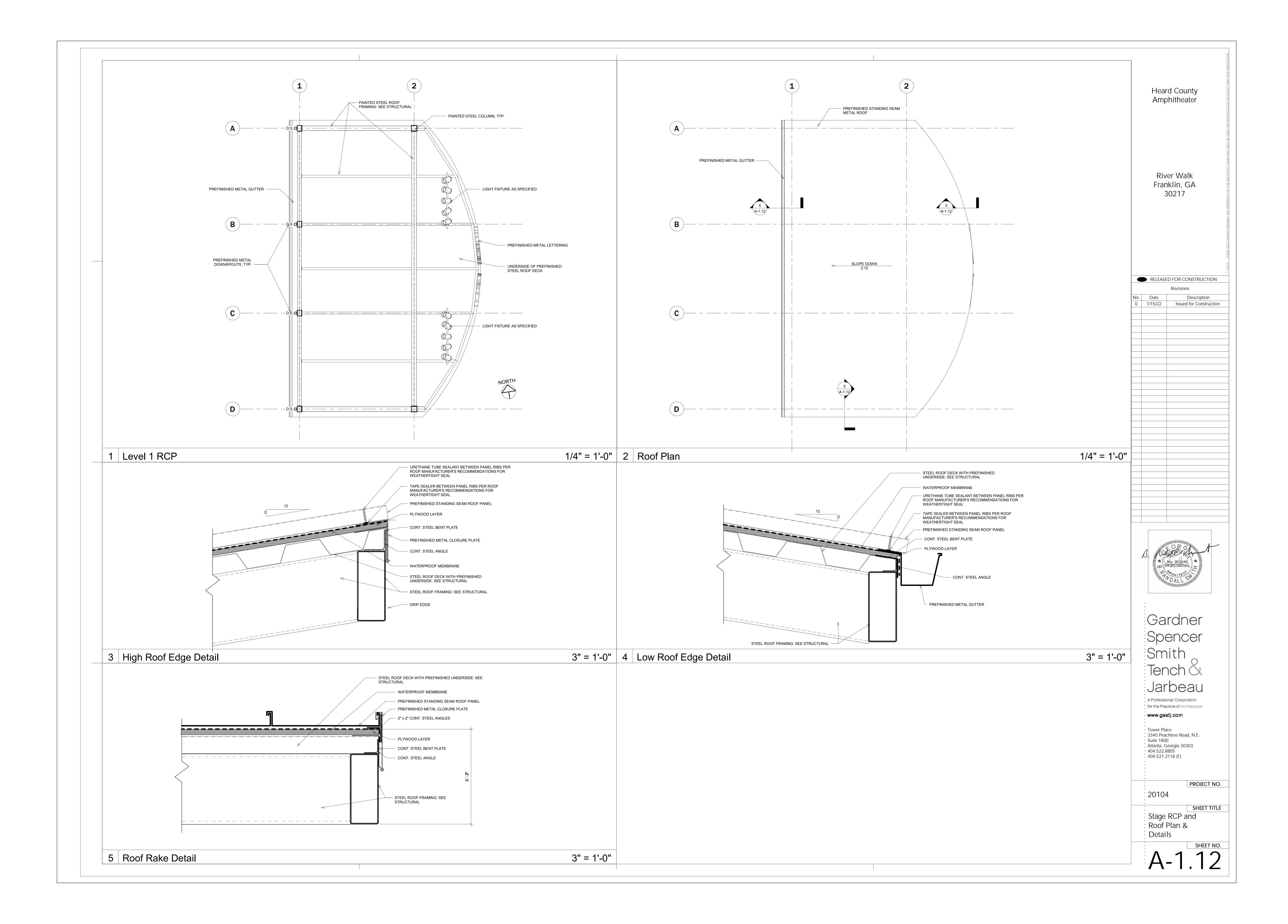
24-hr Contact Person: Kathy Knowles (706) 675-0554 kk@heardgeorgia.org

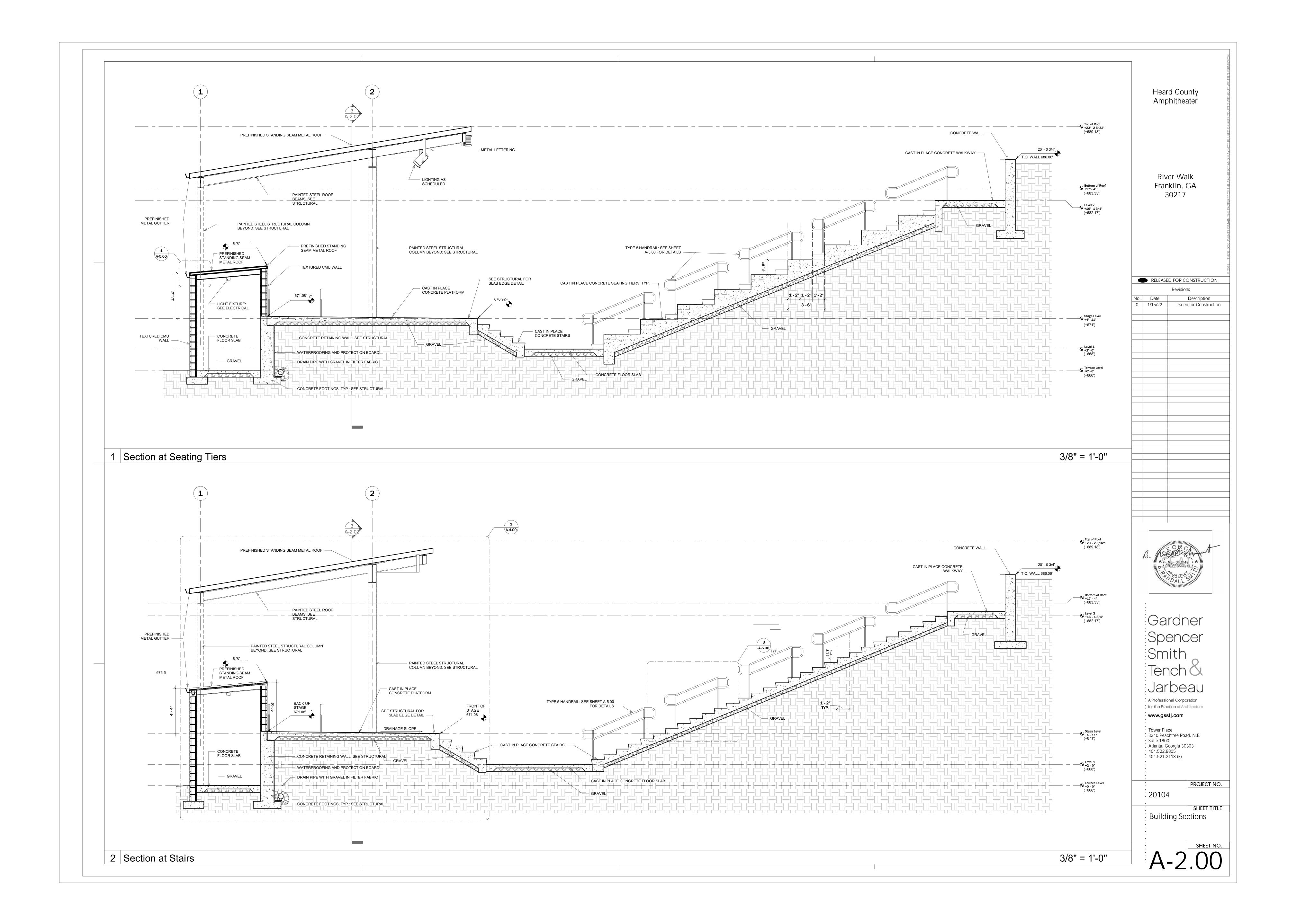
No. 23386 **PROFESSIONAL** 

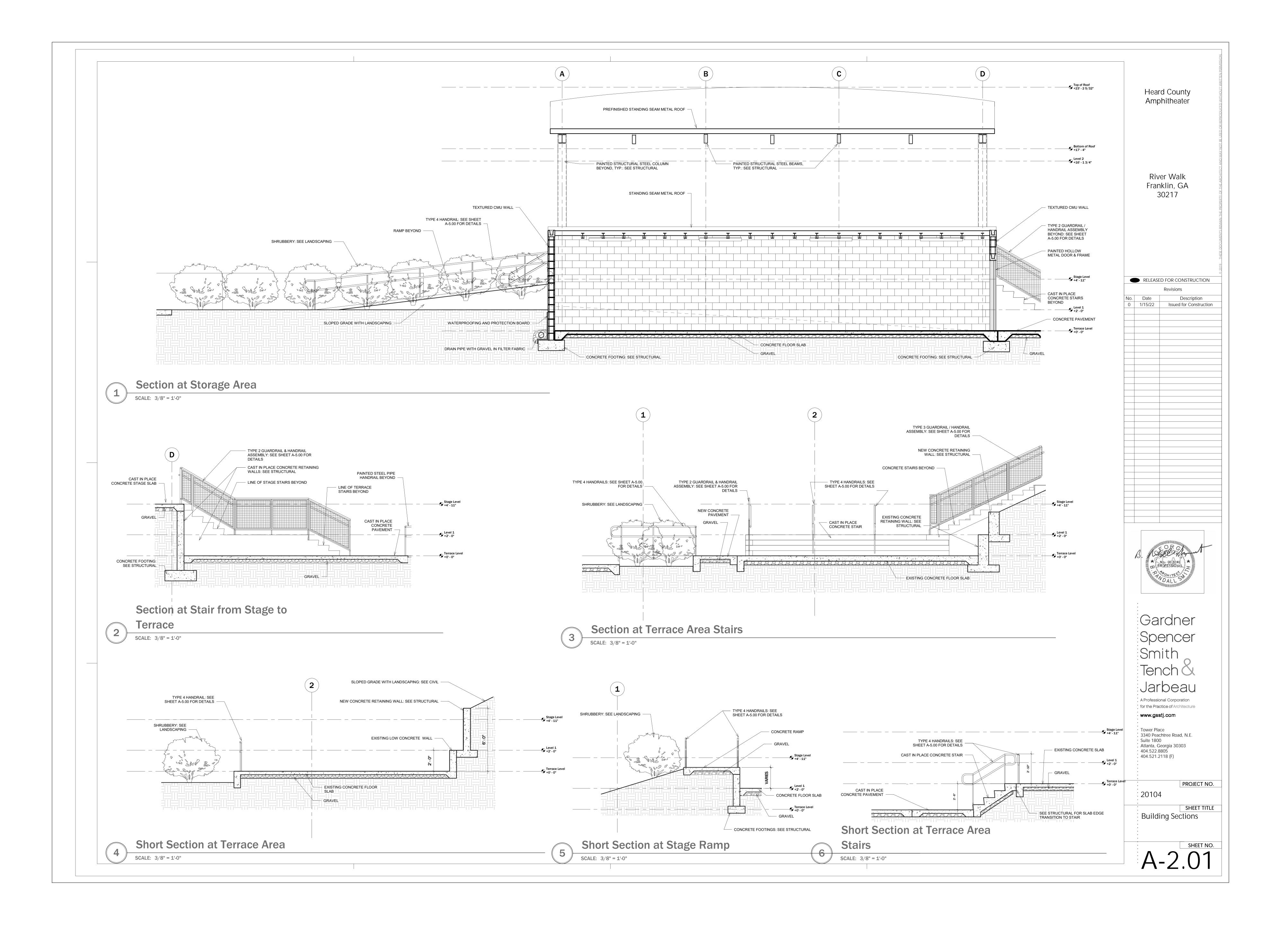
DES

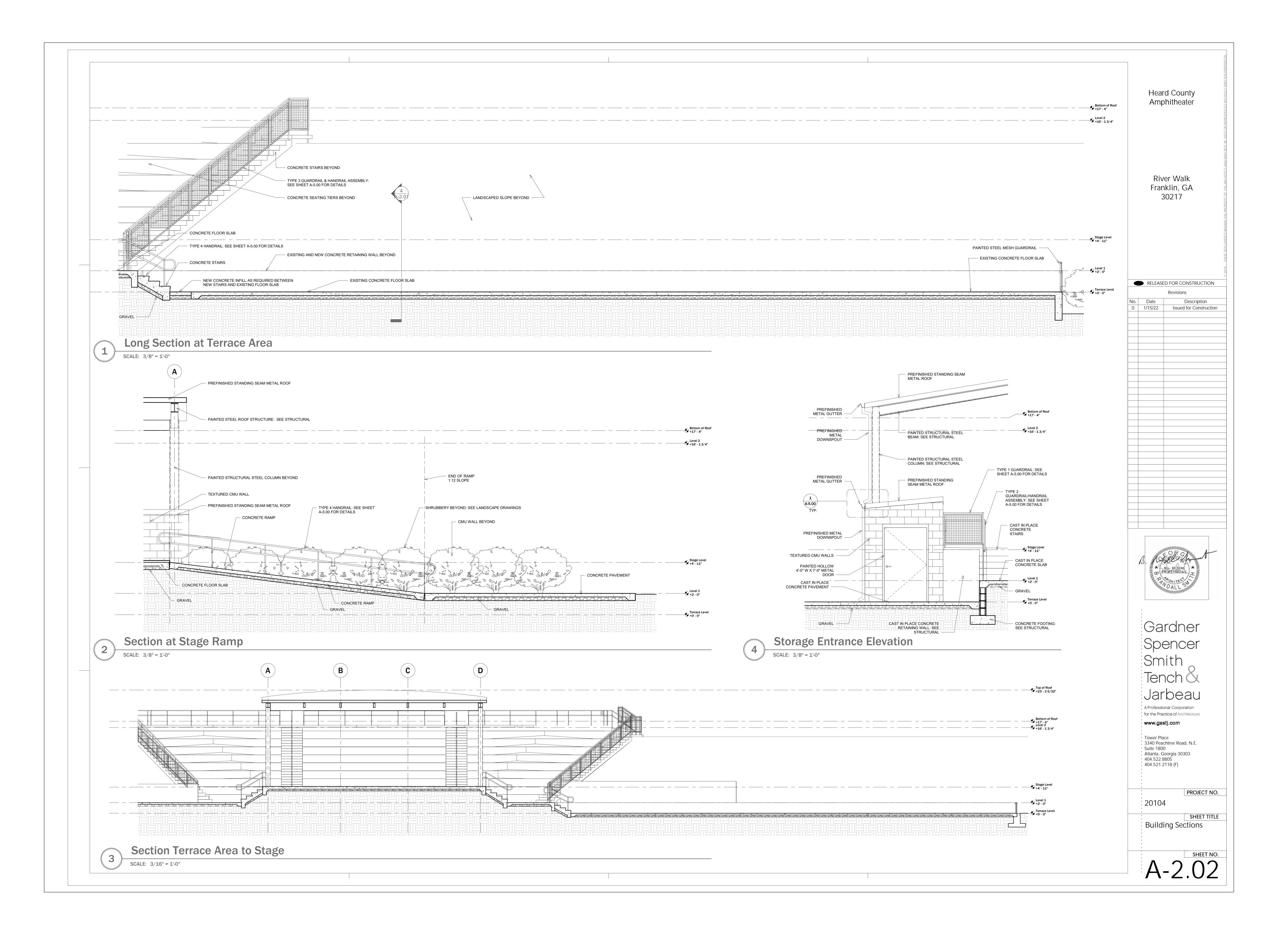


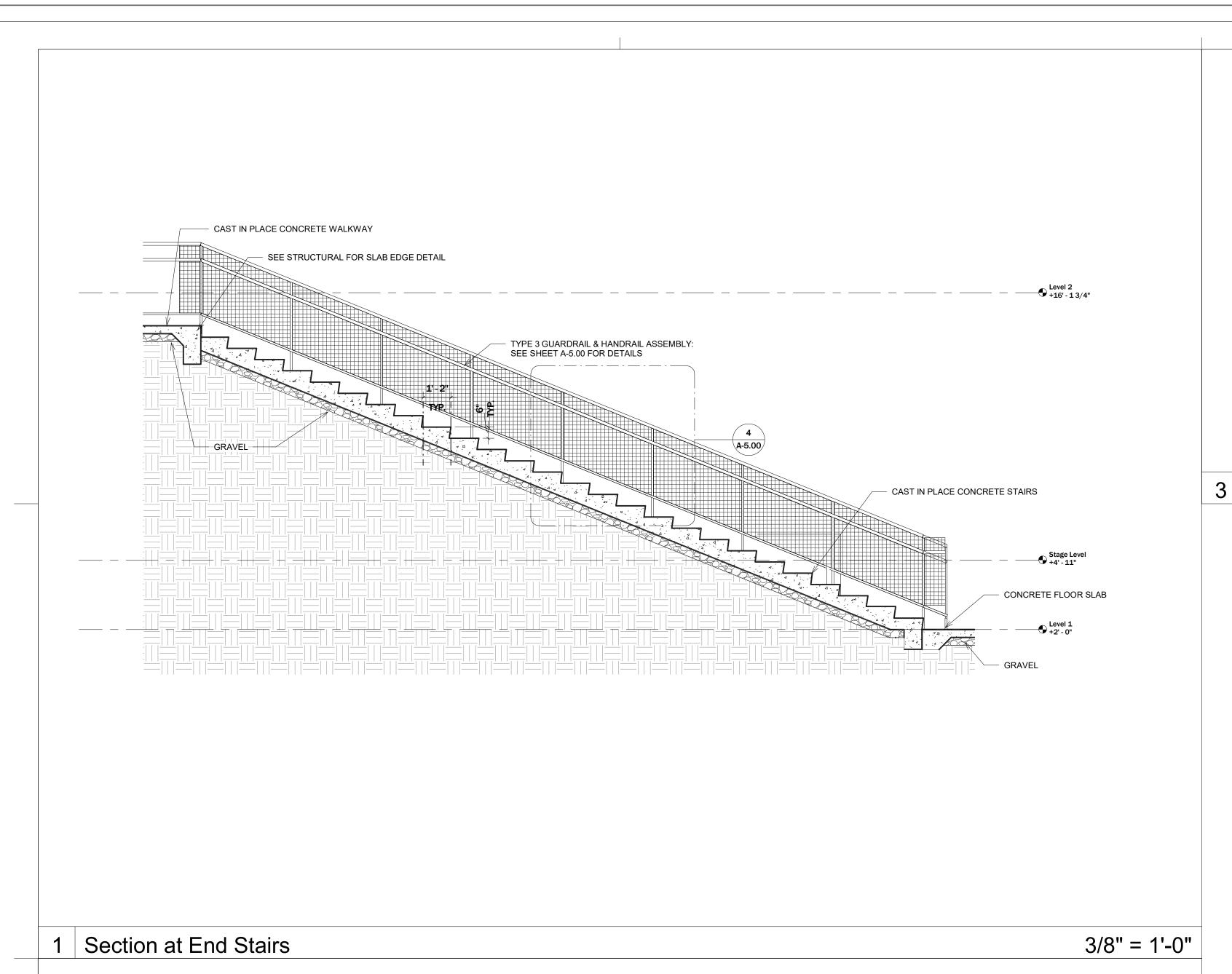












CAST IN PLACE CONCRETE WALKWAY

PAINTED STEEL MESH GUARDRAIL

SEE STRUCTURAL FOR SLAB EDGE DETAIL

GRAVEL

3 Section at Handicapped Seating

3/8" = 1'-0"

Heard County Amphitheater

River Walk Franklin, GA 30217

RELEASED FOR CONSTRUCTION

Revisions

No. Date Description

0 1/15/22 Issued for Construction

No. OF 31.45 \* WILLIAM DO FR DEET SIOVAL THE CT.

Gardner Spencer Smith Tench & Jarbeau

A Professional Corporation for the Practice of Architecture

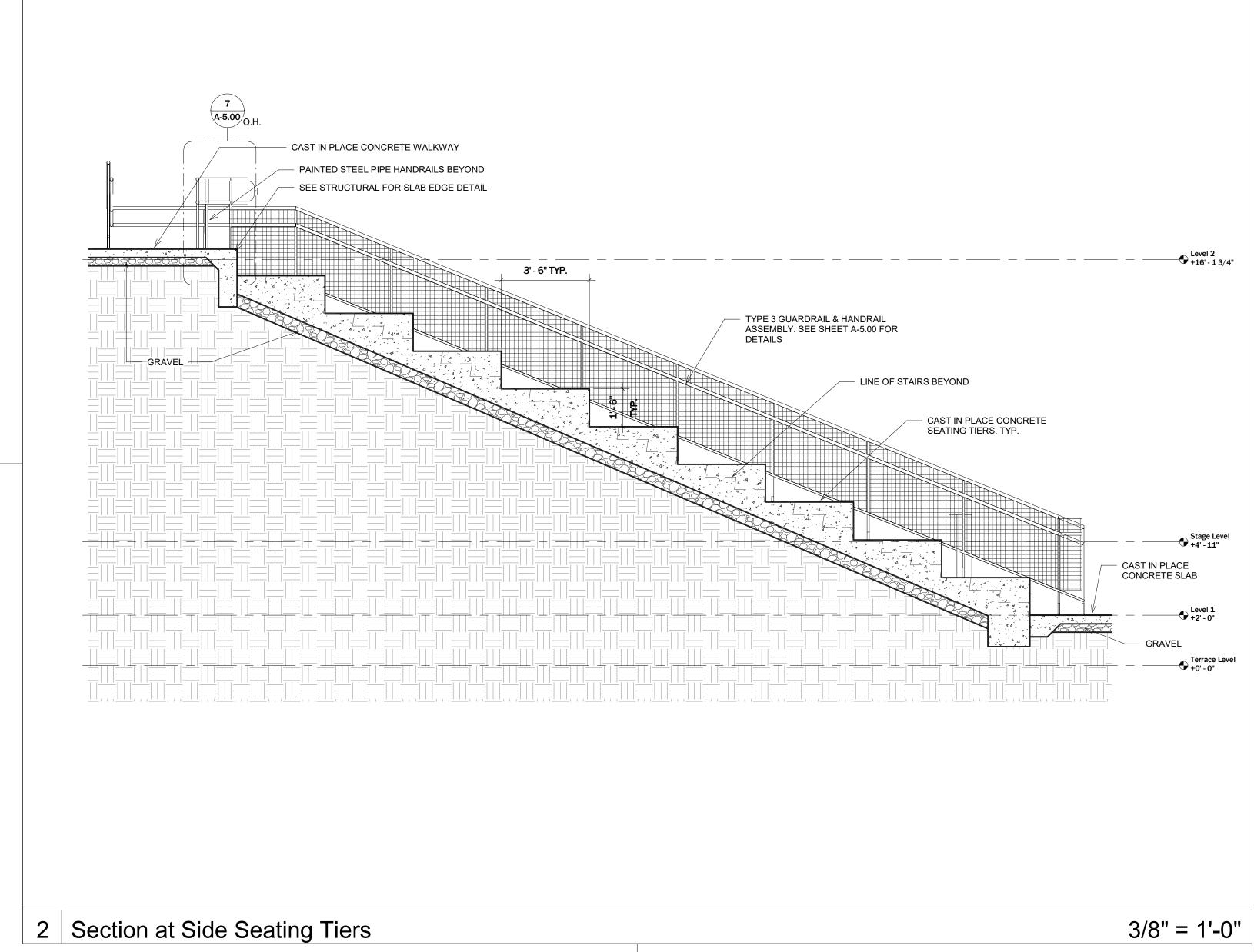
Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30303
404.522.8805
404.521.2118 (F)

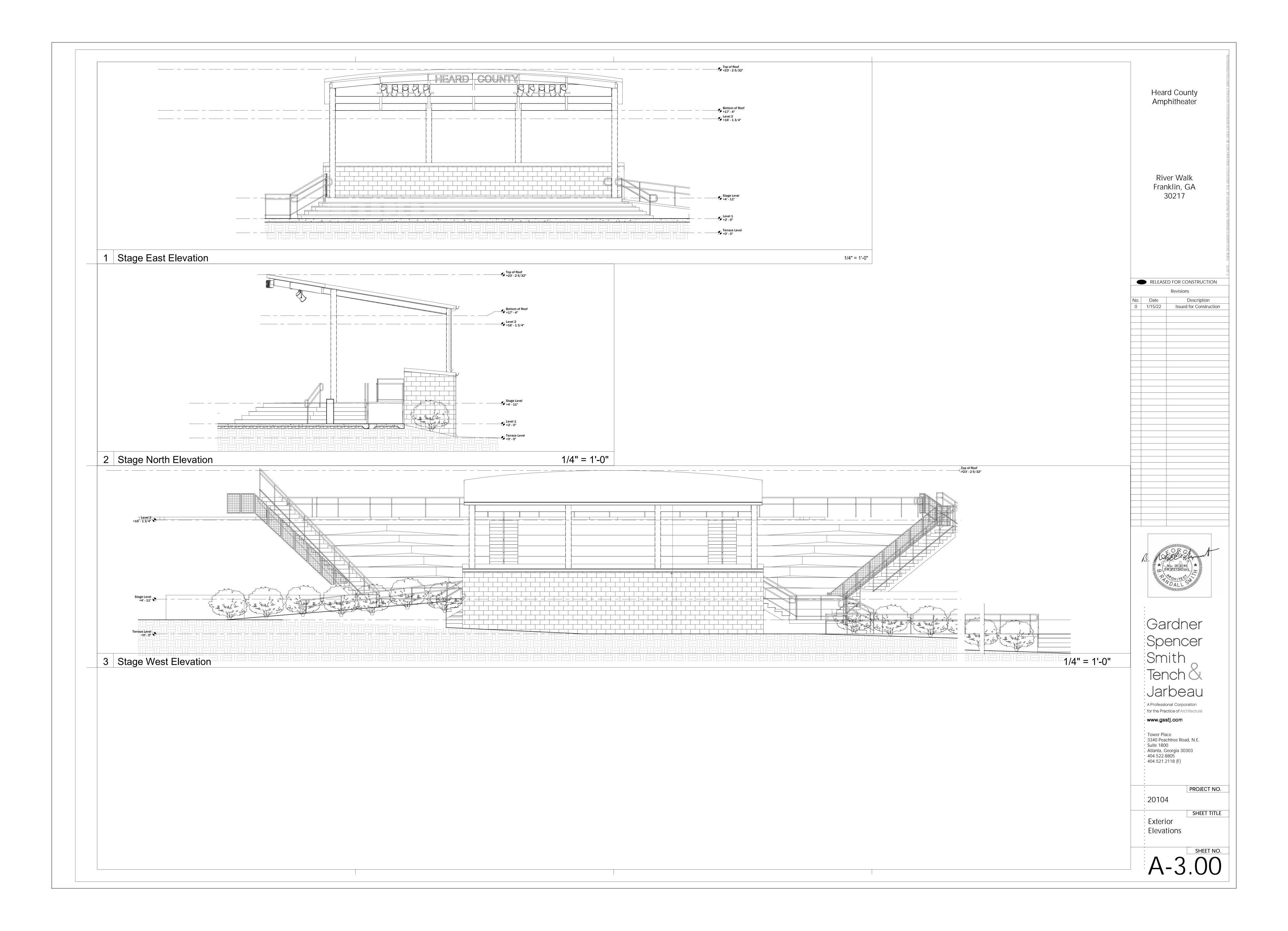
PROJECT NO.

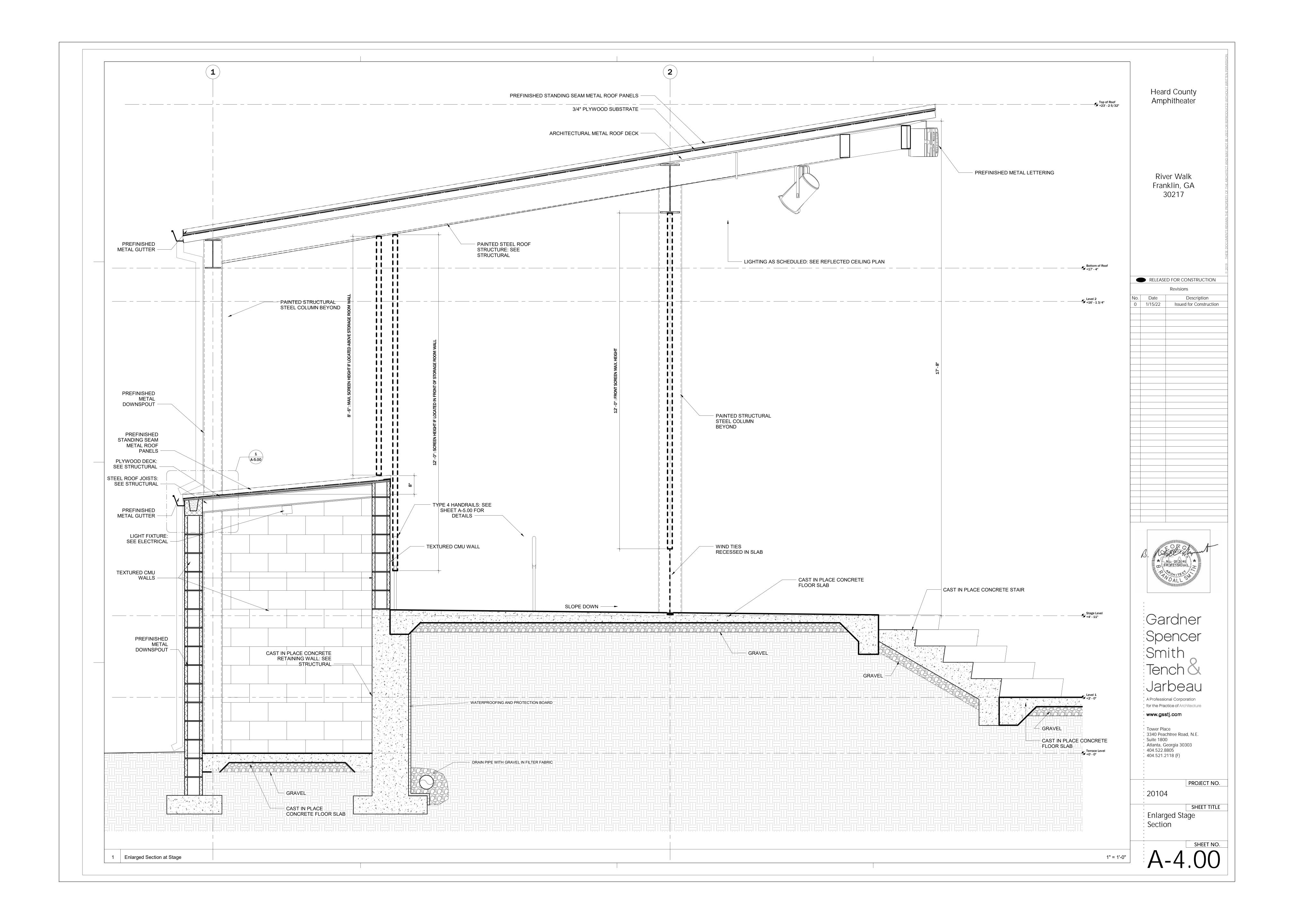
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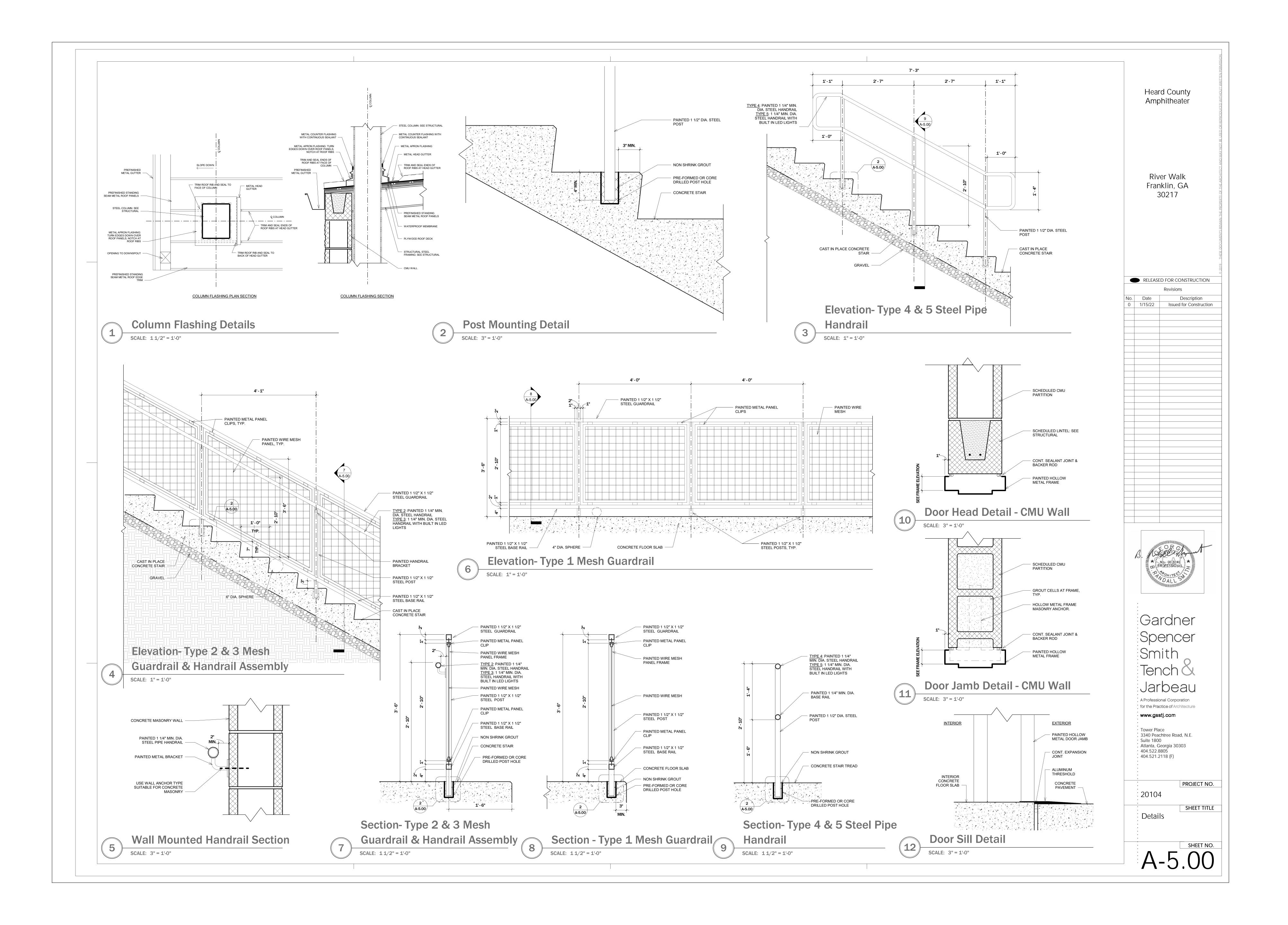
: SHEET TITLE : Building Sections

 $\Delta$  - 2 SHEET NO.









ABBREVIATIONS							
AB	– ANCHOR BOLT	INFO	- INFORMATION				
ALT	- ALTERNATE	INT	- INTERIOR				
APPROX	<ul><li>APPROXIMATELY</li></ul>	JT	- JOINT				
ARCH	<ul><li>ARCHITECT</li></ul>	KJ	- CONSTRUCTION JOINT				
ARCHL	<ul><li>ARCHITECTURAL</li></ul>	L	- ANGLE				
B/	- BOTTOM OF	LG	- LONG				
BGPE	- BOB GOODMAN, PE	LLH	- LONG LEG HORIZONTAL				
BLDG	- BUILDING	LLV	- LONG LEG VERTICAL				
BM	- BEAM	LP	- LOW POINT				
BOS BOTT	<ul><li>BOTTOM OF STEEL</li><li>BOTTOM</li></ul>	LW	- LONG WAY				
BRG	- BEARING	MFR	<ul><li>MANUFACTURER</li></ul>				
C/C	- CENTER TO CENTER	MAS	- MASONRY				
CH	- CHANNEL	MO	<ul><li>MASONRY OPENING</li></ul>				
CIP	- CAST IN PLACE	MATL	- MATERIAL				
CJ	- CONTRACTION JOINT	MAX	- MAXIMUM				
CL	- CENTERLINE	MEP	- MECHANICAL/ELECTRICAL/PLUMBING				
CLR	- CLEAR	MIN	<ul><li>MINIMUM</li><li>MISCELLANEOUS</li></ul>				
CMU	<ul> <li>CONCRETE MASONRY UNIT</li> </ul>	MISC NS	- MISCELLANEOUS - NEAR SIDE				
COL	- COLUMN	NIC	- NOT IN CONTRACT				
CONC	<ul><li>CONCRETE</li></ul>	NTS	- NOT TO SCALE				
CONFIG	<ul><li>CONFIGURATION</li></ul>	0/C	- ON CENTER				
CONT	- CONTINUOUS	OH	- OPPOSITE HAND				
CONTR	- CONTRACTOR	OPNG	- OPENING				
CTR	- CENTER	PART	- PARTITION				
DBL	– DOUBLE	PL	- PLATE				
DTL	- DETAIL	plf	<ul> <li>POUNDS PER LINEAR FOOT</li> </ul>				
DIA	- DIAMETER	, psf	<ul> <li>POUNDS PER SQUARE FOOT</li> </ul>				
DIM DN	<ul><li>DIMENSION</li><li>DOWN</li></ul>	psi	<ul> <li>POUNDS PER SQUARE INCH</li> </ul>				
DWG	- DOWN - DRAWING	PT	<ul> <li>POST TENSIONED/PRESSURE TREATED</li> </ul>				
EA	- EACH	REINF	- REINFORCING/REINFORCEMENT				
EE	- EACH END	REM	- REMAINDER				
EF	- EACH FACE	REQD	- REQUIRED				
EJ	- EXPANSION JOINT	REV	- REVISED/REVISION				
EL	<ul><li>ELEVATION</li></ul>	RO	- ROUGH OPENING				
ELEV	<ul><li>ELEVATOR</li></ul>	SCHED	- SCHEDULE				
EOD	- EDGE OF DECK	SECT SIM	- SECTION - SIMILAR				
EOS	- EDGE OF SLAB	SQ	- SQUARE				
EQ	<ul><li>EQUAL</li></ul>	STD	- STANDARD				
EW	- EACH WAY	SW	- SHEARWALL/SHORT WAY				
EXIST	- EXISTING	STL	- STEEL				
EXP	- EXPANSION	STRUCT	- STRUCTURAL				
FIN FLR	— FINISH — FLOOR	TG	- TRUSS GIRDER				
FLR FND	– FLOOR – FOUNDATION	TO	- THRU OUT				
FOM	- FACE OF MASONRY	T/	- TOP OF				
FS	- FAR SIDE	TOC	- TOP OF CONCRETE				
FT	- FOOT	TEMB	- TOP				
FTG	- FOOTING	TEMP TOS	- Temperature - Top of Steel				
GA	– GAUGE	TRC	- TRC WORLDWIDE ENGINEERING, INC.				
GALV	<ul><li>GALVANIZED</li></ul>	TYP	- TYPICAL				
GC	<ul> <li>GENERAL CONTRACTOR</li> </ul>	UNO	- UNLESS NOTED OTHERWISE				
HC	- HOLLOW CORE	VERT	- VERTICAL				
HG	- HIP GIRDER	VIF	- VERIFY IN FIELD				
HORIZ	- HORIZONTAL	W/	- WITH				
HP	- HIGH POINT	WD	- WOOD				
IJ	- ISOLATION JOINT	WWF	- WELDED WIRE FABRIC				
	L E	GE	N D				

III — ISOLATION JOINT WY	WI - WEEDED WINE FADING
L E G	E N D
ITEM SYMBOL	ITEM SYMBOL
CONCRETE EARTH CONCRETE BLOCK (CMU) BRICK  SECTION INDICATOR  DETAIL INDICATOR  1 S6.0	TOP OF FOOTING ELEVATION  SPOT ELEVATION  STEP IN FTG OR GRADE BM  CENTERLINE BEAM SPLICE  NUMBER (PRECEDING)  PLUS OR TENSION  MINUS OR COMPRESSION  POUNDS (FOLLOWING)  STEP IN STRUCTURE OR DEPRESSED SLAB
FOOTING TYPE TOP OF FOOTING ELEVATION  COLUMN TYPE  C3  F4.5  -2'-0"	TOP OF STEEL ELEVATION OR JOIST BEARING (JBE)  BOTTOM OF DECK ELEVATION  T/STL EL. +20'-8" OR (+20'-0")  B/DECK EL. +20'-8"

#### **STRUCTURAL GENERAL NOTES:**

#### **REINFORCEMENT:**

- 1. DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCING", AND CRSI MANUAL OF STANDARD
  - . REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED 3. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A1064 AND SHALL
- BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE EFFECTED PART OF THE WORK. 4. CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH
- PRIOR TO CONSTRUCTION AND REPORT ANY CONFLICTS TO THE ARCHITECT/ENGINEER. 5. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. CONTRACTOR SHALL DESIGN AND PROVIDE TEMPORARY SUPPORT, SHORING

1. ALL CONSTRUCTION AND DESIGN SHALL BE IN ACCORDANCE WITH THE

2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT

AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR ADDITIONAL

3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS (NEW AND

INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS.

SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING

INFORMATION AND DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

EXISTING) BEFORE EXECUTING ANY WORK, ANY DISCREPANCIES SHALL BE

ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS

- AND BRACING FOR ALL STRUCTURAL COMPONENTS DURING CONSTRUCTION. 6. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES AND PROCEDURES FOR CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION
- COMPLIES WITH OSHA REGULATIONS. 7. ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF GOODMAN GIANNAVOLA HINES ENGINEERS (GGHE). ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF

#### **DESIGN LOADS:**

- 1. THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS AND ASCE 7-16. 2. BUILDING RISK CATEGORY 3. DEAD LOADS: 15 PSF a. ROOF (TYPICAL, U.N.O.)
- 4. LIVE LOADS: a. ROOF (TYPICAL, U.N.O.) 20 PSF b. ASSEMBLY AREAS, LOBBIES, STAIRS 100 PSF 5. SNOW LOADS: 5.0 PSF a. GROUND SNOW LOAD, Pg 6. WIND LOADS:
- a. BASIC WIND SPEED: 115 MPH V (ULT) V (ASD) 89 MPH b. WIND EXPOSURE CATEGORY ±0.18 c. INTERNAL PRESSURE COEFFICIENT d. COMPONENTS AND CLADDING PRESSURES:

ZONE	1'	1	2	3	4	5
A=10	+16.0 -21.4	+16.0 -37.3	+16.0 -49.2	+16.0 -67.0	+23.4 -25.4	+23.4 -31.3
A=20	+16.0 -21.4	+16.0 -34.8	+16.0 -46.0	+16.0 -60.7	+22.4 -24.3	+22.4 -29.2
A=50	+16.0 -21.4	+16.0 -31.6	+16.0 -41.8	+16.0 -52.3	+21.0 -22.9	+21.0 -26.4
A=100	+16.0 -21.4	+16.0 -29.1	+16.0 -38.7	+16.0 -46.0	+19.9 -24.9	+19.9 -24.3

#### A = EFFECTIVE WIND AREA IN SQ. FT.EDGE DISTANCE, a = 18'-0" (ROOF); 12'-0" (WALL)

7. SEISMIC LOADS:	1.0
a. SEISMIC IMPORTANCE FACTOR, I	1.0
b. MAPPED SPECTRAL RESPONSE ACCELERATIONS:	
Ss 0.159	
S1 0.082	_
c. SITE CLASS	D
d. SPECTRAL RESPONSE COEFFICIENTS:	
SDS 0.170	
SD1 0.131	
e. SEISMIC DESIGN CATEGORY	В
f. BASIC SEISMIC-FORCE-RESISTING SYSTEM:	
CANTILEVERED COLUMN SYSTEMS	
ORDINARY MOMENT FRAMES	
g. RESPONSE MODIFICATION FACTOR, R	1.25
h. SEISMIC RESPONSE COEFFICIENT, Cs	0.136
i. DESIGN BASE SHEAR	1 kip
1. DESIGN DASE SHEAR	i Kip

### **SHOP DRAWINGS:**

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND SPECIFIC REQUIREMENTS OF

j. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

- THIS PROJECT. 2. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS,
- DIMENSIONS, ETC. 3. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE ARCHITECT/ENGINEER. SHOP DRAWINGS SHALL BE REVIEWED, STAMPED AND SIGNED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.
- 4. REVIEW OF SUBMITTALS AND SHOP DRAWINGS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATIONS OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
- 5. REPRODUCTION OF ANY PORTION OF THE CONTRACT DOCUMENTS FOR SUBMITTALS OR SHOP DRAWINGS IS NOT PERMITTED AND SHALL RESULT IN
- REJECTION OF THAT SUBMITTAL OR SHOP DRAWING. 6. CONTRACT DOCUMENTS WILL GOVERN OVER SUBMITTALS AND SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER. BE REVIEWED.

#### **FOUNDATIONS:**

- 1. THE FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS OF PIEDMONT GEOTECHNICAL CONSULTANTS, LLC GEOTECHNICAL REPORT ENTITLED "REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION, HEARD COUNTY AMPHITHEATER, FRANKLIN, GEORGIA", PGC PROJECT NO. 120451 DATED DECEMBER 15, 2020 THIS GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. SEE THIS GEOTECHNICAL REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND
- INSTALLATION PROCEDURES 2. THE FOUNDATION DESIGN IS BASED ON A PRESUMED NET ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF FOR SHALLOW FOOTINGS, WALL FOOTINGS
- 3. SLAB-ON-GRADE SHALL BE PLACED OVER A 4" MIN. GRADED AGGREGATE STONE 4. A REGISTERED GEOTECHNICAL ENGINEER SHALL VERIFY THE DESIGN SOIL
- BEARING CAPACITY AND WALL DESIGN VALUES AND SHALL VERIFY THE CONDITION AND/OR ADEQUACY OF ALL SUBGRADE, FILL AND BACKFILL PRIOR TO PLACEMENT OF FOOTINGS, SLABS OR WALLS. 5. CONCRETE FOR FOOTINGS SHALL BE PLACED IMMEDIATELY AFTER FINAL INSPECTION AND ACCEPTANCE BY THE GEOTECHNICAL ENGINEER. IN NO
- CASE SHALL FOOTING EXCAVATIONS BE ALLOWED TO STAND OPEN OVERNIGHT OR DURING RAIN. 6. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOOTINGS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO
- 7. FOUNDATION WALLS ARE DESIGNED FOR THE FOLLOWING ASSUMED DESIGN LOADS: a. SOIL WEIGHT: b. AT-REST PRESSURE: (BRACED AT TOP) 60.0 PCF c. ACTIVE PRESSURE: 42.0 PCF d. PASSIVE PRESSURE: 293.0 PCF e. FRICTION COEFFICIENT: 0.35

- BE LAPPED A MINIMUM OF 2 SQUARES. PROVIDE ALL WWF IN FLAT SHEETS
- 4. DEFORMED BAR ANCHORS (DBA'S) SHALL CONFORM TO ASTM A496. D.B.A.'S SHALL BE WELDED PER MANUFACTURER'S RECOMMENDED PROCEDURES, EQUIPMENT, FLUX, ETC.
- SUBMIT SHOP DRAWINGS THAT ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. SHOP DRAWINGS SHALL INCLUDE ADEQUATE SECTIONS, ELEVATIONS AND DETAILS, WRITTEN DESCRIPTIONS ARE NOT **ACCEPTABLE**
- 6. TIE ALL REINFORCING AND EMBEDS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT AND EMBEDS WITHIN SPECIFIED TOLERANCES DURING ALL
- CONSTRUCTION ACTIVITIES. 7. PROVIDE DOWELS FROM FOUNDATION, UNO. DOWELS SHALL MATCH SIZE AND SPACING OF VERTICAL WALL OR COLUMN REINFORCING
- 8. PROVIDE CONTINUOUS REINFORCING WHERE POSSIBLE, SPLICE ONLY AS SHOWN ON DRAWINGS OR AS APPROVED BY STRUCTURAL ENGINEER. BARS MARKED AS CONTINUOUS CAN BE SPLICED AS DETERMINED BY CONTRACTOR. STAGGER SPLICES WHERE POSSIBLE. REFER TO DRAWINGS FOR
- SPLICE LENGTH, WHERE NOT SPECIFIED USE "CLASS B" TENSION SPLICE. 9. DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.
- 10. MECHANICAL SPLICING DEVICES SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH (FY) OF THE BAR. STAGGER MECHANICAL SPLICES WHERE 11. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER
- UNLESS NOTED OTHERWISE: CONCRETE CAST AGAINST EARTH (NOT FORMED) FORMED CONCRETE EXPOSED TO EARTH OR WEATHER #6 BARS AND LARGER #5 BARS AND SMALLER 1-1/2" CONCRETE NOT EXPOSED TO EARTH OR WEATHER

#### CAST-IN-PLACE CONCRETE

SLABS AND WALLS

- 1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- 2. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C94 FOR MEASURING, BATCHING, MIXING, TRANSPORTING, ECT.
- 3. CONCRETE SHALL MEET THE REQUIREMENTS OF ASTM C150 FOR CEMENT, ASTM C33 FOR COARSE AGGREGATE AND ASTM C330 FOR LIGHTWEIGHT
- 4. SUBMIT A PROPOSED MIX DESIGN FOR EACH TYPE OF CONCRETE FOR APPROVAL. MIX DESIGNS SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. SUBMIT TESTED, STATISTICAL BACK-UP DATA PER ACI REQUIREMENTS FOR EACH MIX DESIGN. CONCRETE MIX DESIGNS SHALL INCLUDE WRITTEN DESCRIPTIONS INDICATING WHERE EACH
- MIX IS TO BE PLACED WITHIN THE STRUCTURE. 5. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS: NORMAL WEIGHT UNO (MAX. WEIGHT = 150 PCF) & W/CM MAX=0.5 3,000 PSI FOUNDATIONS, PIERS 3,000 PSI

BASEMENT WALLS, RETAINING WALLS

SLAB-ON-GRADE, EXT. STAIRS/SEATING

6. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (11/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE

3,500 PSI

- 7. USE OF CALCIUM CHLORIDE, CHLORIDE IONS OR OTHER SALTS IN CONCRETE IS NOT PERMITTED. 8. CONTRACTOR SHALL SUBMIT A PLAN SHOWING LOCATION OR ALL CONSTRUCTION AND CONTROL JOINTS FOR APPROVAL PRIOR TO
- CONSTRUCTION. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. 9. CONTRACTOR SHALL COORDINATE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR PIPES, SLEEVES, DUCTS, ECT. PENETRATING SLABS AND WALLS. MINIMUM SLEEVE SPACING SHALL BE THREE DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE OR 6" CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER. PENETRATIONS LARGER THAN 6" OR GROUPS OF PENETRATIONS SHALL BE REINFORCED PER TYPICAL OPENING REINFORCING DETAILS. PRIOR TO CONSTRUCTION, SLEEVE LOCATIONS AND SIZES SHALL BE APPROVED BY ENGINEER.
- 10. HORIZONTAL REINFORCEMENT IN FOOTINGS, TURNDOWN SLABS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS 11. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, CHAMFERS, GROOVES,
- FINISHES, DEPRESSIONS, EMBEDDED ITEMS, ACCESSORIES, ETC. 12. CONSTRUCTION AND/OR CONTROL JOINTS FOR SLAB ON GRADE REINFORCED WITH WELDED WIRE FABRIC SHALL BE PROVIDED AT COLUMN LINES AND INTERMEDIATE LOCATIONS SO THAT THE MAXIMUM AREA OF SLAB-ON-GRADE BETWEEN JOINTS SHALL NOT EXCEED 400 SQUARE FEET. ASPECT RATIO OF JOINTS SHALL NOT EXCEED 1.5. CONTROL JOINTS SHOWN ON FOUNDATION PLAN ARE FOR REFERENCE ONLY. CONTRACTOR SHALL DEVELOP A CONTROL JOINT PLAN BASED ON THIS CRITERIA AND SUBMIT TO THE ARCHITECECT/ENGINEER FOR APPROVAL PRIOR TO PLACING
- CONCRETE 13. PROVIDE TWO #4 BARS X 4'-0" AT SLAB MID-DEPTH, 3 INCHES APART AT ALL RE-ENTRANT CORNERS AND INTERSECTIONS AND AT ALL
- DISCONTINUOUS CONTROL JOINTS IN SLABS-ON-GRADE. 14. IN AREAS WHERE WATER VAPOR TRANSMISSION THROUGH FLOOR SLAB IS A CONCERN OR DETRIMENTAL TO FLOOR FINISHES, VAPOR TRANSMISSION AND GLUE TEST FOR FLOOR FINISHES SHALL BE PERFORMED PER
- MANUFACTURER OF FINISH MATERIAL REQUIREMENTS. 15. AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST-IN-PLACE CONCRETE:
- a. SLUMP PER ASTM C143, TO BE TAKEN WHEN EACH SET OF CYLINDERS IS PREPARED. SLUMP RANGE SHALL BE 3 TO 5 INCHES. b. COMPRESSIVE STRENGTH PER ASTM C31 AND ASTM C39. A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS PLACED IN ANY DAY, FOR EVERY 100 CUBIC YARDS, OR EVERY 5,000 SQUARE FEET OF SURFACE AREA. BREAK ONE (1) CYLINDER AT SEVEN DAYS, TWO (2) CYLINDERS AT TWENTY-EIGHT DAYS, AND HOLD ONE CYLINDER IN RESERVE. RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. c. AIR CONTENT PER ASTM C231 AND C173, TO BE TAKEN EACH TIME A SET OF CYLINDERS IS PREPARED.
- 16. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45 AND SHALL BE AIR ENTRAINED 5%±1

- 1. MASONRY UNITS SHALL CONFORM TO ASTM C-90 AND SHALL HAVE A NET AREA COMPRESSIVE STRENGTH (f'm) OF 1500 psi AT 28 DAYS. MORTAR SHALL BE TYPE "S" WITH A COMPRESSIVE STRENGTH OF NOT LESS THAN 1800 psi AT 28 DAYS, AND SHALL CONFORM TO ASTM C-270. GROUT SHALL BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476.
- SUBMIT PROPOSED MIX DESIGN FOR REVIEW PRIOR TO USE. 2. VERTICAL REINFORCING BARS SHALL BE CENTERED IN GROUT FILLED BLOCK CELLS AT CORNERS, INTERSECTIONS, EACH SIDE OF OPENINGS OVER 2 FEET WIDE, AND AS SHOWN ON THE PLANS. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE AND/OR BELOW, UNLESS NOTED OTHERWISE. USE STEEL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO AREA REQUIRED
- 3. PROVIDE HORIZONTAL 8" DEEP BOND BEAM, GROUTED SOLID, WITH (2) #5 CONT. REINFORCING BARS AT THE TOP OF ALL WALLS & AS SHOWN IN DRAWINGS. REINFORCING BARS SHALL BE CONTINUOUS THROUGH CONTROL JOINTS, PROVIDE (2) #5 x 2'-6" CORNER BARS AT ALL CORNERS AND INTERSECTIONS.
- 4. REINFORCEMENT IN MASONRY WALLS SHALL HAVE LAP SPLICES PER 4/S-202. 5. PROVIDE 9 GAUGE LADDER TYPE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O-WALL OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK
- 6. BLOCK SHALL BE PLACED IN RUNNING BOND. 7. CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION AT LOCATIONS INDICATED ON THE ARCHITECTURAL DRAWINGS. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS, BOND BEAM OR TIE BEAM REINFORCING SHALL BE CONTINUOUS THROUGH WALL CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS.
- 8. UNLESS NOTED OTHERWISE, ALL MASONRY SHALL BE REINFORCED WITH #5 VERTICAL REINFORCEMENT IN GROUTED CELLS @ 24" O.C.

#### STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO "THE SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE "MANUAL OF STEEL CONSTRUCTION" BY THE AMERICAN INSTITUTE OF
- STEEL CONSTRUCTION, INC. 2. MATERIAL REQUIREMENTS, UNO: a. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. CHANNELS, PLATES
- AND OTHER MISC. SHAPES SHALL CONFORM TO ASTM A36. b. STRUCTURAL TUBING (HSS) SHALL CONFORM TO ASTM A500, GRADE C,
- Fy = 50 ksi. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53 GRADE B, TYPE E OR S, Fy = 35 ksi. c. BOLTED CONNECTIONS SHALL CONSIST OF A MINIMUM 3/4" DIAMETER
- ASTM F3125 A325 HIGH STRENGTH BOLTS. d. WELDING ELECTRODES SHALL CONFORM TO AWS 5.1 OR A5.5 E-70XX (LOW-HYDROGEN FOR SMAW WELDING).
- e. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36 THREADED
- f. GROUT BELOW BASE PLATES SHALL BE HIGH-STRENGTH, NON-SHRINK, NONSTEELLIC GROUT, WITH A 28 DAY MINIMUM COMPRESSIVE STRENGTH
- g. HEADED ANCHORS FOR OTHER THAN COMPOSITE FLOOR SYSTEM SHALL BE 3/4" DIAMETER WITH AN AFTER WELD LENGTH OF 5" AND SHALL CONFORM TO ASTM A108, UNLESS NOTED OTHERWISE. SHEAR CONNECTORS: PROVIDE AWS D1.1, TYPE B, 3/4" DIAMETER, SOLID FLUXED HEADED SHEAR CONNECTOR STUDS AUTOMATICALLY END WELDED
- THROUGH THE STEEL DECK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER 4. DEFORMED BAR ANCHORS (DBA'S): FLUX FILLED BARS AUTOMATICALLY WELDED TO STRUCTURAL STEEL IN ACCORDANCE WITH THE RECOMMENDATION
- OF THE MANUFACTURER. PROVIDE MATERIAL WITH MINIMUM YIELD STRENGTH OF 60 KSI. BEAM CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR THE REACTIONS SHOWN ON THE PLANS BUT CONNECTIONS SHALL NOT HAVE LESS THAN 2 ROWS OF BOLTS NOR BE DESIGNED FOR LESS THAN 10 KIPS (LRFD). CONNECTIONS SHALL BE DESIGNED AS BEARING-TYPE CONNECTIONS WITH THREADS IN THE SHEAR PLANE. SUBMIT CALCULATIONS, SIGNED AND SEALED, BY AN ENGINEER LICENSED AND
- INSURED IN THE STATE OF GEORGIA. 6. ALL BRACING CONNECTIONS SHALL DEVELOP THE FORCE NOTED ON THE DRAWINGS. IF FORCE IS NOT NOTED ON DRAWINGS, THE BRACING CONNECTION SHALL DEVELOP THE ALLOWABLE TENSION FORCE IN THE MEMBER. BRACING CONNECTIONS SHALL BE DESIGNED AND DETAILED SO THAT ALL FORCE COMPONENTS WILL BE TRANSMITTED DIRECTLY TO THE CENTER OF GRAVITY OF INTERSECTING MEMBERS. WHERE THIS IS NOT POSSIBLE, CONNECTIONS SHALL BE DESIGNED FOR ALL RESULTING ECCENTRICITIES, BOLTED BRACING CONNECTIONS SHALL BE CONNECTED WITH A MINIMUM OF TWO BOLTS. GUSSET PLATES SHALL BE DESIGNED BY THE FABRICATOR. SUBMIT CALCULATIONS, SIGNED AND SEALED, BY AN ENGINEER LICENSED AND INSURED IN THE STATE OF
- ALL BEAM CONNECTIONS SHALL BE STANDARD FRAMED, SEATED END, OR SINGLE-PLATE SHEAR CONNECTIONS AS SHOWN IN PART 10 OF THE AISC MANUAL OF STEEL CONSTRUCTION.
- 8. IN GENERAL, CONNECTIONS SHALL BE FIELD BOLTED. ALL BOLTS DESIGNATED "SLIP CRITICAL" OR "FULLY TIGHTENED" SHALL BE TIGHTENED TO THE MINIMUM PRETENSION VALUE SHOWN IN TABLE J3.1 OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. IN ADDITION. CONNECTIONS DESIGNATED "SLIP CRITICAL" SHALL HAVE PROPERLY PREPARED FAYING SURFACES TO MEET CLASS A SURFACE CONDITION, U.N.O. "SLIP CRITICAL" CONNECTIONS SHALL INCLUDE ALL BOLTS IN MOMENT CONNECTIONS. "FULLY TIGHTENED" CONNECTIONS SHALL INCLUDE ALL BOLTS LOADED IN DIRECT TENSION (SUCH AS HANGERS), BRACED FRAME CONNECTIONS, GIRT CONNECTIONS & MEMBERS THAT ARE PART OF THE MAIN LATERAL RESISTING SYSTEM. DIRECT TENSION INDICATOR (DTI) WASHERS OR TENSION CONTROL BOLTS (TCB'S) SHALL BE USED AT THESE
- CONDITIONS. ALL OTHER BOLTS SHALL BE, AT MINIMUM, SNUG TIGHT. WELDING SHALL BE PERFORMED BY WELDERS WITH CURRENT CERTIFICATION USING ASTM E70 SERIES LOW HYDROGEN ELECTRODES. WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS. FABRICATION SHOP DRAWING SHALL REFLECT WELDS IN ACCORDANCE WITH AWS REQUIREMENTS. SHOP DRAWINGS SHALL DETAIL ALL SHOP AND FIELD WELDS. SHOP AND FIELD WELD SHOWN ON DRAWINGS FOR CONCEPT, GENERAL CONTRACTOR SHALL COORDINATE WELDING SEQUENCE REQUIREMENTS.
- 10. PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE
- 11. STEEL SHALL RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH UP COAT OF APPROVED PAINT, EXCEPT WHERE STEEL IS ENCASED IN CONCRETE OR FIREPROOFING, SURFACES RECEIVING WELDED SHEAR CONNECTORS IN THE FIELD CONNECTIONS DESIGNATED AS SLIP-CRITICAL TYPE, OR STEEL TO BE GALVANIZED
- 12. UNLESS NOTED OTHERWISE, ALL EXPOSED STRUCTURAL AND MISCELLANEOUS STEEL PLATES, BOLTS, AND ANCHORS SHALL BE GALVANIZED OR PAINTED WITH APPROVED RUST INHIBITING PRIMER. CLEAN AREAS WHERE GALVANIZING IS DAMAGED OR MISSING AND REPAIR GALVANIZING TO COMPLY WITH ASTM A 780.
- 13. ALL MEMBERS NOTED AS "AESS" SHALL COMPLY WITH THE CLASSIFICATION NOTED IN ACCORDANCE WITH AISC DEFINITIONS OR THE ARCHITECTURAL SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. SEE ARCH. FOR ALL PAINTING AND PREPARATION REQUIREMENTS AND MATERIAL SPECIFICATIONS

#### POST-INSTALLED ANCHORS:

- 1. UNLESS NOTED OTHERWISE, POST-INSTALLED CONCRETE ANCHORS SHALL COMPLY WITH ICC-ES ACCEPTANCE CRITERIA FOR ANCHORS IN CRACKED CONCRETE AND SEISMIC APPLICATIONS. 2. PLACE POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR
- AND EMBEDMENTS. 3. PROPER INSTALLATION OF POST-INSTALLED ANCHORS SHALL BE VERIFIED BY A QUALIFIED TECHNICIAL IN ACCORDANCE WITH THE PROJECT REQUIREMENTS AND THE ICC—ES REPORT. THE TECHNICIAN SHALL VERIFY THE INITIAL INSTALLATION OF EACH TYPE OF ANCHOR AND PERIODICALLY VERIFY INSTALLATIONS THEREAFTER.
- 3. MECHANICAL ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE MECHANICAL ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING: \* SIMPSON STRONG-TIE TITEN HD (ICC-ES ESR-2713) \* POWERS FASTENERS WEDGE BOLT+ (ICC-ES ESR-2526)
- \* HILTI KWIK HUS-EZ/KH-EZ (ICC-ES ESR-3027) 4. ADHESIVE ANCHORS, INCLUDING REBAR, FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. ADHESIVE ANCHORS SHALL BE INSTALLED INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ACCEPTABLE ADHESIVE ANCHORS FOR USE IN CONCRETE INCLUDE THE
- FOLLOWING: \* HILTI HY-200 (ICC-ES ESR-3187) \* SIMPSON STRONG-TIE AT-XP (IAPMO UES ER-263) \* DEWALT AC200+ (ICC-ES ESR-4027)

#### STEEL DECK:

- 1. UNLESS NOTED OTHERWISE, STEEL DECK SHALL BE GALVANIZED (MINIMUM G60), CONFORMING TO STEEL DECK INSTITUTE (SDI) STANDARDS. FLOOR DECK SHALL BE GRADE 50 MINIMUM, ROOF DECK SHALL BE GRADE 33 MINIMUM. 2. STEEL FLOOR DECK SHALL BE FASTENED TO STEEL FRAMING WITH 5%" PUDDLE WELDS AT 12" O.C. MAX. WHEN DECK IS PERP. TO FRAMING, AND 24" O.C.
- MAX. WHEN DECK IS PARALLEL TO FRAMING. FASTEN DECK EDGES AT 12" O.C. MAX. PROVIDE WELD WASHERS WHEN DECK IS 24GA OR LIGHTER. SIDELAP SCREWS SHALL BE #10 SCREWS AT 24" O.C. MAX. 3. STEEL ROOF DECK SHALL BE ATTACHED PER PLANS BUT NOT LESS THAN

A 36/3 PATTERN USING HILTI X-HSN 24 PAFs AND S-SLC SIDELAP SCREWS

24" O.C. MAX. FASTEN DECK EDGES AND TO PARALLEL FRAMING AT 12" O.C.

## COLD FORMED STEEL:

12" O/C. ELSEWHERE.

- 1. MATERIAL SPECIFICATIONS FOR LIGHT-GAUGE STEEL: 16 GA OR HEAVIER: ASTM A-653, Fy = 50 KSI MIN. 18 GA OR LIGHTER: ASTM A-653, Fy = 33 KSI MIN.
- 2. GALVANIZING: MINIMUM G-60 COATING. 3. ALL STUDS AND JOIST MEMBERS SHALL BE STRUCTURAL (12 to 20 GAUGE) AND HAVE
- STIFFENED FLANGES. 4. WALL STUDS SHALL BE LATERALLY BRACED WITH HORIZONTAL 1.5" COLD-ROLLED
- CHANNELS SPACED NO MORE THAN 5ft O.C. VERTICALLY. 5. ALL STUD MEMBERS SHALL BE ATTACHED TO RUNNERS WITH #10-16 LOW PROFILE

#### HEAD SCREWS AT EACH STUD FLANGE, EACH END.

- 1. PLYWOOD ROOF SHEATHING ARE DESIGNED AS DIAPHRAGMS AND SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 23 OF THE BUILDING CODE. UNLESS SHOWN OTHERWISE, SPAN RATED PANELS SHALL BE FASTENED TO STEEL FRAMING SPACED UP TO 24" O/C. IN ACCORDANCE
- WITH THE FOLLOWING:
- PANELS UP TO 1/2" THICK: #8 SCREWS AT 6" O/C. EDGE, 12" O/C. ELSEWHERE.
- PANELS UP TO 5/8" THICK: #8 SCREWS AT 6" O/C. EDGE, 12" O/C. ELSEWHERE. PANELS UP TO 3/4" THICK: #10 SCREWS AT 6" O/C. EDGE,
- GIANNAVOLA HINES **ENGINEERS** 311 14th STREET ATLANTA, GA 30318

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RELEASED FOR CONSTRUCTION

11/08/21 ISSUED FOR CONSTRUCTION REVISIONS

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20104

SHEET TITLE General Notes

SHEET NO.

PROJECT NO.

#### SPECIAL INSPECTIONS NOTES:

- 1. DURING CONSTRUCTION, SPECIAL STRUCTURAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705 OF THE 2018 IBC. AN APPROVED SPECIAL INSPECTOR WITH QUALIFICATIONS SATISFACTORY TO THE BUILDING OFFICIAL SHALL PERFORM SPECIAL INSPECTIONS. ALL SPECIAL STRUCTURAL INSPECTION REPORTS SHALL BE PREPARED BY AND BEAR THE SEAL OF THE SPECIAL INSPECTOR, AND ALL REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, ARCHITECT, AND TO THE STRUCTURAL ENGINEER.
- 2. SPECIAL INSPECTOR SHALL PREPARE THE REQUIRED QUALITY ASSURANCE PLANS & SUBMIT PLAN TO BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL ENGINEER FOR APPROVAL
- PRIOR TO CONSTRUCTION.

  3. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE PERMITTED CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL FURNISH PERIODIC INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONALS OF RECORD. THE FREQUENCY OF REPORTS SHALL BE AS AGREED UPON BY THE BUILDING OFFICIAL. ALL NONCONFORMING ITEMS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF CORRECTED, THE BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL
- ENGINEER.

  4. THE SPECIAL INSPECTOR, UPON COMPLETION OF THE WORK AND PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, SHALL SUBMIT A SIGNED & SEALED FINAL REPORT DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE PRIOR REPORTS.
- 5. ALL STRUCTURAL ELEMENTS OF THE BUILDING FRAME SHALL BE INSPECTED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND REQUIREMENTS OF SECTION 1705 OF THE 2018 IBC, INCLUDING, BUT NOT BE LIMITED TO THE SECTIONS LISTED ON THIS DRAWING
- 6. SPECIAL INSPECTIONS FOR WIND RESISTANCE ARE NOT REQUIRED PER IBC 1705.10.
  7. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE ARE NOT REQUIRED PER IBC 1705.11.

REPORTS AND CERTIFICATES AS LISTED IN AISC 30, SECTION N. 23, FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)  MATERIAL VERIFICATION OF STRUCTURAL STEEL  SHOP* AND FIELD INSPECTION  STRUCTURAL STEEL WELDING:  1. INSPECTION TASKS PRIOR TO WELDING PER AISC 360 TABLE N.5.4-1  2. INSPECTION TASKS DURING TO WELDING PER AISC 360 TABLE N.5.4-2  3. INSPECTION TASKS AFTER TO WELDING PER AISC 360 TABLE N.5.4-2  4. MONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS  4. COMPLETE PENETRATION GROOVE WELDS 5/16* OR GREATER IN RISK CATEGORY III OR IV  B. COMPLETE PENETRATION GROOVE WELDS 5/16* OR GREATER IN RISK CATEGORY III  C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A.3.1  D. FABRICATOR'S NDT REPORTS WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A.3.1  J. FABRICATOR'S NDT REPORTS WHEN FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NOT  STRUCTURAL STEEL BOLTING:  STRUCTURAL STEEL BOLTING:  STRUCTURAL STEEL BOLTING:  SHOP AND FIELD UNSPECTION  1. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH OA TASKS LISTED IN AISC 360, TABLE N.5.42)  A. PRE-TENSIONED & SLIP CRITICAL JOINTS  1) TURN-OF-NUT WITH MATCHING MARKINGS  2) DIRECT TENSION INDICATOR  3) TWIST-OFF TYPE TENSION CONTROL BOLT  4) TURN-OF-NUT WITHOUT MATCHING MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS LISTED AISC 360, TABLE N.5.6-2)  A. PRE-TENSIONED & SLIP CRITICAL JOINTS  1) TURN-OF-NUT WITHOUT MATCHING MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS LISTED TO ALSO SOUTH ALSO SOU	Y/N  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y	EXTENT  EACH SUBMITTAL  PERIODIC  OBSERVE OR PERFORMAS NOTED  OBSERVE OR PERFORMAS NOTED  PERIODIC  PERIODIC  EACH SUBMITTAL  OBSERVE OR PERFORMAS NOTED  OBSERVE OR PERFORMAS NOTED
FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 300. SECTION N 2.5 POR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)  MATERIAL VERIFICATION OF STRUCTURAL STEEL SHOP* AND FIELD INSPECTION  STRUCTURAL STEEL WELDING:  1. INSPECTION TASKS PRIOR TO WELDING PER AISC 300 TABLE NS.4-2  2. INSPECTION TASKS DURING TO WELDING PER AISC 300 TABLE NS.4-2  3. INSPECTION TASKS AFTER TO WELDING PER AISC 300 TABLE NS.4-2  4. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS  A. COMPLETE PENETRATION GROOVE WELDS 5/16* OR GREATER IN RISK CATEGORY III OR IV  C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 300 APPENDIX 3, TABLE A-3.1  D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR'S NDT REPORTS WHEN FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT  STRUCTURAL STEEL BOLTING:  SHOP AND FIELD INSPECTION  TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 300, TABLE NS.8-1)  2. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 300, TABLE NS.8-1)  3. TIVIST-OFF TYPE TENSION CONTROL BOLT  4.) TURN-OF-NUT WITH MATCHING MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 300, TABLE NS.8-1)  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 300, TABLE NS.8-1)  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 300, TABLE NS.8-1)  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 300, TABLE NS.8-10  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 300, TABLE NS.8-10  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLT	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	PERIODIC  OBSERVE OR PERFORMAS NOTED  OBSERVE OR PERFORMAS NOTED  PERIODIC  PERIODIC  EACH SUBMITTAL  OBSERVE OR PERFORMAS NOTED  OBSERVE OR PERFORMAS NOTED  OBSERVE OR PERFORMAS NOTED
REPORTS AND CERTIFICATES AS LISTED IN AISC 30, SECTION N. 2, FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)  MATERIAL VERIFICATION OF STRUCTURAL STEEL  SHOP* AND FIELD INSPECTION  STRUCTURAL STEEL WELDING:  1. INSPECTION TASKS PRIOR TO WELDING PER AISC 360 TABLE N.5.4-1  2. INSPECTION TASKS DURING TO WELDING PER AISC 360 TABLE N.5.4-2  3. INSPECTION TASKS AFTER TO WELDING PER AISC 360 TABLE N.5.4-2  4. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS  4. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS  B. COMPLETE PENETRATION GROOVE WELDS 5/16* OR GREATER IN RISK CATEGORY III  C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 380, APPENDIX 3, TABLE A-3.1  D. FABRICATOR'S NDT REPORTS WHEN REDITION TASKS AFTER BOLTING:  D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT  STRUCTURAL STEEL BOLTING:  1. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH A RASK LISTED IN AISC 380, TABLE N.5.6-2)  A. PRE-TENSIONED & SLIP CRITICAL JOINTS  1) TURN-OF-NUT WITH MATCHING MARKINGS  2) DIRECT TENSION INDICATOR  3) TWIST-OFF TYPE TENSION CONTROL BOLT  4) TURN-OF-NUT WITH MATCHING MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM ARKINGS  6) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS LISTED IN AISC 360, TABLE N.5.6-2)  A. PRE-TENSIONED & SLIP CRITICAL JOINTS  1) TURN-OF-NUT WITH MATCHING MARKINGS  6) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS LISTED IN AISC 360, TABLE N.5.6-2)  A. PRE-TENSIONED B. SLIP CRITICAL JOINTS  5) SUBJECT TON TASKS AFTER BOLTING (PERFORM TASKS LISTED IN AISC 360, TABLE N.5.6-2)  A. PRE-TENSIONED B. SLIP CRITICAL JOINTS  5) SUBJECT TON TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N.5.6-2)  CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS F	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	PERIODIC  OBSERVE OR PERFORMAS NOTED  OBSERVE OR PERFORMAS NOTED  PERIODIC  PERIODIC  EACH SUBMITTAL  OBSERVE OR PERFORMAS NOTED  OBSERVE OR PERFORMAS NOTED  OBSERVE OR PERFORMAS NOTED
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A. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV  B. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III  C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1  D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT  STRUCTURAL STEEL BOLTING:  1. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)  2. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)  A. PRE-TENSIONED & SLIP CRITICAL JOINTS  1) TURN-OF-NUT WITH MATCHING MARKINGS  2) DIRECT TENSION INDICATOR  3) TWIST-OFF TYPE TENSION CONTROL BOLT  4) TURN-OF-NUT WITHOUT MATCHING MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN CACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)  VERIFICATION SHOP AND FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM SHOP OF WELDS MINIMUM SHOP OF WELDS MINIMUM SHOP OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM 10% OF WELDS MINIMUM  SHOP OF FIELD ULTRASONIC TESTING 10% OF PEND 10% O	Y Y Y Y Y Y Y Y	PERIODIC  PERIODIC  EACH SUBMITTAL  OBSERVE OR PERFOR AS NOTED  OBSERVE  PERIODIC
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5/16" OR GREATER IN RISK CATEGORY II  C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1  D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT  STRUCTURAL STEEL BOLTING:  1. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)  2. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)  A. PRE-TENSIONED & SLIP CRITICAL JOINTS  1) TURN-OF-NUT WITH MATCHING MARKINGS  2) DIRECT TENSION INDICATOR  3) TWIST-OFF TYPE TENSION CONTROL BOLT  4) TURN-OF-NUT WITHOUT MATCHING MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)  VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING  EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE,	Y Y Y Y Y Y Y	PERIODIC  EACH SUBMITTAL  OBSERVE OR PERFORAS NOTED  OBSERVE  PERIODIC
D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT  D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT  STRUCTURAL STEEL BOLTING:  SHOP AND FIELD INSPECTION  1. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)  2. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)  A. PRE-TENSIONED & SLIP CRITICAL JOINTS  1) TURN-OF-NUT WITH MATCHING MARKINGS  2) DIRECT TENSION INDICATOR  3) TWIST-OFF TYPE TENSION CONTROL BOLT  4) TURN-OF-NUT WITHOUT MATCHING MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)  VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING  EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE,	Y Y Y Y Y Y	EACH SUBMITTAL  OBSERVE OR PERFOR AS NOTED  OBSERVE  PERIODIC
FABRICATOR PERFORMS NDT  STRUCTURAL STEEL BOLTING:  1. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)  2. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)  A. PRE-TENSIONED & SLIP CRITICAL JOINTS  1) TURN-OF-NUT WITH MATCHING MARKINGS  2) DIRECT TENSION INDICATOR  3) TWIST-OFF TYPE TENSION CONTROL BOLT  4) TURN-OF-NUT WITHOUT MATCHING MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)  VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE ECCTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING  EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE,	Y Y Y Y Y	OBSERVE OR PERFOR AS NOTED  OBSERVE  PERIODIC
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A. PRE-TENSIONED & SLIP CRITICAL JOINTS  1) TURN-OF-NUT WITH MATCHING MARKINGS  2) DIRECT TENSION INDICATOR  3) TWIST-OFF TYPE TENSION CONTROL BOLT  4) TURN-OF-NUT WITHOUT MATCHING MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)  VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING  EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE,	Y	
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4) TURN-OF-NUT WITHOUT MATCHING MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)  VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING  EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE,		
MARKINGS  5) CALIBRATED WRENCH  B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)  VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING  EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE,	Υ	PERIODIC
B. SNUG TIGHT JOINTS  3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)  VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING  EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE,		CONTINUOUS
3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)  VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING  EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE,	Υ	CONTINUOUS
TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)  VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING  EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE,	Υ	PERIODIC
OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE,	Υ	PERFORM
	Υ	PERIODIC
	Υ	PERIODIC
VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENT	Υ	PERIODIC
1705.2.2 COLD-FORMED STEEL DECK		
MANUFACTURER DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN SDI QA/QC,		
SECTION 2, PARAGRAPHS 2.1 AND 2.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	Υ	EACH SUBMITTAL
MATERIAL VERIFICATION OF STEEL DECK, MECHANICAL FASTENERS AND WELDING MATERIALS  SHOP* AND FIELD INSPECTION	Υ	PERIODIC
COLD-FORMED STEEL DECK PLACEMENT: SHOP* AND FIELD INSPECTION		
1. INSPECTION TASKS PRIOR TO DECK PLACEMENT (PERFORM THE QA TASKS LISTED IN SDI QA/QC, APPENDIX 1 TABLE 1.1)	Υ	PERFORM
2. INSPECTION TASKS AFTER DECK PLACEMENT (PERFORM THE QA TASKS LISTED IN SDI QA/QC, APPENDIX 1 TABLE 1.2)	Υ	PERFORM
COLD-FORMED STEEL DECK WELDING: SHOP* AND FIELD INSPECTION		
1. INSPECTION TASKS PRIOR TO WELDING (OBSERVE THE QA TASKS LISTED IN SDI QA/QC, APPENDIX 1 TABLE 1.3)	Υ	OBSERVE
2. INSPECTION TASKS DURING WELDING (OBSERVE THE QA TASKS LISTED IN SDI QA/QC, APPENDIX 1 TABLE 1.4)	Υ	OBSERVE
3. INSPECTION TASKS AFTER WELDING (PERFORM THE QA TASKS LISTED IN SDI QA/QC, APPENDIX 1 TABLE 1.5)	Υ	PERFORM
COLD-FORMED STEEL DECK MECHANICAL FASTENING:  SHOP* AND FIELD INSPECTION		
1. INSPECTION TASKS PRIOR TO MECHANICAL FASTENING (OBSERVE THE QA TASKS LISTED IN SDI QA/QC, APPENDIX 1 TABLE 1.6)		OBSERVE
2. INSPECTION TASKS DURING MECHANICAL FASTENING (OBSERVE THE QA TASKS LISTED IN SDI QA/QC, APPENDIX 1 TABLE 1.7)	Υ	ODCEDVE
3. INSPECTION TASKS AFTER MECHANICAL FASTENING (PERFORM THE QA TASKS LISTED IN SDI QA/QC, APPENDIX 1 TABLE 1.8)	Y	OBSERVE

MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	
1705.3 CONCRETE CONSTRUCTION				
INSPECTION AND PLACEMENT VERIFICATION OF REINFORCING STEEL	SHOP* AND FIELD INSPECTION	Y	PERIODIC	
INSPECTION OF ANCHORS CAST IN CONCRETE.	SHOP* AND FIELD INSPECTION	Υ	PERIODIC	
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS PER RESEARCH REPORTS, OR, IF NO SPECIFIC REQUIREMENTS ARE PROVIDED, REQUIREMENTS SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL AND APPROVED BY THE BUILDING OFFICIAL, INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MINIMUM THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE	FIELD INSPECTION	Y	PERIODIC OR AS REQUIRED BY THE RESEARCH REPOR ISSUED BY AN APPROVED SOURC	
ADHESIVE ANCHORS INSTALLED IN HORIZONTAL     OR UPWARD-INCLINED ORIENTATION THAT RESIST     SUSTAINED TENSION LOADS.		Y	CONTINUOUS	
2. MECHANICAL AND ADHESIVE ANCHORS OTHER THAN THOSE DEFINED IN NOTE 1.		Υ	PERIODIC	
VERIFY USE OF APPROVED DESIGN MIX	SHOP* AND FIELD INSPECTION	Y	PERIODIC	
PRIOR TO PLACEMENT, FRESH CONCRETE SAMPLING, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE TEMPERATURE OF CONCRETE AND PERFORM ANY OTHER TESTS AS SPECIFIED IN CONSTRUCTION DOCUMENTS.	SHOP* AND FIELD INSPECTION	Y	CONTINUOUS	
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	SHOP* AND FIELD INSPECTION	Y	CONTINUOUS	
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	SHOP* AND FIELD INSPECTION	Y	PERIODIC	
ERECTION OF PRECAST CONCRETE MEMBERS  VERIFICATION OF IN-SITU CONCRETE STRENGTH		Y	PERIODIC	
PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	FIELD TESTING AND REVIEW OF LABORATORY REPORTS	Y	PERIODIC	
INSPECTION OF FORMWORK FOR SHAPE, LINES, LOCATION AND DIMENSIONS	FIELD INSPECTION	Y	PERIODIC	
CONCRETE STRENGTH TESTING AND VERIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS	FIELD TESTING AND REVIEW OF LABORATORY REPORTS	Y	PERIODIC	
1705.4 MASONRY CONSTRUCTION				
QUALITY ASSURANCE:			I	
1. VERIFY COMPLIANCE WITH APPROVED SUBMITTALS	SUBMITTAL REVIEW	Y	PRIOR TO CONSTRUCTION	
2. VERIFICATION OF F'M AND F'AAC PRIOR TO CONSTRUCTION	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD	Υ	PRIOR TO CONSTRUCTION	
3. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) OF SELF-CONSOLIDATING GROUT AS DELIVERED TO THE PROJECT	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD	Y	PERIODIC	
AS MASONRY CONSTRUCTION BEGINS:  1. VERIFY PROPORTIONS OF SITE PREPARED MORTAR	FIELD INSPECTION	Y	PERIODIC	
2. VERIFY GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR RODS	FIELD INSPECTION	Y	PERIODIC	
3. SAMPLE PANEL CONSTRUCTION	FIELD INSPECTION	N	LEVEL 2 - PERIODI LEVEL 3 - CONTINUC	
PRIOR TO GROUTING:			I	
1. VERIFY GROUT SPACE IS CLEAN PRIOR TO GROUTING	FIELD INSPECTION	Y	LEVEL 2 - PERIODI LEVEL 3 - CONTINUC	
2. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	FIELD INSPECTION	Y	LEVEL 2 - PERIODI LEVEL 3 - CONTINUO	
3. VERIFY PROPORTIONS OF SITE PREPARED GROUT	FIELD INSPECTION	Y	PERIODIC	
VERIFY COMPLIANCE OF THE FOLLOWING DURING CON	NSTRUCTION:		I	
1. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	FIELD INSPECTION	Y	PERIODIC	
2. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	FIELD INSPECTION	Y	PERIODIC	
3. SIZE AND LOCATION OF STRUCTURAL MEMBERS	FIELD INSPECTION	Y	PERIODIC	
4. TYPE, SIZE, LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	FIELD INSPECTION	Y	LEVEL 2 - PERIODI LEVEL 3 - CONTINUC	
5. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40*F) OR HOT WEATHER (TEMPERATURE ABOVE 90*F)	FIELD INSPECTION	Y	PERIODIC	
6. PLACEMENT OF GROUT	FIELD INSPECTION	Y	CONTINUOUS	
7. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	FIELD INSPECTION	Y	LEVEL 2 - PERIODI LEVEL 3 - CONTINUO	
1705.6 SOILS				
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	FIELD INSPECTION	Y	PERIODIC	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	FIELD INSPECTION	Y	PERIODIC	
PERFORM CLASSIFICATION AND TESTING OF	FIELD INSPECTION	Y	PERIODIC	
COMPACTED FILL MATERIALS.		1	1	
	FIELD INSPECTION	Y	CONTINUOUS	

THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAUGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE

IBC SECTION 1704.2.5.1 AND LISTED IN ACTIVITY 1709.2.

CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR THE DESIGN PROFESSIONAL.

(\*) SHOP INSPECTIONS OF FABRICATED ITEMS ARE NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH

OBSERVE: OBSERVE ON A RANDOM BASIS, OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM: THESE

TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT, BOLTED CONNECTION, OR STEEL ELEMENT

SCHEDULE OF SPECIAL INSPECTIONS



## Heard County Ampitheater

RIVER WALK FRANKLIN, GA 30217



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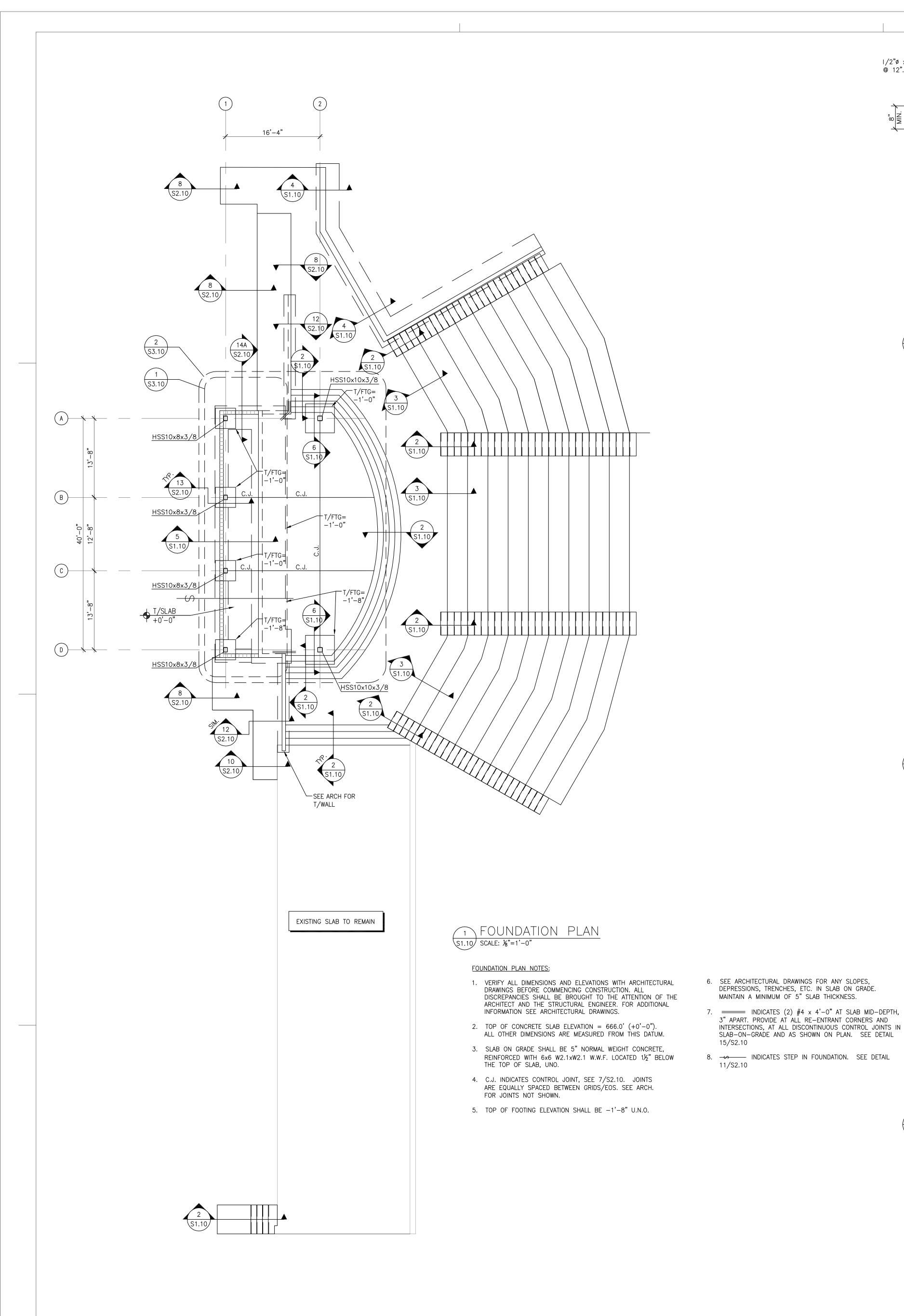
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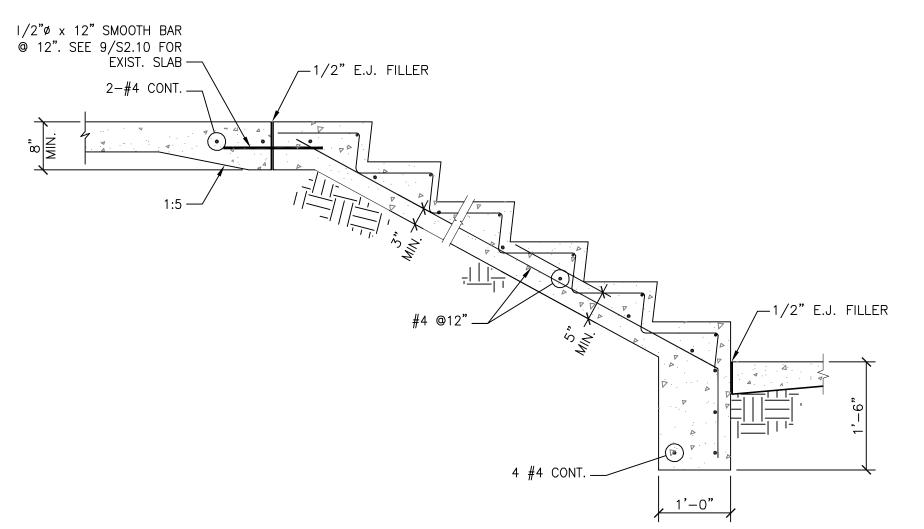
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SHEET NO

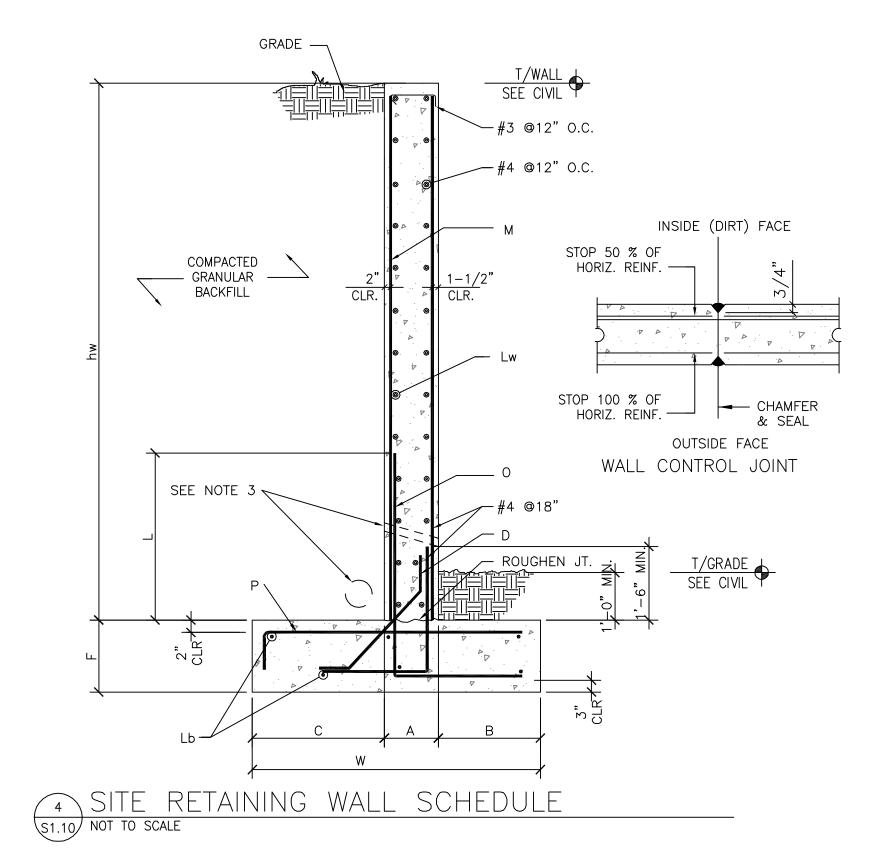
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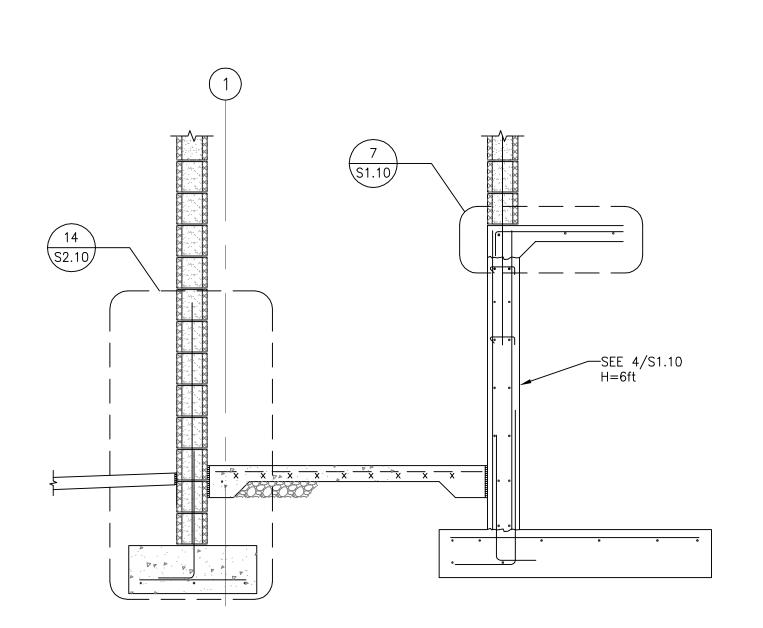
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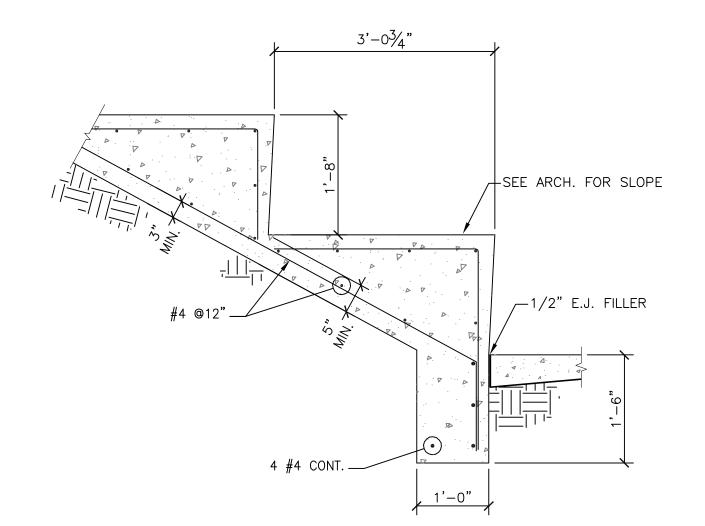


2 TYPICAL STAIRS ON GRADE S1.10 NOT TO SCALE





5 SECTION S1.10 NOT TO SCALE



SEATING ON GRADE

S1.10 NOT TO SCALE

										(Pa	a=45 pcf)
CAI	NTILE	VER	RETA	AININO	3 WA	LL SCI	HEDUL	E.	LI	EVEL BAC	CKFILL
	CONCRE	TE DIM	ENSIONS	5		ВА	SE REINF	ORCEMEN	NT	STEM	REINF.
Hw	А	В	С	W	F	0 & P	D	Lь	L	M <sup>4</sup>	Lw
3'-0"	8"	1'-0"	1'-2"	2'-10"	12"	#4 @ 12"	#4 @ 12"	5 #4	2'-0"		#4 @ 12"
4'-0"	8"	1'-0"	2'-5"	4'-1"	12"	#4 @ 12"	#4 @ 12"	6 #4	2'-0"		#4 @ 12"
5'-0"	8"	1'-0"	3'-2"	4'-10"	12"	#4 @ 12"	#4 @ 12"	7 #4	2'-0"		#4 @ 12"
6'-0"	8"	1'-0"	4'-0"	5'-8"	12"	#5 @ 12"	#4 @ 12"	9 #4	2'-3"	#5 @ 12"	#4 @ 12"
7'-0"	8"	1'-1"	4'-11"	6'-7"	12"	#5 <b>@</b> 12"	#4 @ 12"	10 #4	2'-3"	#5 <b>@</b> 12"	#4 @ 12"
8'-0"	8"	1'-3"	5'-7"	7'-6"	12"	#5 @ 12"	#4 @ 12"	12 #4	2'-3"	#5 @ 12"	#5 @ 12"

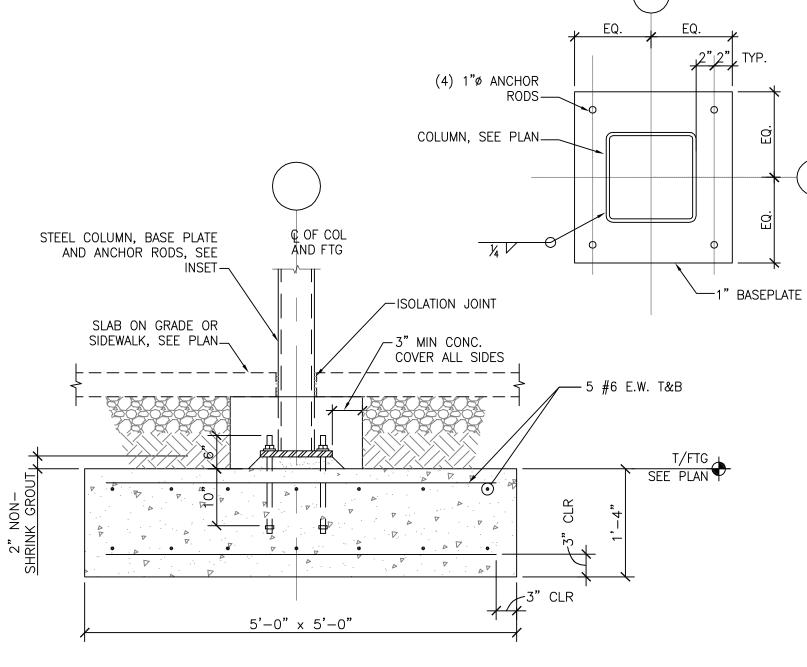
#### NOTES:

- WALL CONTROL JOINTS @ 20'-0" MAX CENTERS
   KEYED EXP. JOINTS @ 100'-0" MAX CENTERS
- 2. REYED EXP. JOINTS @ 100 -0 MAX CENTERS

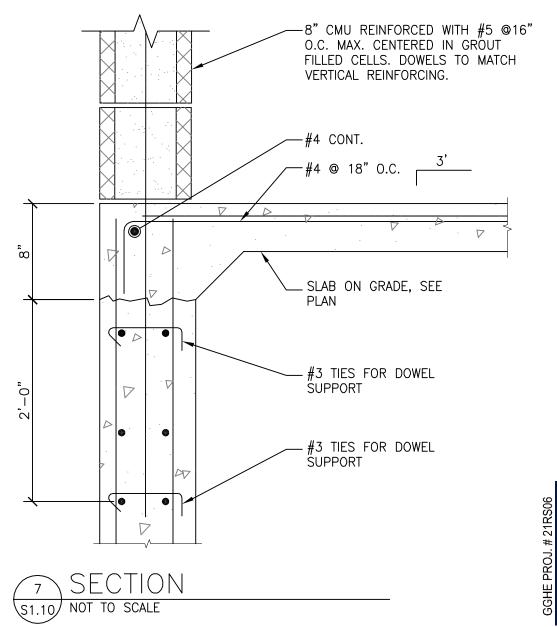
  3. PROVIDE POSITIVE DRAINAGE OR FRENCH DRAIN
- BEHIND WALL WITH WEEP HOLES @ 10'-0"o.c.

  4. FOR H <= 5FT, EXTEND O BARS FULL HEIGHT.
- 5. LAP L<sub>b</sub> & L<sub>w</sub> BARS CLASS "B"6. COORD. WALL DIMENSIONS & REINF.
- W/FOOTING WIDTHS SHOWN ON PLAN.

  7. COORDINATION WITH PROPERTY BOUNDARIES, EASEMENTS, AND SETBACKS, IS THE RESPONSIBILITY OF OTHERS.



6 COLUMN FOUNDATION DETAIL
S1.10 NOT TO SCALE





Heard County Ampitheater

RIVER WALK FRANKLIN, GA 30217



RELEASED FOR CONSTRUCTION

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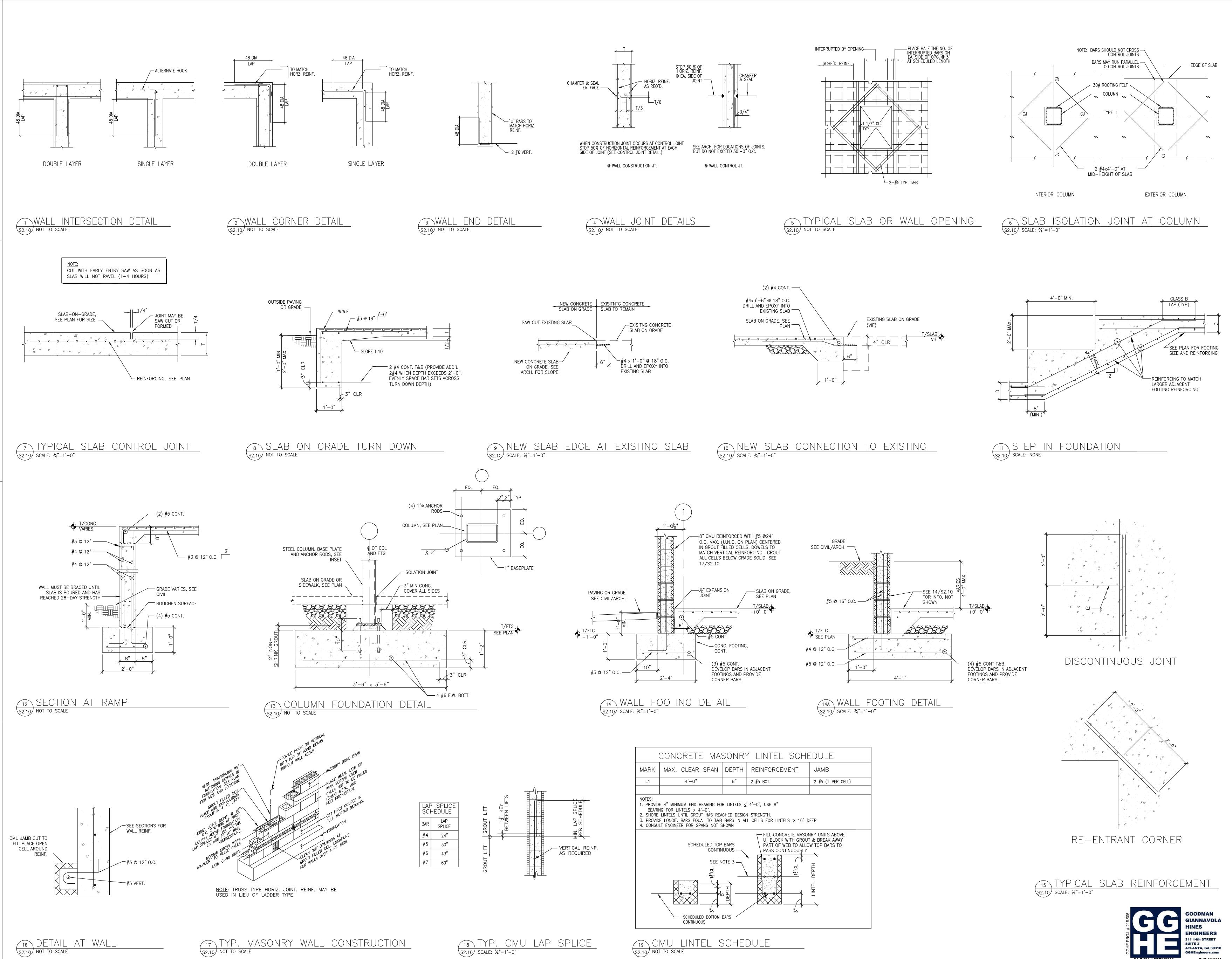
SHEET TITLE

Slab & Foundation Plan &

: Slab & Foundation Plan & : Details : SHEET NO

PROJECT NO.

S-1.10



DETAIL AT WALL
S2.10 NOT TO SCALE

17 TYP. MASONRY WALL CONSTRUCTION

\$2.10 NOT TO SCALE

Heard County Ampitheater

RIVER WALK FRANKLIN, GA 30217



RELEASED FOR CONSTRUCTION

11/08/21 ISSUED FOR CONSTRUCTION REVISIONS

Gardner Smith Jarbeau A Professional Corporation for the Practice of Architecture

50 Hurt Plaza SE : Suite 1100 : Atlanta Georgia 30303 404 522 8805 404 521 2118 (f) : www.gsstj.com

: 20104

· Details

311 14th STREET

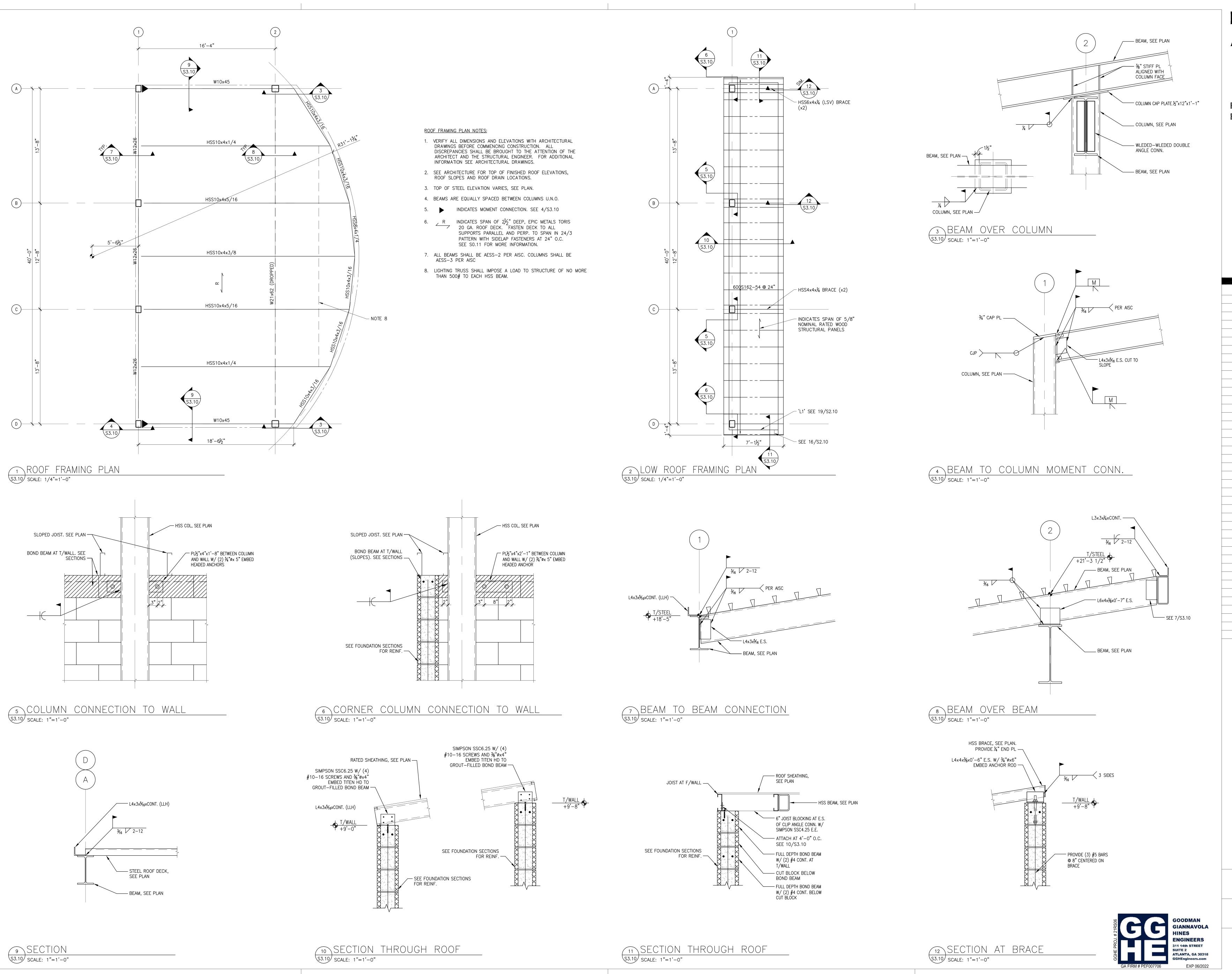
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EXP 06/2022

SHEET TITLE · Foundation Sections &

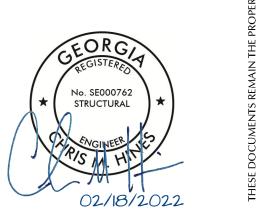
PROJECT NO.

SHEET NO.



Heard County Ampitheater

RIVER WALK FRANKLIN, GA 30217



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A Professional Corporation

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: 20104

SHEET TITLE

PROJECT NO.

SHEET NO.

: Sections & Details

	LIGHTING FIXTURE SCHEDULE *								
	R TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL OR DESCRIPTION IN THIS SCHEDULE.	REQUIREMENTS WHIC	H MAY NO	OT NECESSARILY BE REFLE	ECTED IN CATALOG NUMBER				
4RK	DESCRIPTION	MOUNTING	VOLTS	LAMPS	REMARKS				
4	BEACON * VP5-36L-80-3K1-3-UNV-DBT WITH BEACON * 999-B-14-40-B-1-B3-DBT (POLE)	14'-Ø" POLE	208	FURNISHED WITH FIXTURE	SINGLE				
3	(2) BEACON # VP6-36L-80-3KT-3-UNV-DBT WITH BEACON # 666-B-14-40-B-1-B3-DBT (POLE)	14'-Ø" POLE	208	FURNISHED WITH FIXTURE	D <i>O</i> UBLE				
	(2) KIM * KFL3-60L-135-3K7-WF-UNV-5-DB-BD WITH BEACON * \$\$\$-B-16-40-B-TA-DBT W/\$\$B-21-M51 (POLE)	16'-0" POLE	12Ø	FURNISHED WITH FIXTURE	DOUBLE Ø-IØ VOLT DIMMING				
Ē	BEACON * SRT2-100-3K7-5W-UNV-(COORDINATE FINISH WITH ARCHITECT)-LD6	SHORT PENDANT	12Ø	FURNISHED WITH FIXTURE					
	KIM * KFL3-60L-135-WF-UNV-(COORDINATE FINISH WITH ARCHITECT)-WMI	WALL	12Ø	FURNISHED WITH FIXTURE					
;	HUBBELL * LXEM-4-35-ML-RFA-ED-U	SURFACE	120	FURNISHED WITH FIXTURE					
	ISOLITE # MAX2.0-AC-R-I-WH-MTE8	WALL	12Ø	FURNISHED WITH FIXTURE	COORDINATE INSTALLATION WITH ARCHITECT.				
	LITHONIA * ELM2	WALL	12Ø	FURNISHED WITH FIXTURE					
	LUMENPOD # LULF-30K-70-5-24VDC	HANDRAIL	24 VOLT	FURNISHED WITH FIXTURE					
-	BEACON * TRV-D-24NB-55-3K-T3-UNV-DBT-PEC	WALL	120	FURNISHED WITH FIXTURE	PHOTOCELL BUTTON				

<sup>#</sup> EQUALS BY LITHONIA, LIGHTOLIER, DAY-BRITE, WILLIAMS, METALUX, COLUMBIA, ELITE, DUAL-LITE, AND EMERGI-LITE WILL BE ACCEPTABLE.

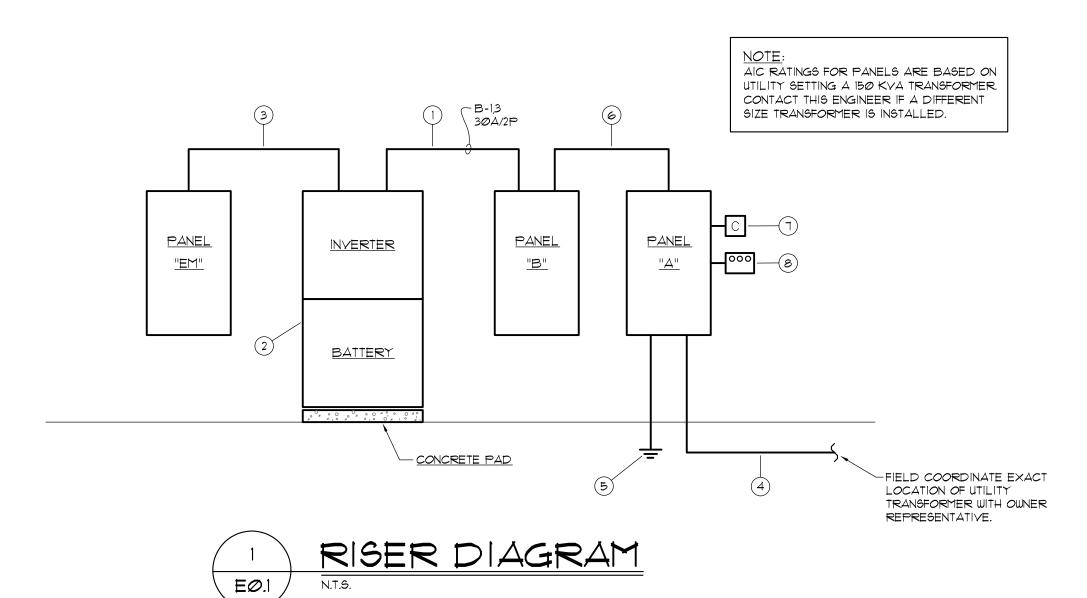
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VC	DLTAGE: 12 <i>0/208</i> V, 3 PH, 4 W		MA	AINS:	400	DA MAII	N BR	EAKE	R		10U1	NTIN	lG: SI	URF,	ACE				R	EMARKS:	
BU	S SIZE: 400A				4L LC	DAD:	(DIVE	ERSIFIED	LOA	<sup>(D)</sup> F	AUL	.T [	OUTY:	25,0	000	AIC			FE	ED THRU LUGS.	
NO	SERVES	NOTE				(KVA) A/C HTC	MISC	<del>                                     </del>		PHASE ABC	_	RKR TRIF	P MISC	_	<del></del>	(KVA)		LTG	NOTE	SERVES	NO
1	STAGE LIGHT OUTLETS	1						20	1	ᠳ∏	3	100	2							LIGHTNING/SURGE	2
3 5	STAGE LIGHT OUTLETS STAGE LIGHT OUTLETS	$\bigcirc$	1.0					20	╁		H		4				-			LIGHTNING/SURGE LIGHTNING/SURGE	6
7	STAGE LIGHT OUTLETS		_					20	+	Ш	3	100	30.0				$\dashv$			SPARE	8
9	STAGE POWER BOX		_	1.0				20	†	$\square$										SPARE	10
11	STAGE POWER BOX	1		1.0				20	1	┦┦╇	1//									SPARE	12
13	STAGE POWER BOX	1	_	1.0				20	1	<del>♦</del> ┼┼	3	200	50.0							SPARE	14
15	STAGE POWER BOX	1		1.0				20	1	╁╋╂										SPARE	16
17	STAGE POWER BOX	1		1.0				20	1	┼┼╈										SPARE	18
19	STAGE POWER BOX	1		1.0				20	1	┿┼┼	2	20						Ø.3	2	WALKWAY POLE LIGHTS	2Ø
21	STAGE POWER BOX			1.0				20	1	╀┿┼										WALKWAY POLE LIGHTS	22
23	STAGE POWER BOX			1.0				20	1	┼┼┿	2	20	1					0.8	2	WALKWAY POLE LIGHTS	24
25	STORAGE/DATA/ELEC. RM.			0.4				20	1	┿┼┼										WALKWAY POLE LIGHTS	26
27	STAGE BACK WALL	$\bigcirc$		1.0				20	1	╁╋╂	- 1	20						1.2		SEATING POLE LIGHTS	28
29	STAGE BACK WALL	1		1.0				20	1	┼┼┿	1	20						0.9		GRASS POLE LIGHTS	3Ø
31	STAGE BACK WALL	1		1.0				20	1	<del>♦</del> ┤┤	1	20	n				Ø.4		$\bigcirc$	SEATING OUTLET	32
33	STAGE BACK WALL	1		1.0				20	1	╁┿┼	1	20	)				Ø.4			TELE. BACKBOARD	34
35	PATIO OUTLETS			0.8				20	1	┼┼┿	1	20	n					1.0		STAGE LIGHTING	36
37	BACK OF SEATING OUTLETS		1.0					20	1	<del>♦</del> ┤┤	1	20	)					1.0		HANDRAIL LIGHTING	38
39	BACK OF SEATING OUTLETS		1.0					20	1	╁┿╂	1	20						Ø.7		STAGE FRONT LIGHTING	40
41	STAGE LIGHT OUTLETS		1.0					20	1 -	┼┼┿	1	20					. !	0.5		ELEC. ROOM LTG./EXITS	42
	LOAD SUMMARY					RE	GHTIN ECEP DTOR	TACL	E:	4	3.4 4.0 9.0	KV	4	A/O HE. MIS	ATIN	G:		9 9 Ø	KV4		
①	TES: G.F.C.I. TYPE BREAKER. ROUTE CIRCUIT THRU "SHOE	ВС	O× L	.IGHT	'ING	CONTA	CTOR	R". RE	≣FE	R TC	RIS	SEF	DIA	GR/	ΔM.						

V0	DLTAGE: 120/208V, 3 PH, 4 W		МДІІ	NS: 400	0A M	1.L <i>.O.</i>			MOU	NTING	: SURF	ACE			R	EMARKS:	
Bl	IS SIZE: 400A		TC	2.00 H			RSIFIED L	OAD)	FAUL	_T DU	TY: 25,	,000	AIC				
NO	O SERVES	NOTE.	LOAD (KV			)	BRKR	PHAS	ASE BRKR			LOAD (KVA		VA)		SERVES	NO
			LTG R	CPT MTR	A/C	HTG MISC	TRIP P	AB	CP	TRIP	1ISC HTG	A/C	MTR R	CPT LTG	;		
	INVERTER INPUT		2 <i>.</i> Ø				3Ø 2	<del>ͺ</del> ϯϯϯ	H⊥	20						SPARE	2
3	INVERTER INPUT							抍┿	$H_{\perp}$	20						SPARE	4
5	SPACE							╁┼	1	20						SPARE	6
٦	SPACE							<del></del>  ♦ -	3	60						SPARE	8
9	SPACE							╁╋	-7							SPARE	10
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15	SPACE							╁┪	H-							SPACE	16
17	SPACE							┧╁┼	- 1							SPACE	18
19	SPACE							┧┪┼	₩-							SPACE	20
21	SPACE							╁	₩-							SPACE	22
23	SPACE							1	-							SPACE	24
	LOAD SUMMARY					LIGHTIN	G:		2.0	ΚVΔ	Δ/	C:		0.0	KV2	4	
						RECEP"				KVA		_	G:				
						MOTOR				KVA		SC:		0.0			

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VC	PLTAGE: 120/240V, 1 PH, 3 W		MZ	INS:	60	ЭД М.	L.O.				Mo	<b>DU</b> 1	NTIN	G: 61	JRF/	CE				F	EMARKS:		
BU	S SIZE: 60A		1			OAD Kya		(DIVE	RSIFIED L	.OAD	D) F4	\UL	T DI	JTY:	25 <i>,</i> Ø	000	AIC						
NO	SERVES	NOTE	LTG			(KVA		мівс	BRKR TRIP P	լ՝	PHASE A B		RKR TRIP	MISC	L HTG		(KVA		LTG	NOTE		SERVES	NO
1	STAGE LIGHTING	+	Ø.2						20 1	$\dashv$	<b>4</b>	_									SPACE		2
3	PERIMETER STAGE LTG.		Ø.7						20 1	_	╂╋╌	-									SPACE		4
5	EXITS & WALL PACK		Ø.2						20 1	╁	<b>♦</b> ╂┈	-									SPACE		6
7	SPACE									_	╁╋╌	-									SPACE		8
Ø	SPACE									_	<del>     </del>	-									SPACE		10
11	SPACE									_	+	-									SPACE		12
	LOAD SUMMARY						RE	CEP	G: TACLE :	:	Ø.	0	KVA KVA KVA		A/C HEA MIS	MITA		Ø	.Ø .Ø .Ø	KV4	7		
NO1	E9:																						

## GENERAL ELECTRICAL NOTES:

- A. CONTRACTOR PROPOSING TO UNDERTAKE WORK UNDER THIS DIVISION SHALL VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES OF ALL CONDITIONS THAT EFFECT THE WORK OR COST THEREOF, AND EXAMINE THE DRAWINGS AS RELATED TO THE SITE CONDITIONS, PRIOR TO SUBMITTING HIS PROPOSAL FOR WORK.
- B. CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE AMOUNT OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE ITEMS AND CONDITIONS INDICATED ON THE DRAWINGS. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING HIS PROPOSAL FOR WORK.
- C. THIS CONTRACTOR SHALL VERIFY EXACT NAMEPLATE DATA ON ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND/OR BY THE OWNER (I.E., HVAC EQUIPMENT, ETC.) PRIOR TO THE INSTALLATION OF ELECTRICAL WORK AND MAKE ANY ADJUSTMENTS TO OUTLETS, CONDUIT, WIRE, AND/OR CIRCUIT BREAKER AS REQUIRED TO MATCH EQUIPMENT ACTUALLY FURNISHED.
- D. Ø-10 VOLT DIMMING CONDUCTORS ARE NOT SHOWN, BUT ARE ASSUMED, AND SHALL BE INSTALLED.



## RISER LEGEND

- 1) 2 #10 \$ 1 #10 GROUND 3/4"C.
- DUAL LITE L6N-D SERIES INVERTER, D-208-27-5-120/208-D-30-01-90 MINUTE BATTERY. (BASIS OF DESIGN)
- (3) 3 #10 \$ 1 #10 GROUND 3/4"C.
- 4) 4 #500 MCM 3 1/2"C. TO UTILITY TRANSFORMER I #1/0 GROUND - 3/4"C. TO GROUND RODS, BUILDING STEEL, COLD WATER PIPING, AND STRUCTURAL REBAR.
- 6) 4 #500 MCM \$ 1 #3 GROUND 3 1/2 "C.
- ) INSTALL A SIX (6) POLE LIGHTING CONTACTOR IN A NEMA ONE ENCLOSURE. CONTROL CONTACTOR WITH A ROOF MOUNTED PHOTOCELL. CONTACTOR SHALL CONTROL "SHOE BOX" TYPE WALKWAY LIGHTING FIXTURES.
- 8 CURRENT TECHNOLOGY \* TG3-100-208-3Y-MN-T-MI LIGHTNING/SURGE PROTECTION. BASIS OF DESIGN. EQUALS BY DITEK.

	1' × 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT	
⊗	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
⊢⊗	EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
•	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
H	EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
S <sub>K3</sub>	KEY OPERATED THREE-WAY SWITCH	48"
S	S.P.S.T. LIGHT SWITCH	48"
	LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE CEILING MOUNTED	
—————————————————————————————————————	OCCUPANCY SENSOR (HUBBELL * OMNI-DT-2000, BASIS OF DESIGN)  WALL MOUNTED SENSOR SWITCH, DUAL TECHNOLOGY (HUBBELL * LHMTS-I,	48"
<u> </u>	BASIS OF DESIGN) (SET TO MANUAL "ON", AUTO "OFF", 5 MIN. DELAY)  LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE SURFACE MOUNTED, INDOOR, OCCUPANCY SENSOR FOR AREAS WHERE MOUNTING HEIGHT IS 12'-0"AFF OR HIGHER (HUBBELL * WSP-SM-24Y SENSOR, WSP-L360-WH LENS,	48"
<b>⊢M</b> <sub>D</sub>	BASIS OF DESIGN)  LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH  Ø-IØ VOLT SLIDE DIMMER (SET TO MANUAL "ON", AUTO "OFF", 5 MIN. DELAY)  POWER PACK INSTALLED ABOVE CEILING	48"
<u>P</u>	(HUBBELL * UVPP, BASIS OF DESIGN)  0-10 VOLT DIMMER (INCLUDE POWER PACK IF LOAD EXCEEDS	
D	RATING OF DIMMER)	48"
S <sub>3</sub>	THREE-WAY LIGHT SWITCH	48"
S <sub>4</sub>	FOUR-WAY LIGHT SWITCH	48"
S <sub>K</sub>	KEY OPERATED LIGHT SWITCH	48"
<del></del>	SINGLE RECEPTACLE OUTLET	18"
<del>+</del>	DUPLEX RECEPTACLE OUTLET	18"
⇒u	DUPLEX RECEPTACLE OUTLET WITH TWO (2) USB PORTS	18"
=	QUAD RECEPTACLE OUTLET	18"
Ð∪	QUAD RECEPTACLE OUTLET WITH FOUR (4) USB PORTS	18"
<b>4</b>	DUPLEX RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH	
<b>⊅</b> ∪	DUPLEX RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH WITH TWO (2) USB PORTS	
<u> </u>	JUNCTION BOX W/COVERPLATE - ABOVE CEILING	
H	JUNCTION BOX W/COVERPLATE - WALL MOUNTED	
D ~_	I"C. BELOW SLAB TO ACCOMMODATE DATA CABLES	
<u>,</u> H <b>D</b>	SPECIAL OUTLET (AS NOTED)	
	PANELBOARD 480V	
	PANELBOARD 240Y	
<b>_</b>	DISCONNECT SWITCH - HORSEPOWER RATED	
	MOTOR - FRACTIONAL HORSEPOWER	
0	MOTOR - NUMERAL INDICATES HORSEPOWER	
	DATA OUTLET WITH 1"C. STUBBED INTO ELEC. / DATA ROOM	18"
<u></u>	4×4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED	
	INTO ELEC. / DATA ROOM  FIRE ALARM PULL STATION	
	THE ALANTI GEL STATION	
F	FIDE ALARM SDEAKER / STRARE (IIIALL MAINTED)	
E ⊠ <b>⊲</b>	FIRE ALARM SPEAKER / STROBE (WALL MOUNTED)	
E ⊠ <b>4</b> S <b>4</b>	FIRE ALARM SPEAKER (WALL MOUNTED)	
E ⊠◀ S◀	FIRE ALARM SPEAKER (WALL MOUNTED)  FIRE ALARM STROBE (CEILING MOUNTED)	
E ⊠◀ SI◀ ∴  c ⊠◀	FIRE ALARM SPEAKER (WALL MOUNTED)  FIRE ALARM STROBE (CEILING MOUNTED)  CEILING MOUNTED FIRE ALARM SPEAKER / STROBE	
F ⊠◀ SI◀ ※ c⊠◀	FIRE ALARM SPEAKER (WALL MOUNTED)  FIRE ALARM STROBE (CEILING MOUNTED)  CEILING MOUNTED FIRE ALARM SPEAKER / STROBE  SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED	
F	FIRE ALARM SPEAKER (WALL MOUNTED)  FIRE ALARM STROBE (CEILING MOUNTED)  CEILING MOUNTED FIRE ALARM SPEAKER / STROBE  SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED  CARBON MONOXIDE DETECTOR - CEILING MOUNTED	
E ⊠◀ S◀ 	FIRE ALARM SPEAKER (WALL MOUNTED)  FIRE ALARM STROBE (CEILING MOUNTED)  CEILING MOUNTED FIRE ALARM SPEAKER / STROBE  SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED	
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E ⊠◀ S◀ 	FIRE ALARM SPEAKER (WALL MOUNTED)  FIRE ALARM STROBE (CEILING MOUNTED)  CEILING MOUNTED FIRE ALARM SPEAKER / STROBE  SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED  CARBON MONOXIDE DETECTOR - CEILING MOUNTED  WEATHER PROOF HORN	
©	FIRE ALARM SPEAKER (WALL MOUNTED)  FIRE ALARM STROBE (CEILING MOUNTED)  CEILING MOUNTED FIRE ALARM SPEAKER / STROBE  SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED  CARBON MONOXIDE DETECTOR - CEILING MOUNTED  WEATHER PROOF HORN  SMOKE DETECTOR - DUCT MOUNTED	
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	FIRE ALARM SPEAKER (WALL MOUNTED)  FIRE ALARM STROBE (CEILING MOUNTED)  CEILING MOUNTED FIRE ALARM SPEAKER / STROBE  SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED  CARBON MONOXIDE DETECTOR - CEILING MOUNTED  WEATHER PROOF HORN  SMOKE DETECTOR - DUCT MOUNTED  HEAT DETECTOR  SPRINKLER FLOW SWITCH  SPRINKLER TAMPER SWITCH  DOOR HOLD DEVICE (WALL MOUNTED)  PRESSURE SWITCH  CONDUIT CONCEALED IN WALLS, ABOVE CEILING, OR EXPOSED WHERE NO CEILING  CONDUIT CONCEALED IN SLAB, IN GROUND, OR UNDER FLOOR  WEATHER PROOF	
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SYMBOL LEGEND

MOUNTING HEIGHT IS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE OR OUTLET. HEIGHT MAY VARY TO COINCIDE WITH BUILDING CONSTRUCTION.

DESCRIPTION

HEIGHT

NOTED

SYMBOL

O DOWNLIGHT

O 2' × 4' LIGHT FIXTURE

1' × 4' LIGHT FIXTURE

HO LIGHT FIXTURE - WALL MOUNTED

2' × 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT

**MATHIS** CONSULTING ENGINEERS 244 O'DELL ROAD SUITE 6 GRIFFIN, GEORGIA 30224 TELEPHONE 770-228-8160

2021-055

<u>NOTE:</u> GROUND CONDUCTOR IS NOT SHOWN, BUT IS ASSUMED, AND SHALL BE INSTALLED.

NEUTRAL

CONDUIT

**Heard County** Amphitheater

River Walk Franklin, GA 30217

NO RELEASED FOR CONSTRUCTION

REVISIONS



 A Professional Corporation for the Practice of Architecture

www.gsstj.com

: Tower Place : 3340 Peachtree Road, N.E. : Suite 1800 Atlanta, Georgia 30326404.522.8805 : 404.521.2118 (F)

: 20104

SHEET TITLE : LEGEND, GENERAL NOTES, : LIGHTING FIXTURE SCHEDULE, : PANELBOARD SCHEDULES,

: RISER DIAGRAM SHEET NO.

PROJECT NO.

E0.



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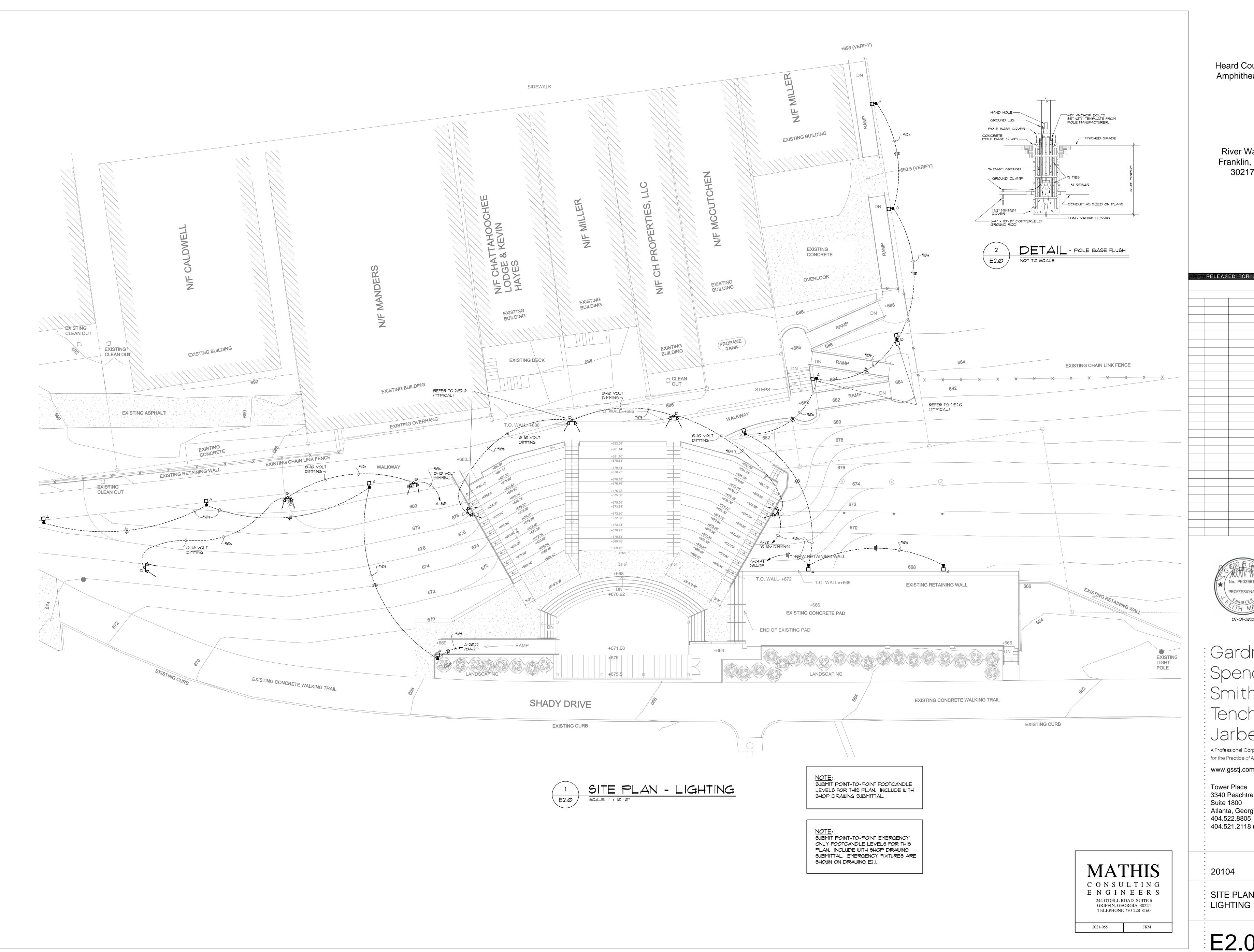
Atlanta, Georgia 30326404.522.8805404.521.2118 (F)

PROJECT NO.

: 20104

SHEET TITLE : FLOOR PLAN -: POWER

SHEET NO. E1.1



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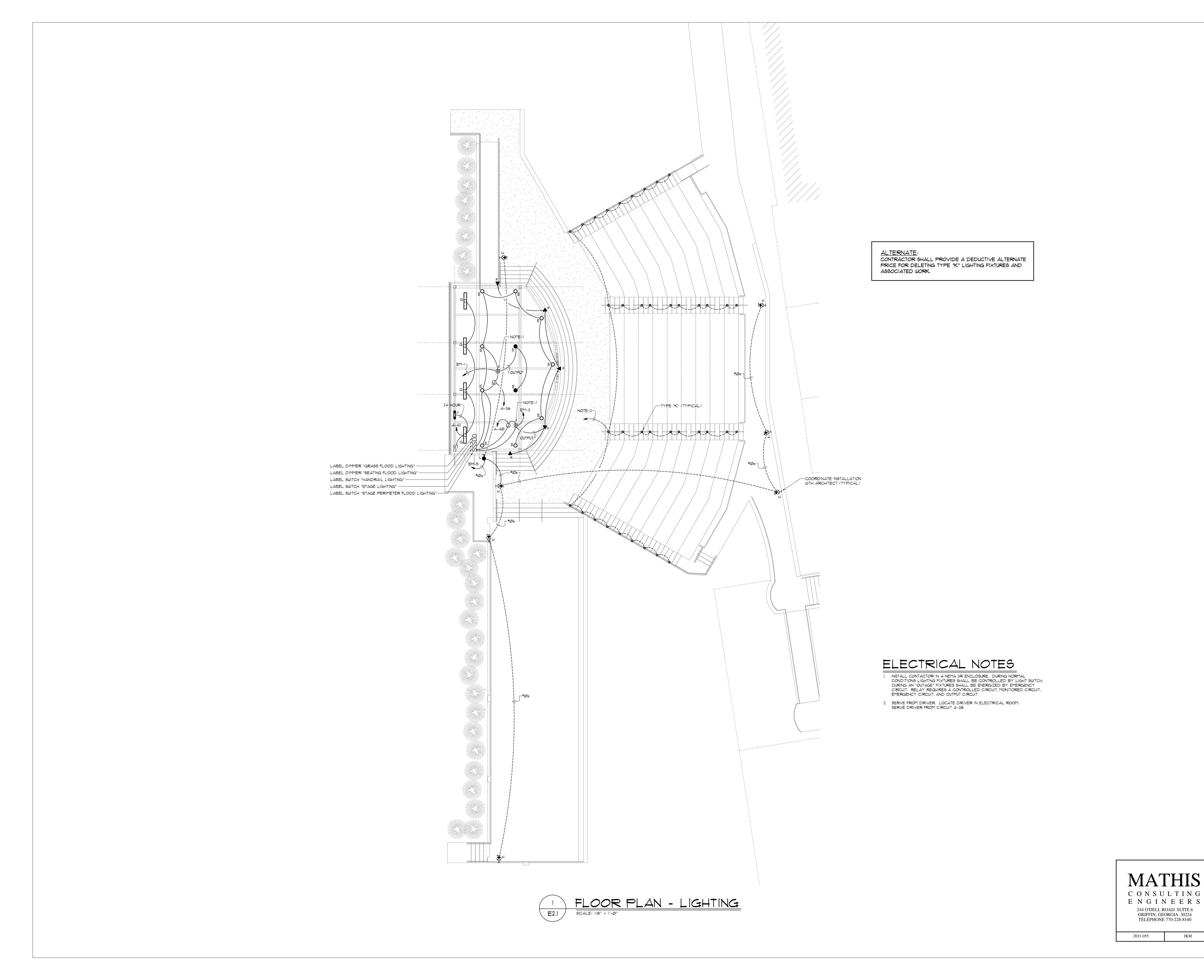
: 20104

SHEET TITLE SITE PLAN -

SHEET NO.

PROJECT NO.

E2.0



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PROJECT NO. 20104

SHEET TITLE : FLOOR PLAN -: LIGHTING

SHEET NO.

E2.