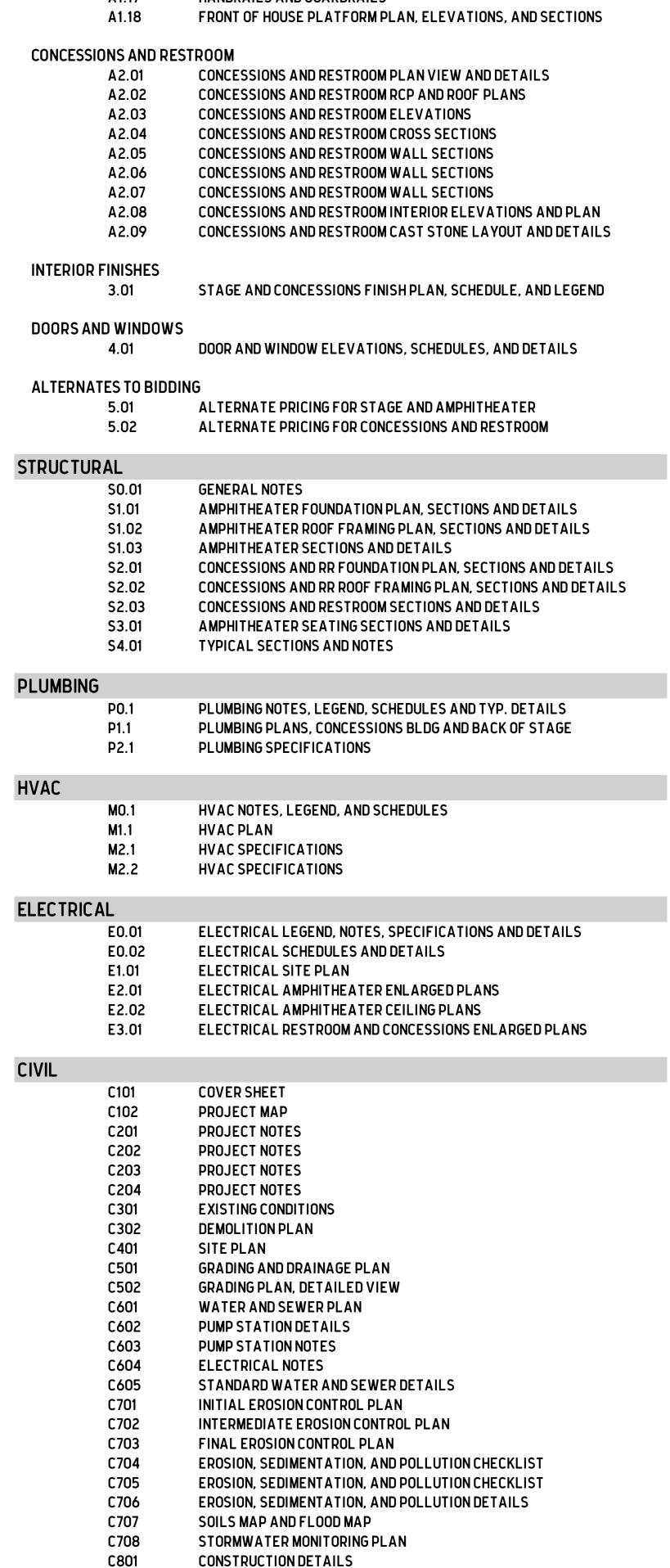
CITY OF ROCKMART

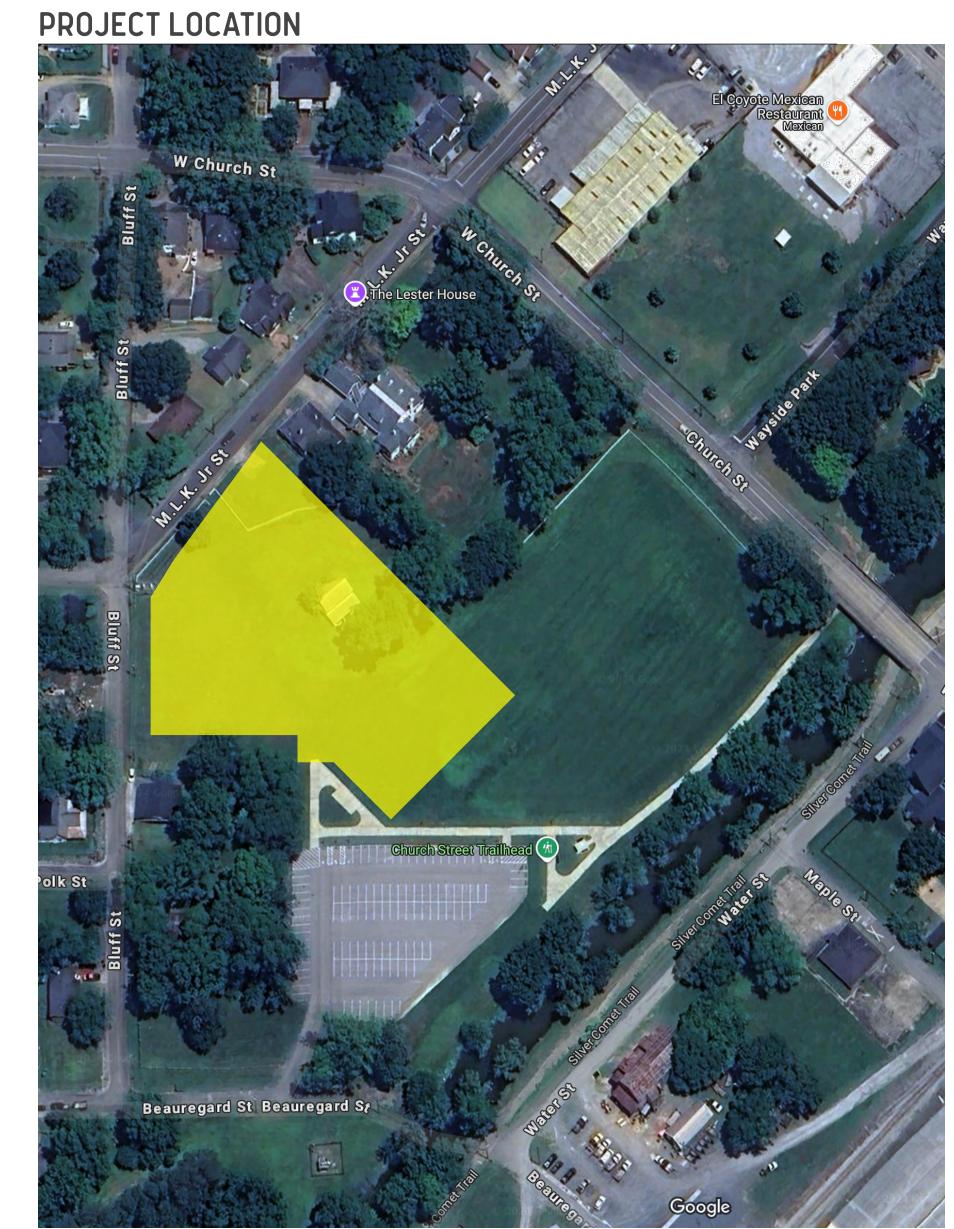
ROCKMART AMPHITHEATER COMPLEX

219 CHURCH STREET, ROCKMART, GEORGIA 30153

SHEET INDEX ARCHITECTURAL LIFE SAFETY **COVER SHEET** TYPICAL ADA DETAILS STAGE AND AMPHITHEATER ARCHITECTURAL SITE PLAN AMPHITHEATER STAGE, LAYOUT SITE PLAN FOUNDATION AND RETAINING WALL LAYOUT AND SECTIONS ENLARGED STAGE PLAN VIEW REFLECTED CEILING PLANS AND ROOF PLANS AMPHITHEATER AND STAGE ELEVATIONS **CROSS SECTIONS** STAGE AND BACK OF HOUSE WALL SECTIONS STAGE AND BACK OF HOUSE WALL SECTIONS STAGE AND BACK OF HOUSE WALL SECTIONS A1.12 ENLARGED BEAM AND COLUMN LAYOUT AND DIMENSIONS STAGE AND BACK OF HOUSE CAST STONE LAYOUT AND DETAILS A1.14 AMPHITHEATER ENLARGED SEATING PLAN VIEW AMPHITHEATER CROSS SECTIONS A1.16 AMPHITHEATER CAST STONE AND DETAILS A1.17 HANDRAILS AND GUARDRAILS A1.18 FRONT OF HOUSE PLATFORM PLAN, ELEVATIONS, AND SECTIONS CONCESSIONS AND RESTROOM CONCESSIONS AND RESTROOM PLAN VIEW AND DETAILS CONCESSIONS AND RESTROOM RCP AND ROOF PLANS CONCESSIONS AND RESTROOM ELEVATIONS CONCESSIONS AND RESTROOM CROSS SECTIONS **CONCESSIONS AND RESTROOM WALL SECTIONS** CONCESSIONS AND RESTROOM WALL SECTIONS CONCESSIONS AND RESTROOM WALL SECTIONS CONCESSIONS AND RESTROOM INTERIOR ELEVATIONS AND PLAN CONCESSIONS AND RESTROOM CAST STONE LAYOUT AND DETAILS INTERIOR FINISHES STAGE AND CONCESSIONS FINISH PLAN. SCHEDULE. AND LEGEND 3.01 DOORS AND WINDOWS 4.01 DOOR AND WINDOW ELEVATIONS, SCHEDULES, AND DETAILS ALTERNATES TO BIDDING ALTERNATE PRICING FOR STAGE AND AMPHITHEATER 5.01 ALTERNATE PRICING FOR CONCESSIONS AND RESTROOM **GENERAL NOTES** AMPHITHEATER FOUNDATION PLAN, SECTIONS AND DETAILS AMPHITHEATER ROOF FRAMING PLAN, SECTIONS AND DETAILS AMPHITHEATER SECTIONS AND DETAILS CONCESSIONS AND RR FOUNDATION PLAN, SECTIONS AND DETAILS CONCESSIONS AND RR ROOF FRAMING PLAN, SECTIONS AND DETAILS CONCESSIONS AND RESTROOM SECTIONS AND DETAILS



DROP INLET DETAILS HEADWALL DETAIL



PROJECT INFORMATION

OCCUPANCY CLASSIFICATION STAGE AREA	ASSEMBLY, GROUP A-3
BUILDING CLASSIFICATION	VB, NOT SPRINKLED
OCCUPANCY CLASSIFICATION CONCESSIONS AND RR	BUSINESS, GROUP B
BUILDING CLASSIFICATION	VB, NOT SPRINKLED

BUILDING CODE REFERENCE

INTERNATIONAL BUILDING CODE w/ Georgia Amendments	2018 EDITI
INTERNATIONAL RESIDENTIAL CODE w/ Georgia Amendments	2018 EDITI
INTERNATIONAL PLUMBING CODE w/ Georgia Amendments	2018 EDITI
NTERNATIONAL MECHANICAL CODE w/ Georgia Amendments	2018 EDITI
INTERNATIONAL FUEL CODE w/ Georgia Amendments	2018 EDITI
INTERNATIONAL ENERGY CONSERVATION CODE w/ Georgia Amendments	2015 EDITIO
INTERNATIONAL FIRE CODE w/ Georgia Amendments	2018 EDITI
INTERNATIONAL SWIMMING POOL AND SPA CODE w/ Georgia Amendments	2018 EDITI
NFPA 70 : NATIONAL ELECTRIC CODE w/ Georgia Amendments	2020 EDITI
NFPA 101 : LIFE SAFETY CODE w/ Georgia Amendments	2018 EDITI
NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS w/ Georgia Amendments	2019 EDITI
NFPA 72 : NATIONAL FIRE ALARM & SIGNALING CODE w/ Georgia Amendments	2019 EDITI
ADA STANDARDS FOR ACCESSIBLE DESIGN w/ Georgia Amendments	2010 EDITI

BRIEF DESCRIPTION

LOCATED ADJACENT TO THE SILVER COMET TRAIL IN ROCKMART. GEORGIA. THE AMPHITHEATER COMPLEX IS COMPRISED OF THREE DISTINCT COMPONENTS. THE AMPHITHEATER SEATING AREA, THE DUAL STAGE WITH BACK OF HOUSE AREA, AND THE CONCESSIONS AND RESTROOM BUILDING. THIS VENUE WILL HOUSE APPROXIMATELY 400 SEATED PATRONS IN THE AMPHITHEATER SEATING AREA AND APPROXIMATELY 2.000 STANDING PATRONS IN THE FIELD AREA. THE VENUE IS TO BE CONSTRUCTED PRIMARILY OF GLULAM TIMBER AND STEEL WITH THE FACADE COMPOSED OF MANUFACTURED STONE VENEER. THE PROJECT IS TO BE

CONSTRUCTED PER THE CONTRACT DOCUMENTS AND PROJECT MANUAL.

THE INTENT OF THE DRAWINGS IS TO REPRESENT THE GENERAL NATURE OF THE PROJECT SCOPE OF WORK.

ALL WORK SHALL COMPLY WITH THE FEDERAL. STATE. AND LOCAL BUILDING CODES AND REGULATIONS HAVING JURISDICTION.

ALL MECHANICAL, PLUMBING, AND ELECTRICAL UTILITIES ARE TO BE INSTALLED PER THE APPLICABLE BUILDING CODES AND BY A

THE CONTRACTOR SHALL COORDINATE WITH THE AGENCIES HAVING JURISDICTION TO OBTAIN ALL BUILDING PERMITS AND FIELD APPROVALS REQUIRED FOR DEMOLITION, CONSTRUCTION, AND CERTIFICATES OF OCCUPANCY.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES.

THE CONTRACTOR SHALL PROVIDE COMPLETE LABOR, MATERIALS, AND SUPERVISION FOR ALL ITEMS REQUIRED FOR FULL INSTALLATION AND OPERATION OF THE PROJECT SCOPE OF WORK

THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND NATIONAL SAFETY REQUIREMENTS AND SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY DURING DEMOLITION AND CONSTRUCTION; ADEQUATE SHORING AND BRACING IS TO BE PROVIDED TO **ENSURE SUCH SAFETY**

THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE JOB SITE AND FIELD VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF WORK.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES. WHETHER INDICATED ON THE PLANS OR NOT, AND TO PRESERVE AND PROTECT THEM FROM DAMAGE.

DURING CONSTRUCTION, AND PRIOR TO THE COMMENCEMENT OF ANY CHANGE, ALL REVISIONS, MODIFICATIONS, AND/OR DEVIATIONS FROM THE CONSTRUCTION DRAWINGS ARE TO BE APPROVED BY THE ARCHITECT.

UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE SIZE, LOCATION, AND CHARACTERISTICS OF ALL WORK AND

ALL DETAILS, SECTIONS, NOTES, OR REFERENCES TO OTHER DRAWINGS ARE INTENDED TO BE TYPICAL.

COUNTERTOPS, ETC., AND PROVIDE ADEQUATE BLOCKING TO WITHSTAND A 250LB. VERTICAL LOAD.

SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN. CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

ERRORS AND/OR OMISSIONS IN SCHEDULES AND LEGENDS DO NOT RELIEVE THE CONTRACTOR FROM WORK SHOWN ON THE

ANY NOTE, SYMBOL, TITLE, REFERENCE, ETC. WITH AN "X" OR "?" SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO THE

THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. IN THE EVENT OF AN OMISSION OF REQUIRED DIMENSIONS.

THE CONTRACTOR SHALL VERIFY THE REQUIREMENT FOR BLOCKING IN WALLS FOR SHELVING, HANDRAILS, GRAB BARS, VANITIES,

THE BASIS OF DESIGN IS PROVIDED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS. SUBSTITUTIONS FROM WHAT IS SPECIFIED



SUBCONTRACTOR LICENSED IN THE STATE IN WHICH THE WORK IS BEING PERFORMED.

ALL EQUIPMENT, MATERIALS, AND PRODUCTS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS.

EOUIPMENT BEING FURNISHED BY OWNER OR OTHERS.

DRAWINGS.

COMMENCEMENT OF WORK.

NOTIFY THE ARCHITECT IMMEDIATELY.

OR FROM APPROVED MANUFACTURERS MUST BE SUBMITTED TO THE ARCHITECT DURING THE BID PHASE. SUBSTITUTIONS WILL BE REVIEWED FOR CHARACTERISTIC CONFORMANCE, AND - IF FOUND AS EQUAL - WILL BE APPROVED.

ALL AREAS OF THE SCOPE OF WORK ARE TO BE EXTENSIVELY CLEANED AFTER COMPLETION OF CONSTRUCTION AND PRIOR TO OCCUPATION BY THE OWNER.



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ROCKMART IART AMPHITHEATER COMPLEX

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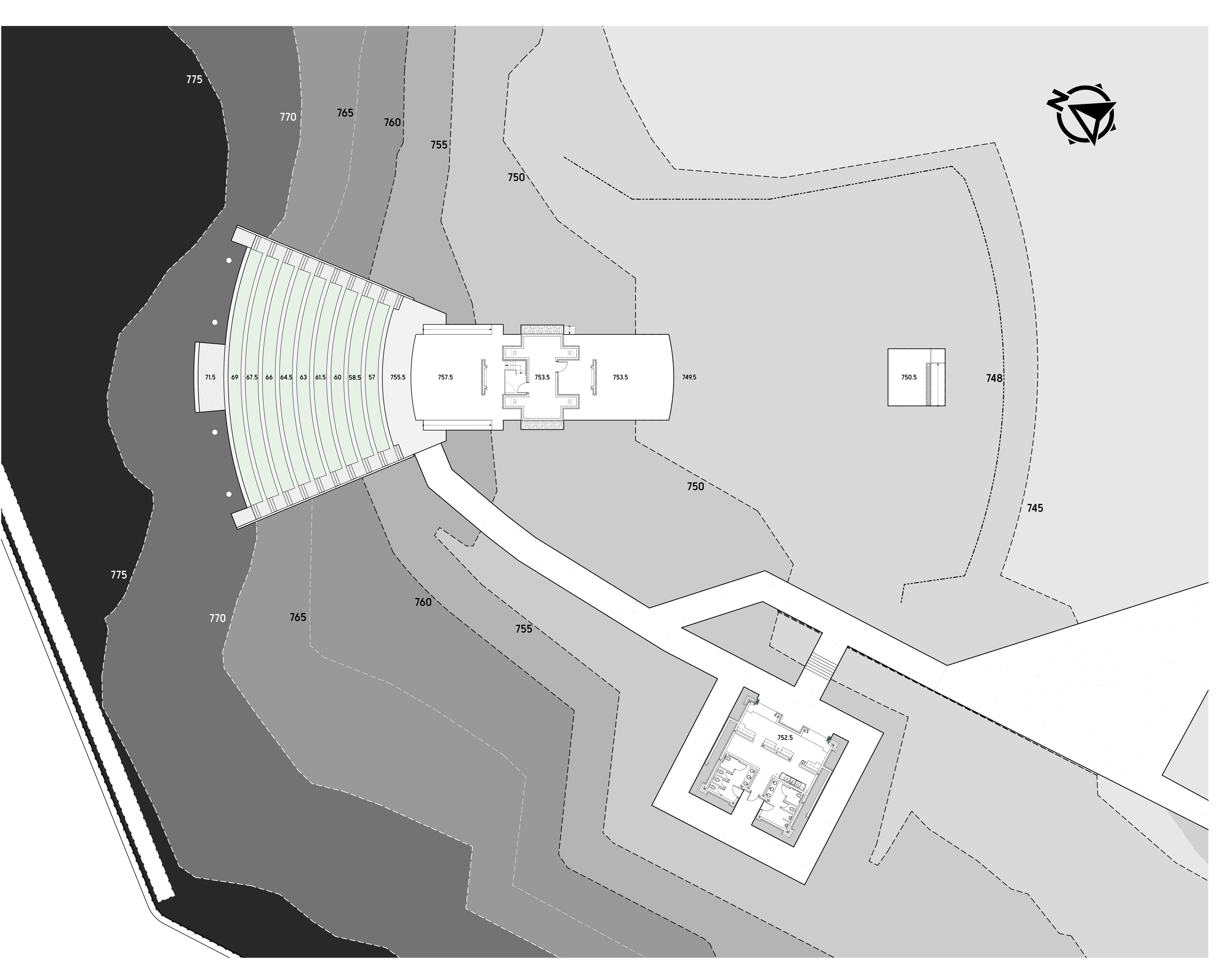
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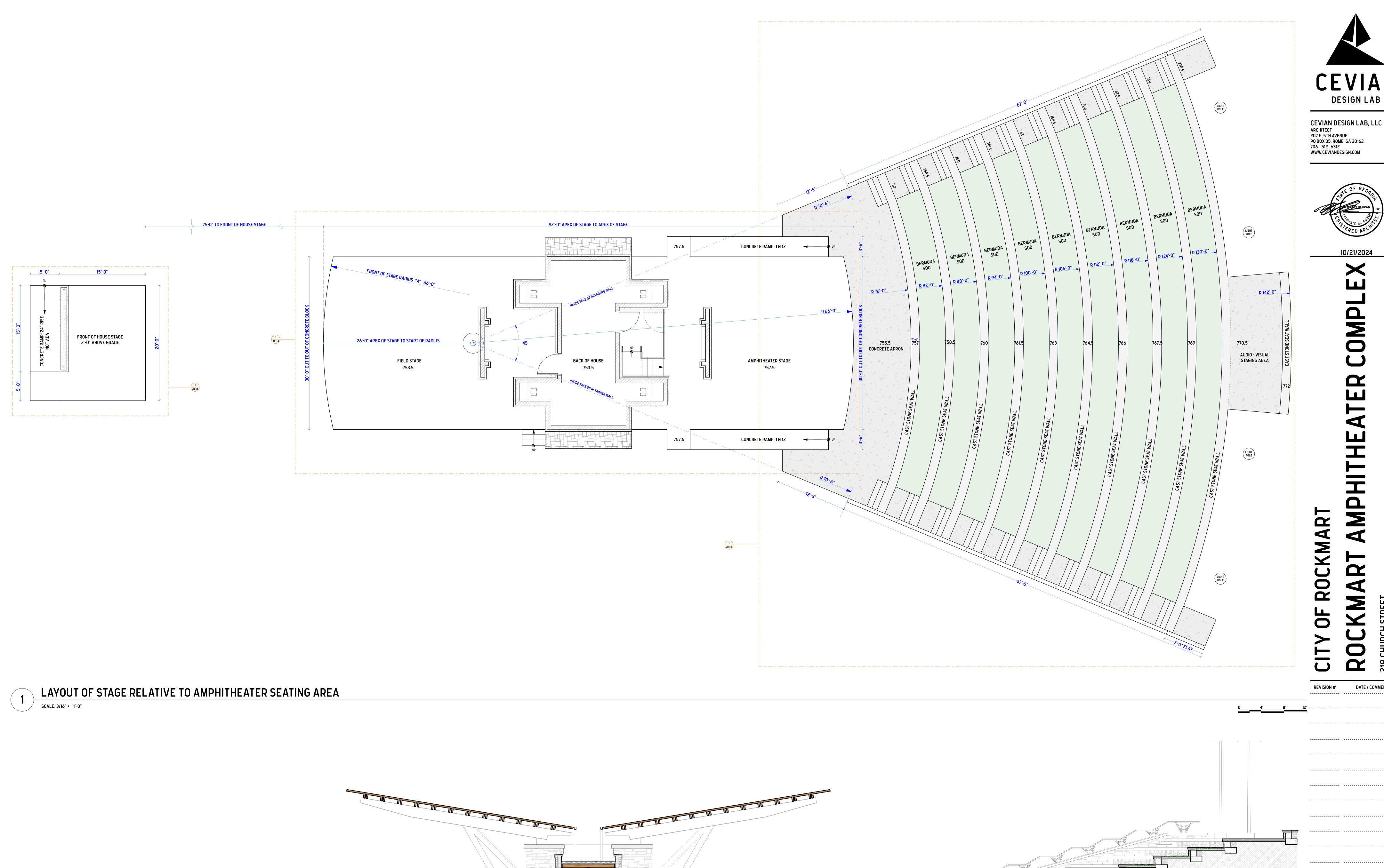
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ARCHITECTURAL SITE PLAN

SHEET TITLE



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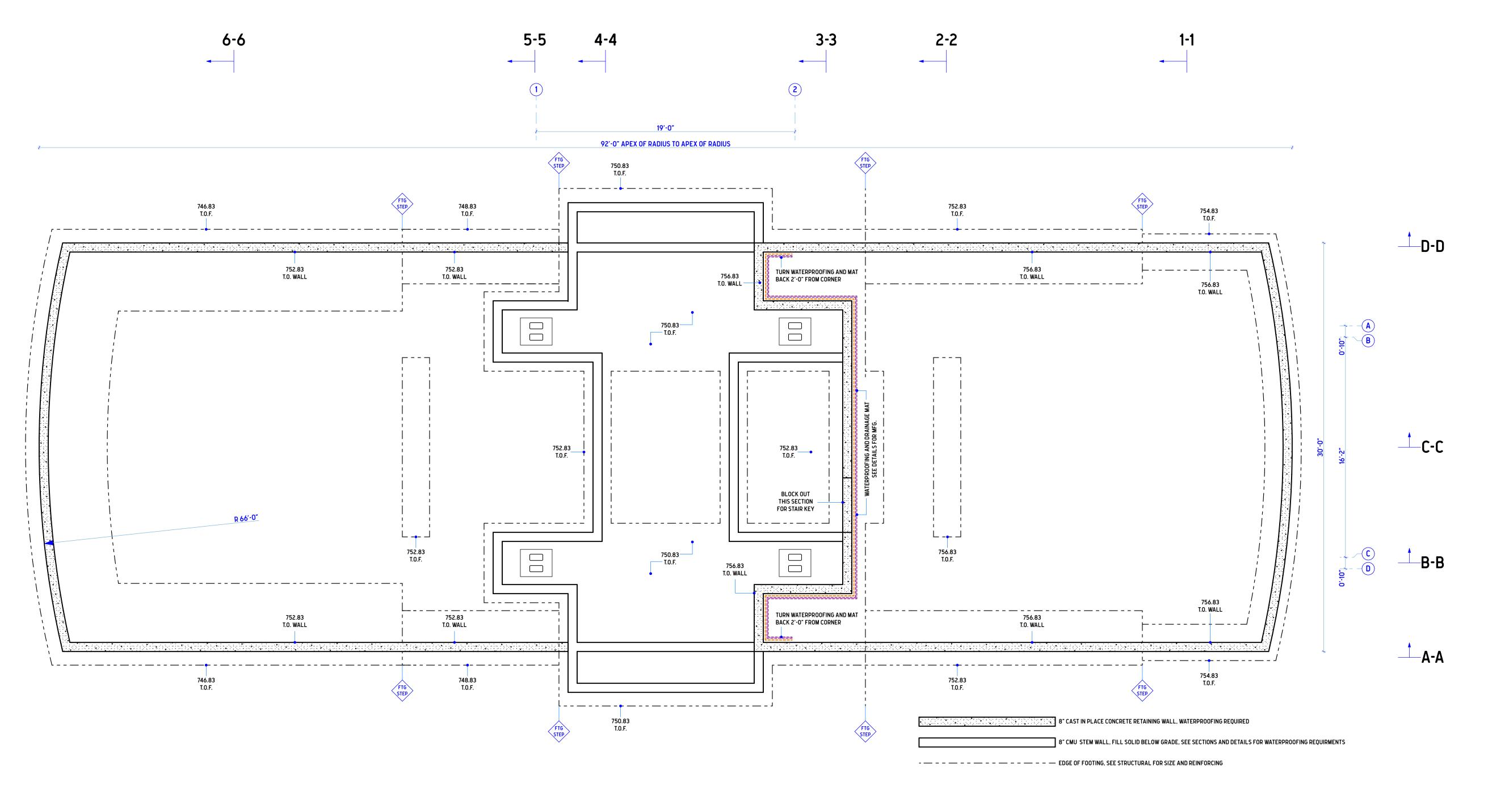
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AMPHITHEATER STAGE,

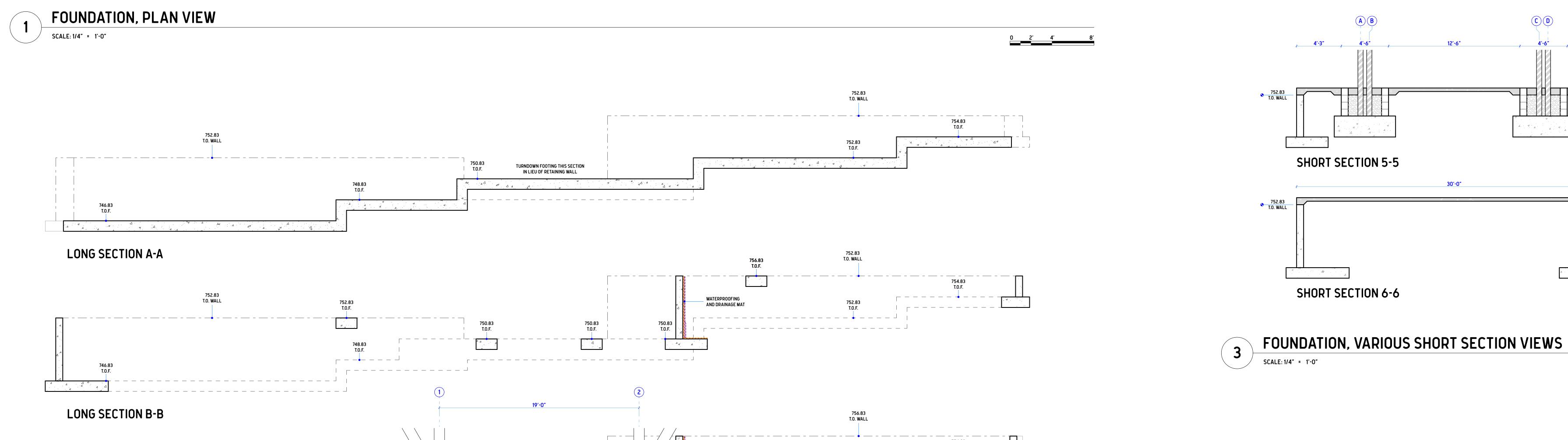
TYPICAL CENTER SECTION, NON-DETAILED VIEW

SCALE: 3/16" = 1'-0"

A1.02

LAYOUT SITE PLAN





IF A CONFLICT EXIST WITH THE STRUCTURAL DESIGN, THE STRUCTURAL DESIGN TAKES PRECEDENCE.

SHORT SECTION 1-1

0'-8", 3'-7" 0'-8", 3'-2" 0'-8",

SHORT SECTION 4-4

0'-8", 3'-2" 0'-8", 3'-7" 0'-8",



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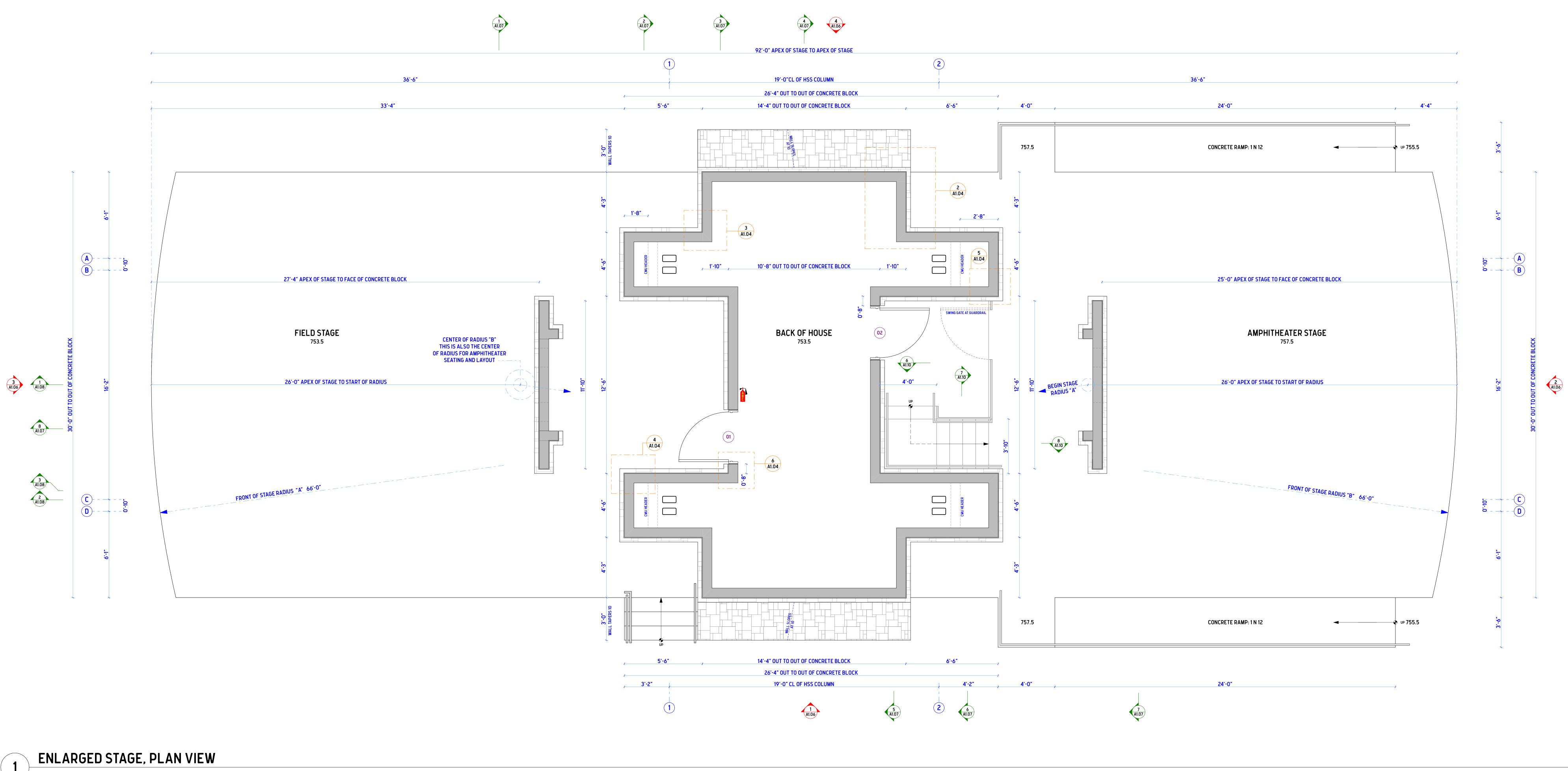
RETAINING WALL

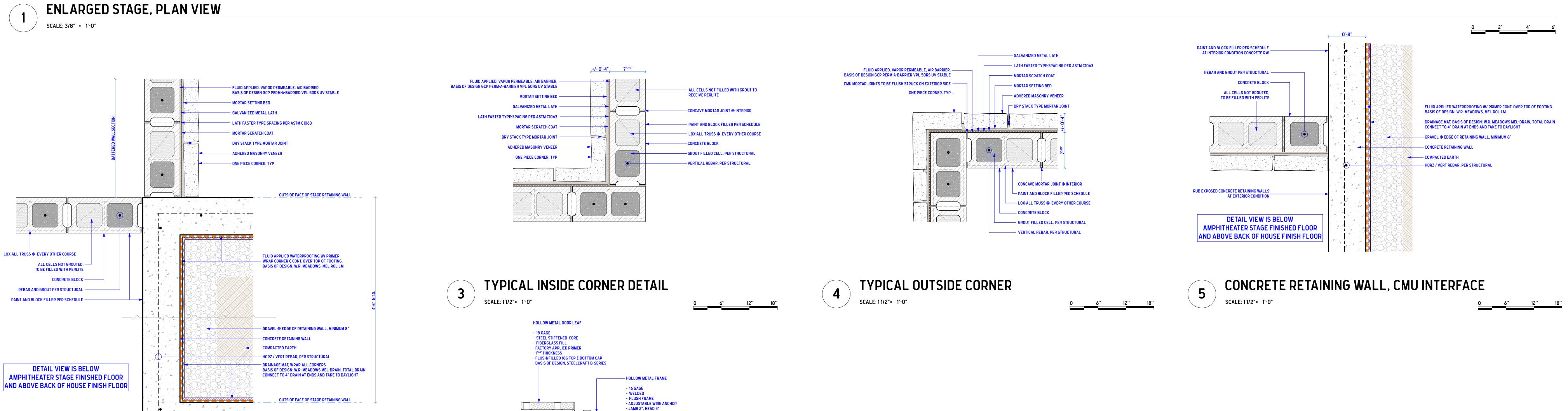
LAYOUT AND SECTIONS



LONG SECTION D-D

LONG SECTION C-C





- FILL JAMB AND HEAD SOLID WITH MORTAR

- FACTORY PRIME PAINTED
- BASIS OF DESIGN, STEELCRAFT

BACKROD AND SEALANT, BOTH SIDES —

TYPICAL DOOR JAMB DETAIL

RETAINING WALL CORNER TO CMU INTERFACE

SCALE: 11/2"= 1'-0"



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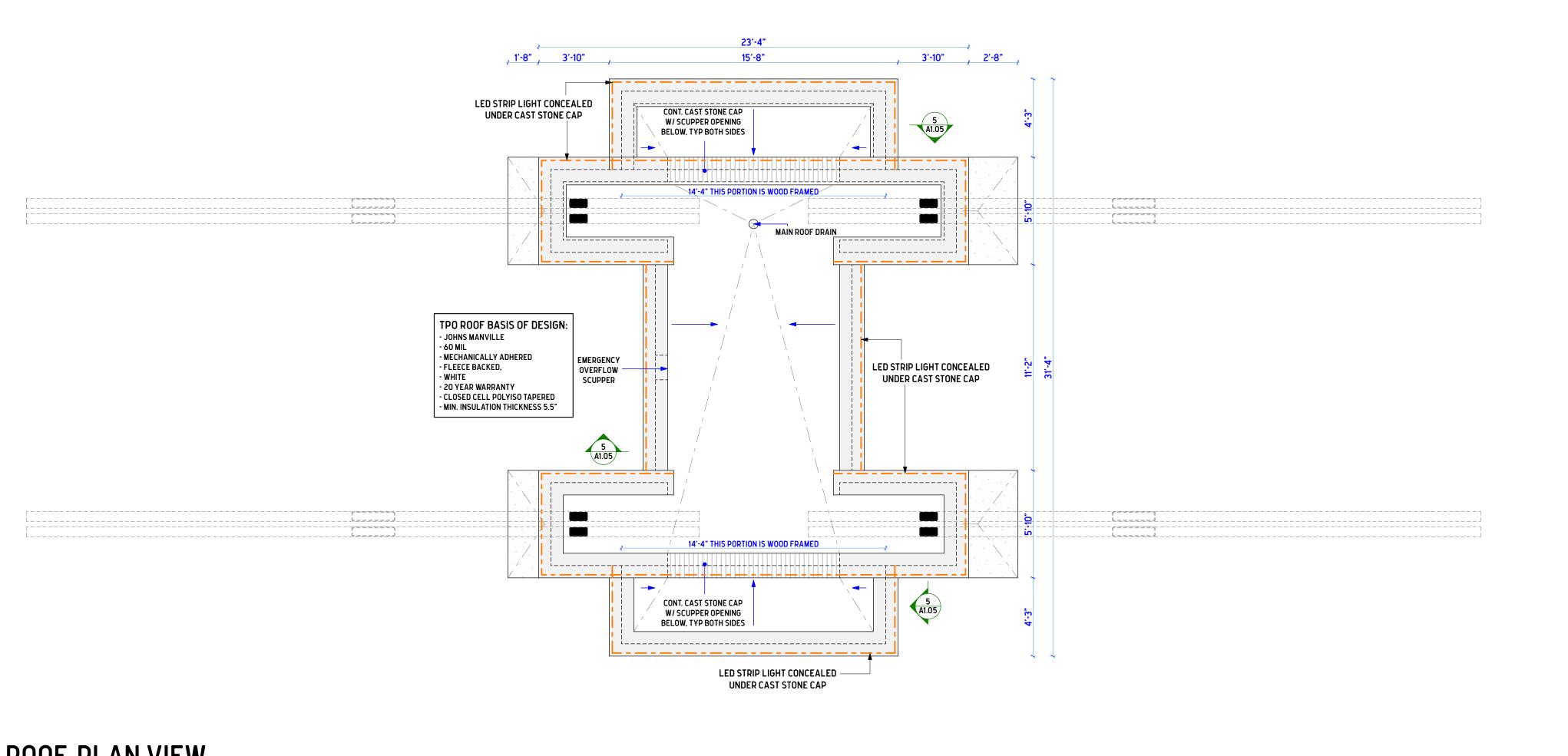


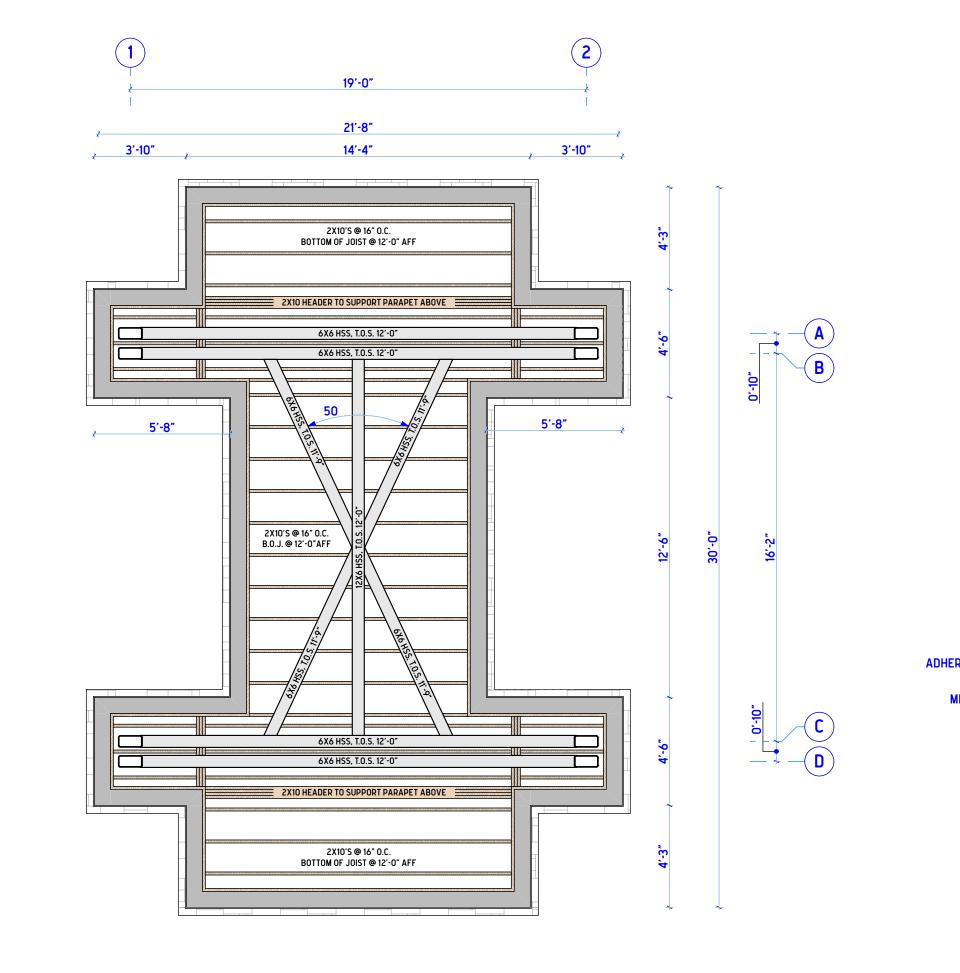
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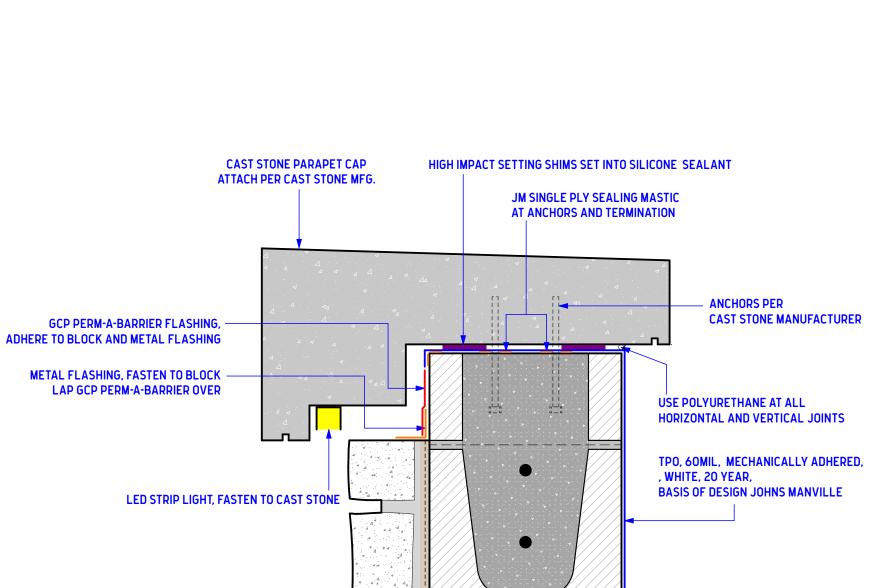
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ENLARGED STAGE PLAN









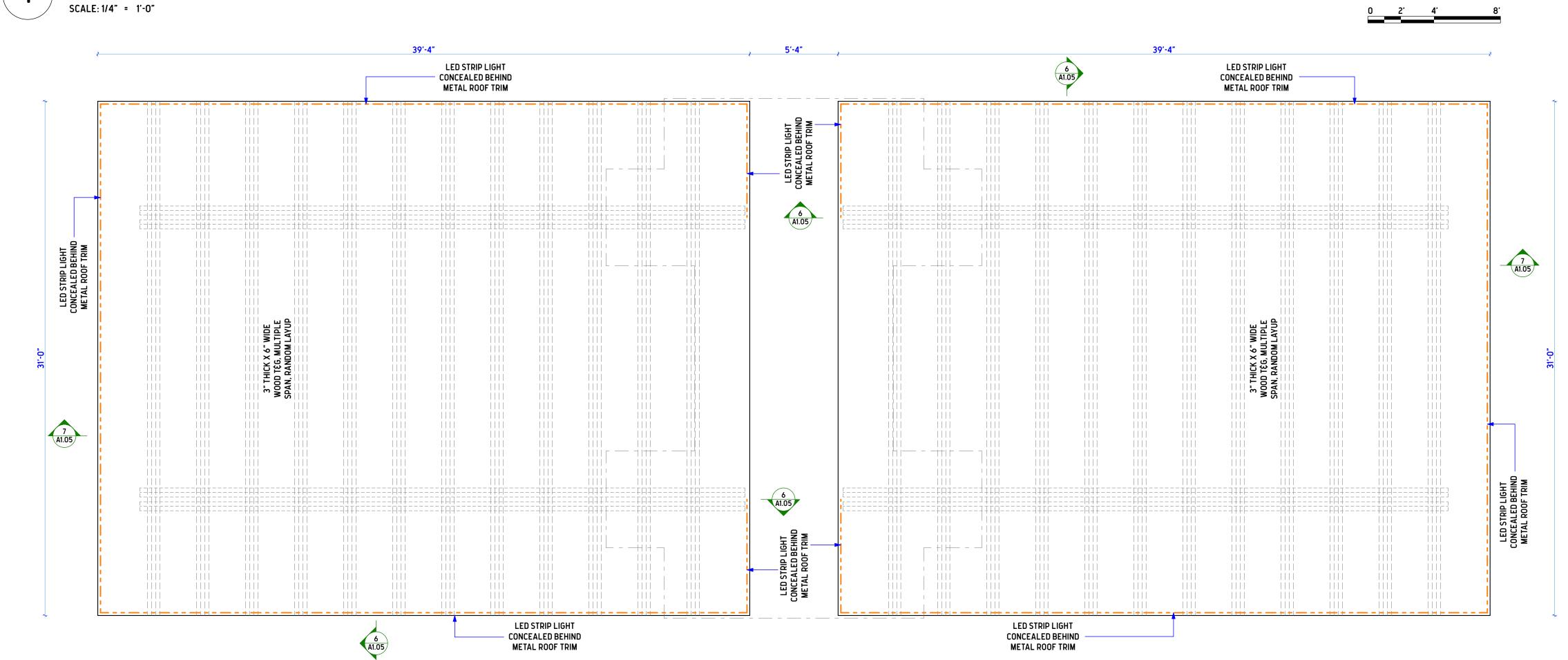
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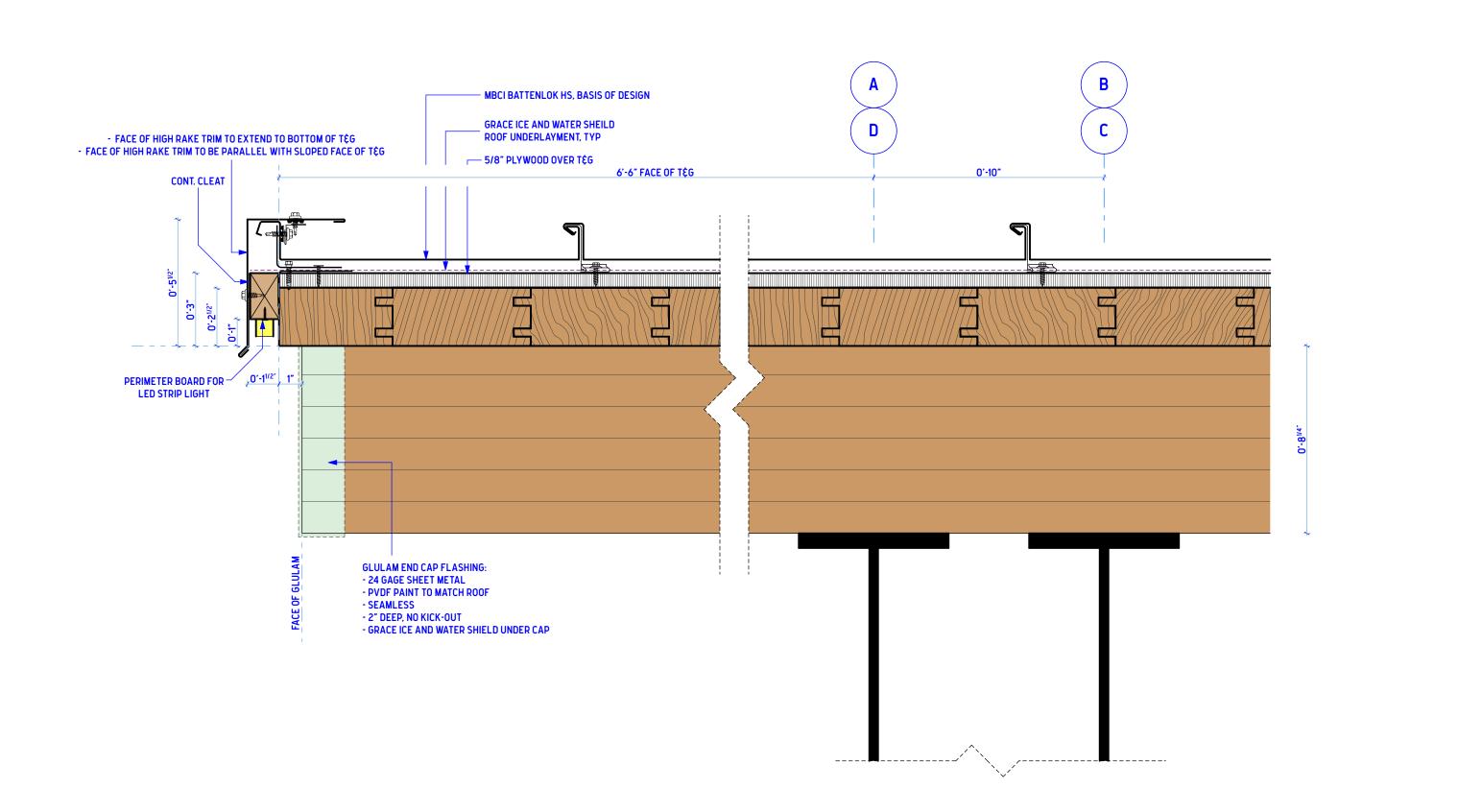
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LOW ROOF, PLAN VIEW



INTERIOR REFLECTED CEILING PLAN SCALE: 1/4" = 1'-0"





TYPICAL RAKE DETAIL @ METAL ROOF

SCALE: 3" = 1'-0"

BUTTERFLY ROOF, REFLECTED CEILING PLAN



- MBCI BATTENLOK HS, BASIS OF DESIGN MBCI BATTENLOK HS, BASIS OF DESIGN GRACE ICE AND WATER SHEILD ROOF UNDERLAYMENT, TYP 4" BOX GUTTER — MBCI BASIS OF DESIGN

6 LOW EAVE GUTTER/ROOF DETAIL

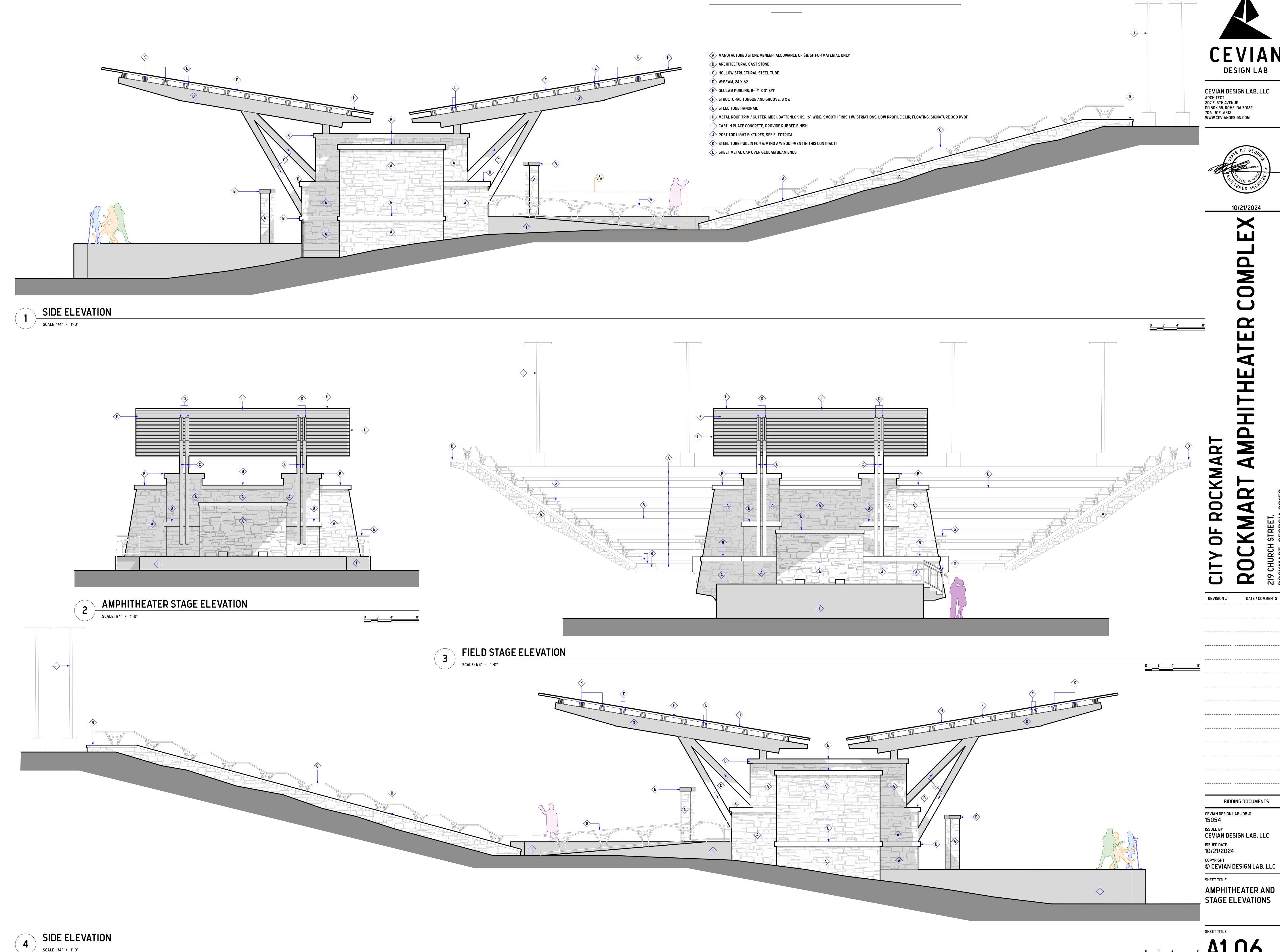
HIGH EAVE TRIM DETAIL

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- FACE OF HIGH RAKE TRIM TO EXTEND TO BOTTOM OF TEG - FACE OF HIGH RAKE TRIM TO BE PARALLEL WITH SLOPED FACE OF TEG

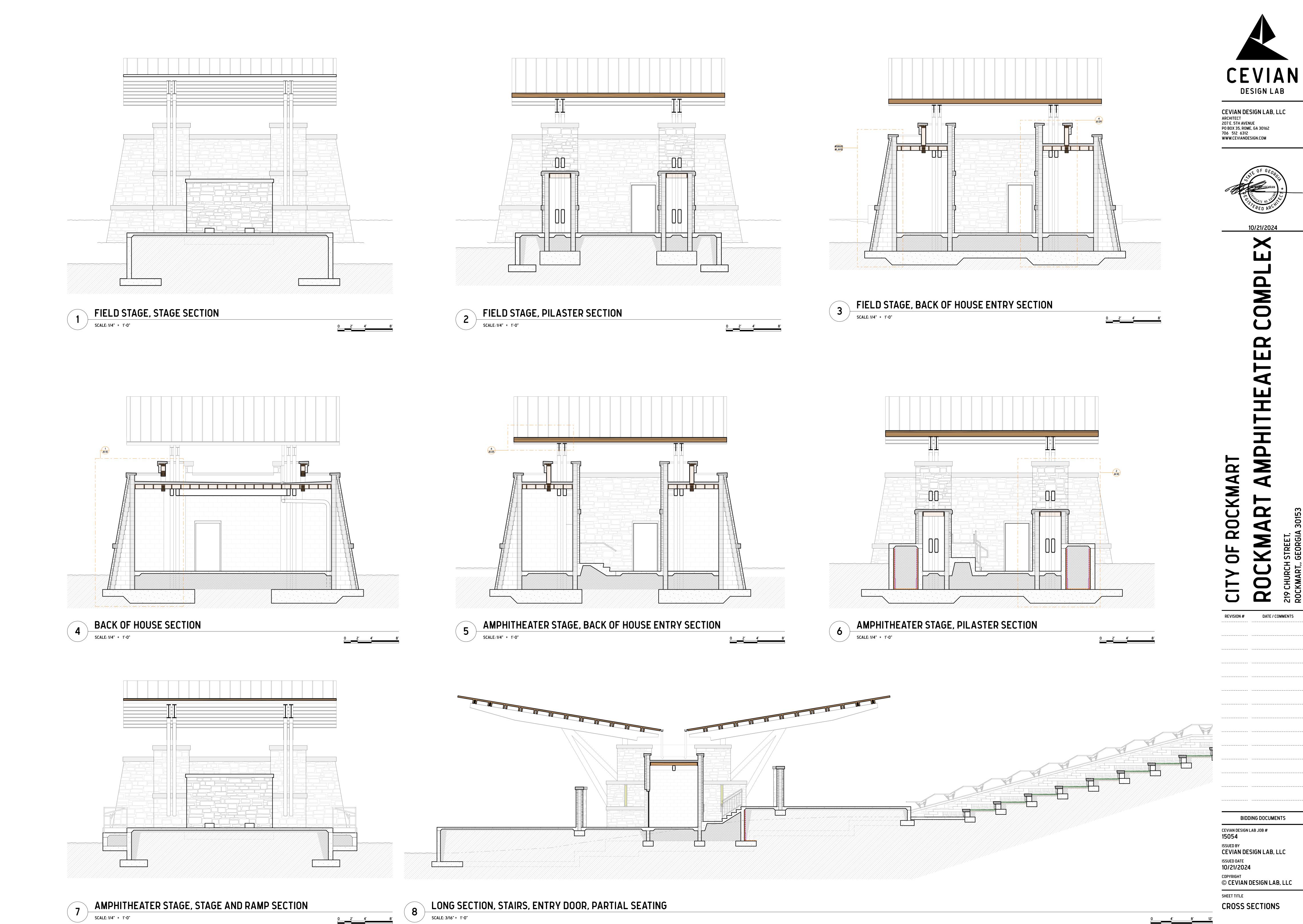
REFLECTED CEILING **PLANS AND ROOF PLANS**

UPPER ROOF, PLAN VIEW

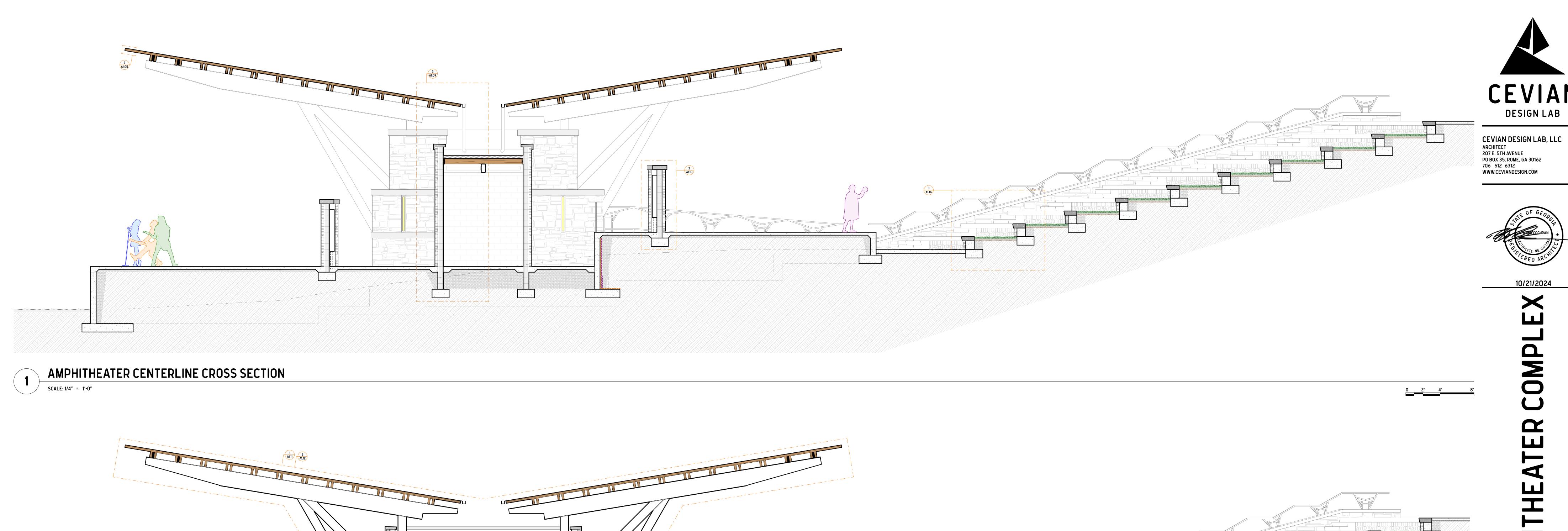


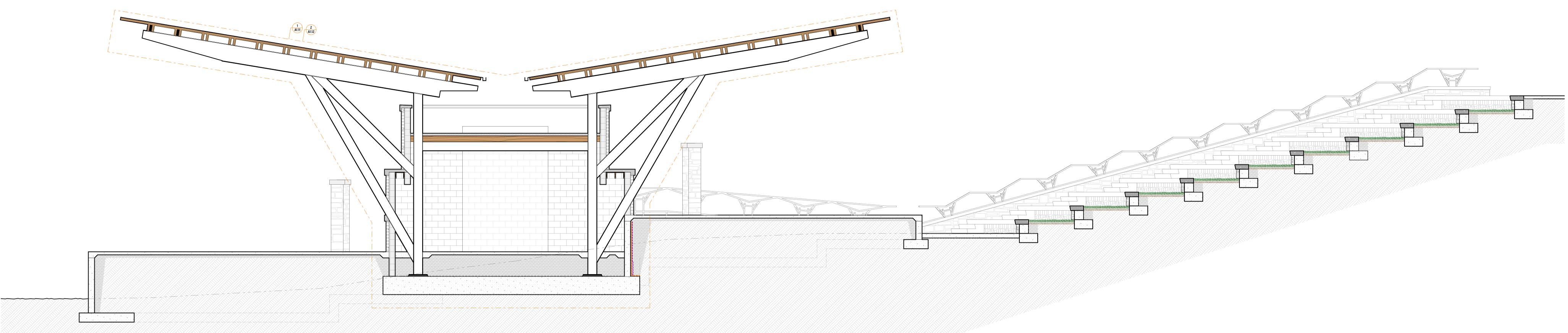
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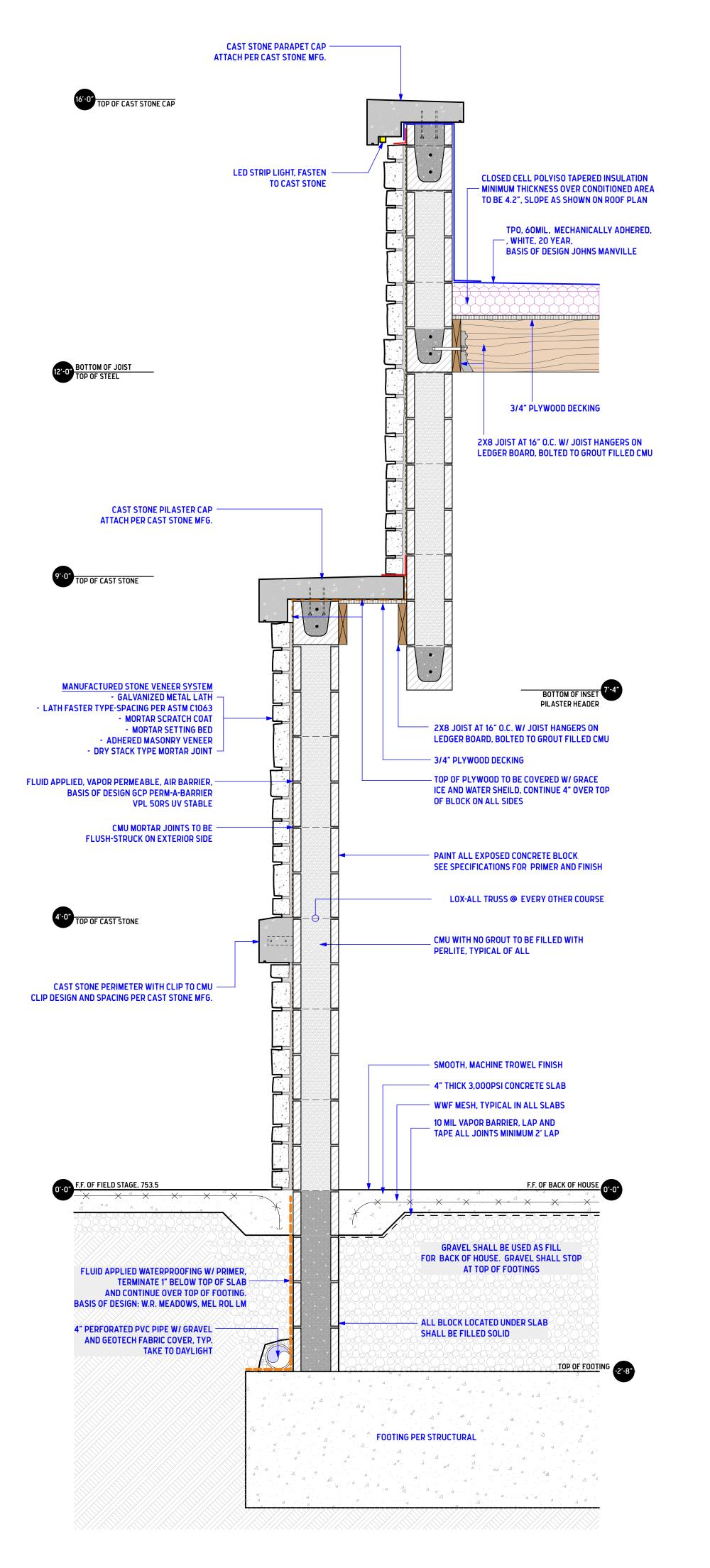
CROSS SECTIONS

3 AMPHITHEATER BACK OF HOUSE ENTRY CROSS SECTION

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

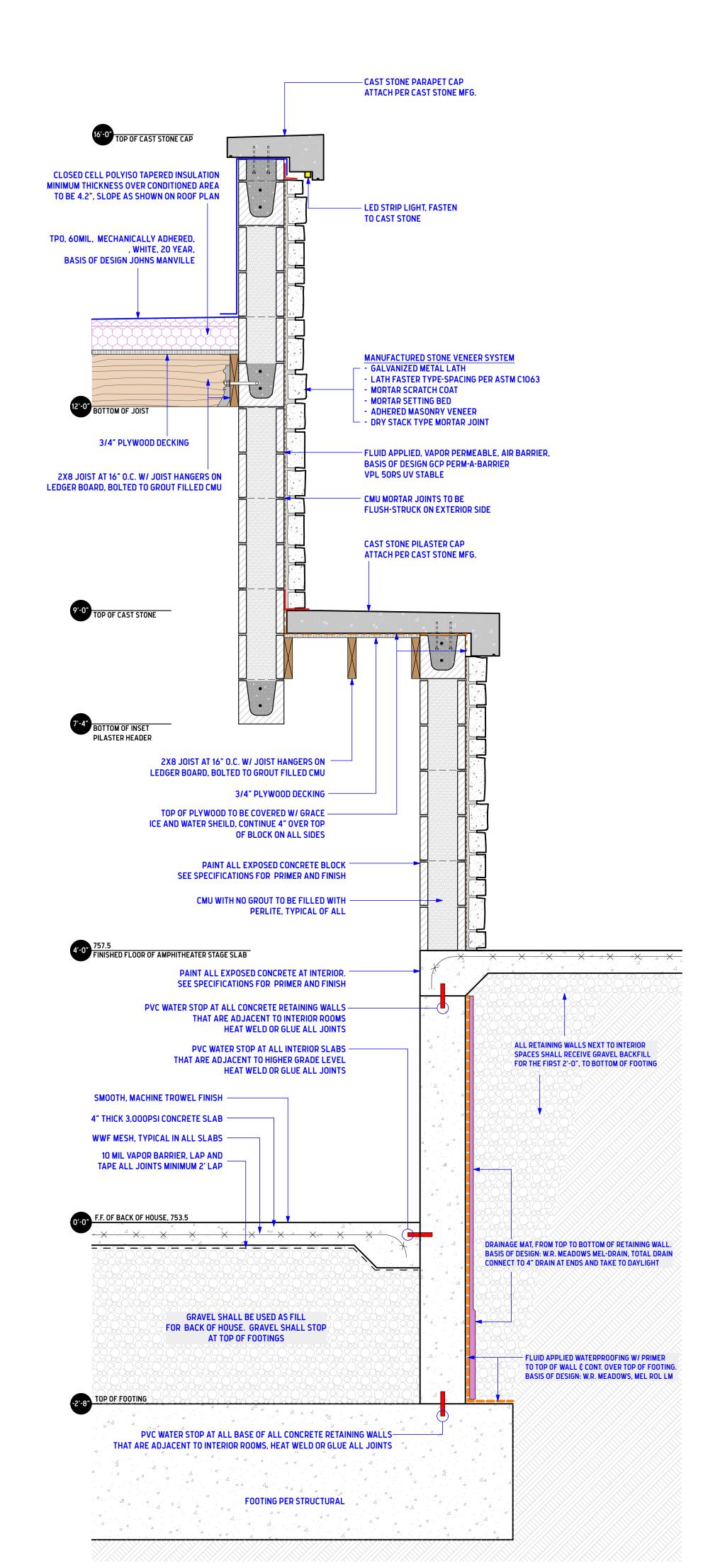
2 AMPHITHEATER STRUCTURAL STEEL CENTERLINE CROSS SECTION

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

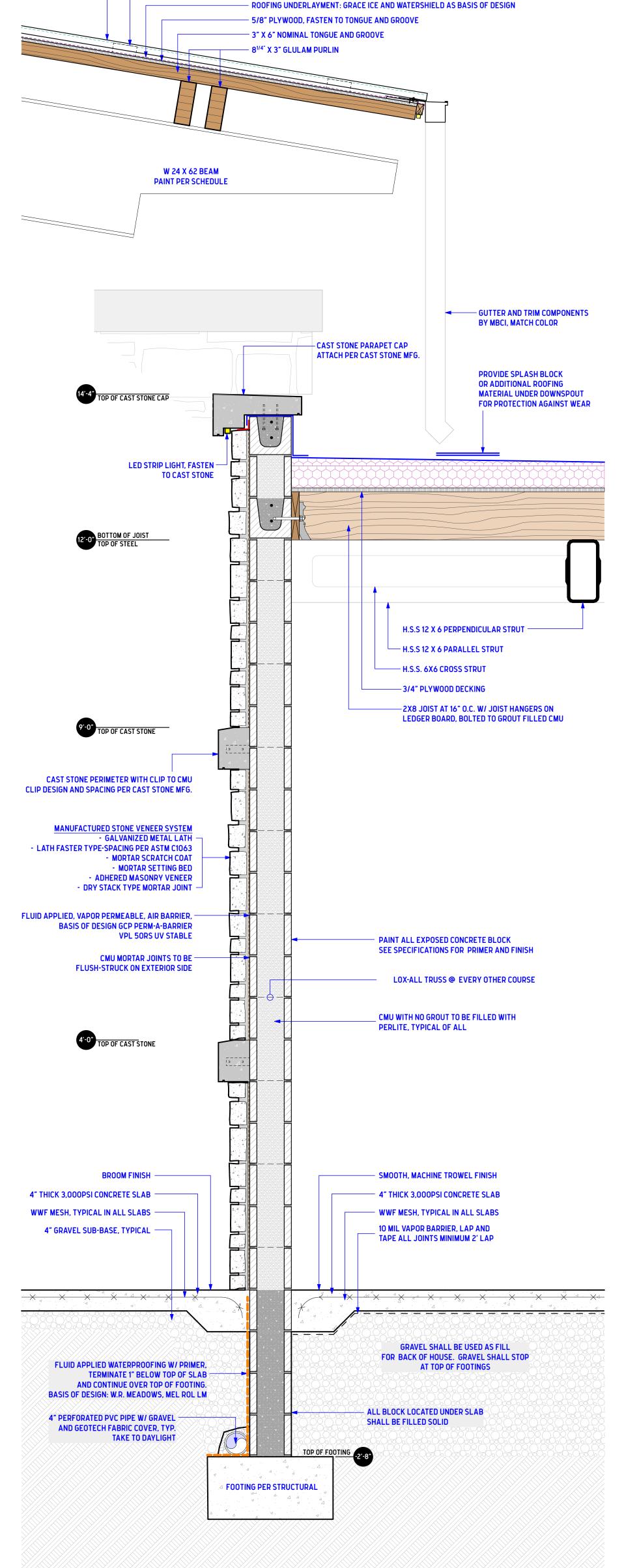


FIELD STAGE PILASTER SECTION

SCALE: 1" = 1'-0"







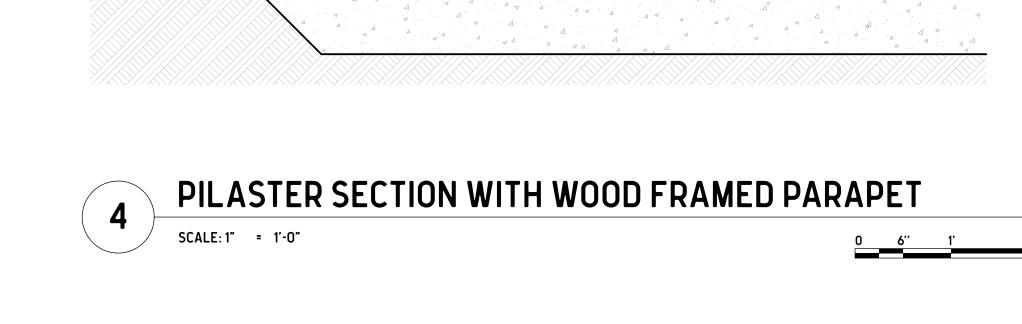
BACK OF HOUSE ENTRY WALL, FIELD STAGE SIDE

SCALE: 1" = 1'-0"

MBCI BATTENLOK HS PANEL 24 GAGE, 16" WIDE SMOOTH FINISH,

- PANEL CLIP, SPACING PER MFG.

W/ STRIATIONS, LOW PROFILE CLIP, FLOATING, SIGNATURE 300 PVDF, BASIS OF DESIGN



4'-6" FACE OF BLOCK TO FACE OF SHEATING

4-2X10 HEADER WITH

2X8 SYP @ 12" O.C. —

PAINT ALL EXPOSED CONCRETE BLOCK

CMU WITH NO GROUT TO BE FILLED WITH

- SMOOTH, MACHINE TROWEL FINISH

— 4" THICK 3,000PSI CONCRETE SLAB

- WWF MESH, TYPICAL IN ALL SLABS

10 MIL VAPOR BARRIER, LAP AND

TAPE ALL JOINTS MINIMUM 2' LAP

FOR BACK OF HOUSE. GRAVEL SHALL STOP

PERLITE, TYPICAL OF ALL

SEE SPECIFICATIONS FOR PRIMER AND FINISH

LOX-ALL TRUSS @ EVERY OTHER COURSE

TOP AND BOTTOM PLATE

1/2" ADVANTECH ZIP SYSTEM SHEATHING AT EACH SIDE AND TOP OF PARAPET WALL, TERMINATE AT ROOF DECKING, USE ZIP TAPE

16'-0" TOP OF CAST STONE CAP

MANUFACTURED STONE VENEER SYSTEM

- LATH FASTER TYPE-SPACING PER ASTM C1063

FLUID APPLIED, VAPOR PERMEABLE, AIR BARRIER,

BASIS OF DESIGN GCP PERM-A-BARRIER

CAST STONE PERIMETER WITH CLIP TO CMU

CLIP DESIGN AND SPACING PER CAST STONE MFG.

FLUID APPLIED WATERPROOFING W/ PRIMER,

BASIS OF DESIGN: W.R. MEADOWS, MEL ROL LM

4" PERFORATED PVC PIPE W/ GRAVEL

AND GEOTECH FABRIC COVER, TYP.

TAKE TO DAYLIGHT

TERMINATE 1" BELOW TOP OF SLAB

AND CONTINUE OVER TOP OF FOOTING.

- GALVANIZED METAL LATH

MORTAR SCRATCH COAT

MORTAR SETTING BED

VPL 50RS UV STABLE

CMU MORTAR JOINTS TO BE —

FLUSH-STRUCK ON EXTERIOR SIDE

- ADHERED MASONRY VENEER

- DRY STACK TYPE MORTAR JOINT -

LED STRIP LIGHT, FASTEN -

TO CAST STONE

AT ALL INTERSECTIONS. DOUBLE TAPE PENETRATIONS



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BOTTOM OF VENEER

INCLUDE DRIP EDGE

AT END OF FLASHING

TWO PIECE COUNTER

FLASHING W

– 2X10 HEADER TO SUPPORT

— 2X10 JOIST @ 16" O.C.

- 3/4" PLYWOOD DECKING

PARAPET STUB WALL ABOVE

HIDDEN TERM BAR

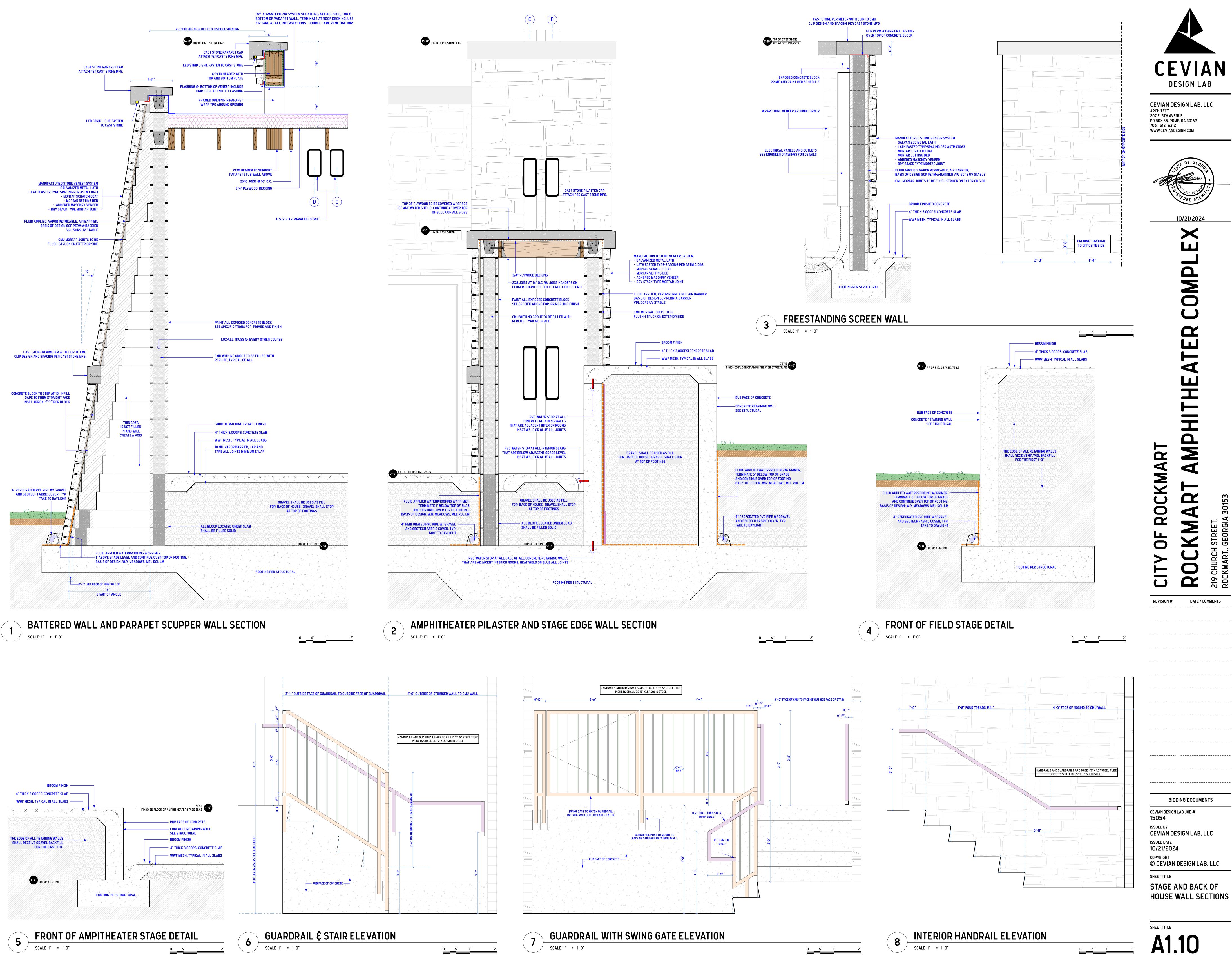
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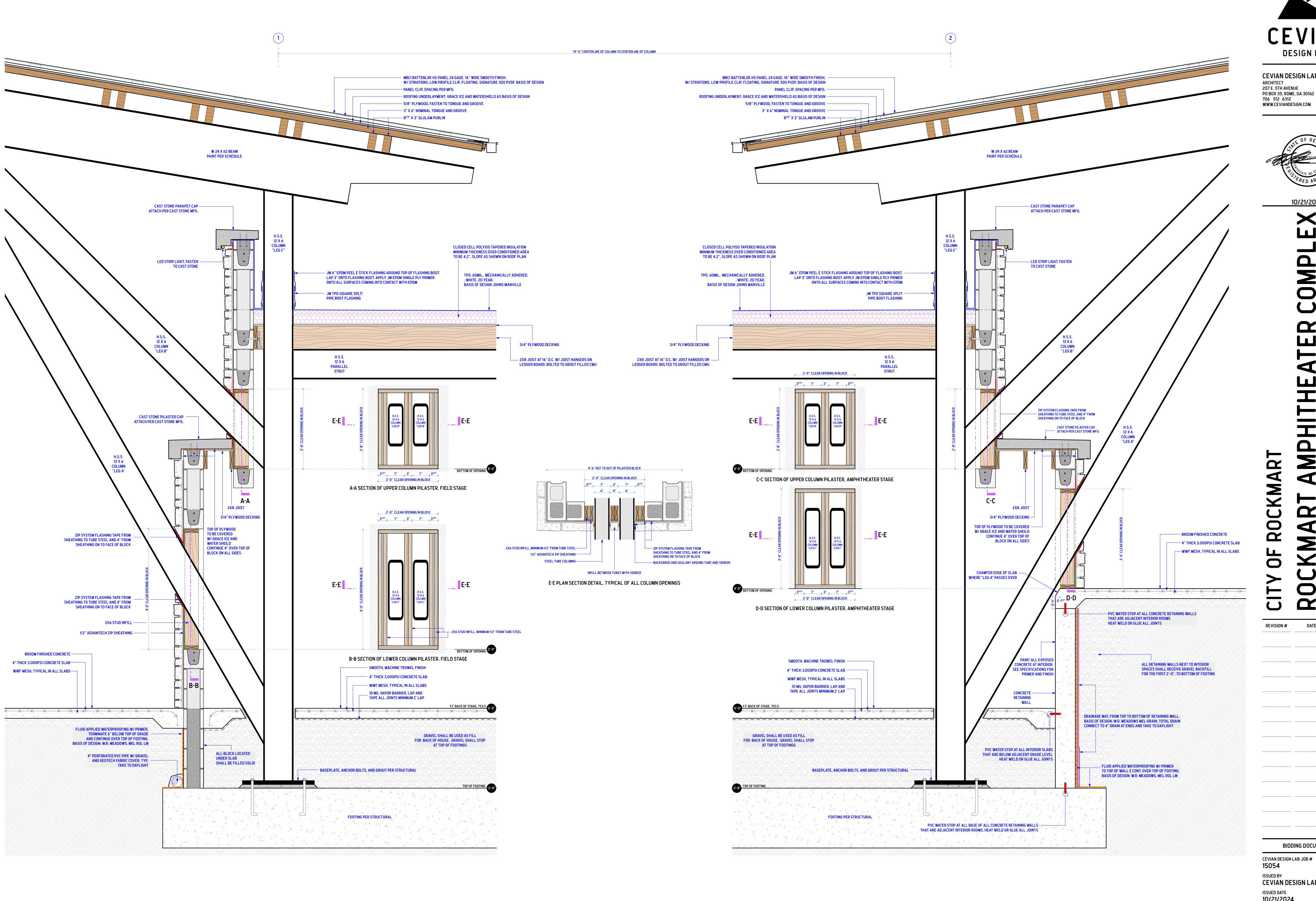
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© CEVIAN DESIGN LAB, LLC STAGE AND BACK OF **HOUSE WALL SECTIONS**

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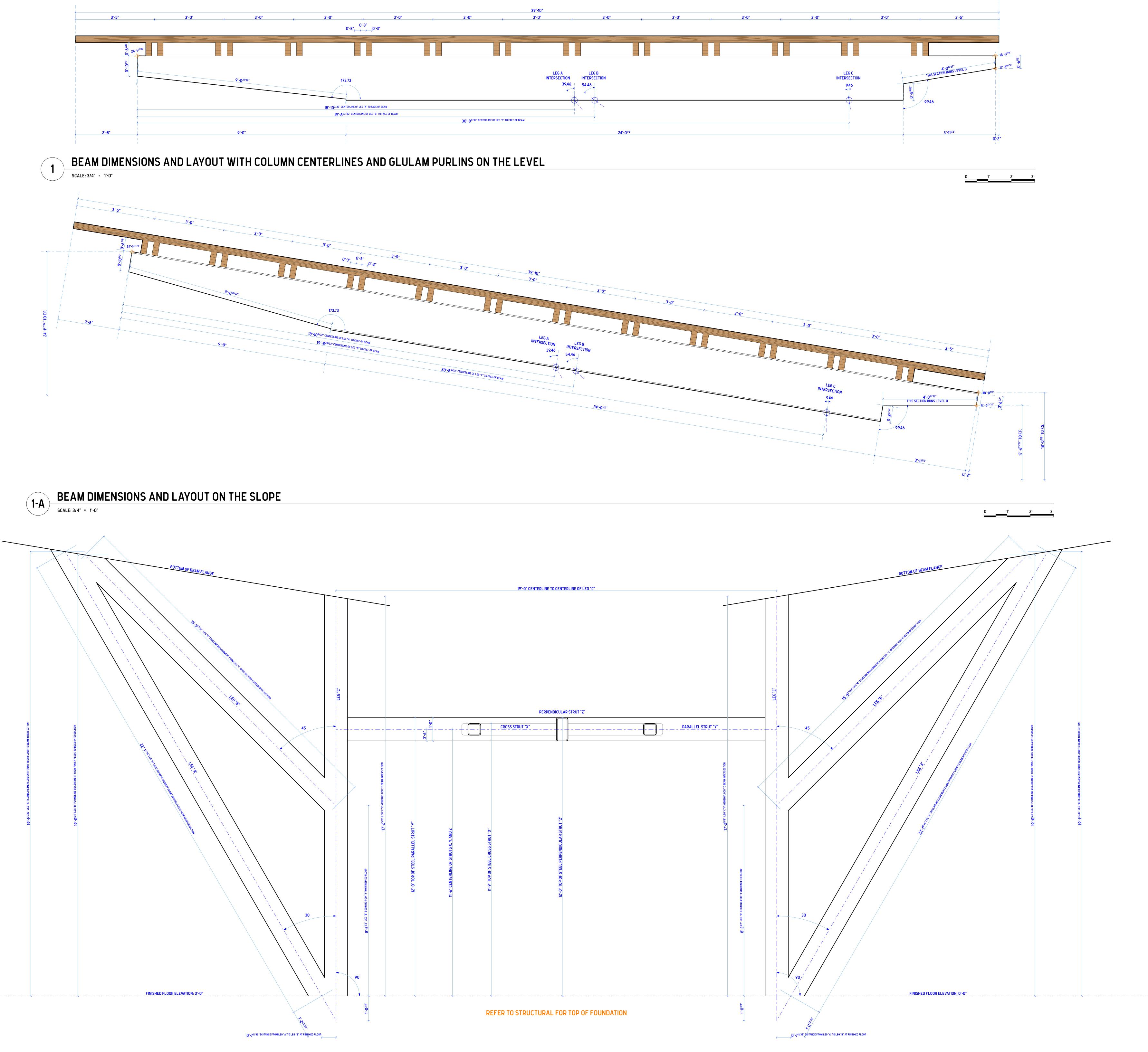
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STAGE AND BACK OF

WALL SECTION THROUGH STEEL FRAME WITH FRAMED OPENING DETAILS

SCALE: 1" = 1'-0"



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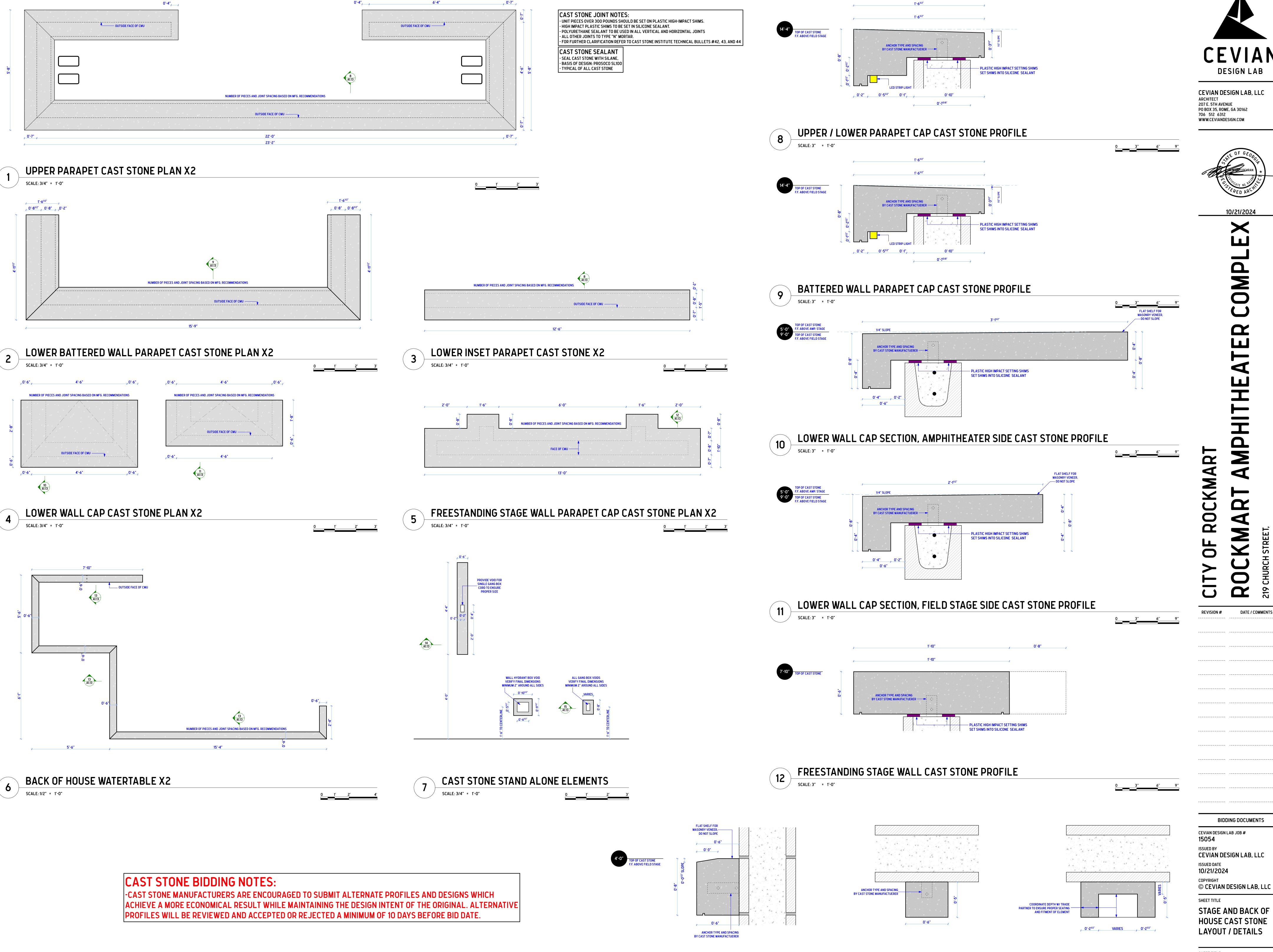
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ENLARGED BEAM AND



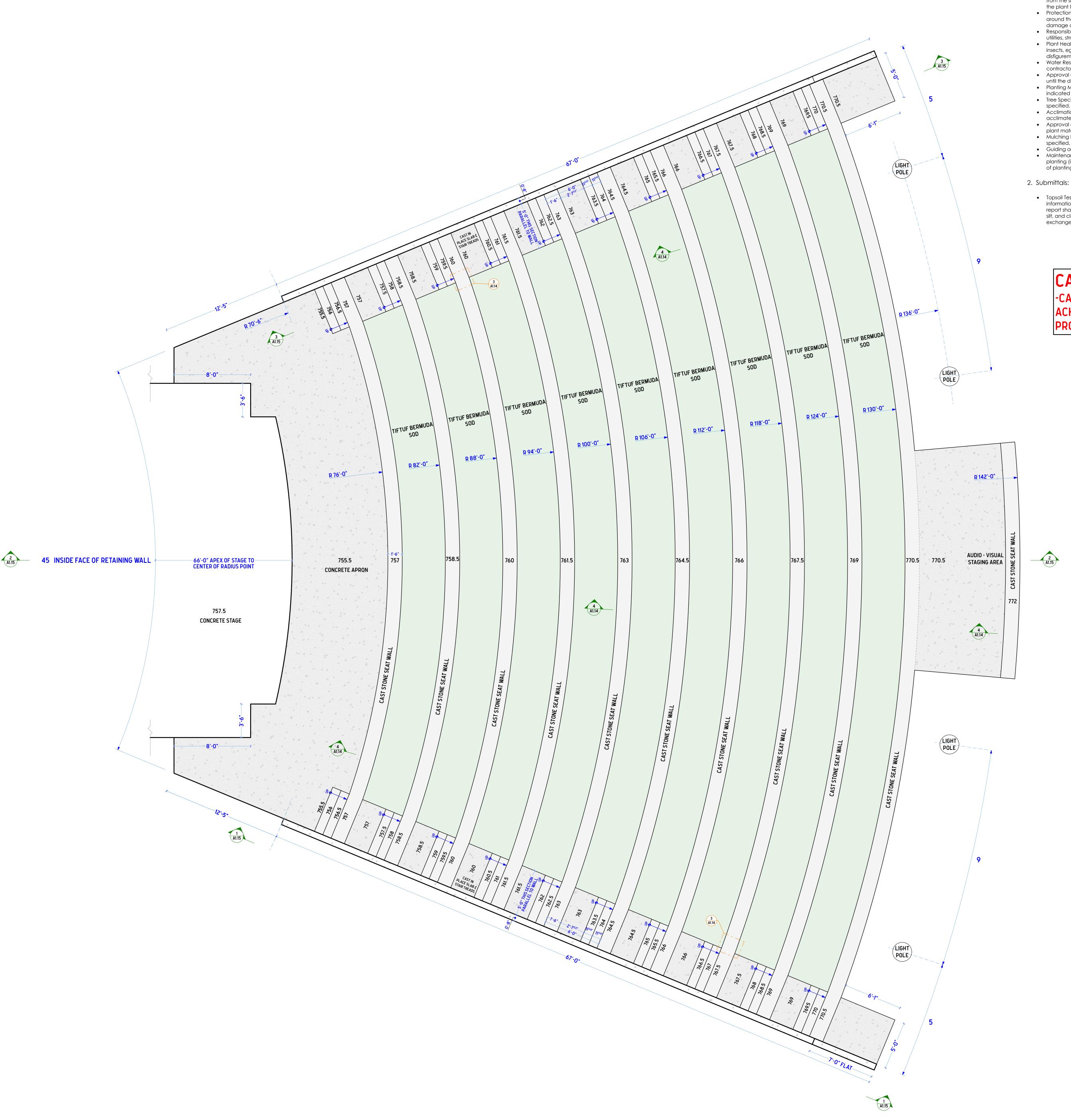
SCALE: 3" = 1'-0"

BIDDING DOCUMENTS

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ENLARGED SEATING PLAN VIEW, ELEVATIONS, DIMENSIONS, AND LAYOUT

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

General Landscape Notes

1. Planting and Material Requirements:

- Verification of Quantities: The landscape contractor is responsible for verifying all material quantities shown on these drawings before pricing the work. Plant Material Compliance: Provide plant materials true to species and variety, complying with the recommendations of the "American Standard for Nursery Stock" by the American
- Association of Nursery Men. Warranty: The landscape contractor shall completely warranty all plant material for a period of one (1) year beginning at the date of substantial completion. The landscape contractor shall promptly make all replacements before or at the end of the warranty period (as directed by the owner). Replacement of Dead or Damaged Plants: Any plant material which dies, turns brown, or
- defoliates (prior to the date of substantial completion of the work) shall be promptly removed from the site and replaced with material of the same species, quantity, size, and meeting all the plant list specifications.
- Protection of Existing Utilities: Locate and verify all utility locations and existing structures in and around the site prior to work. Maintain existing utilities and structures and protect against damage during the work.
- Responsibility for Damages: The contractor shall be responsible for any damages to existing
- utilities, structures, paving, and/or work of other trades resulting from landscape construction. • Plant Health Requirements: All plants must be healthy, vigorous material, free of diseases, insects, eggs, larvae, and defects such as knots, sun-scald, injuries, abrasions, and/or
- disfigurement. Water Responsibility: Water and water transportation is the sole responsibility of the
- contractor. Approval of Plants: All plants are subject to the approval of the Owner before, during, and until the date of substantial completion of the work.
- Planting Method: All plants must be container-grown or balled and burlapped (B & B) as indicated in the plant list. • Tree Specifications: All trees must be straight-trunked, full-headed, and meet all requirements
- Acclimation of Trees: After being dug at the nursery source, all trees in leaf shall be
- acclimated for two (2) weeks under a mist system prior to installation. Approval of Staked Locations: The landscape architect will approve the staked location of all
- plant material prior to installation. Mulching Requirements: All plants and planting areas must be completely mulched as
- Guiding or Staking Trees: All trees must be guyed or staked as shown in the drawings. Maintenance Responsibility: The landscape contractor is responsible for fully maintaining all planting (including, but not limited to, watering, spraying, mulching, fertilizing, mowing, etc.) of planting areas and lawns until the date of substantial completion.

 Topsoil Test Report: Submit results of soil analysis by a qualified soil-testing laboratory, for information only, or standardized ASTM 5268 topsoil proposed for use in planting soil mixes. The report shall include percentages of deleterious materials; organic matter; gradation of sand, silt, and clay content, as determined by test methods included in Part 2 - Products; cation exchange capacity; pH level; mineral, major nutrient, and micronutrient content of topsoil.

Outline Specification for Sodding New Lawns

1. General Requirements: All sodding work to comply with the latest standards and guidelines.

2. Site Preparation:

Timing: Lay sod within 24 hours of stripping sod at the sod farm. If not possible, sod may be

unroll, and place in shade while keeping moist until installation. Conditions: Do not plant dormant sod. Do not plant sod on frozen ground. Placement: Lay sod to form a solid mass with tightly fitted joints. Snugly fit ends and sides of sod strips; do not overlap. Stagger strips to offset joints in adjacent courses. Work from boards to avoid damage to subgrade or sod. Tamp or roll lightly to ensure contact with subgrade. Work sifted soil into minor cracks between pieces of sod and remove excess to avoid

stored on site for up to 36 hours after stripping, provided it is properly protected: unstack,

Water soil prior to receiving sod. At the time of sod placement, the soil must be moist but not

smothering adjacent grass. • Slopes: Anchor sod with wood pegs to prevent slippage on slopes equal to or greater than 3:1 and wherever erosion can be anticipated. Lay sod perpendicular to slope direction with staggered joints.

 Water sod thoroughly with a fine spray immediately after planting until soil is damp to a depth of four (4) inches. If rainfall is insufficient, keep the sodded area moist until the grass has securely rooted into the planting area.

The landscape contractor shall furnish topsoil, which must be approved by the landscape

 60% topsoil (as specified). 40% prepared additives (by volume) as follows: 2 parts humus, peat, and/or nutrient-grade compost.

 1 part shredded and partially composted pine bark (bark pieces 1/2 inch maximum in length). Fertilization: Use commercial fertilizer as recommended in the soil report. Lime Application: Apply lime as recommended in the soil report.

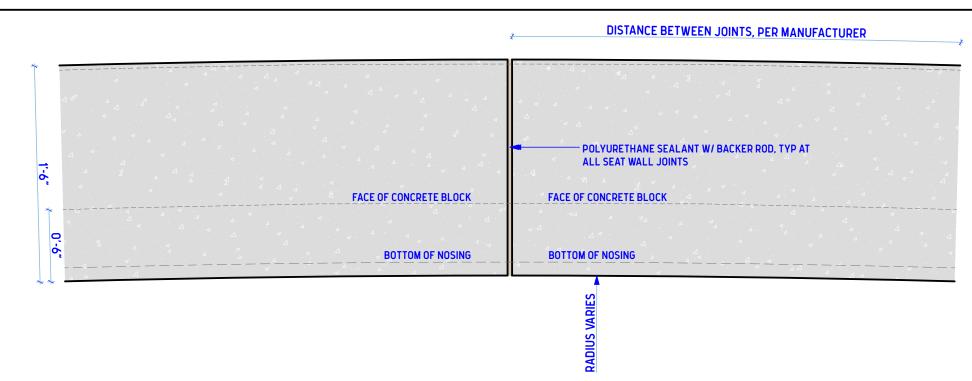
Species: TifTuf Bermuda Sod by the Turfgrass Group or equal.

CAST STONE JOINT NOTES: - UNIT PIECES OVER 300 POUNDS SHOULD BE SET ON PLASTIC HIGH-IMPACT SHIMS. - HIGH IMPACT PLASTIC SHIMS TO BE SET IN SILICONE SEALANT. - POLYURETHANE SEALANT TO BE USED IN ALL VERTICAL AND HORIZONTAL JOINTS - ALL OTHER JOINTS TO TYPE "N" MORTAR. - FOR FURTHER CLARIFICATION REFER TO CAST STONE INSTITUTE TECHNICAL BULLETS #42, 43, AND 44

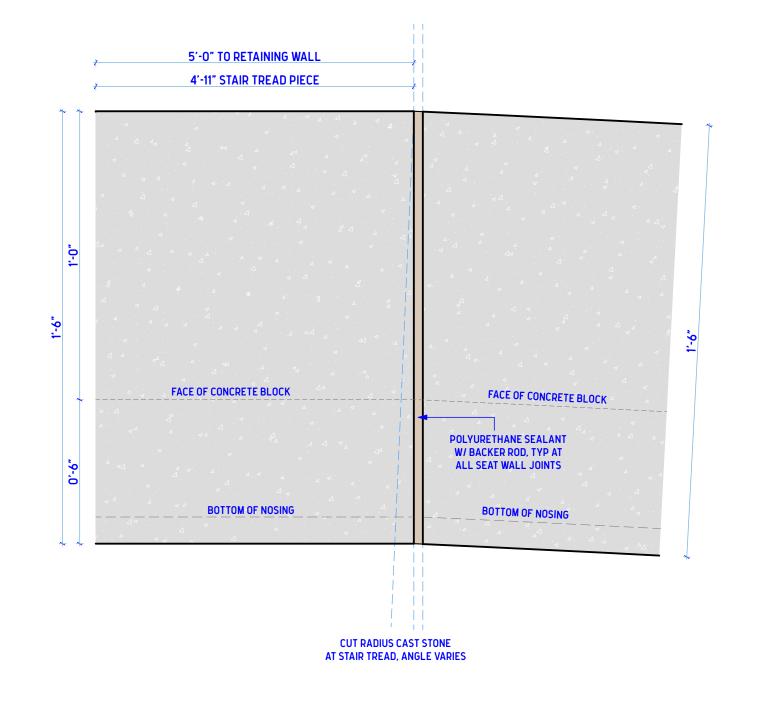
CAST STONE SEALANT - SEAL CAST STONE WITH SILANE, - BASIS OF DESIGN: PROSOCO SL100 - TYPICAL OF ALL CAST STONE

CAST STONE BIDDING NOTES:

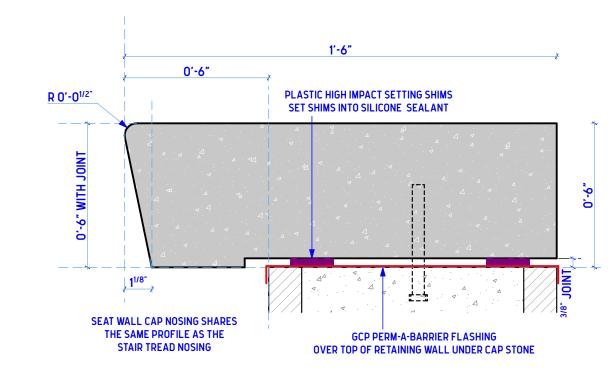
-CAST STONE MANUFACTURERS ARE ENCOURAGED TO SUBMIT ALTERNATE PROFILES AND DESIGNS WHICH ACHIEVE A MORE ECONOMICAL RESULT WHILE MAINTAINING THE DESIGN INTENT OF THE ORIGINAL. ALTERNATIVE PROFILES WILL BE REVIEWED AND ACCEPTED OR REJECTED A MINIMUM OF 10 DAYS BEFORE BID DATE.











TYPICAL SEAT WALL, CAST STONE PROFILE SCALE: 3" = 1'-0"



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AMPHITHEATER ENLARGED SEATING PLAN VIEW, SEAT WALL CAST STONE



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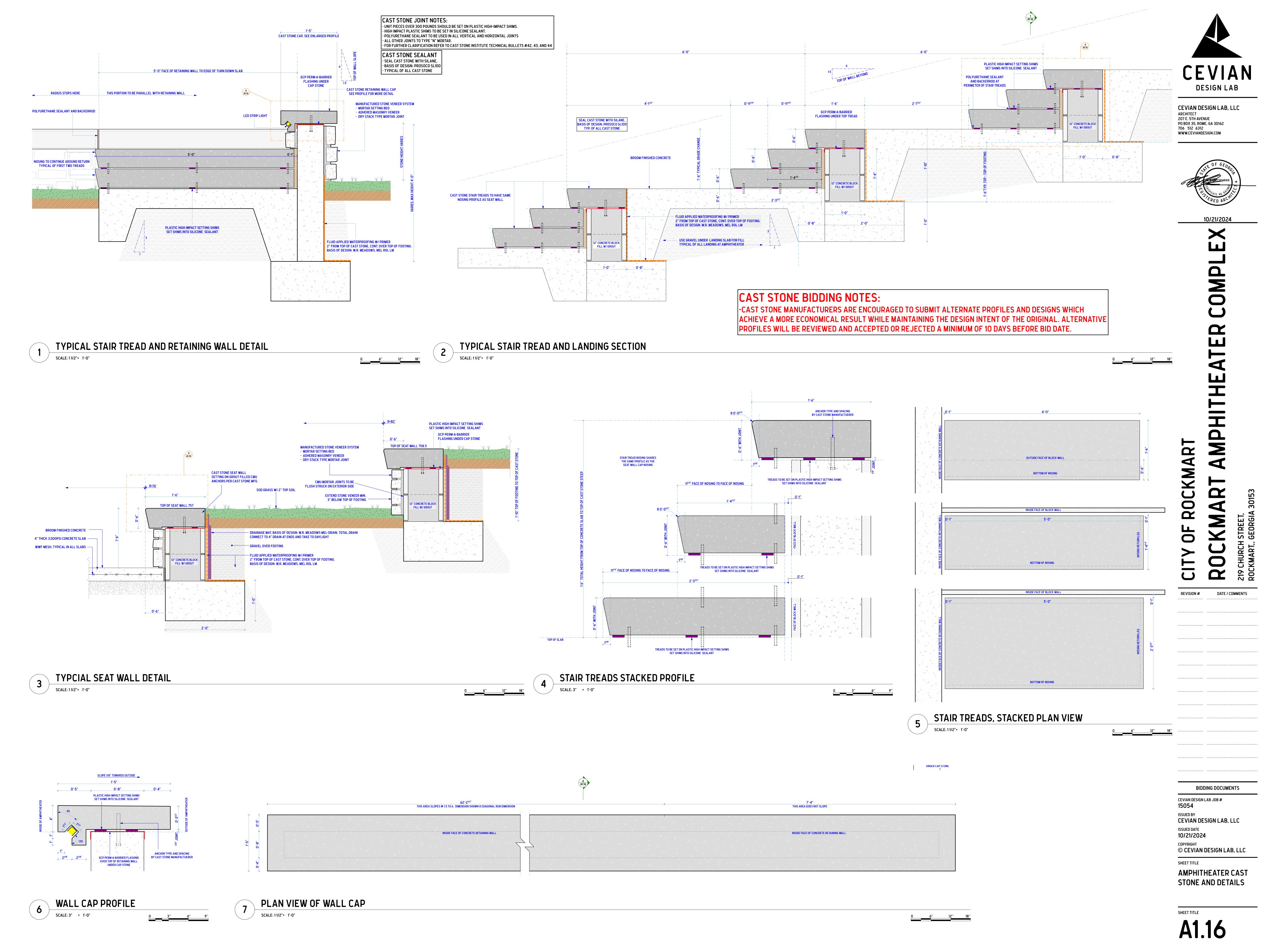
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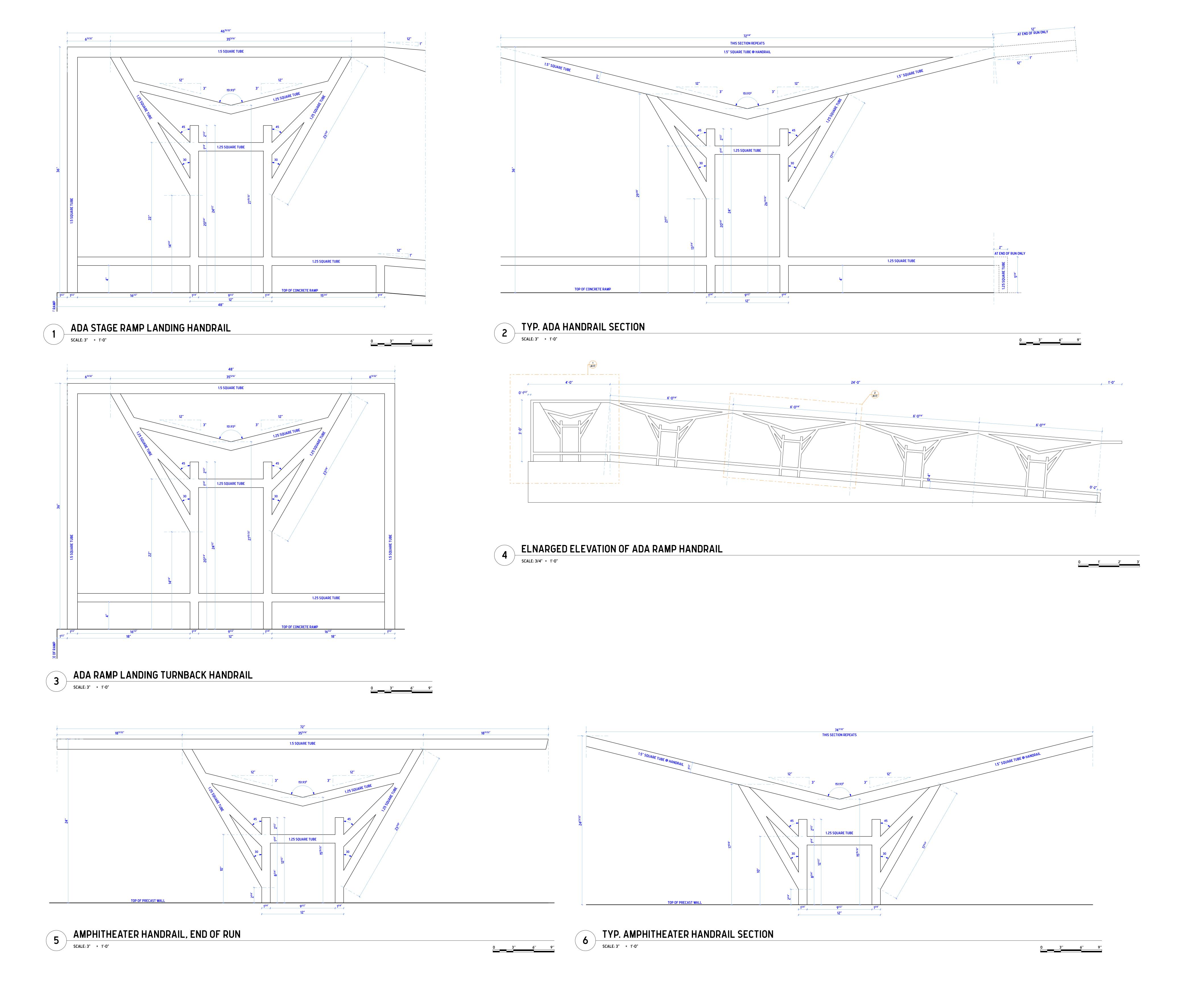
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AMPHITHEATER CROSS SECTIONS







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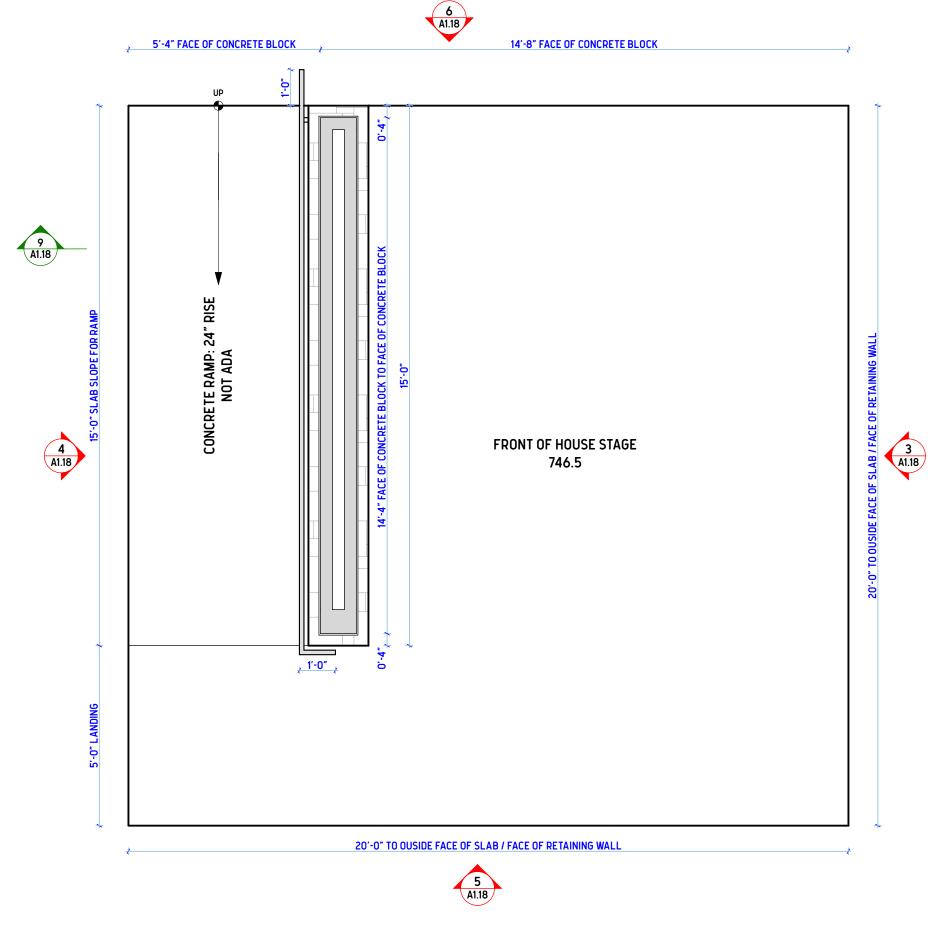
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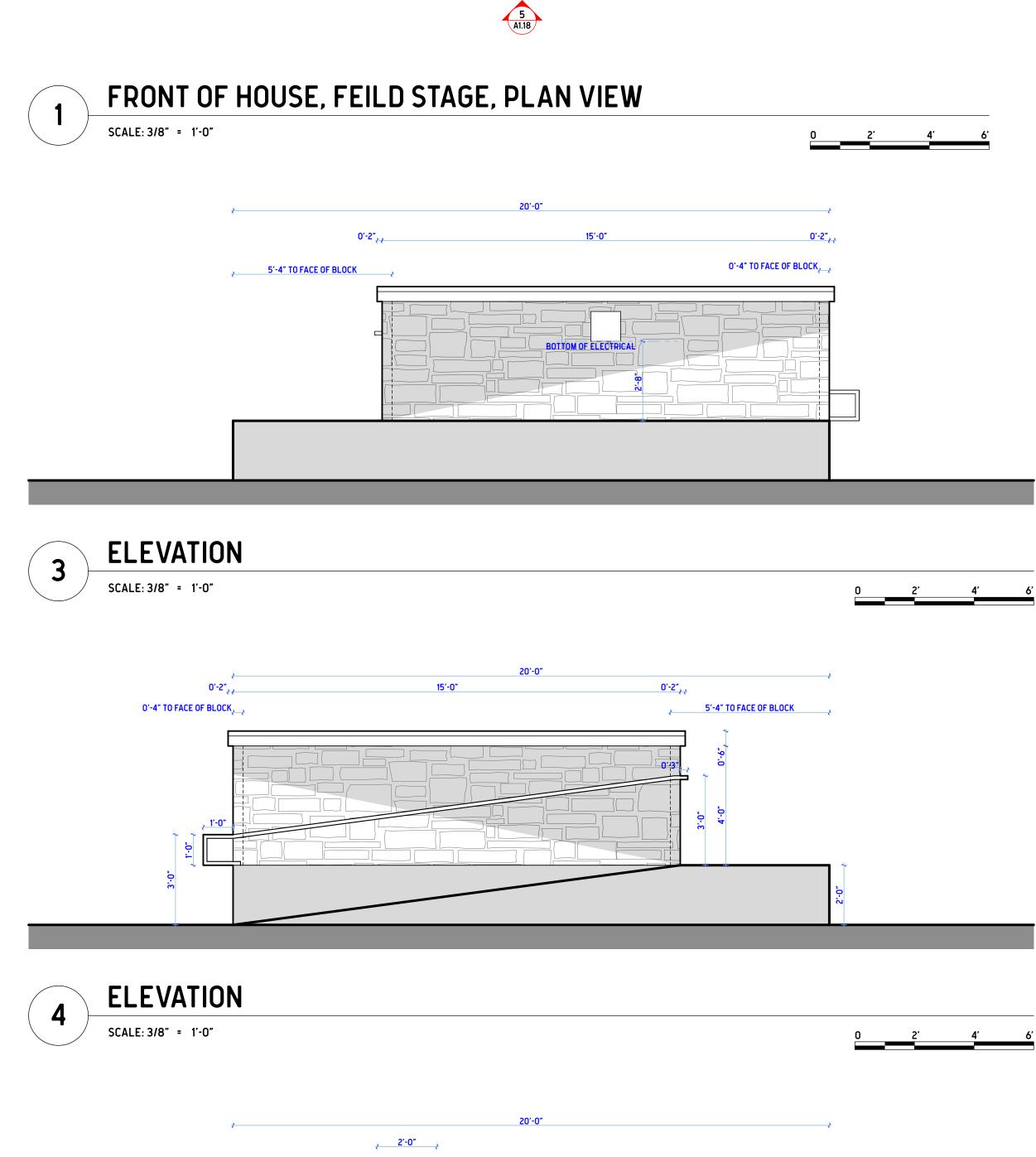
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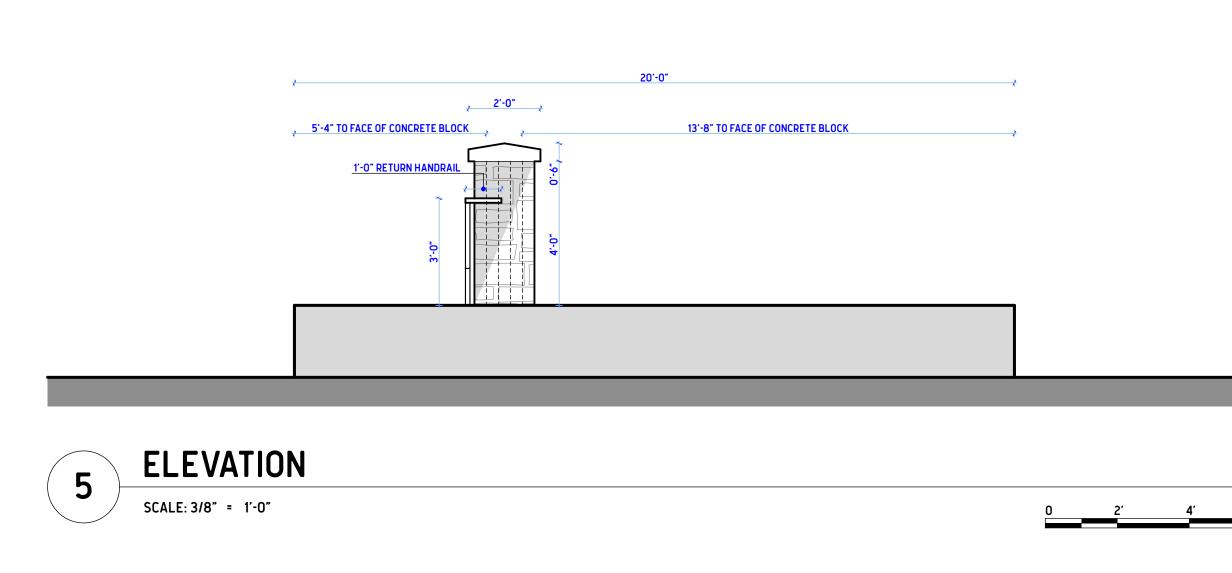
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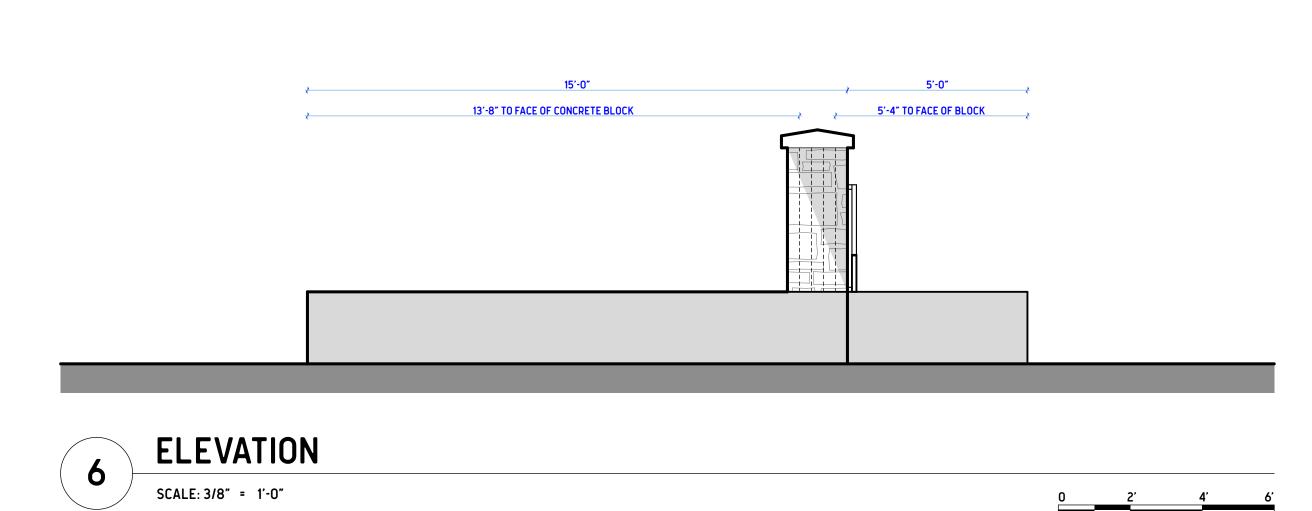
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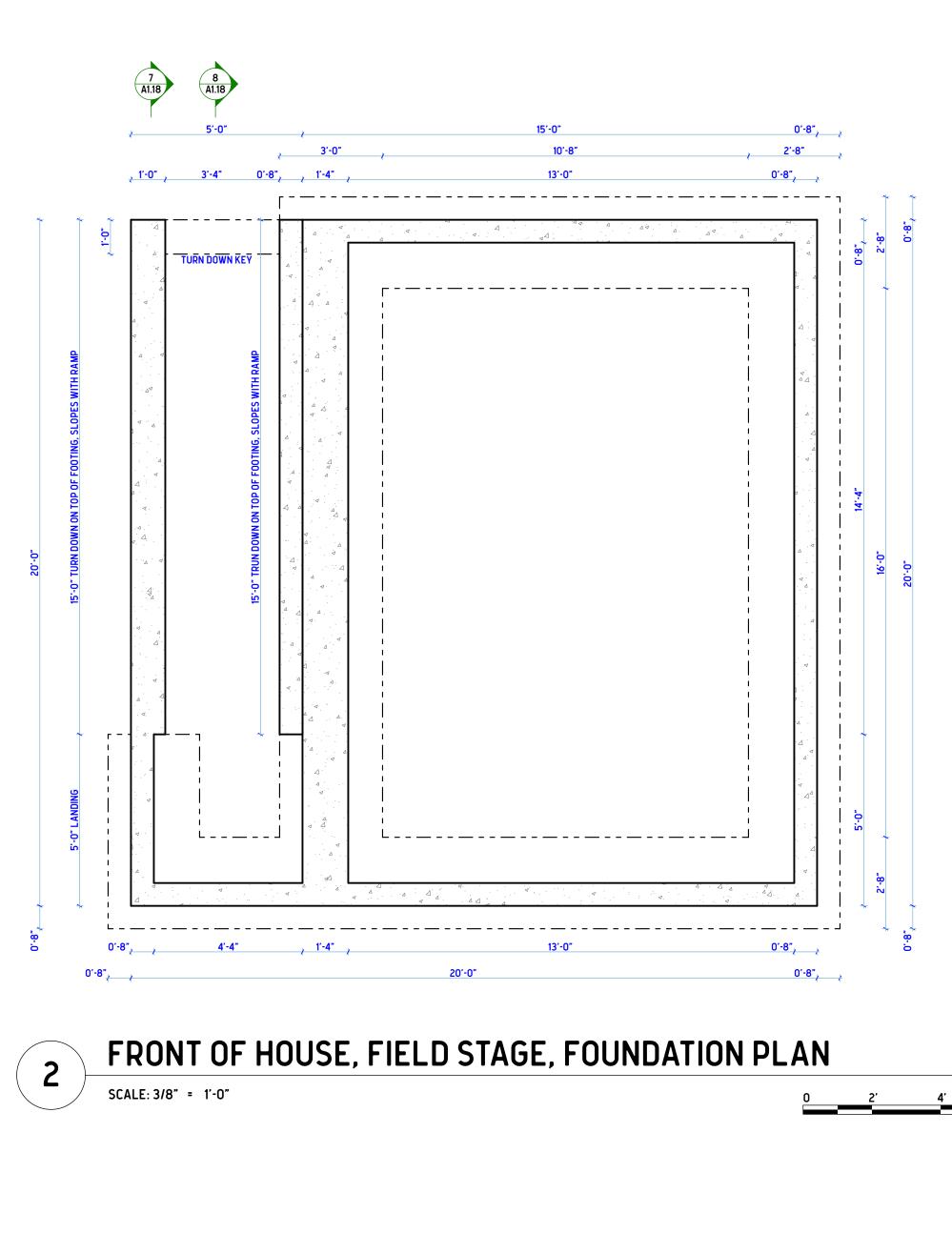
HANDRAILS AND GUARDRAILS

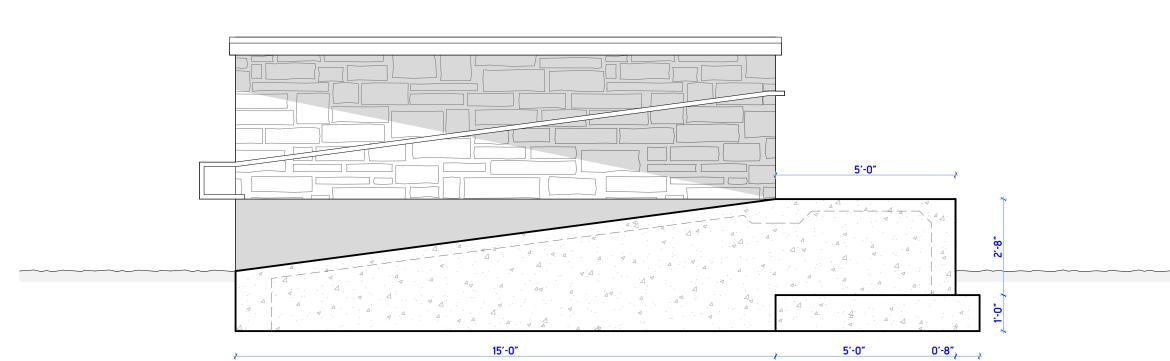




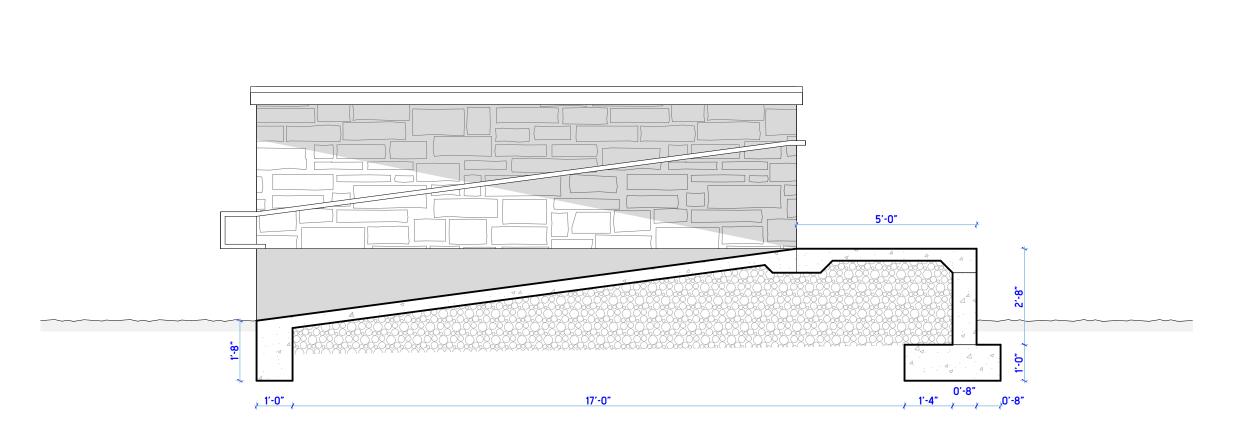


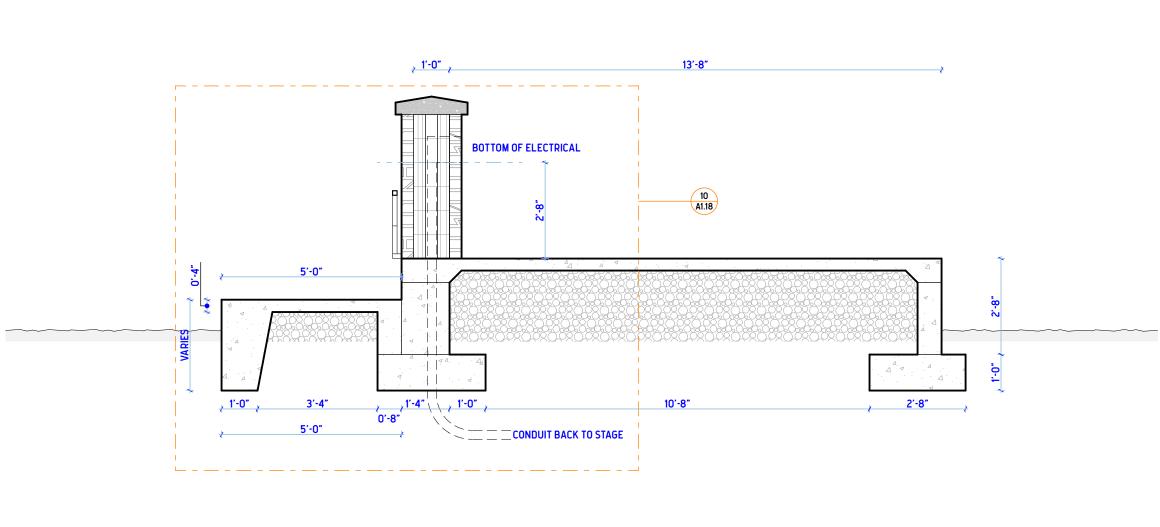






SECTION THROUGH RAMP AND LANDING RETAINING WALL CENTER

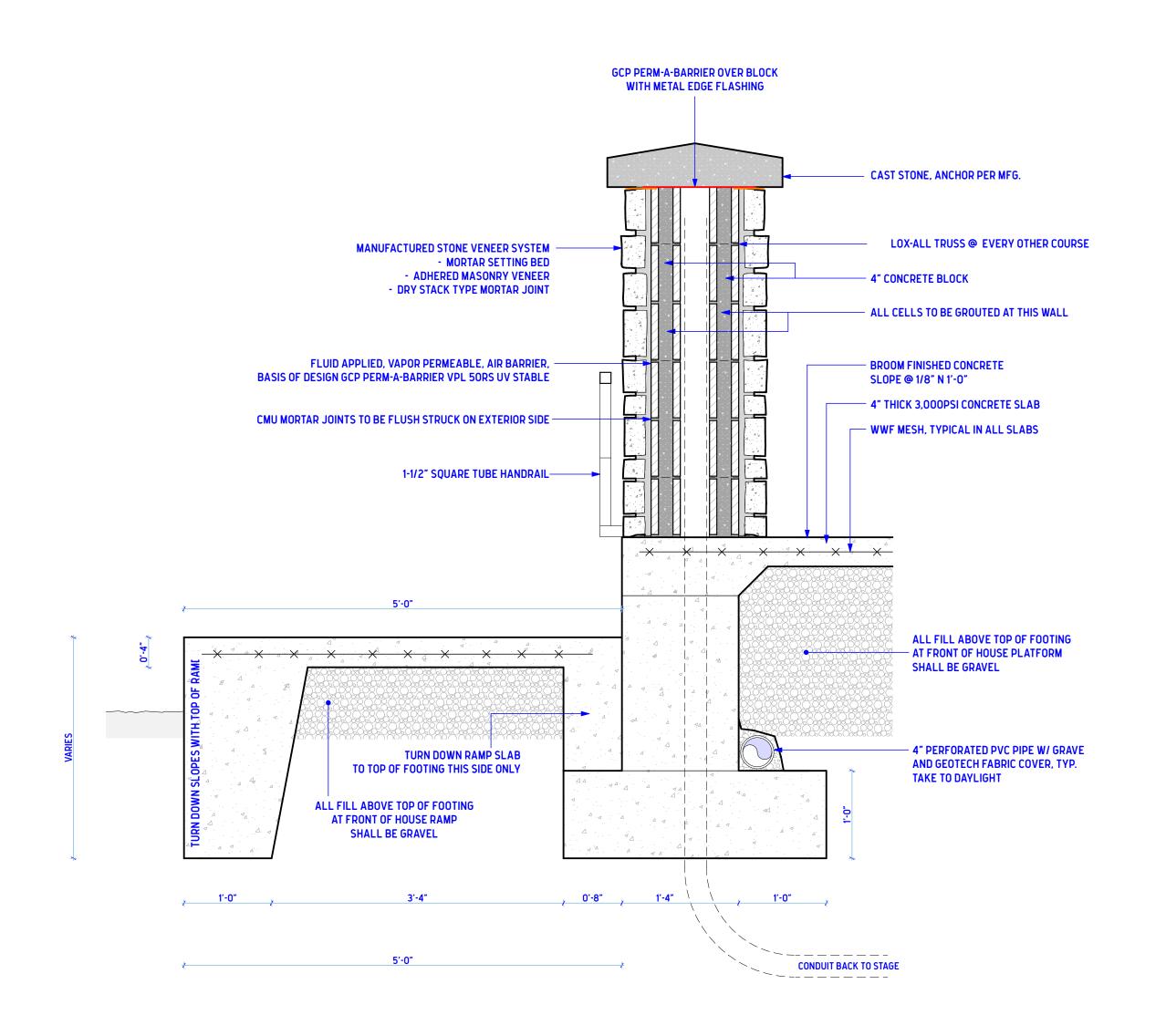




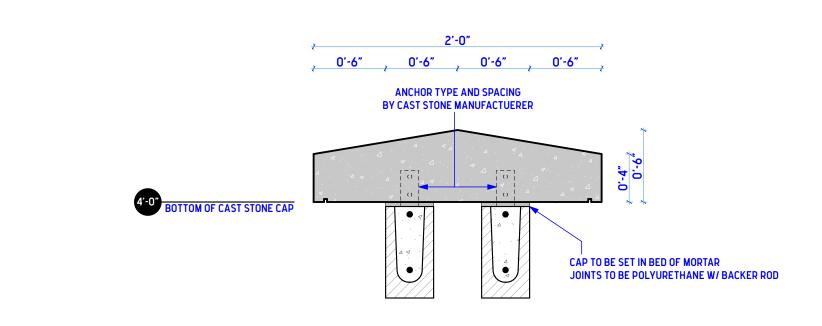
SECTION THROUGH RAMP AND LANDING

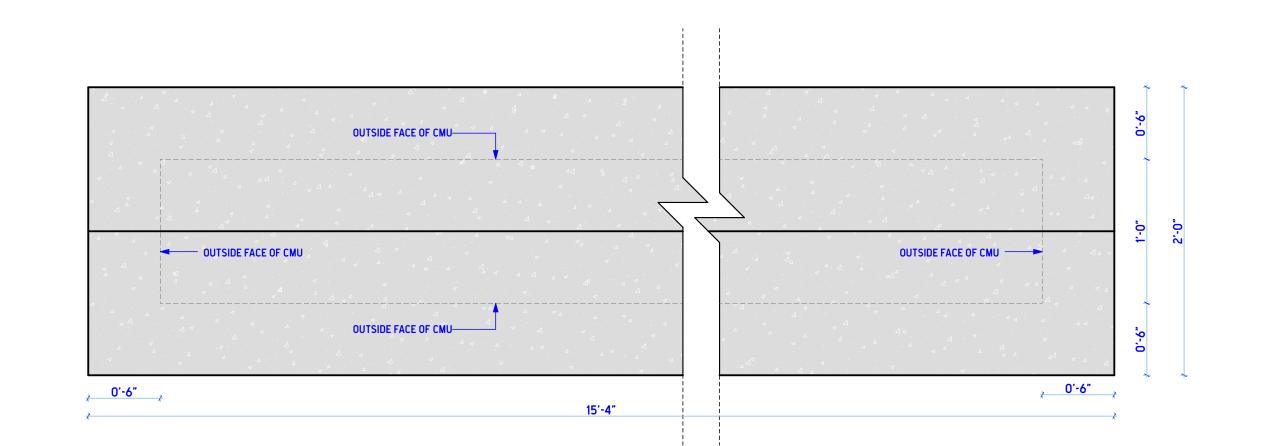
SCALE: 3/8" = 1'-0"











11	CAST STONE SECTION AND PLAN VIEW
	SCALE: 11/2"= 1'-0"



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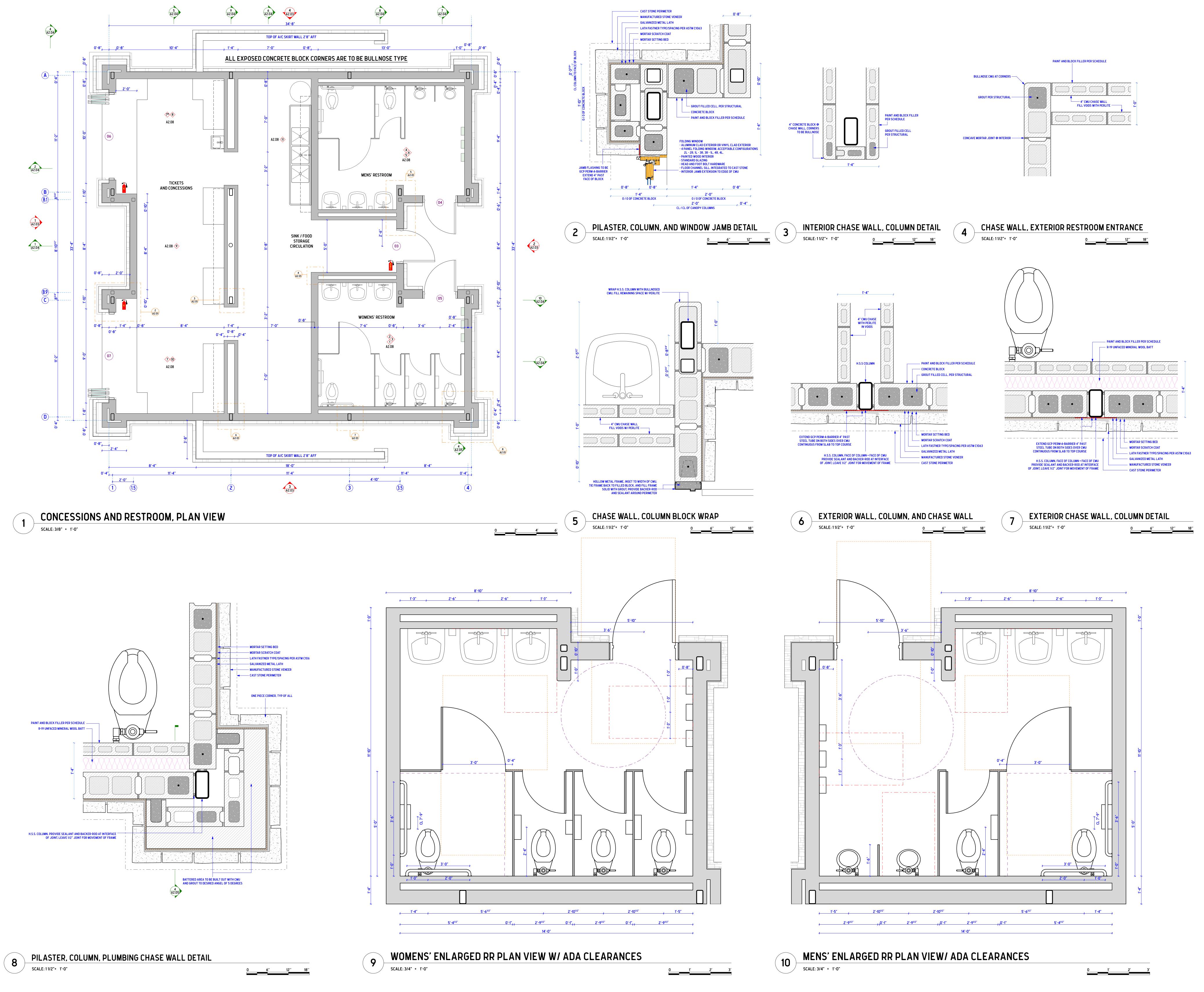
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FRONT OF HOUSE
PLATFORM PLANS,
ELEVATIONS, SECTIONS
AND DETAILS

A1.18



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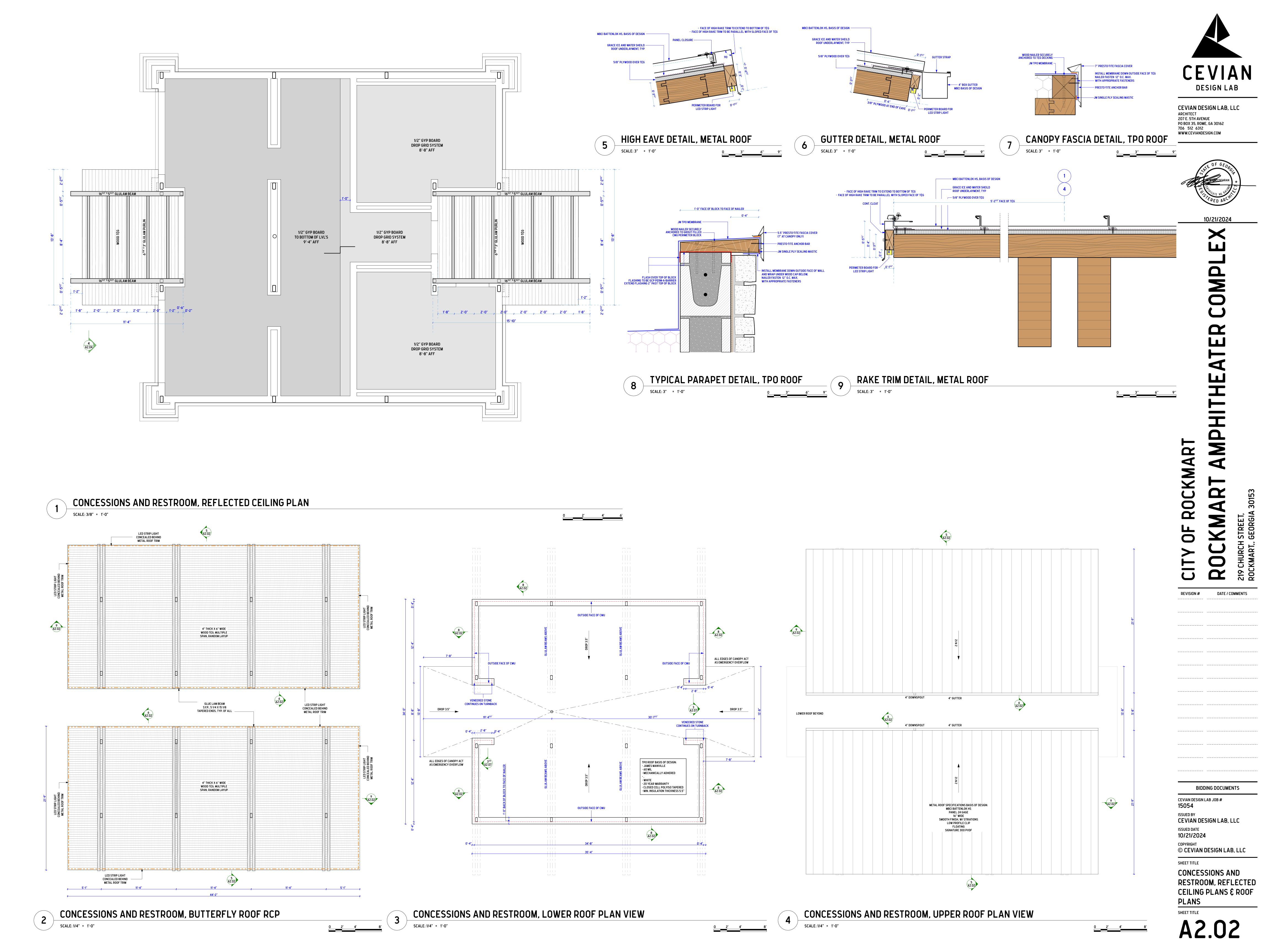
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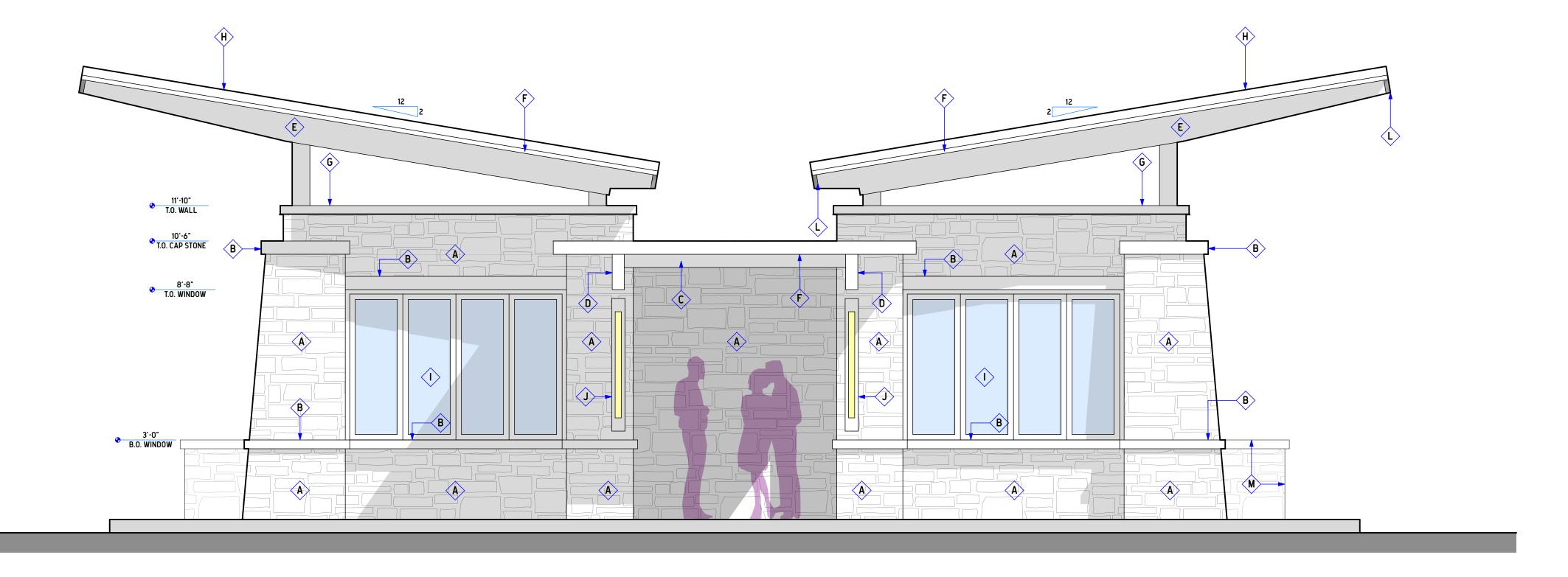
SHEET TITLE

CONCESSIONS AND

RESTROOM, PLAN VIEW

A2.01





A MANUFACTURED STONE VENEER, ALLOWANCE OF \$8/SF FOR MATERIAL ONLY

B ARCHITECTURAL CAST STONE

C GLULAM CANOPY PURLINS, 6^{7/8}" X 3"

D GLULAM CANOPY BEAM, 1'-4^{1/2}" X 5^{1/2}"

E GLULAM BUTTERFLY ROOF BEAM, 1'-13/4" X 5" SYP F STRUCTURAL TONGUE AND GROOVE, 4 X 6

G JOHNS MANVILLE FASCIA COVER, 24 GAGE, 7", PRESTO-TITE

(H) METAL ROOF TRIM / GUTTER, MBCI, BATTENLOK HS, 16" WIDE, SMOOTH FINISH W/ STRIATIONS, LOW PROFILE CLIP, FLOATING, SIGNATURE 300 PVDF

I FOLDING WINDOW SEE SHEET A4.01 FOR DETAILS

J LINEAR SCONE RESTING ON CAST STONE SURROUND, SEE ELECTRICAL

K HOLLOW METAL DOOR LEAF AND FRAME, SEE A4.01 FOR DETAILS

L SHEET METAL CAP OVER GLULAM BEAM ENDS

M SKIRT WALL TO CONCEAL A/C UNITS

11'-10" T.O. WALL

3'-0"
T.O. WATERTABLE

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CONCESSIONS AND RESTROOM, **ELEVATIONS**

RESTROOM ENTRANCE ELEVATION SCALE: 3/8" = 1'-0"

CONCESSION WINDOW ELEVATION

11'-10" T.O. WALL 10'-6"
T.O. CAP STONE

SIDE ELEVATION

SCALE: 3/8" = 1'-0"

11'-10" T.O. WALL 10'-6"
T.O. CAP STONE

SIDE ELEVATION

SCALE: 3/8" = 1'-0"

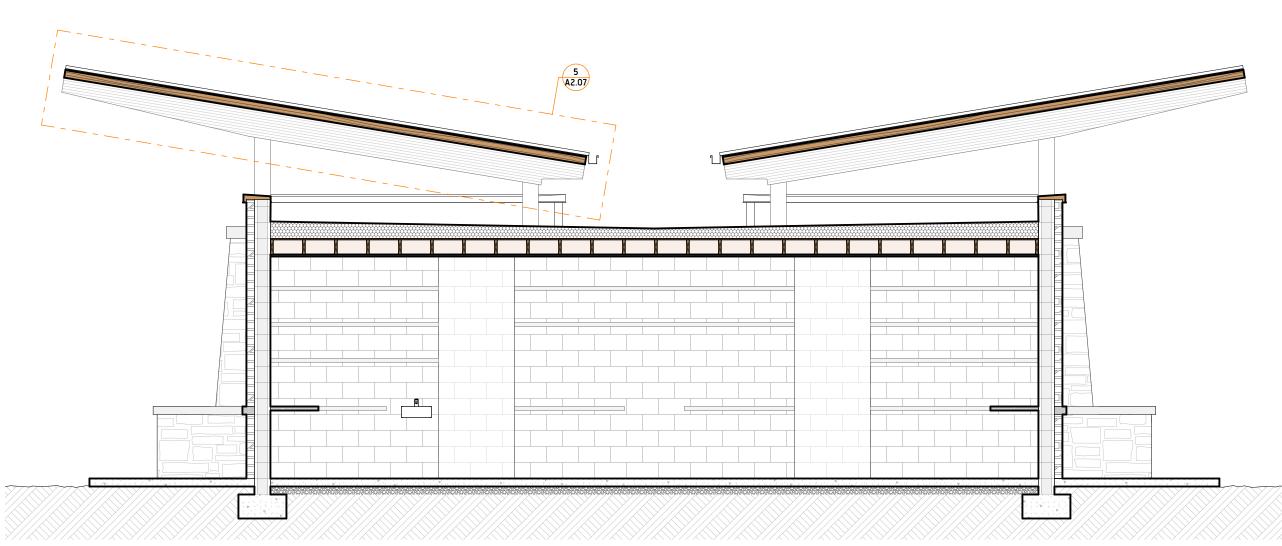




CONCESSIONS AND RESTROOM, WOMEN'S RR SECTION

CONCESSIONS AND RESTROOM, FRONT CANOPY SECTION

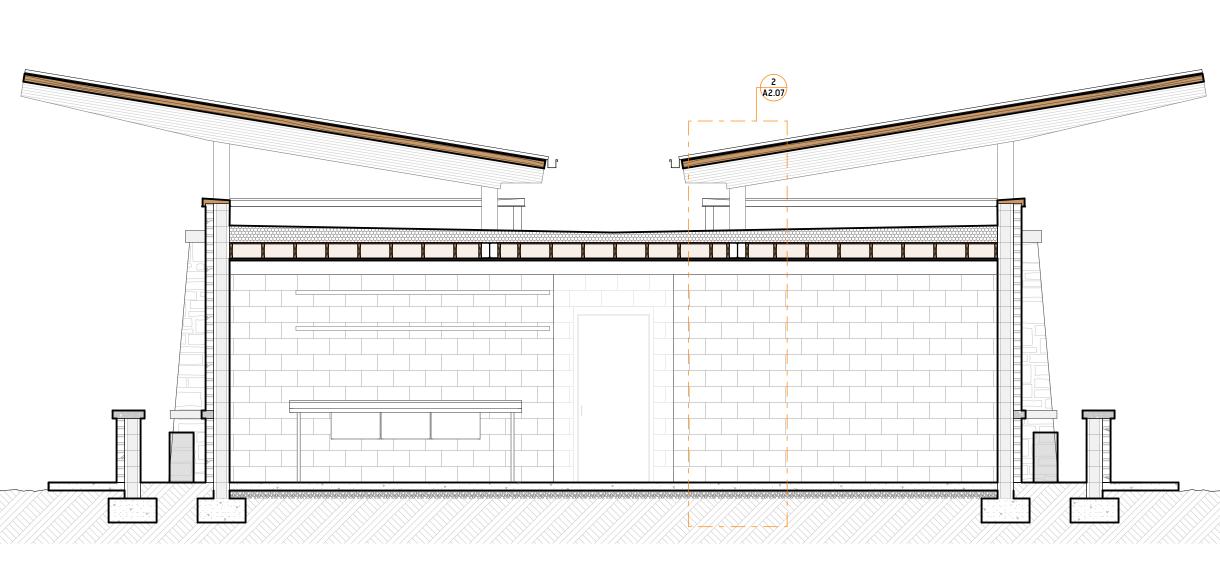
CONCESSIONS AND RESTROOM CENTERLINE SECTION



CONCESSIONS AND RESTROOM, CONCESSIONS SECTION

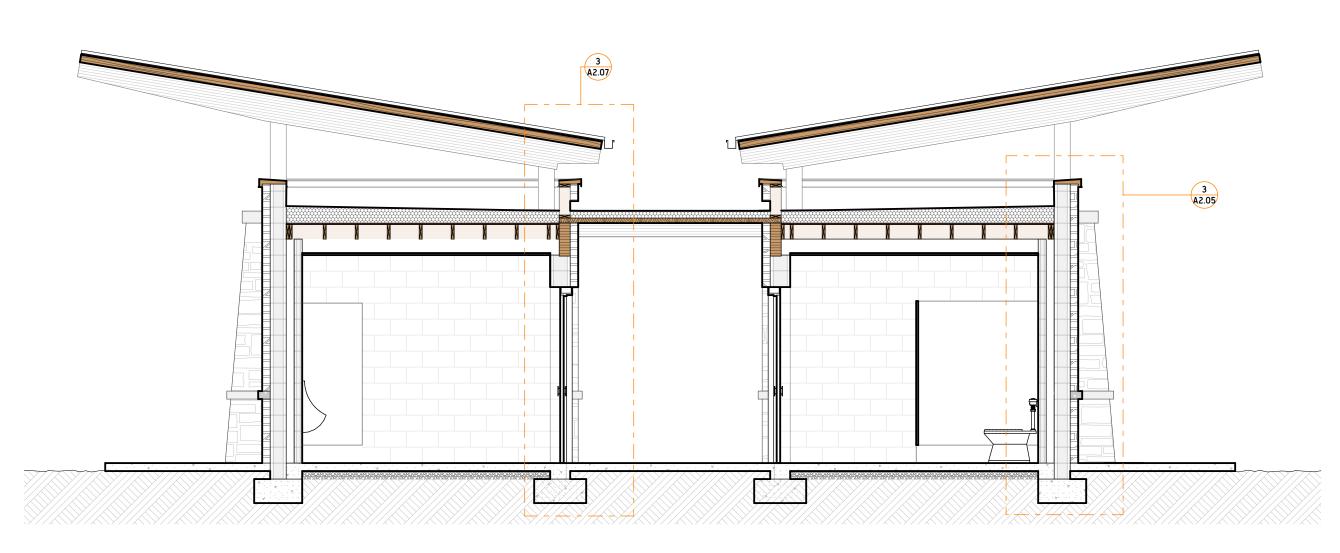
SCALE: 1/4" = 1'-0"

CONCESSIONS AND RESTROOM, MEN'S RR SECTION

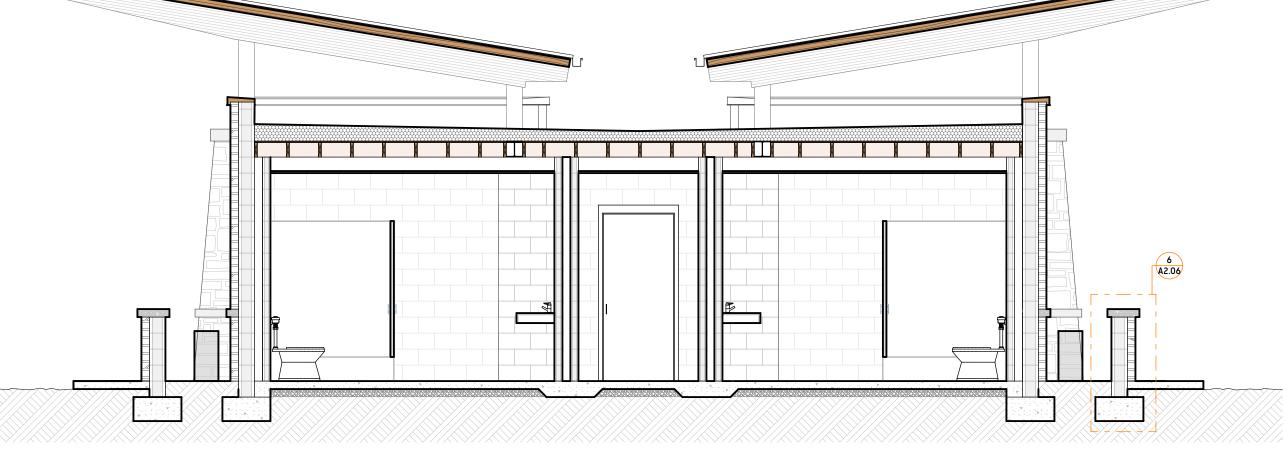


CONCESSIONS AND RESTROOM, SINK, STORAGE, CIRCULATION SECTION

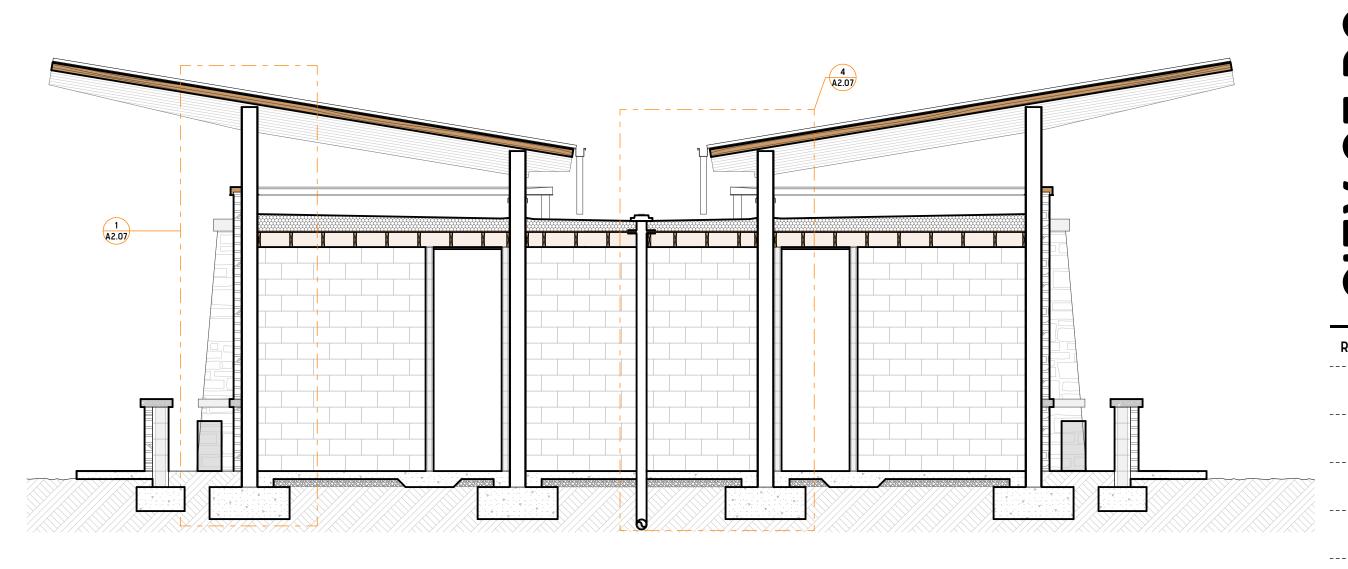
SCALF-1/4" = 1'-0"



CONCESSIONS AND RESTROOM, RESTROOM AND EXTERIOR ENTRY SECTION SCALE: 1/4" = 1'-0"



CONCESSIONS AND RESTROOM, RESTROOM AND HALLWAY SECTION SCALE: 1/4" = 1'-0"



CONCESSIONS AND RESTROOM, SECTION THROUGH CHASE WALLS SCALE: 1/4" = 1'-0"



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

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© CEVIAN DESIGN LAB, LLC **CONCESSIONS AND**

RESTROOM, CROSS SECTIONS



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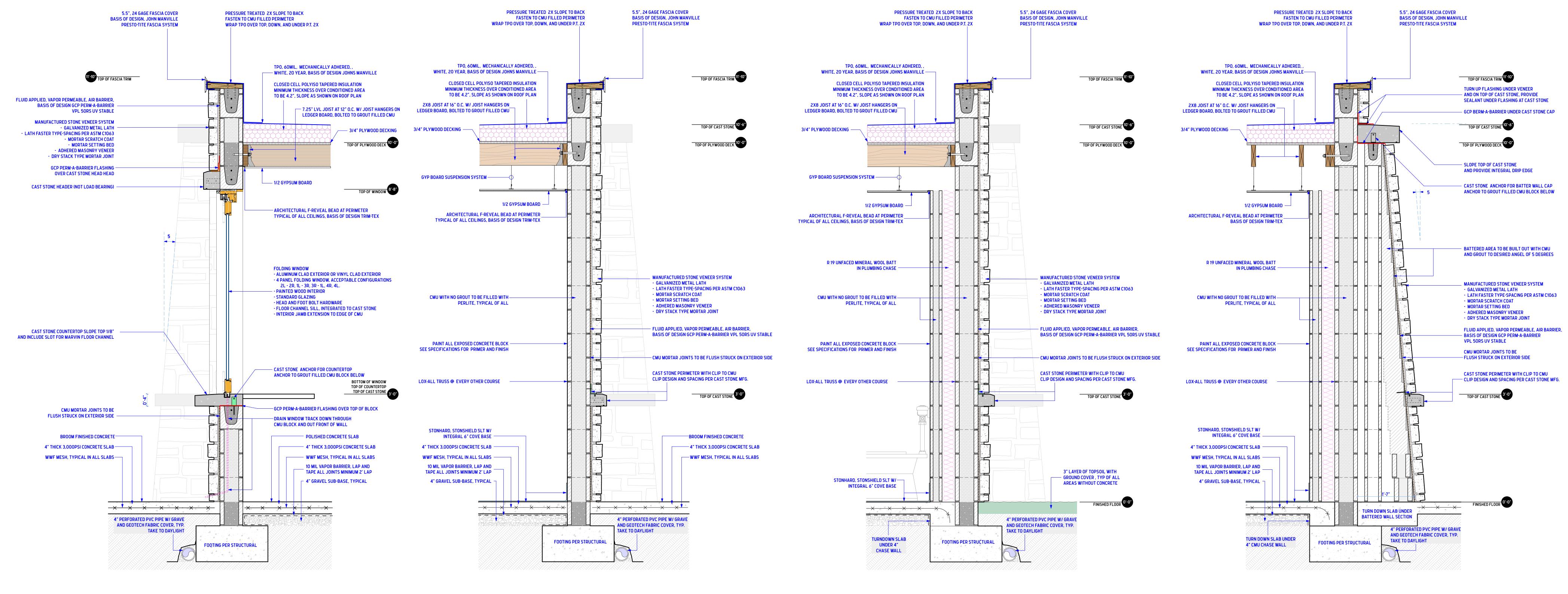
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CONCESSIONS AND RESTROOM - WALL SECTIONS



EXTERIOR WALL SECTION, JOIST PERPENDICULAR

EXTERIOR WALL SECTION @ R.R. CHASE, RAFTERS PARALLEL

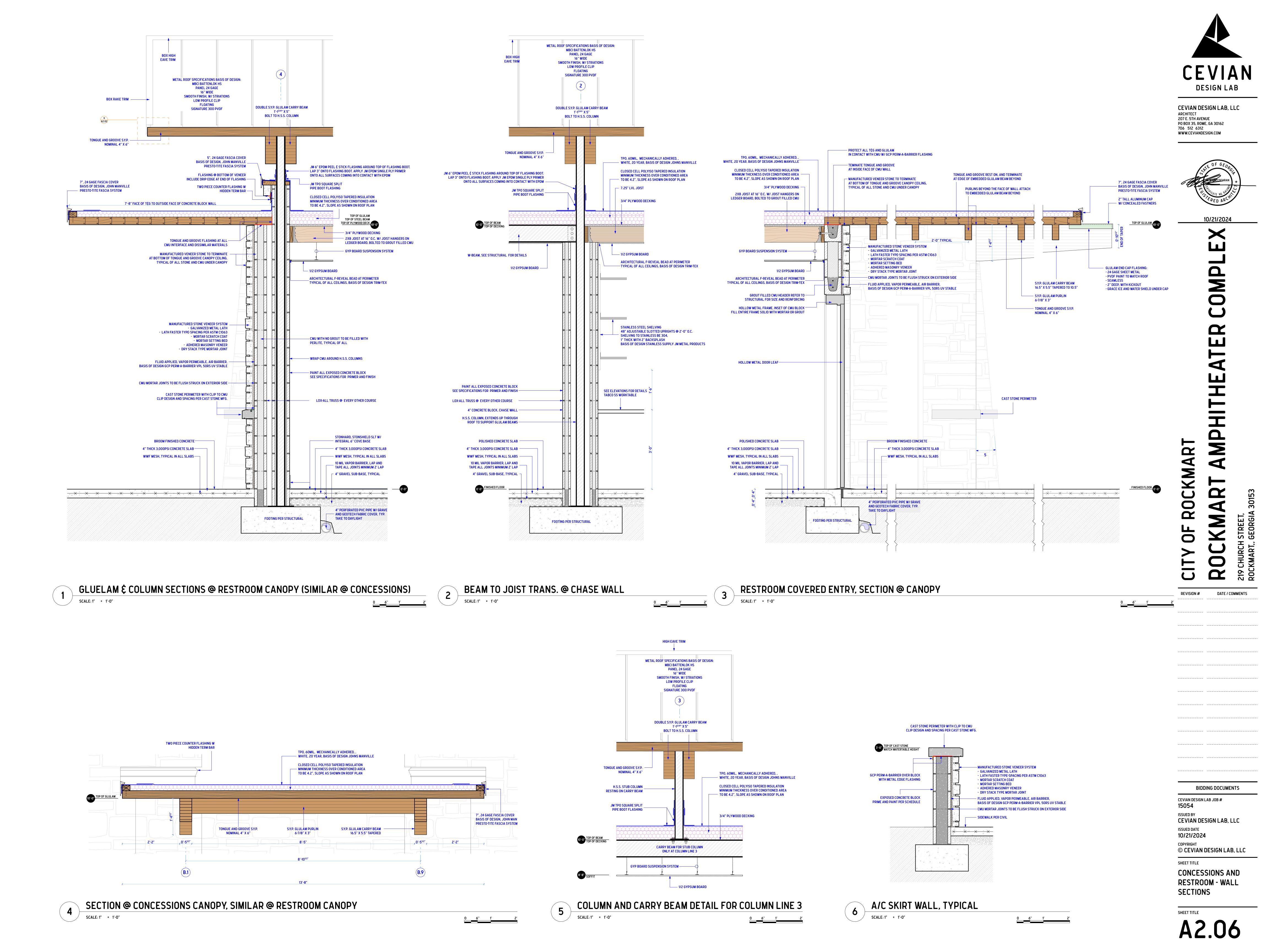
SCALE: 1" = 1'-0"

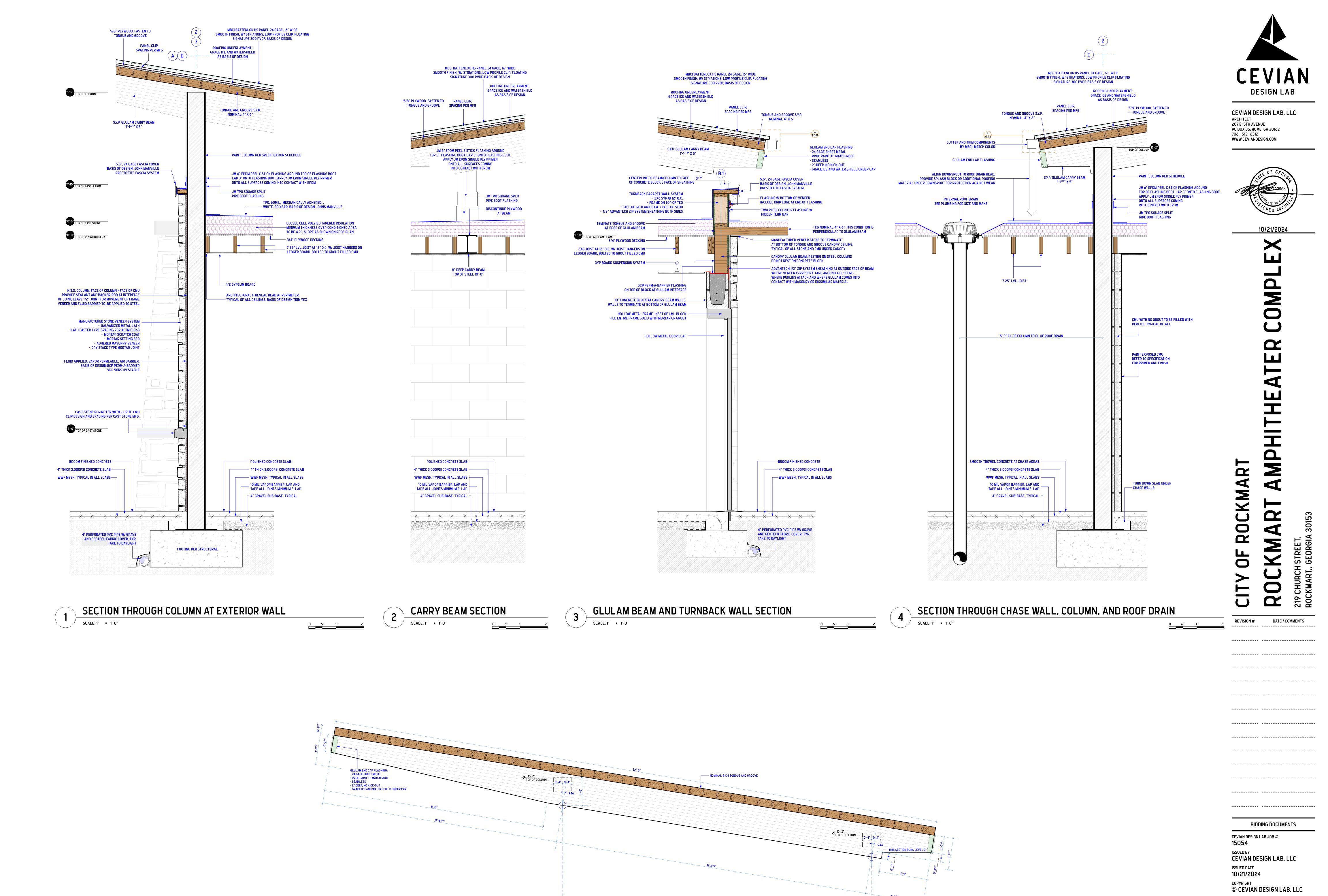
BATTERED WALL SECTION @ R.R. CHASE

SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"

CONCESSIONS WINDOW WALL SECTION





11'-2" CENTERLINE OF COLUMN TO CENTERLINE OF COLUMN

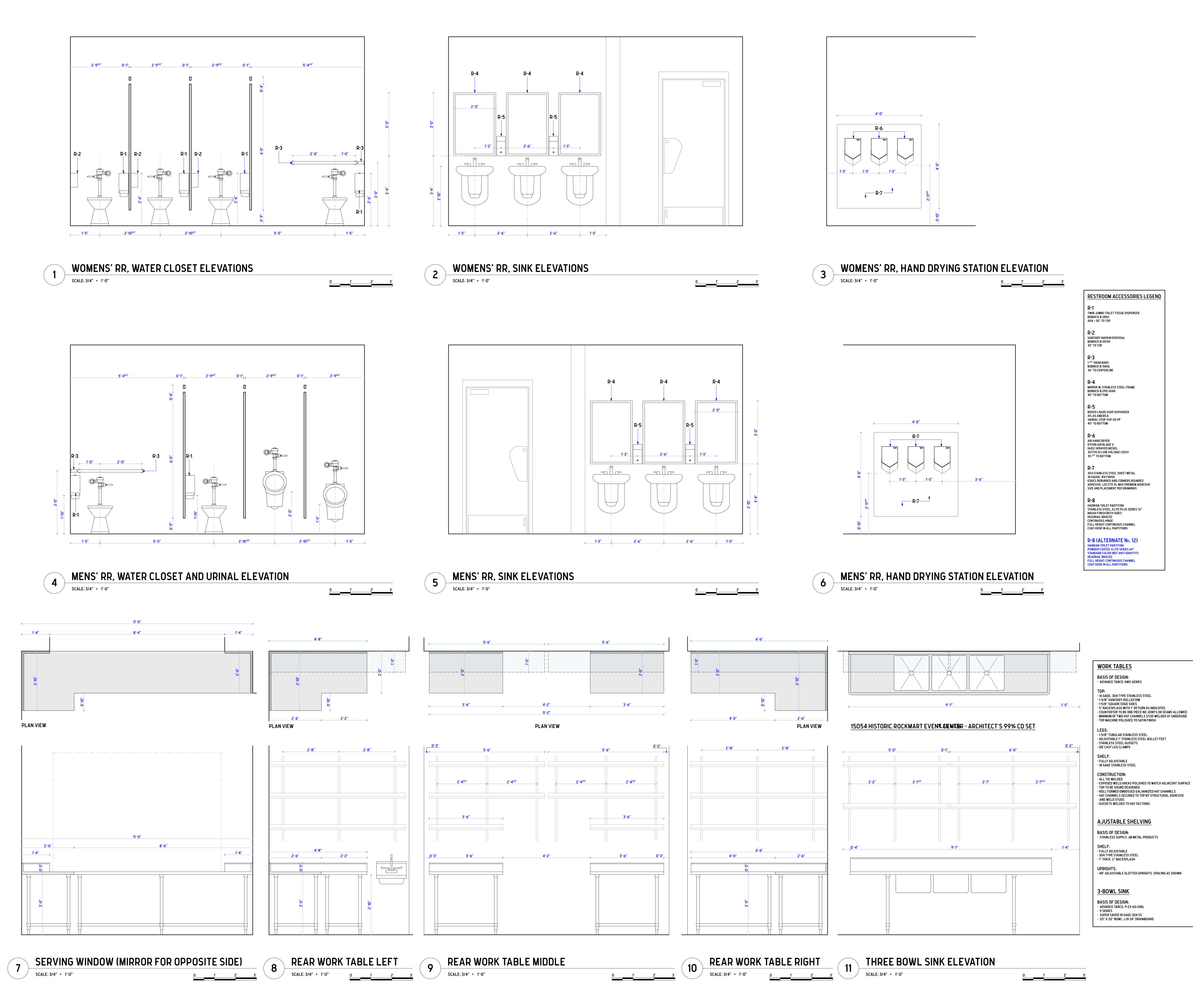
5 TYPICAL GLULAM PROFILE

A2.07

CONCESSIONS AND

RESTROOM - WALL

SECTIONS



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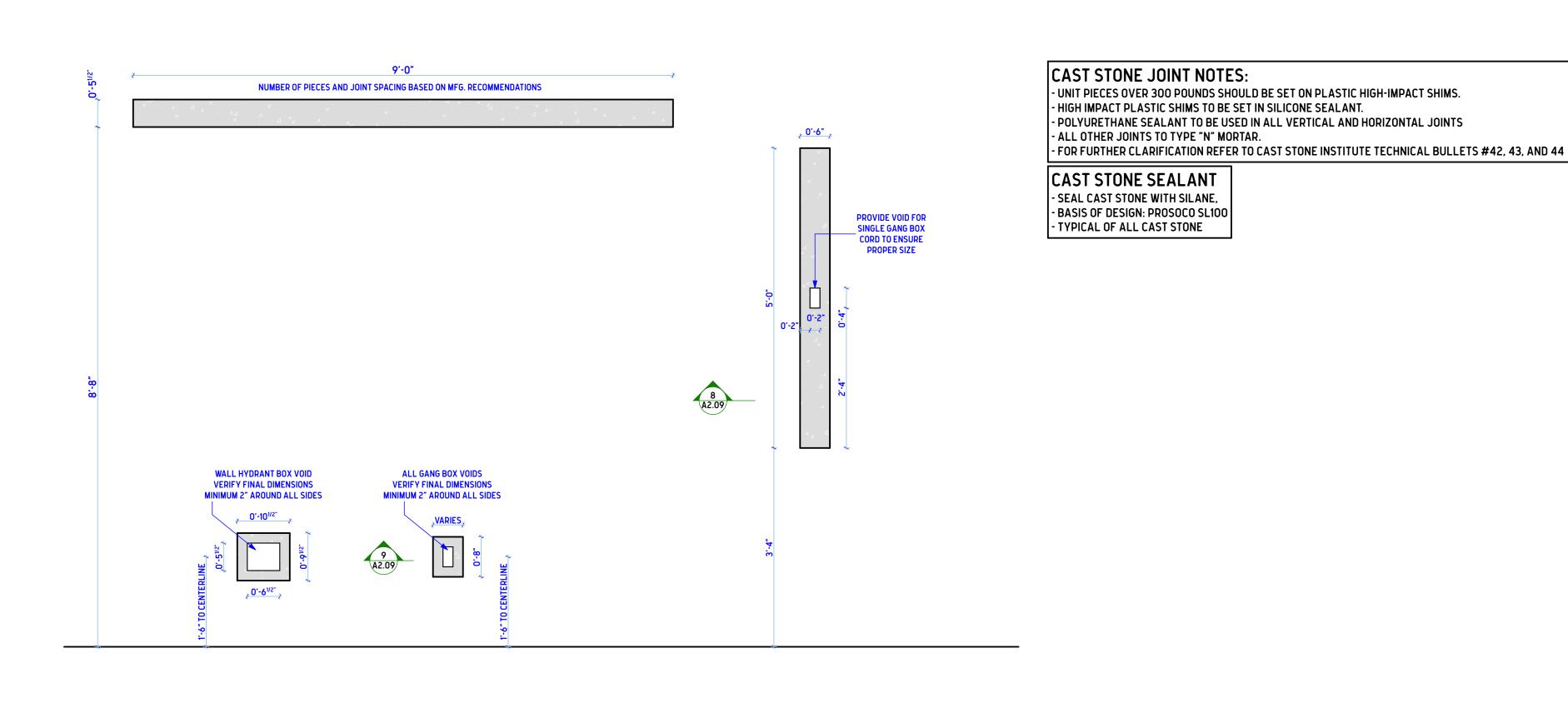
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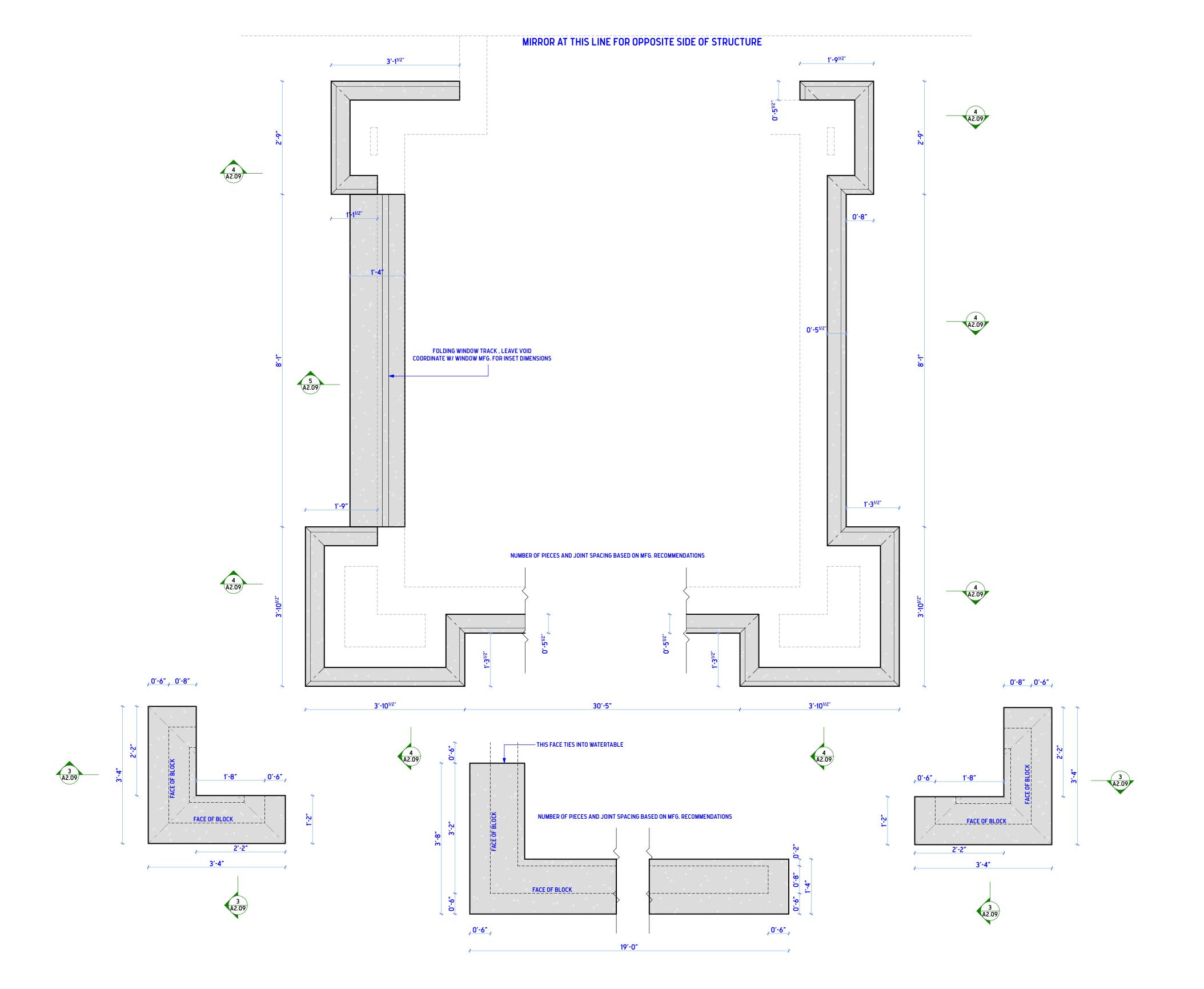
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CONCESSIONS AND RESTROOM, INTERIOR **ELEVATIONS AND PLANS**



CAST STONE, STAND ALONE ELEMENTS, ELEVATIONS

SCALE: 3/4" = 1'-0"



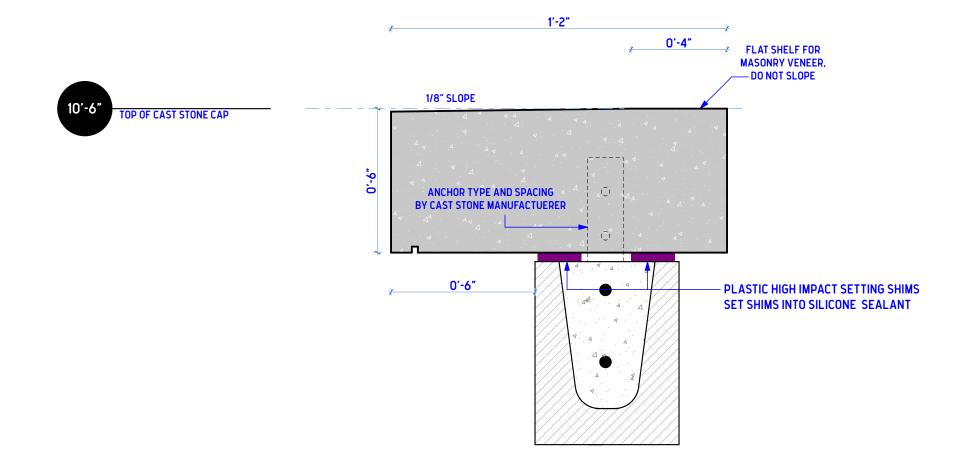
CAST STONE PERIMETER WATERTABLE, BATTERED COLUMN CAPS, AND COUNTERTOP PLAN VIEW

SCALE: 3/4" = 1'-0"

1 2 3

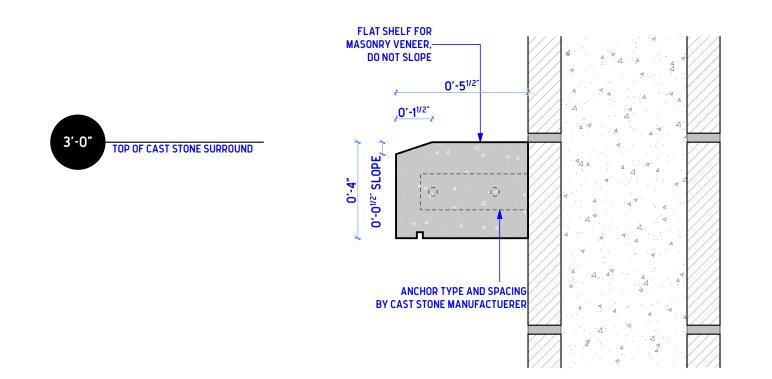
CAST STONE BIDDING NOTES:

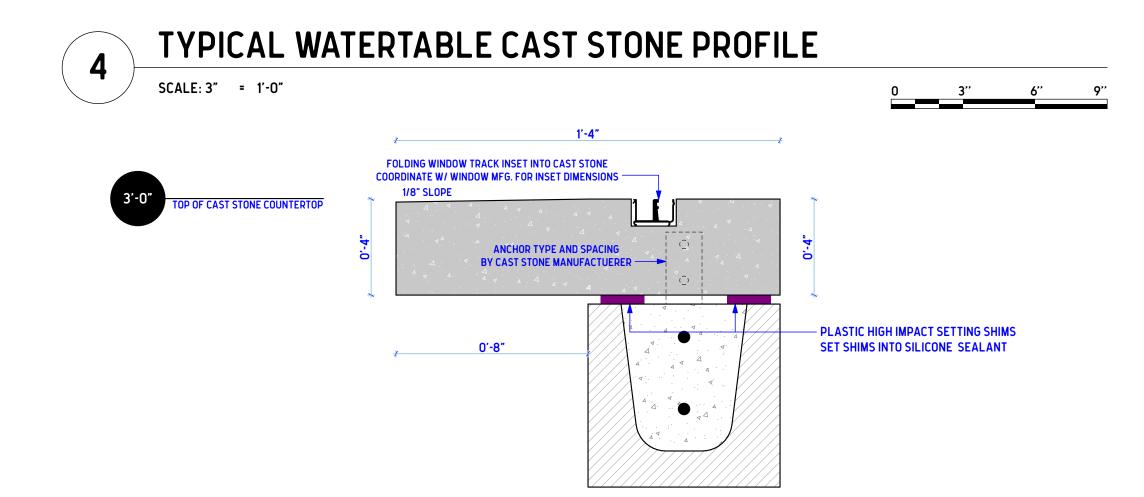
-CAST STONE MANUFACTURERS ARE ENCOURAGED TO SUBMIT ALTERNATE PROFILES AND DESIGNS WHICH ACHIEVE A MORE ECONOMICAL RESULT WHILE MAINTAINING THE DESIGN INTENT OF THE ORIGINAL. ALTERNATIVE PROFILES WILL BE REVIEWED AND ACCEPTED OR REJECTED A MINIMUM OF 10 DAYS BEFORE BID DATE.



BATTERED COLUMN CAP CAST STONE PROFILE

SCALE: 3" = 1'-0"





SCALE: 3" = 1'-0"

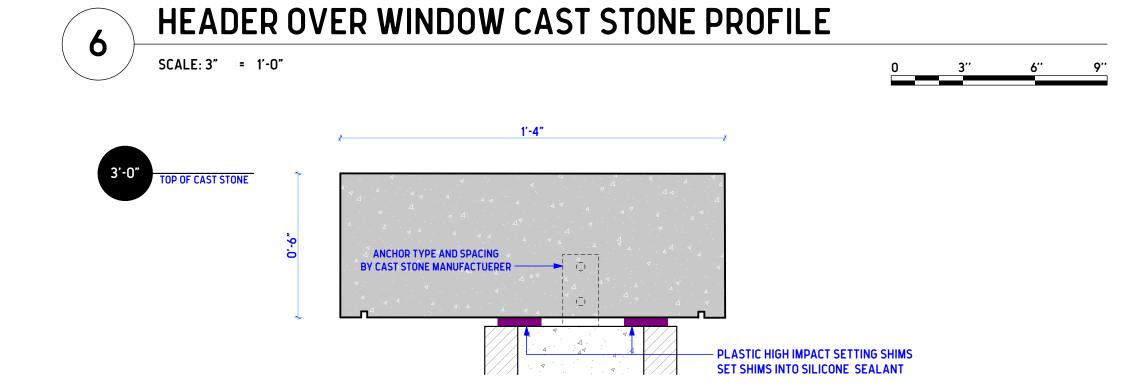
SCALE: 3" = 1'-0"

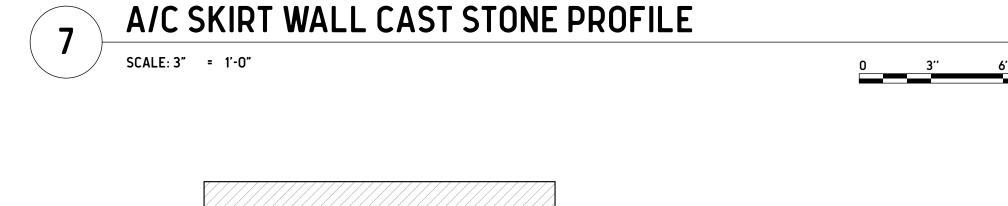
O'-51/2"

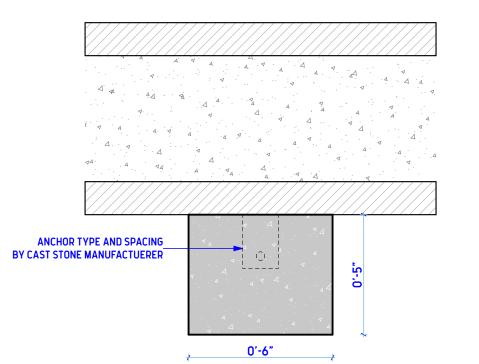
MASONRY VENEER,
DO NOT SLOPE

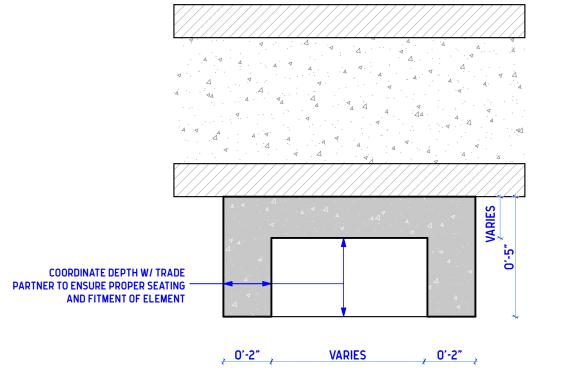
O'-51/2"

ANCHOR TYPE AND SPACING















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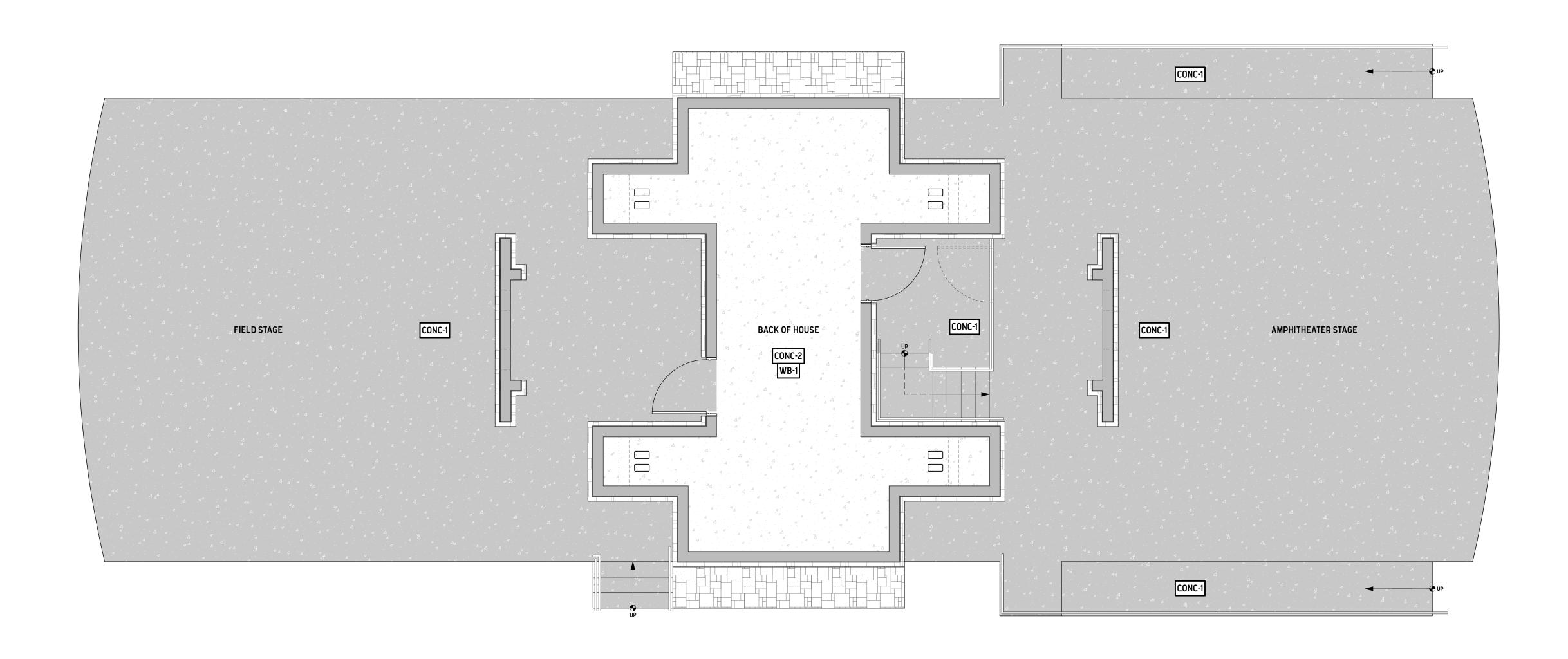
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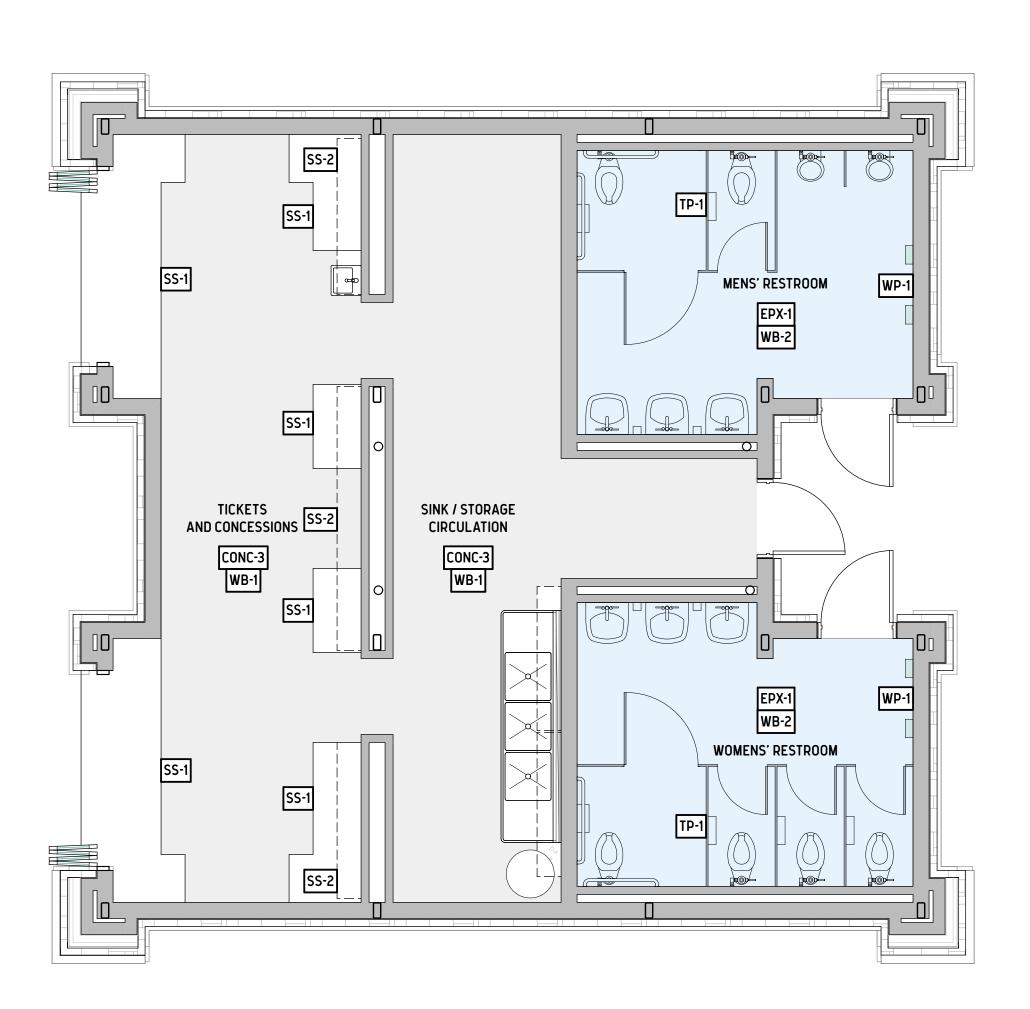
CONCESSIONS AND RESTROOM, CAST STONE LAYOUT AND DETAILS

A2.09



BACK OF HOUSE AND STAGE FINISH PLAN

0 2' 4' 8'



2	CONCESSION AND RESTROOM FINISH PLAN				
	SCALE: 1/4" = 1'-0"	0	2'	4'	8′

DESIGNATION	FLOOR							INTI	ERIOR MATERIAL(S)	NOTES						
ROOM NAME				LS (DIRECTION BASED ON PLAN NORTH)		DOOR		EXPOSED WOOD		STEEL		CEILING			GENERAL NOTES	
NOOIVI IVAIVIL	FLOORING	WALL BASE	NORTH	EAST	SOUTH	WEST	LEAF	FRAME	GLULAM	ULAM T&G FRAME HANDRA		HANDRAILS	GENERAL	WALL	CEILING	GENERAL NOTES
FIELD STAGE	CONC-1								ST-1	ST-2	PT-2	PT-2				PAINT EXPOSED CMU @ REAR OF PRIVACY WALL
BACK OF HOUSE	CONC-2	NONE	NONE	NONE	NONE	NONE	PT-2	PT-2			PT-2		NONE	CMU & CONCRETE WALL	WOOD JOIST AND PLYWOOD	NO INTERIOR PAINT, EXCEPT DOOR LEAF AND FRAME
AMPHITHEATER STAGE	CONC-1								ST-1	ST-2	PT-2	PT-2				PAINT EXPOSED CMU @ REAR OF PRIVACY WALL
TICKETS AND CONCESSIONS	CONC-3	WB-1	PT-1	PT-1	PT-1	PT-1							PT-3	CMU	GYP BOARD W/ F CHANNEL @ PERIMETER	WINDOW INTERIOR PT-3
INK / FOOD STORAGE	CONC-3	WB-1	PT-1	PT-1	PT-1	PT-1	PT-2	PT-2					PT-3	СМИ	GYP BOARD W/ F CHANNEL @ PERIMETER	
IENS' RESTROOM	EPX-1	WB-2	PT-1	PT-1	PT-1	PT-1	PT-2	PT-2					PT-3	СМИ	GYP BOARD W/ F CHANNEL @ PERIMETER	
OMENS' RESTROOM	EPX-1	WB-2	PT-1	PT-1	PT-1	PT-1	PT-2	PT-2					PT-3	CMU	GYP BOARD W/ F CHANNEL @ PERIMETER	
ONCESSIONS BUTTERFLY ROOF									ST-1	ST-2	PT-2					REPEAT SCHEME AT CONCESSIONS AND RR OVERHANGS
MPHITHEATER SEATING	CONC-1											PT-2				

		F	INISH LEGEND FOR STAGE, A	MPITHEATER, A	AND CONCESSION /	RESTROOM AREA			
NOTE: The prod	ducts identified below are the Basis of Desi	gn. Substitutions from wha	t is specified must be submitted to the Architect	during the Bid Phase. Sub	ostitutions will be reviewed for cha	aracteristic conformance and, if found as equa	al, will be approved.		
TAG	PRODUCT	MANUFACTURER	PRODUCT NAME	PRODUCT NO.	FINISH/COLOR	LOCATION	GENERAL NOTES		
GYP-1 +	1/2" GYPSUM BOARD CEILING F-REFVEAL BEAD 1/2"	USG TRIM TEX		AS8710	TBD TBD	PER REFLECTED CEILING PLAN AND FINISH SCHEDULE	MOLDING @ ALL PERIMETERS		
CONC-1	CONCRETE EXTERIOR SLAB	-	-	-		STAGE, RAMPS, LANDINGS, STAIRS	FINE BROOM FINISH ON STAGE, MEDIUM BROOM FINISH ON ALL OTHER SURFACES		
CONC-2	CONCRETE (INTERIOR) SLAB	-	-	-		BACK OF HOUSE @ STAGE	SMOOTH MACHINE TROWEL FINISH		
CONC-3	CONCRETE (INTERIOR) POLISHED SLAB	-	-	-	CLASS B, LEVEL 2 SATIN PER CONCRETE POLISHING COUNCIL	CONCESSIONS AND CIRUCLATION	NO COLOR, NO CHEMICAL POLISHING ALL POLISHING TO BE BY MECHANICAL MEANS AND METHODS		
EXP-1	STONSHIELD SLT	STONHARD	STONSHIELD SLT	-	TBD	MENS' AND WOMENS' RESTROOMS	STANDARD TEXTURE, 6" COVE BASE		
PT-1	PAINT	SHERWIN WILLIAMS	HEAVY DUTY BLOCK FILLER PRIMER WITH PRO INDUSTRIAL WATERBASED CATALYZED EPOXY	B42W00150 + B73-300	EGG SHELL	ALL CONCRETE BLOCK AND CONRETE WALLS	1 COAT OF BLOCK FILLER; 2 COATS OF FINISH PAINT		
PT-2	PAINT	SHERWIN WILLIAMS	PRO-CRYL UNIVERSAL PRIMER B66-1300 W/ DTM ACRYLIC COATING B66-1250	B66-1300 + B66-1250	GLOSS	DOOR LEAF AND FRAME, STEEL FRAME, HANDRAILS AND GUARDSRAILS	1 COAT OF PRIMER; 2 COATS OF FINISH PAINT		
PT-3	PAINT	SHERWIN WILLIAMS	PURE WHITE	SW7005	FLAT	ALL GYPSUM BOARD CEILINGS	1 COAT OF PRIMER; 2 COATS OF FINISH PAINT		
ST-1	STAIN	PER GLULAM MFG. RECOMMENDATIONS	TBD	TBD	TBD	ALL GLULAM ELEMENTS	PROVIDE SAMPLES OF STANDARD FACTORY STAIN COLORS FOR REVIEW AND APPROVAL BY ARCHITECT AND OWNER		
ST-2	STAIN	PER GLULAM MFG. RECOMMENDATIONS	TBD	TBD	TBD	ALL TONGUE AND GROOVE ELEMENTS	PROVIDE SAMPLES OF STANDARD FACTORY STAIN COLORS FOR REVIEW AND APPROVAL BY ARCHITECT AND OWNER		
WB-1	RUBBER WALL BASE, 4" X 1/8"	TARKETT	JOHNSONITE DURACOVE THERMOPLASTIC RUBBER 4" X 1/8" TOELESS TYPE TP	ТҮРЕ ТР	TBD, SUBMIT PHYSICAL COLOR SAMPLES TO ARCHITECT	WHERE ALL CMU AND CONCRETE WALLS MEET CONCRETE FLOOR SLABS	INSTALL PER MANUFACTURER'S INSTRUCTIONS, RUNS TO BE CONTINIOUS AND HAVE AS FEW JOINTS AS POSSIBLE		
WB-2	STONHARD, STONSHIELD 6" INTERGRAL COVE BASE	STONHARD	STONSHEILD SLT, 6" COVE		TBD, SUBMIT PHYSICAL COLOR SAMPLES TO ARCHITECT	WALL BASE AT ALL CMU WALLS IN MENS' AND WOMENS' RESTROOMS	INSTALL PER MANUFACTURER'S INSTRUCTIONS		
SS-1	STAINLESS STEEL WORK TABLES, SEE SHEET A2.08 FOR MFG. AND DETAILS					CONCESSIONS AREA			
SS-2	STAINLESS STEELSHELVING, SEE SHEET A2.08 FOR MFG. AND DETAILS					CONCESSIONS AREA			
WP-1	STAINLESS STEEL WALL CLADDING AT HAND DRYERS, SEE SHEET A2.08 FOR MFG., SIZING, AND PLACEMENT					MENS' AND WOMENS' RESTROOM AT ALL HAND DRYER LOCATIONS			
TP-1	STAINLESS STEEL TOILET PARTITIONS, SEE A2.08 FOR MFG. SIZING, AND DETAILS					MENS' AND WOMENS' RESTROOM			



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10/21/202

MART AMPHITHEATER COMPL

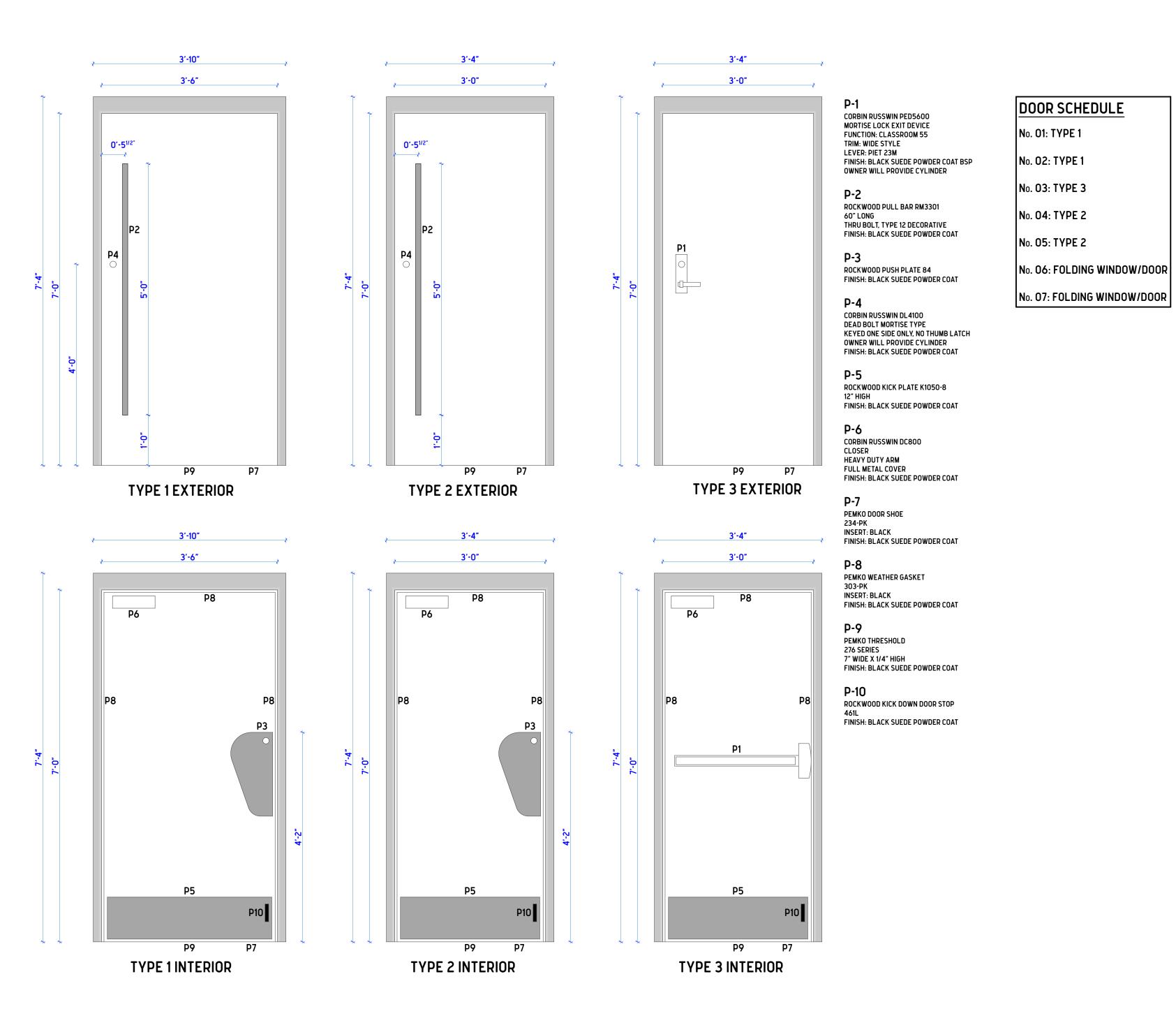
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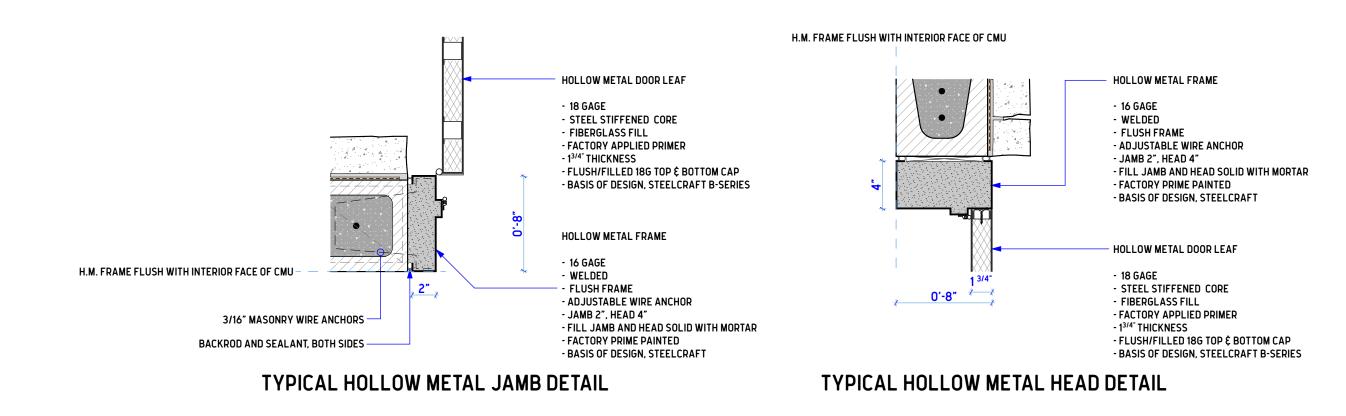
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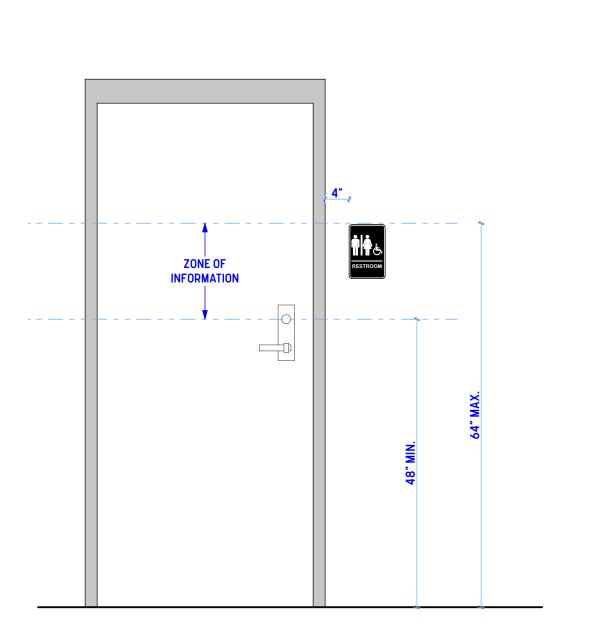
STAGE AND
CONCESSIONS FINISH
PLAN, SCHEDULE, AND
LEGEND



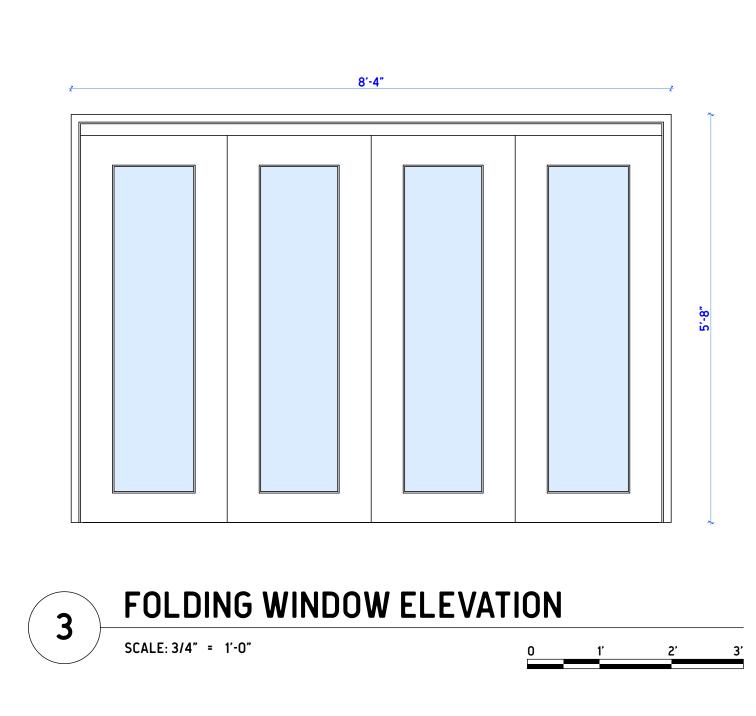
HOLLOW METAL DOOR TYPES

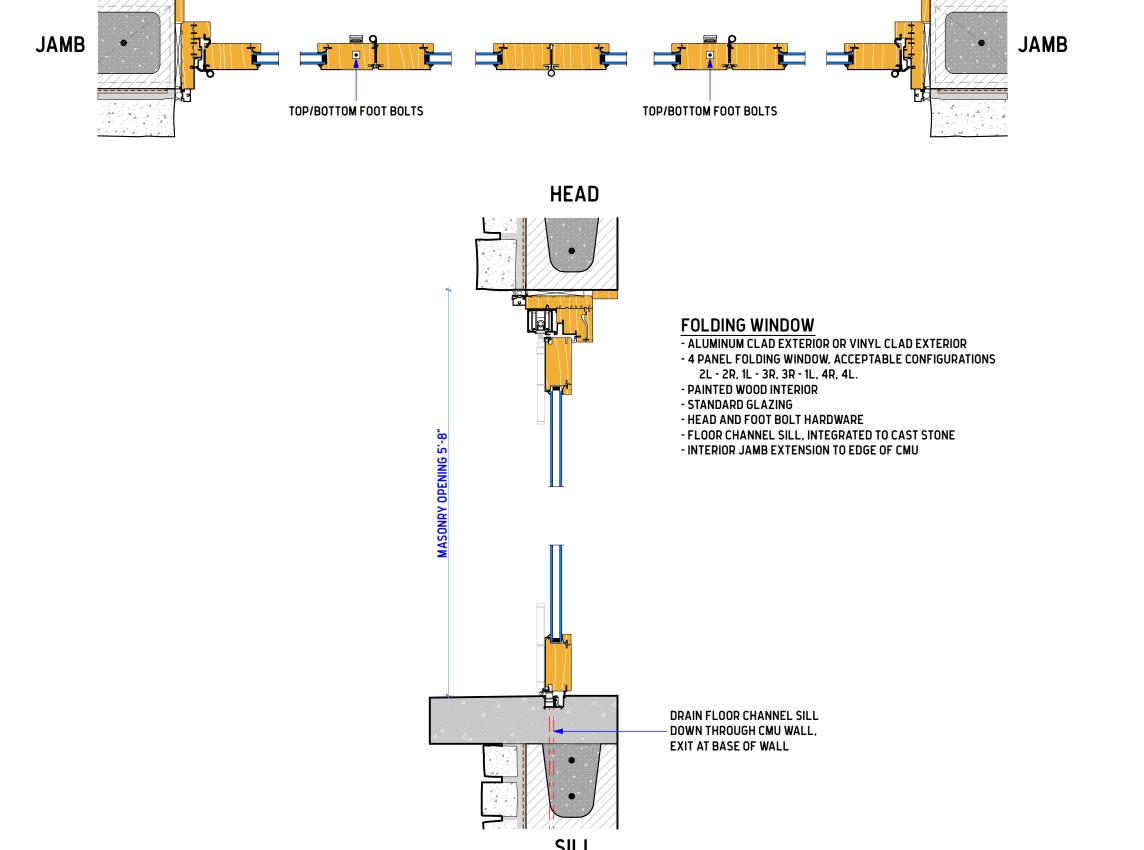


TYPICAL HOLLOW METAL JAMB, AND HEAD DETAILS SCALE: 11/2"= 1'-0"



5 SIGNAGE HEIGHT REQUIRMENTS SCALE: 3/4" = 1'-0"





MASONRY OPENING 8'-4"





CEVIAN DESIGN LAB, LLC ARCHITECT 207 E. 5TH AVENUE PO BOX 35, ROME, GA 30162 706 512 6312 WWW.CEVIANDESIGN.COM



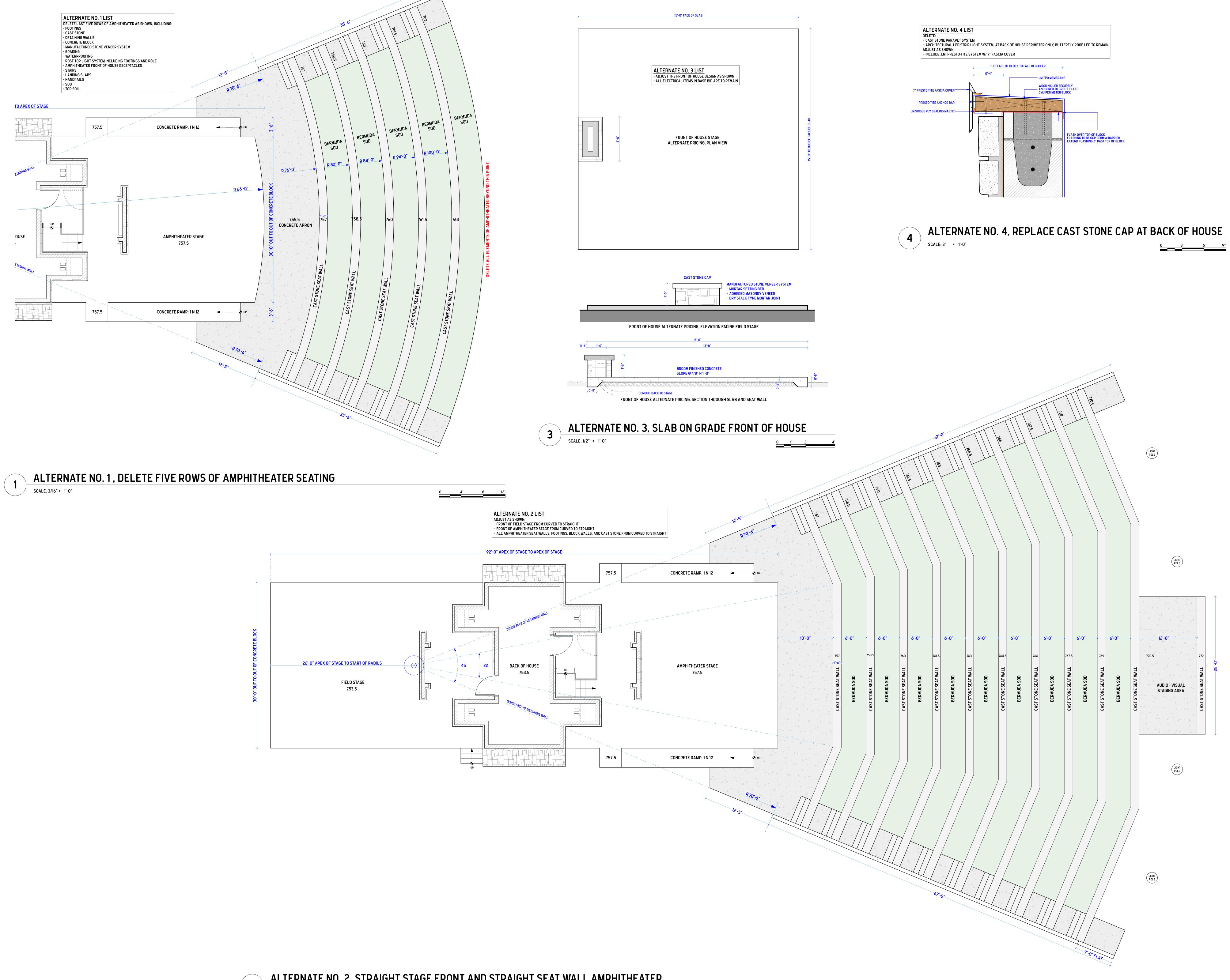
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DOOR AND WINDOWS **ELEVATIONS AND** SCHEDULES



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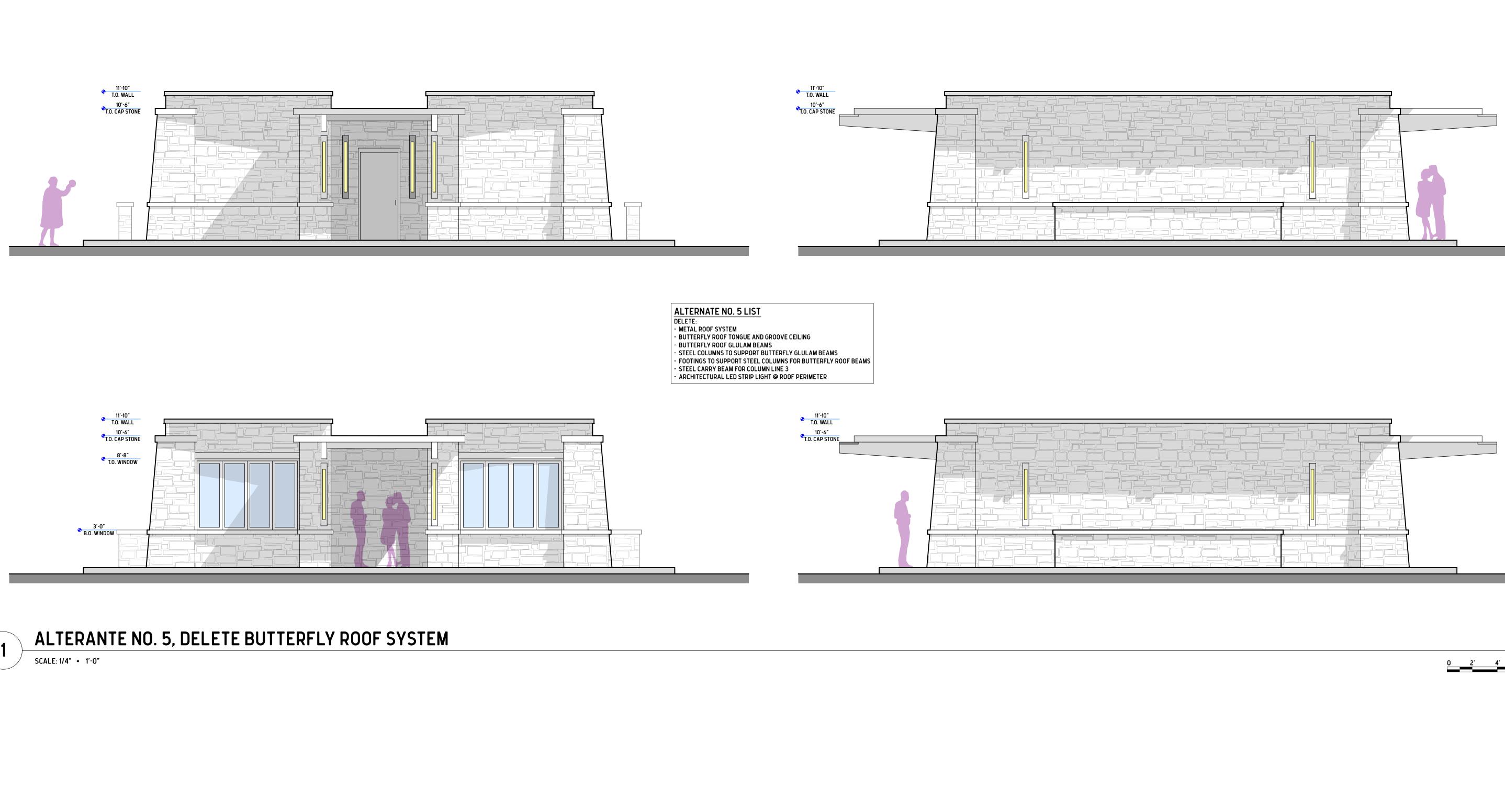
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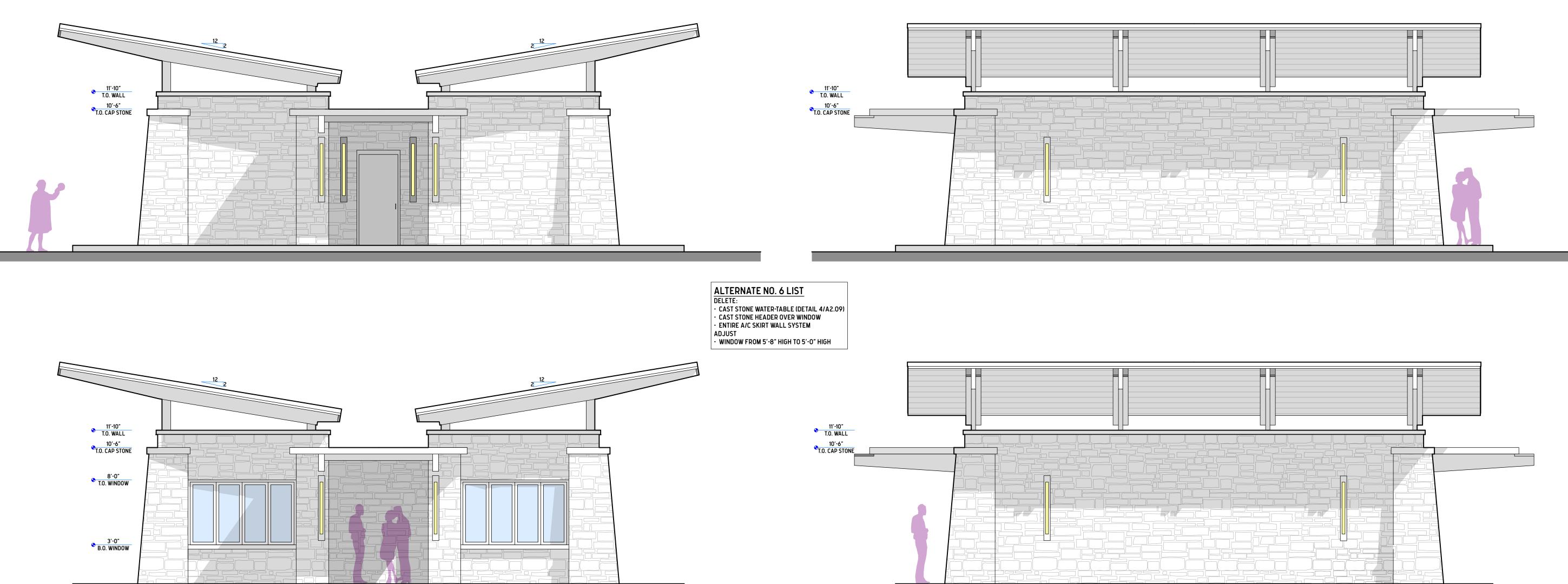
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ALTERNATE PRICING FOR STAGE AND **AMPHITHEATER**





ALTERANTE NO. 6, DELETE CAST STONE WATERTABLE, A/C SKIRT WALL, REDUCE WINDOW SIZE

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





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ALTERNATE PRICING FOR CONCESSIONS AND

RESTROOM

BUILDING CODE: INTERNATIONAL BUILDING CODE 2018 (IBC) W/GEORGIA STATE **AMENDMENTS**

$\underline{\mathsf{WIND}}$:

V_{IJI T}: 107 MPH Vagn: 83 MPH

RISK CATAEGORY: EXPOSURE CATEGORY: C

INTERNAL PRESSURE COEFFICIENT: ±0.18

COMPONENTS AND CLADDING: COMPONENTS AND CLADDING ELEMENTS NOT SPECIFICALLY DESIGNED ON THESE DRAWINGS SHALL BE DESIGNED ACCORDING TO THE WIND PRESSURES STIPULATED BY IBC 2018 FOR THE TRIBUTARY AREA OF THE SPECIFIC

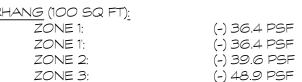
MIN DESIGN WIND PRESSURE FOR EXTERIOR COMPONENT & CLADDING MATERIALS NOT SPECIFICALLY DESIGNED BY THE REGISTERED DESIGN PROFESSIONAL: WALLS (100 SQ FT, NON-END ZONE): (+) 22.7 PSF, (-) 25.2 PSF

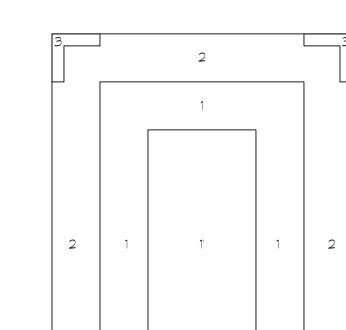
(+) 16.0 PSF, (-) 52.8 PSF

ZONE 1: (+) 16.0 PSF, (-) 33.4 PSF ZONE 1': (+) 16.0 PSF, (-) 24.5 PSF ZONE 2: (+) 16.0 PSF, (-) 43.9 PSF

DVERHANG (100 SQ FT):

ZONE 3:





SEISMIC: RISK CATEGORY II

SITE CLASS = D $S_{DS} = 0.283$ $S_{D1} = 0.150$

SEISMIC DESIGN CATEGORY = C BASE SEISMIC FORCE-RESISTING SYSTEM(S):

STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R=3)

SEISMIC RESPONSE COEFFICIENT(S), CS = 0.094 RESPONSE MODIFICATION FACTOR(S), R = 3

ANALYSIS PROCEDURE USED:

CONSIDERED.

EQUIVALENT LATERAL FORCE PROCEDURE DESIGN BASE SHEAR(V): 15K EA. DIRECTION

<u>SNOW</u> GROUND SNOW LOAD = 5 PSF

SHEET LIST:

SO.01 GENERAL NOTES

AMPHITHEATER FOUNDATION PLAN, SECTIONS, & DETAILS S1.02 AMPHITHEATER ROOF FRAMING PLAN, SECTIONS, & DETAILS

S1.03 AMPHITHEATER ROOF SECTIONS & DETAILS CONCESSIONS AND RESTROOM PAVILION FOUNDATION PLAN, SECTIONS, & DETAILS 52.01S2.02

CONCESSIONS AND RESTROOM PAVILION ROOF FRAMING PLAN, SECTIONS, & DETAILS S2.03 CONCESSIONS AND RESTROOM PAVILION ROOF FRAMING SECTIONS & DETAILS TYPICAL SECTIONS & DETAILS

SUBMITTALS:

- STRUCTURAL DRAWINGS GIVE REPRESENTATIVE DETAILS AND ARE NOT INTENDED TO SHOW ALL CONDITIONS THAT MAY BE PRESENT. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS AS INDICATED IN THE PROJECT DOCUMENTS.
- 2. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES TO ARCHITECT AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATE MAY IMPACT REVIEW SCHEDULE.
- 3. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED: A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE ICC-ES REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE
- 4. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT
- 5. COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL FABRICATED AND SPECIALTY BUILDING COMPONENTS INCLUDING (BUT NOT LIMITED TO) WINDOW SYSTEMS, CANOPY SYSTEMS, AND METAL STAIRS. SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA.
- 6. ALL APPROVED SUBMITTALS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, SHALL BE MADE AVAILABLE ON THE JOBSITE FOR REVIEW BY THE INSPECTOR.
- 7. REPRODUCTION OF CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT

MISCELLANEOUS:

- THE FOLLOWING NOTES APPLY TO ALL PROJECT RELATED STRUCTURAL DRAWINGS. THIS INCLUDES THESE DRAWINGS, FIELD SKETCHES AND RESPONSES TO REQUESTS FOR INFORMATION (RFI'S), UNLESS OTHERWISE INDICATED.
- 2. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS.REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 3. STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
- 4. NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
- 5. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
- 6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DESIGN, ADEQUACY, SAFETY AND STABILITY OF TEMPORARY BRACING AND SHORING THAT MAY BE REQUIRED AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURAL FRAMING. APPLIED CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF ANY STRUCTURAL BUILDING ELEMENT.
- 7. THE CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION LIFECYCLE.
- 8. DO NOT SCALE THESE DRAWINGS; USE DIMENSIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE ARCHITECTURAL DRAWINGS.
- 9. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- 10. WHERE A SECTION OR DETAIL IS CUT ON THE PLAN, IT IS UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS
- OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECT'S OR ENGINEER'S PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE WITH OSHA

11. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS

- 12. CONSULT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION, SIZES, AND EXTENT OF CHASES, INSERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 13. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IN WRITING OF ALL CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
- 14. STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR 15. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION
- OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- 16. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSED FLOOR AREAS. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.
- 17. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. OPENINGS 1'-4" IN WIDTH OR LENGTH (AND LESS) ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL REQUIRED OPENINGS. ALL MECHANICAL OPENING LOCATIONS, UNIT OPERATING WEIGHTS, AND SIZES SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS

FOUNDATIONS:

- FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING AN ASSUMED NET ALLOWABLE BEARING PRESSURE OF 3.0 KSF FOR INDIVIDUAL COLUMN FOOTINGS AND 3.0 KSF FOR CONTINUOUS WALL FOOTINGS UNDER FULL SERVICE LIVE AND DEAD LOAD.
- 2. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH THE CIVIL DRAWINGS AND PROJECT SPECIFICATIONS, AND THE "SUBSURFACE INVESTIGATION REPORT". PREPARED BY GEISYSTEMS ENGINEERING, INC. (PROJECT NUMBER 24-2945, DATED AUGUST 13, 2024). A QUALIFIED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE OF GEORGIA, SHALL VERIFY ALL ASSUMPTIONS IN THE AFOREMENTIONED REPORT AND NOTIFY THE ENGINEER OF RECORD TO ANY VARIATIONS OR DISCREPANCIES WITH THE ACTUAL, CURRENT FIELD
- 3. THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. HOWEVER, IF ADEQUATE BEARING CAPACITY IS NONEXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS (AS

RECOMMENDED BY A QUALIFIED GEOTECHNICAL ENGINEER).

THE GEOTECHNICAL REPORT NOTED IN ITEM 2 OF THIS SECTION.

- 4. FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT. 5. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE
- BEFORE PLACING CONCRETE. 6. IN AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY CUT AND FILL REQUIREMENTS SPECIFIED BY CIVIL SHALL BE AS INSTALLED PURSUANT TO
- 7. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF AN INDEPENDENT TESTING AGENCY PRIOR TO CASTING OF THE CONCRETE.
- 8. ALL EXCAVATIONS AND STRUCTURE BEARING PADS SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING
- 9. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1-6" BELOW FINAL GRADE FOR FROST PROTECTION.
- 10. NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (2 HORIZONTAL TO 1 VERTICAL) TO A FOOTING. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY AND PREVENT CAVING.
- 11. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED. 12. BACKFILL AGAINST WALLS SHALL BE PLACED IN 8" LIFTS AND SHALL BE DEPOSITED EVENLY AGAINST EACH SIDE OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED. BACKFILL SHALL NOT BE PLACED AGAINST WALLS DEPENDENT UPON TOP AND BOTTOM

SLABS/FOUNDATION FOR SUPPORT UNTIL SUCH SLABS HAVE ATTAINED MINIMUM

SUFFICIENT BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION

EXPLICITLY NOTED ON DRAWINGS. 13. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE DRAINAGE SYSTEM FOR ALL BACKFILL

PROCESS. RETAINING WALLS ARE NOT DESIGNED TO CANTILEVER AT ANY TIME UNLESS

CONDITIONS PER CIVIL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. 14. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH TOPS OF

PRIOR WRITTEN APPROVAL FROM ENGINEER.

ADJACENT FOOTINGS AT THE SAME ELEVATION. 15. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT

CONCRETE

EXTERIOR SLAB ON GRADE

A. #11 BARS AND SMALLER:

1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-14. CEMENT USED SHALL BE TYPE I OR III CONFORMING TO ASTM C-150. CONCRETE SHALL DEVELOP A MINIMUM 28 DAY STRENGTH AND DENSITY AS FOLLOWS: STRENGTH (PSI) DENSITY (PCF) FOOTINGS, 4" SLAB ON GRADE 3000 145 - 150

145 - 150

3/4 INCHES

3 INCHES

3/4 INCHES

- 3. AGGREGATE SHALL BE WELL GRADATED AND SHALL CONFORM TO THE FOLLOWING: FOOTINGS & SLAB ON GRADE 1" COARSE AGGREGATE (DENSITY 145 - 150 PCF) (ASTM C-33)
- 4. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS BY EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. RESULTS OF ALL COMPRESSIVE STRENGTH TEST SHALL BE MADE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE INSPECTOR.
- 5. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.
- 6. NO ADDITIONAL WATER SHALL BE ADDED TO CONCRETE AT THE JOB SITE. 7. MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE:
- B. UNFORMED SURFACE IN CONTACT WITH THE GROUND: C. C. BASEMENT WALLS: 2 INCHES EXTERIOR 3/4 INCHES INTERIOR D. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER:

SLABS, WALLS, AND JOISTS:

BEAMS, GIRDERS AND COLUMNS: 11/2 INCHES

8. SLAB-ON-GRADE SHALL BE SAW CUT NO MORE THAN 12 HOURS AFTER CONCRETE HAS BEEN FINISHED. CONTRACTOR TO SUBMIT LAYOUT AND CONSTRUCTION SCHEDULE ("SOFT-CUT"

#5 BARS AND SMALLER:

E. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:

REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-14.

- INTERNATIONAL OR SIM.) 9. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO
- 10. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SLAB FINISHES, SLAB DEPRESSIONS, ELEVATIONS AND ENCASED OR EMBEDDED ITEMS.
- 11. PIPES AND CONDUITS EMBEDDED IN CONCRETE SHALL CONFORM TO THE FOLLOWING
- A. NO MATERIAL HARMFUL TO CONCRETE (SUCH AS , BUT NOT LIMITED TO, ALUMINUM) IS PERMITTED B. NO EMBEDMENT OR PENETRATION WHICH IMPAIRS THE STRUCTURAL STRENGTH OR
- INTEGRITY IS PERMITTED. C. CONDUITS AND PIPES SHALL NOT HAVE A DIAMETER THAT EXCEEDS 1/3 THE OVERALL THICKNESS OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE EMBEDDED. D. MINIMUM CENTER TO CENTER SPACING SHALL NOT BE CLOSER THAN 3 DIAMETERS
- E. PLACEMENT SHALL OCCUR ABOVE BOTTOM LAYER OF REINFORCEMENT AND BELOW TOP LAYER OF REINFORCEMENT AND SHALL NOT CAUSE REINFORCEMENT TO BE CUT, BENT OR DISPLACED IN ANY MANNER. F. PLACEMENT SHALL MAINTAIN A MINIMUM CLEARANCE FROM REINFORCEMENT OF 3 REINFORCING BAR DIAMETERS OR 3/4" FROM WELDED WIRE FABRIC REINFORCEMENT.
- G. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW SLAB ON GRADE. 12. UNLESS NOTED OTHERWISE, PROVIDE CONTROL JOINTS IN SLABS ON GRADE NOT TO EXCEED 15 FEET ON CENTER IN EACH DIRECTION, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL
- 13. FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION.
- 14. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER.
- 15. REINFORCING SHALL CONFORM TO ASTM A615, GR60 UNLESS NOTED OTHERWISE. 16. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 GRADE 60.
- 17. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES) AND CRSI MSP-1
- (MANUAL OF STANDARD PRACTICE), LATEST EDITION. 18. ALL "CONTINUOUS" REINFORCEMENT SHALL HAVE MINIMUM LAP OF "B" TYPE (ACI 318-14, SECTION 25.5.2) AT SPLICES UNLESS NOTED OTHERWISE.
- 19. PROVIDE REINFORCING CHAIRS FOR ALL SLAB-ON-GRADE REINFORCING.
- 20. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- 21. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE" (27TH EDITION).
- 22. WHERE WELDED WIRE FABRIC REINFORCEMENT IS SPECIFIED IN SLABS ON GRADE PLACEMENT SHALL BE 1" BELOW TOP OF SLAB. OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE.
- 23. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL AND/OR SPLICES ARE PERMITTED ONLY WHERE SHOWN ON DRAWINGS. WHERE WELDING IS PERMITTED IT SHALL CONFORM TO AWS D1.4, STRUCTURAL WELDING CODE - REINFORCING STEEL.
- 24. BASE PLATES, ANCHOR RODS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 4" OF CONCRETE.
- 25. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING UNLESS NOTED OTHERWISE

MASONRY

- 1. ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO TMS 402-16. 2. MASONRY SHALL BE MEDIUM WEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH, fm. OF 1500 PSI BASED ON GROSS AREA. MORTAR SHALL CONFORM TO ASTM C270 TYPE S OR M. GROUT SHALL CONFORM TO ASTM C476, WITH A MAXIMUM AGGREGATE
- SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. 3. REINFORCING BARS SHALL CONFORM TO ASTM A 615 GRADE 60 UNLESS NOTED
- 4. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED LADDER TYPE FABRICATED UNITS WITH A SINGLE PAIR OF 9 GA DIAMETER SIDE RODS AND CROSS RODS FABRICATED FROM COLD DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS UNLESS NOTED OTHERWISE. PROVIDE HOOK AND EYE VENEER REINFORCING IN ALL EXTERIOR WALLS.
- 5. VERTICAL CONTROL JOINTS IN MASONRY WALLS ARE NOT INDICATED ON THESE DRAWINGS. "HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. HORIZONTAL JOINT REINFORCING (DUR-O-WALL) SHALL BE TERMINATED ON EITHER SIDE OF VERTICAL CONTROL JOINTS. WALLS SHORTER THAN 15'-O" IN LENGTH SHALL NOT HAVE VERTICAL CONTROL JOINTS.
- A. AT EXTERIOR WALLS, SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS. JOINTS SHALL BE PLACED AT A SPACING NOT TO EXCEED 30'-0" ON CENTER. JOINTS SHALL NOT BE LOCATED CLOSER THAN 2'-8" TO THE JAMB OF ANY EXTERIOR WALL OPENING. JOINTS SHALL NOT BE LOCATED FURTHER THAN 15'-0" FROM ANY CORNER, NOR CLOSER THAN 5'-0" FROM ANY CORNER.
- B. AT INTERIOR SHEAR WALLS, JOINTS SHALL BE PLACED AT A SPACING NOT TO EXCEED 30'-0" ON CENTER. JOINTS SHALL NOT BE LOCATED CLOSER THAN 2'-8" TO THE JAMB OF ANY SHEAR WALL OPENING. JOINTS SHALL NOT BE LOCATED FURTHER THAN 15'-O" FROM ANY CORNER, NOR CLOSER THAN 5'-O" FROM ANY CORNER.
- C. AT INTERIOR NON-SHEAR WALLS, VERTICAL CONTROL JOINTS SHALL BE PLACED AT A SPACING NOT TO EXCEED 30'-0" ON CENTER. JOINTS SHALL BE LOCATED AT WALL JAMBS, WHERE PRACTICAL, AND SHALL STEP 8" HORIZONTALLY AT MASONRY LINTEL LOCATIONS. WHERE WALLS SIT ON TOP OF A CAST SLAB-ON-GRADE, ALIGN WALL CONTROL JOINTS WITH SLAB CONTROL JOINTS. JOINTS SHALL BE LOCATED AT ALL CORNER/TEE INTERSECTIONS WHERE THE LEGS OF EACH CORNER/TEE EXCEED 15'-0" IN
- 6. MASONRY PILASTERS SHALL BE LOCATED ADJACENT TO CONTROL OR EXPANSION JOINTS PER TYPICAL DETAILS.
- 7. ALL REINFORCED CELLS AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED
- 8. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN SIX VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORGING.
- 9. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS. 10. VERTICAL BARS SHALL BE HELD IN POSITION WITH PRE-MANUFACTURED TIES AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 DIAMETERS OF THE REINFORCING NOR
- 11. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 2-1/2" x 3".
- KEY AT THE POUR JOINT. 13. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS

12. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A

- 14. ALL BOLTS INSERTED IN THE WALLS SHALL BE GROUTED SOLIDLY INTO POSITION. 15. WHERE EXPANSION BOLTS OR OTHER ANCHORS ARE EMBEDDED INTO THE SIDE OF MASONRY WALLS, THE CELLS SHALL BE FULLY GROUTED AT LEAST 8" ABOVE AND BELOW EACH BOLT OR ANCHOR.
- 16. WHERE NOT OTHERWISE SHOWN, MASONRY WALL FOOTINGS SHALL BE 12" THICK AND HAVE A MINIMUM OF 4" PROJECTION ON EACH SIDE OF WALL. REINFORCE WITH (2) #5 BARS CONTINUOUS TOP AND BOTTOM.
- 17. WALLS SHALL BE GROUTED USING LOW LIFT GROUTING TECHNIQUES. 18. ALL MASONRY WALLS SHALL BE ASSUMED TO BE RUNNING BOND, UNLESS NOTED
- OTHERWISE IN PLAN OR SECTION.

19. MASONRY MORTAR SHALL BE TYPE "S" AND CONFORM TO ASTM C-270

STRUCTURAL STEEL

WELDING ELECTRODES

WASHERS - TYPE I

DESIGN CODE: AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS

- 1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES: STRUCTURAL W-SHAPES ASTM A992 (Fy=50ksi) ALL CHANNELS, ANGLES, PLATES, ETC. (UNO) ASTM A36 (Fy=36ksi) STRUCTURAL TUBES ASTM A500 GRADE C (Fy=50ksi) STEEL PIPE ASTM A53 (Fy=35ksi) ANCHOR RODS ASTM F1554 (Fy=55ksi) HIGH STRENGTH BOLTS ASTM A325 ASTM A563 HEX NUTS - GRADE A
- 2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (AISC 2016) EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS. 3. THE STEEL STRUCTURE IS A NON-SELF-SUPPORTING STEEL FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF DECK AND ATTACHMENT TO THE MASONRY WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL

TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND

E70xx HARDENED STEEL

ASTM F436

- SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETE AND ARE CAPABLE OF PROVIDING 4. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. CONNECTIONS SHOWN ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN ONLY AS THEY ARE DEEMED APPROPRIATE AND ADEQUATE. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH AISC 15TH EDITION "SPECIFICATIONS FOR
- 5. SPLICING OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.

STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS".

6. NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE

7. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY.

- ANCHOR BEAMS TO MASONRY WITH TWO 5/8" DIAMETER ANCHOR RODS WITH 1'-0" EMBEDMENT INTO GROUT FILLED MASONRY. 8. WHERE BEAMS INTERSECT AT THE TERMINATING ELEVATION OF A COLUMN, THE BEAM WITH THE GREATEST REACTION SHALL BEAR ON TOP OF THE COLUMN UNLESS NOTED OTHERWISE
- ON DRAWINGS. WHERE BEAMS INTERSECT AT THE INTERMEDIATE ELEVATION OF A COLUMN, THE FRAMING BEAMS SHALL BE CONNECTED TO THE COLUMNS WITH A WT CONNECTION. FIN PLATE CONNECTIONS ARE NOT PERMITTED. 9. CONNECTIONS FOR NON-COMPOSITE BEAMS WHICH CANNOT CONFORM TO AISC TYPICAL CONNECTION DETAILS SHALL BE DETAILED IN ACCORDANCE WITH THE FOLLOWING:
- A. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL SUPPORT (AS SIMPLE SPAN) FOR THE SPAN SHOWN ON THE DRAWINGS. (TABLE 3-6, AISC 15TH EDITION) B. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL
- BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION C. WHERE CONNECTIONS SUPPORT BEAMS WHICH ARE SUBJECT TO CONCENTRATED LOADS, SUCH CONCENTRATED LOADS SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION.
- D. BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH A325 BOLTS. MINIMUM DIAMETER OF ALL BOLTS SHALL BE 3/4", MAX. DIA. 11/8". PROVIDE AT LEAST 2 BOLTS PER CONN TIGHTENED "SNUG TIGHT". E. END CONNECTIONS OF FLOOR MEMBERS SHALL ACCOMMODATE END ROTATIONS OF SIMPLE, UNRESTRAINED BEAMS. FOR THIS PURPOSE, INELASTIC ACTION IN THE CONNECTION IS PERMITTED.
- F. COPED OR CUT ENDS OF MEMBERS SHALL BE REINFORCED WHERE REQUIRED TO SUSTAIN THE SPECIFIED REACTIONS. G. TENSILE CONNECTIONS SHALL BE DESIGNED FOR A FORCE RESULTING FROM MULTIPLYING THE GROSS AREA BY 20 KSI.
- 10. FABRICATE AND ERECT MEMBERS WITH NATURAL CAMBER UP.

CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION.

- 11. STRUCTURAL STEEL CONTRACTOR TO PROVIDE DECK SUPPORT ANGLES AS REQ'D (L3x3x4 MINIMUM, UNO). THE CONTINUOUS ANGLE AT THE ROOF PERIMETER SHALL BE SPLICED SUCH THAT THE FULL TENSION FORCE THAT CAN BE DEVELOPED BY THE ANGLE WILL BE TRANSFERRED THROUGHOUT THE SPLICE.
- 12. UNLESS OTHERWISE SHOWN ON DRAWINGS, SIZE OF WELDS SHALL NOT BE SMALLER THAN 3/16". ALL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1, STRUCTURAL WELDING CODE BY AMERICAN WELDING SOCIETY. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

13. THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL

- 14. OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK PRIOR TO DETAILING. PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- MEMBERS, ON ALL MEMBERS FRAMING OVER COLUMNS, AT BEAM COLUMN JOINTS (AS REQUIRED BY THE AISC SPECIFICATIONS) AND WHERE SHOWN ON THE DRAWINGS.

15. PROVIDE STIFFENERS FINISHED TO BEAR UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING

- 16. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND ELEVATIONS OF LOOSE LINTELS. 17. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL
- 18. WELDING INSPECTION SHALL MEET REQUIREMENTS AS STATED IN THE SCHEDULE OF SPECIAL
- 19. ALL STRUCTURAL STEEL NOT RECEIVING FIRE PROOFING SHALL RECEIVE ONE SHOP COAT OF RUST INHIBITIVE PRIMER.

WOOD FRAMING:

- 1. ALL WOOD DESIGN AND CONSTRUCTION SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (ANSI/AWC NDS-2018) AND RELATED SUPPLEMENTS.
- 2. UNLESS NOTED, USE SPRUCE PINE FIR (E=1600 KSI MIN) UNO, 19% MAX MOISTURE CONTENT, AS FOLLOWS:

GRADE SPECIES SOUTHERN PINE No 2 POST, BEAMS & HEADERS LOAD BEARING STUDS SPRUCE PINE FIR No 2 (INTERIOR & EXTERIOR) NON-LOAD BEARING STUDS SPRUCE PINE FIR STUD GRADE (INTERIOR)

SOUTHERN PINE No 2 JOISTS & PURLINS PLATES, BLOCKING & SUB-PURLINS SOUTHERN PINE No 2 GLULAM (BASIS FOR DESIGN): BOISE CASCADE

3. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR SOIL OR PERMANENTLY EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

LVL (BASIS FOR DESIGN):

4. AT STUD WALL OPENINGS, THE TOTAL NUMBER OF DISPLACED AND/OR CUT STUDS SHALL BE INSTALLED AND ATTACHED TO THE JAMBS, ONE-HALF OF THE TOTAL TO EACH SIDE OF THE OPENING (TOTAL NUMBER INCLUDING JACK AND KING STUDS.)

VERSA LAM 3100

BOISE CASCADE

- 5. METAL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS SO THAT THE MAXIMUM PUBLISHED CAPACITY IS
- 6. WHERE NO CONNECTION IS INDICATED ON THE DRAWINGS, ATTACHMENT SHALL BE MADE IN ACCORDANCE TO TABLE 2304.9.1 FASTENING SCHEDULE IN THE INTERNATIONAL
- 7. ALL CONNECTORS SHALL BE G90 GALVANIZED STEEL, EXCEPT CONNECTORS IN CONTACT WITH PRESSURE TREATED, FIRE-RETARDANT OR WOLMANIZED WOOD SHALL BE
- COATED WITH G185 ZINC COATING.
- 8. FURNISH BOLTS AND ANCHOR RODS WITH STANDARD NUT WASHER.

ONE-THIRD NAIL LENGTH FROM THE END OF PIECE.

10. ALL LOAD BEARING STUD WALLS (INTERIOR & EXTERIOR) SHALL HAVE CONTINUOUS HORIZONTAL BLOCKING AT 4'-0" O.C. (MAX.) VERTICALLY PRIOR TO APPLYING ANY LOADS (INCLUDING FRAMING FOR FLOORS ABOVE).

9. TOE NAILS SHALL BE DRIVEN AT A 30° ANGLE RELATIVE TO PIECE. START NAIL AT

- 11. WHERE (2)-2x AND (2)-2x + 1/2" PLYWOOD PLATE BEAMS ARE DESIGNATED, SPIKE PLATES TOGETHER WITH 12d NAILS @ 12" O.C., 1" FROM TOP AND 1" FROM BOTTOM OF PLATE.
- 12. WHERE (3)-2x AND LARGER BEAMS ARE DESIGNATE, PLATES SHALL BE BOLTED TOGETHER WITH 1/2"Ø BOLTS @ 30" O.C., 1 1/2" FROM TOP AND BOTTOM. BOLTS SHALL
- HAVE MINIMUM BENDING YIELD (Fyb) OF 45,000 PSI. 13. WHERE STUD PACK WOOD COLUMNS ARE DESIGNATED. SPIKE STUDS TOGETHER WITH 16d NAILS @ 12" O.C. (VERTICALLY).
- 14. STUD PACK OR SOLID SAWN WOOD COLUMNS SHALL BE CONTINUOUS FROM LOCATION SHOWN TO THE FOUNDATION. BLOCK FLOOR CAVITY SOLID BELOW WOOD COLUMN (WIDTH EQUAL TO WOOD COLUMN) TO ACHIEVE CONTINUITY.
- 15. FINGER-JOINTED LUMBER IS PERMISSIBLE AT WALL STUDS ONLY.
- 16. STRUCTURAL ELEMENTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING UNLESS METAL OR WOOD SIDE PLATES ARE PROVIDED TO STRENGTHEN THE MEMBER. PENETRATIONS IN FLOOR AND WALL SHEATHING IS PERMITTED PROVIDED THAT 2x BLOCKING IS INSTALLED AT OPENING PERIMETER (FOR OPENINGS LARGER THAN 10" IN LENGTH/DIAMETER) AND WALL FRAMING IS NOT INTERRUPTED.
- 17. DOUBLE TOP PLATES ((2)-2x) AT ALL WALLS SHALL BE LAPPED AT CORNERS AND INTERSECTIONS AND FASTENED IN ACCORDANCE WITH TABLE 2304.10.1 FASTENING SCHEDULE IN THE INTERNATIONAL BUILDING CODE, UNLESS NOTED OTHERWISE. OFFSET DOUBLE PLATE END JOINTS 24" (MIN.). 18. WALL SHEATHING NOTED ON STRUCTURAL DRAWINGS SHALL BE ATTACHED DIRECTLY

TO THE FACE OF FRAMING MEMBERS. SEE ARCHITECTURAL DRAWINGS FOR ALL

NON-STRUCTURAL SHEATHING REQUIREMENTS. WHERE ARCHITECTURAL DRAWINGS

THICKENED SLABS OR TURNDOWNS) SHALL BE ANCHORED TO SLAB USING POWDER

- REQUIRE ADDITIONAL SHEATHING, SUCH SHEATHING SHALL BE ATTACHED TO THE OUTSIDE FACE OF STRUCTURAL SHEATHING. 19. ANCHOR ALL EXTERIOR, INTERIOR LOAD BEARING AND SHEAR WALLS TO ANCHOR RODS OR EPOXY ANCHORS PER STRUCTURAL DRAWINGS. OTHER WALLS (WALLS NOT ON
- ACTUATED FASTENERS WITH 0.144"Ø AND EMBEDMENT OF 3/4"AT 12" O.C. (MAX.). 20. PROVIDE ONE ROW OF BRIDGING FOR EACH 8'-0" LENGTH OF ROOF FRAMING MEMBERS

PLYWOOD ROOF SHEATHING:

- 1. DECKING SHALL BE 5/8" APA-CDX RATED PLYWOOD SHEATHING 32/16 (EXPOSURE 1).
- 2. ORIENT LONG SIDE OF PANEL PERPENDICULAR TO SUPPORT. END JOINT SHALL BE ALIGNED WITH THE MIDPOINT OF THE TWO ADJACENT PANELS. NO CONTINUOUS PANEL JOINTS ARE PERMITTED. PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS (NO SINGLE SPAN CONDITIONS).
- 3. ATTACHMENT OF PANEL TO WOOD FRAMING MEMBERS SHALL BE 10d NAILS AT THE FOLLOWING SPACINGS, UNLESS OTHERWISE NOTED: 4" AT ROOF PERIMETER 6" AT PANEL EDGES 12" AT INTERMEDIATE SUPPORTS

4. EDGE SUPPORTS SHALL BE PROVIDED AS RECOMMENDED BY THE AMERICAN PLYWOOD

PANEL END JOINTS SHALL OCCUR OVER FRAMING. PANELS SHALL BE BLOCKED AT

ASSOCIATION (APA) BY USE OF PANEL CLIPS OR WOOD BLOCKING BETWEEN TRUSSES.

PERIMETER OF ROOF AND AT DIRECTIONAL CHANGES.

- GLUED-LAMINATED TIMBER 1. STRUCTURAL GLUE-LAMINATED (GLULAM) TIMBER SHALL COMPLY WITH AITC A190.1 AND AITC 117 OR RESEARCH/EVALUATION REPORTS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- 2. STRUCTURAL GLUED-LAMINATED TIMBER SHALL BE MADE WITH WET-USE ADHESIVE COMPLYING WITH AITC190.1. DO NOT USE ADHESIVES THAT CONTAIN UREA FORMALDEHYDE.
- 4. PENETRATING AND END SEALERS SHALL CONSIST OF MANUFACTURER'S STANDARD, TRANSPARENT, COLORLESS WOOD SEALER EFFECTIVE IN RETARDING TRANSMISSION OF MOISTURE AT CROSS-GRAIN CUTS AND IS COMPATIBLE WITH INDICATED FINISHES.

WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER OF RECORD.

5. STRUCTURAL GLUED-LAMINATED TIMBER SHALL SHALL BE ERECTED TRUE AND PLUMB,

6. NO CUTTING, NOTCHING, OR BORINGS ARE PERMITTED IN GLULAM MEMBERS WITHOUT

3. GLULAM SOECIES AND GRADES (BASIS FOR DESIGN):

WITH UNIFORM, CLOSE-FITTING JOINTS.

- BOISE CASCADE, SP/SP 26F-V4 (BALANCED LAY-UP).

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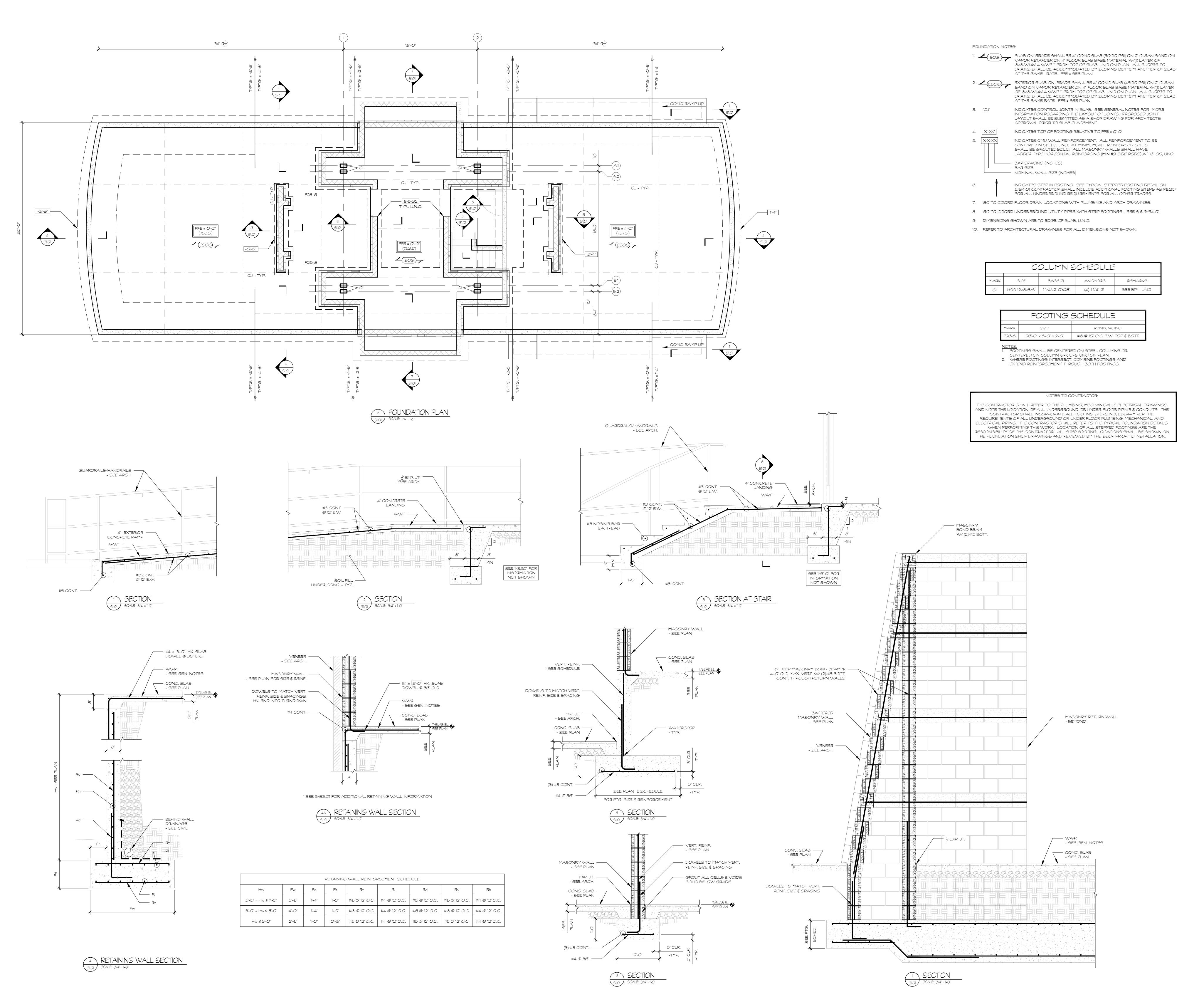
CONSTRUCTION DRAWINGS

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GENERAL NOTES

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ATER COMPLEX

CITY OF ROCKMART
ROCKMART
ROCKMART AMPHITHEA1
219 CHURCH STREET,

CONSTRUCTION DRAWINGS

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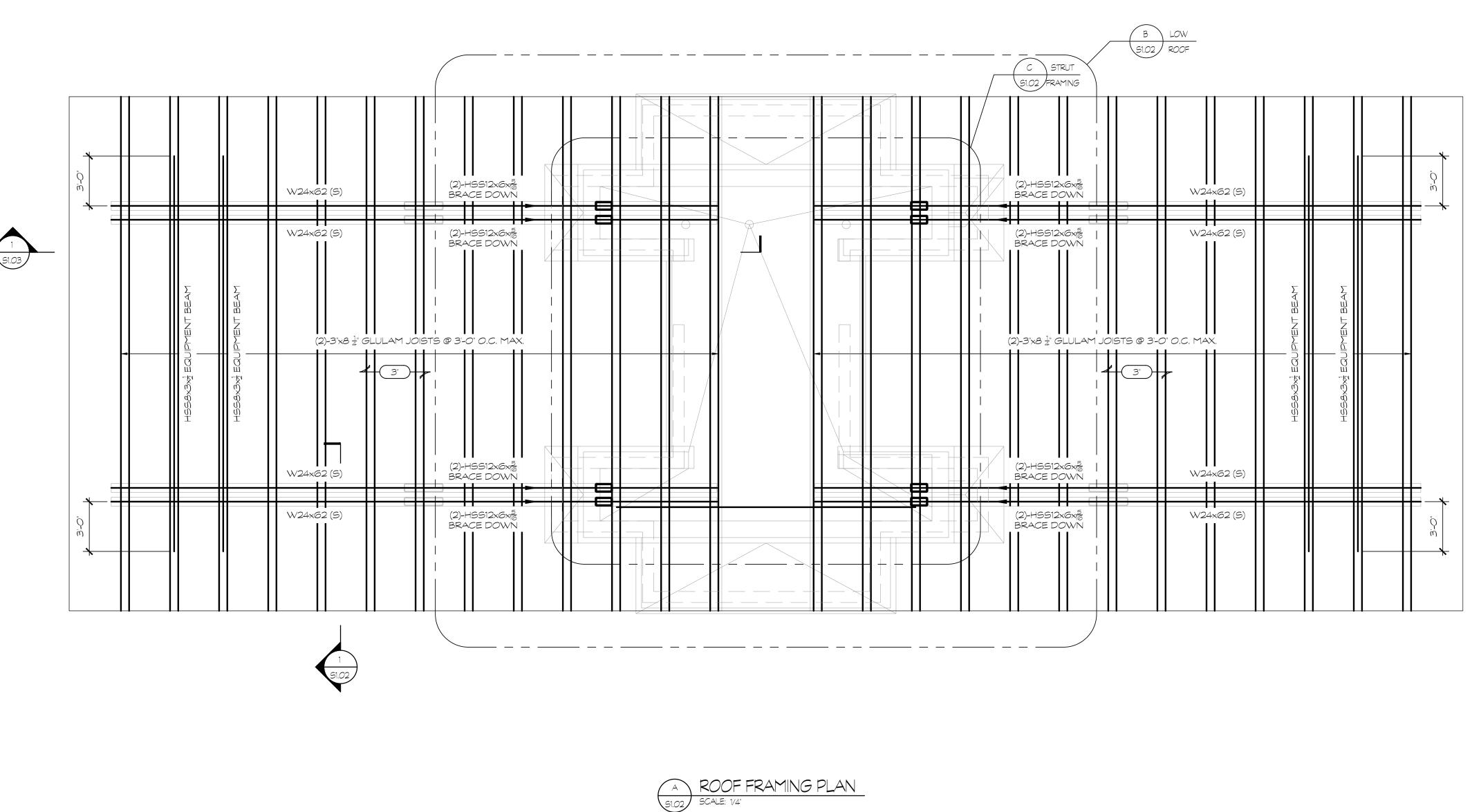
SHEET TITLE

AMPHITHEATER
FOUNDATION PLAN,

SECTIONS, & DETAILS

SHEET TITLE

SHEET TITLE
S1.01



T/STL. = 12'-0" $HSS12x6x_4^1$ STRUT

+99.00

 $HSS12x6x_{4}^{1}$ STRUT T/STL. = 12'-0"

---- ROOF DECKING

- SEE PLAN

ROOF SHEATHING - SEE PLAN

L ROOF JOISTS - SEE PLAN

STEEL BEAM

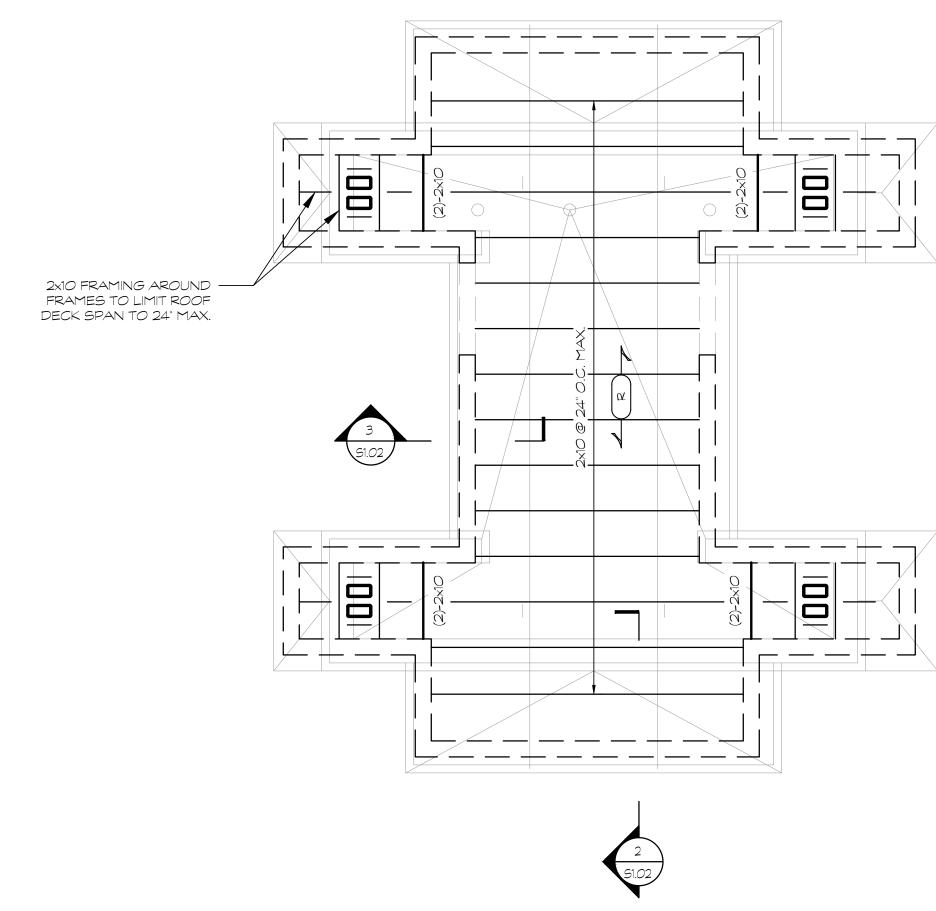
- SEE PLAN

1 STEEL SADDLE W/ (2)-3/4" Ø THRU BOLT - TYP. EA. JOIST

3x FILLER BETWEEN ——/
JOISTS @ CONNECTOR
- TYP.

CANTILEVER

SEE ARCH. (6'-7" MAX.)



TYPICAL ROOF FRAMING NOTES:

1. 2^{-3} INDICATES SPAN OF 3x6 T&G WOOD DECKING W/ $\frac{3}{4}$ " PLYWOOD SHEATHING. ATTACH TO WOOD FRAMING MEMBERS W/ (2)-#10 x 4 1/2" EXTERIOR WOOD SCREWS AT ALL SUPPORTS, TYP. EA. DECK BOARD.

INDICATES TOP OF STEEL ELEVATION ABOVE FFE. T/STL EL AS SHOWN IS A NOMINAL ELEVATION. CONTRACTOR SHALL DETERMINE PRECISE T/STL ELEVATION BY COORDINATING WITH ARCHITECTURAL HEAD ELEVATIONS.

3. (S) INDICATES SLOPED STEEL.

JBE = 12'-0", U.N.O.

—— MASONRY WALL

- SEE PLAN

ROOF SHEATHING

- SEE PLAN

SIMPSON JOIST HANGER
- TYP. EA. JOIST

___ ROOF JOIST

- SEE PLAN

EMBED 6" MIN. INTO HILTI HIT HY270 ADHESIVE

 $\overline{}$ 2x10 LEDGER W/ (2)- $\frac{3}{4}$ 0 HILTI HUS ANCHORS SPACED @ 24" O.C. (STAGGERED).

VERT. REINF. —

VENEER ---

- SEE PLAN

- SEE ARCH.

MASONRY BOND BEAM - W/ (2)-#5 CONT.

4. ALL EXPOSED STEEL CONNECTIONS, DETAILS, AND FABRICATION SHALL MEET THE REQUIREMENTS OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) LEVEL 2 WITH AESS LEVEL 3 FOR WELD SEAM ORIENTATION AND/OR VISIBILITY.

5. INDICATES LOAD BEARING WALL BELOW.

6. JBE INDICATES JOIST BEARING ELEVATION RELATIVE TO FINISHED FLOOR O'-O".

7. R INDICATES SPAN OF 5/8" APA-CDX RATED PLYWOOD SHEATHING, 32/16 (EXPOSURE 1). SEE GENERAL NOTES FOR FASTENING REQUIREMENTS.

8. PROVIDE HEADERS OVER ALL OPENINGS. SEE HEADER SCHEDULE ON S3.2 FOR REQUIREMENTS.

9. EQUIPMENT BEAMS & FRAMES HAVE BEEN DESIGNED FOR A MAXIMUM EQUIPMENT LOAD OF 4,000LBS, EACH. G.C. TO COORDINATE & CONFIRM W/ EQUIPMENT MANUFACTURER.

ROOF LOADS:

RIGID INSULATION:

ROOF DECKING: FRAMING: MECHANICAL: SPRINKLERS: MISCELLANEOUS:

TOTAL:

LIVE LOADS ROOF:

UPLIFT (NET):

1.5 PSF 1.5 PSF 2 PSF 2 PSF 3 PSF 2 PSF 3 PSF 15 PSF

20 PSF

15 PSF

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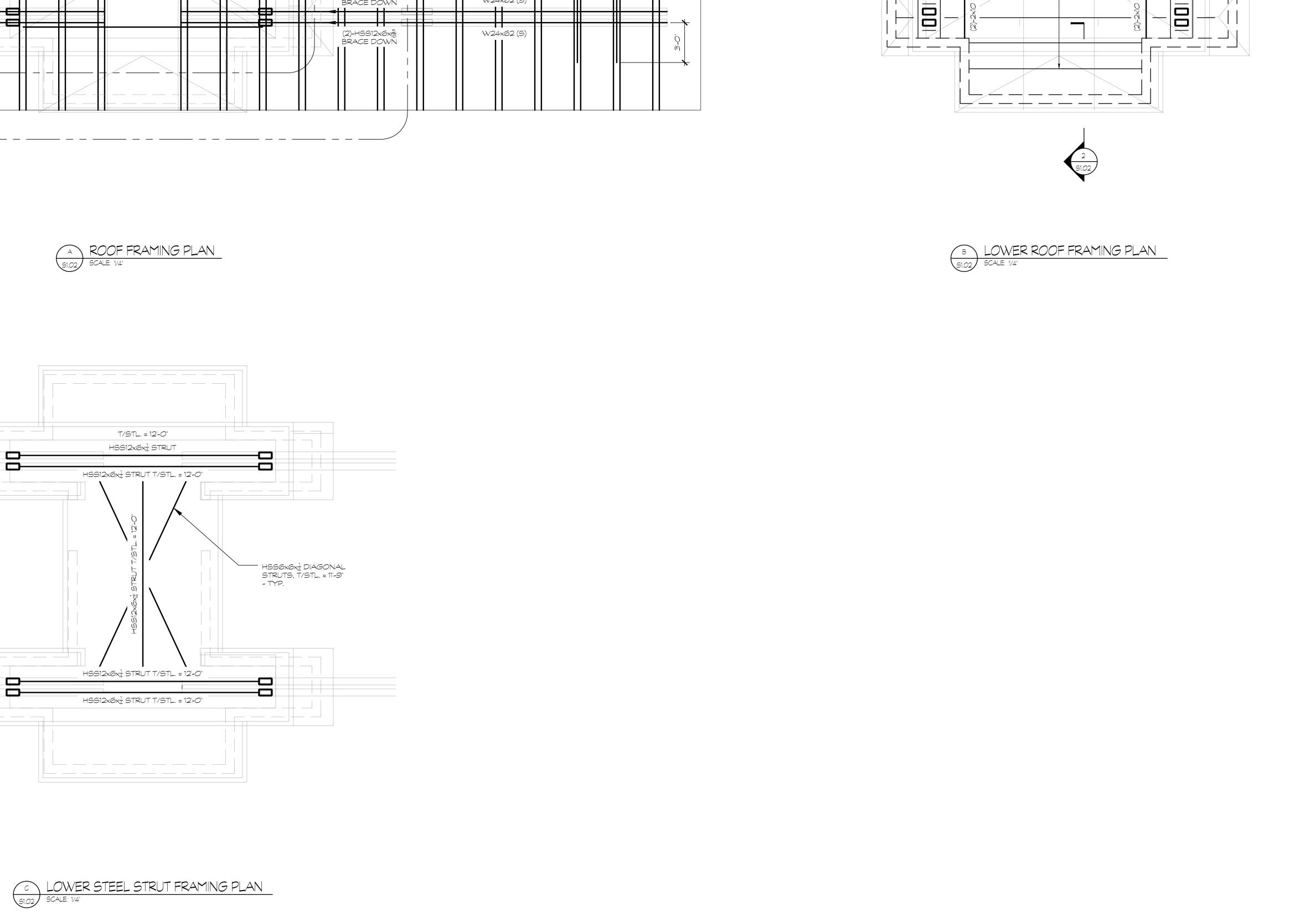
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AMPHITHEATER ROOF FRAMING PLAN, SECTIONS, & DETAILS

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—— MASONRY WALL

- SEE PLAN

ROOF SHEATHING

- SEE PLAN

ROOF JOIST

- SEE PLAN

 $\overline{}$ 2x10 LEDGER W/ (2)- $\frac{3}{4}$ "Ø HILTI HUS ANCHORS SPACED @ 24" O.C. (STAGGERED).

EMBED 6" MIN. INTO HILTI

HIT HY270 ADHESIVE

VERT. REINF.

VENEER -

- SEE PLAN

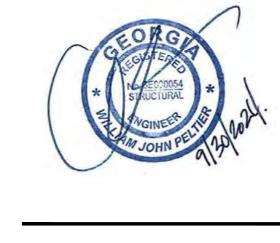
- SEE ARCH.

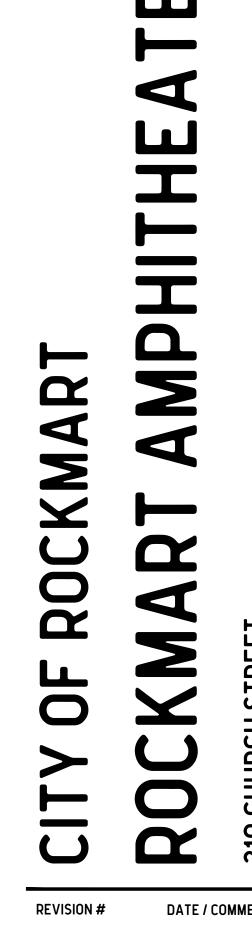
MASONRY BOND BEAM - W/ (2)-#5 CONT.

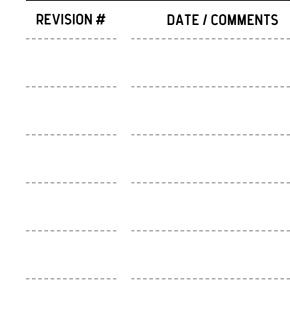










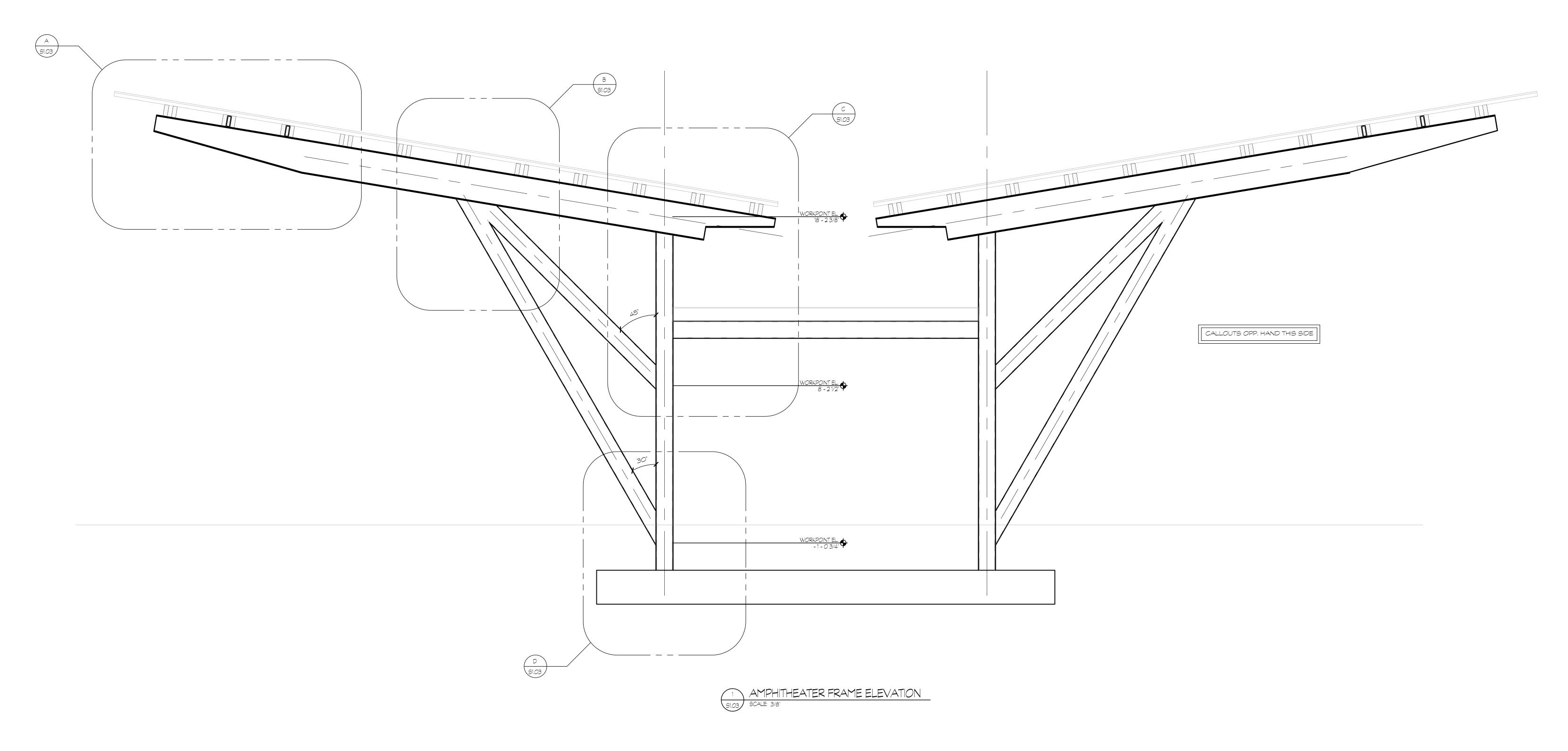


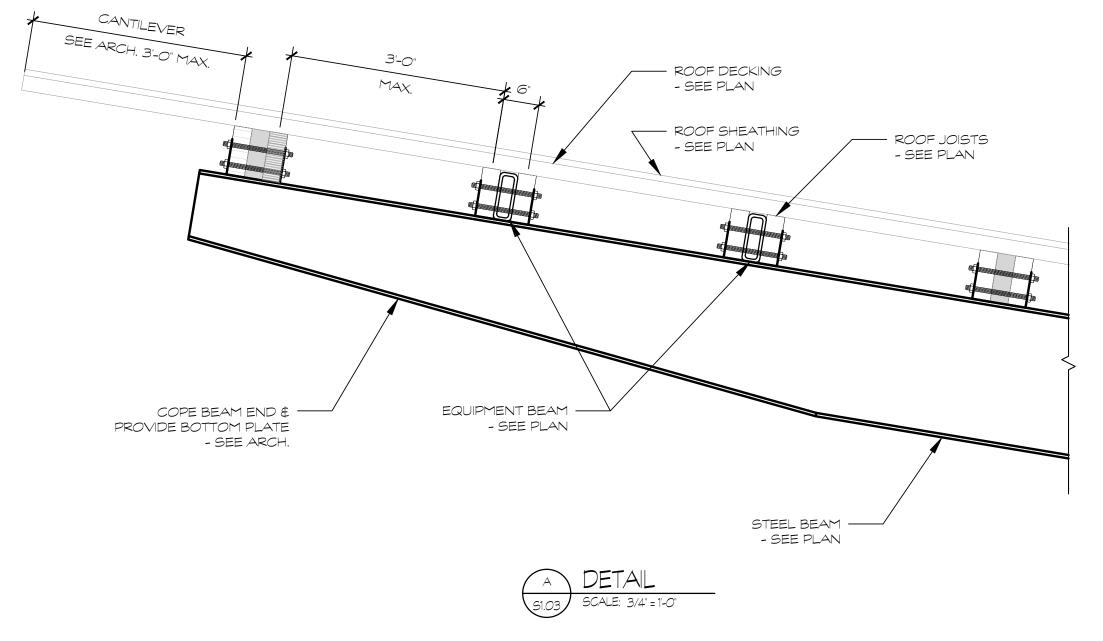
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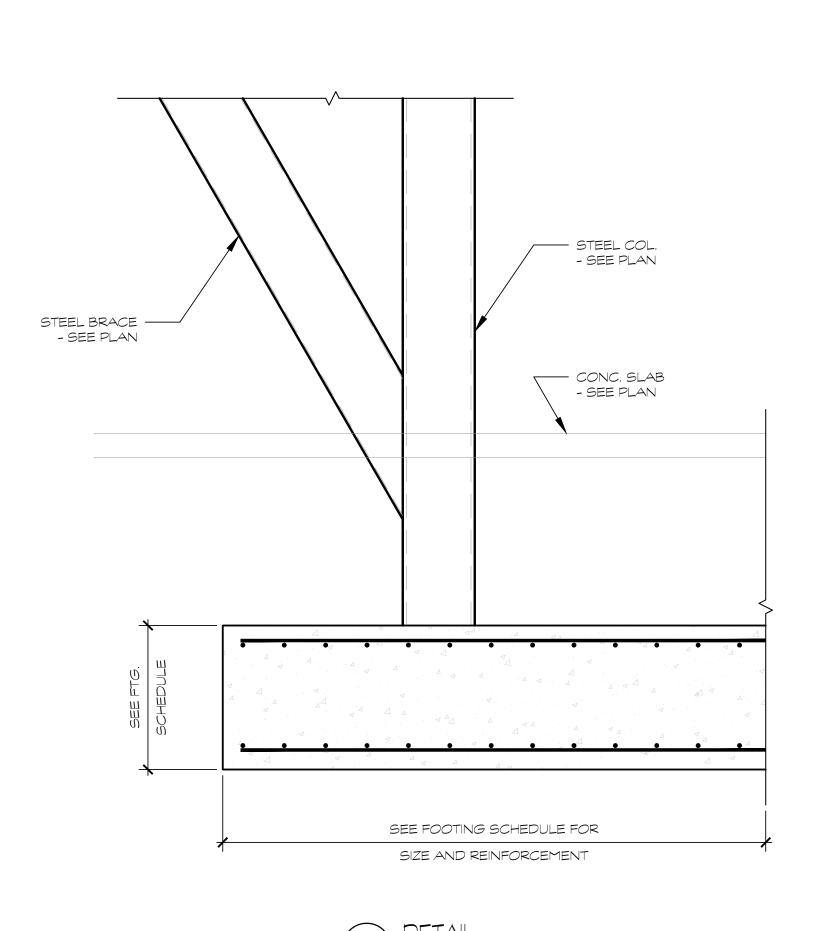
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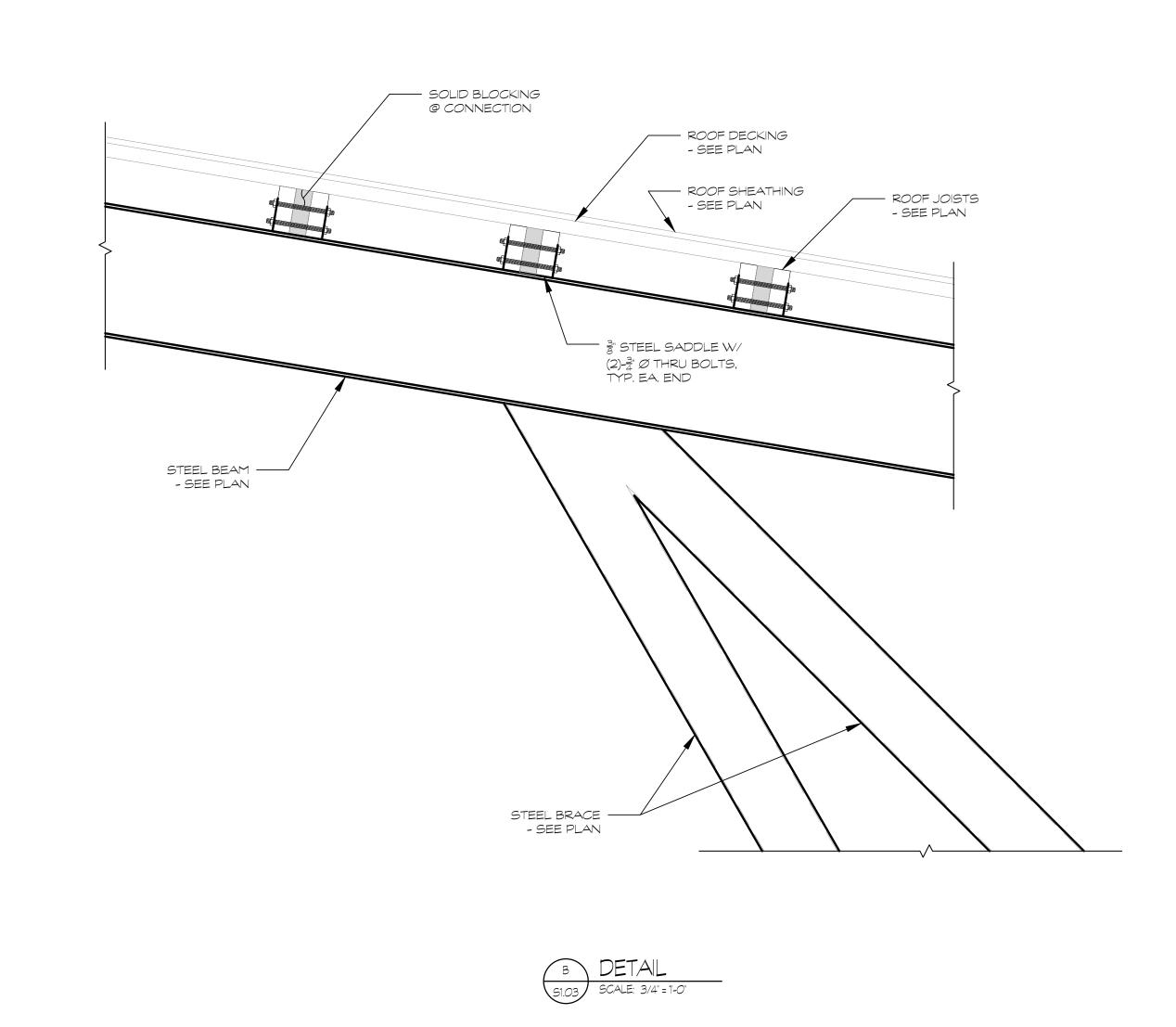
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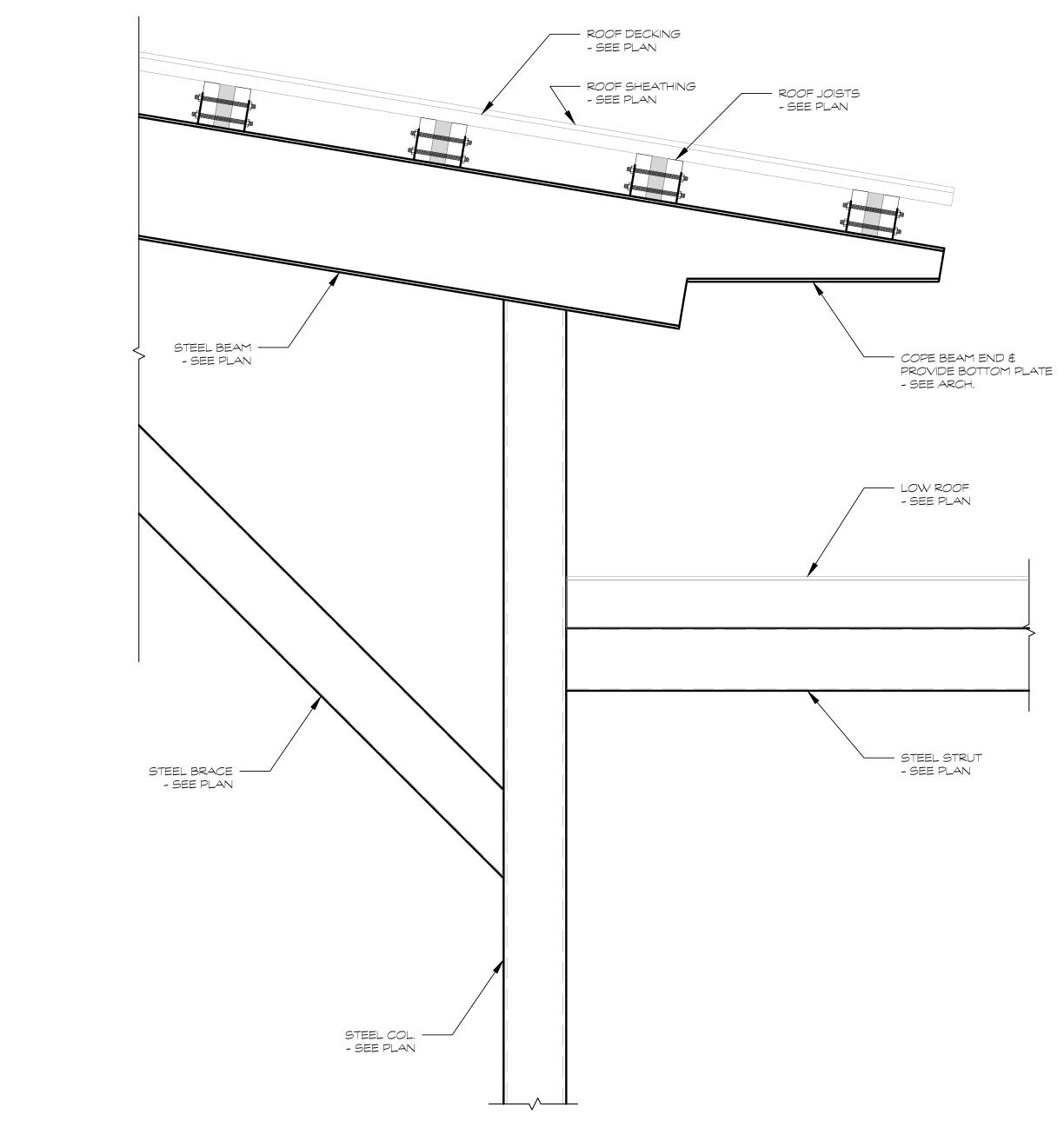
SECTIONS & DETAILS

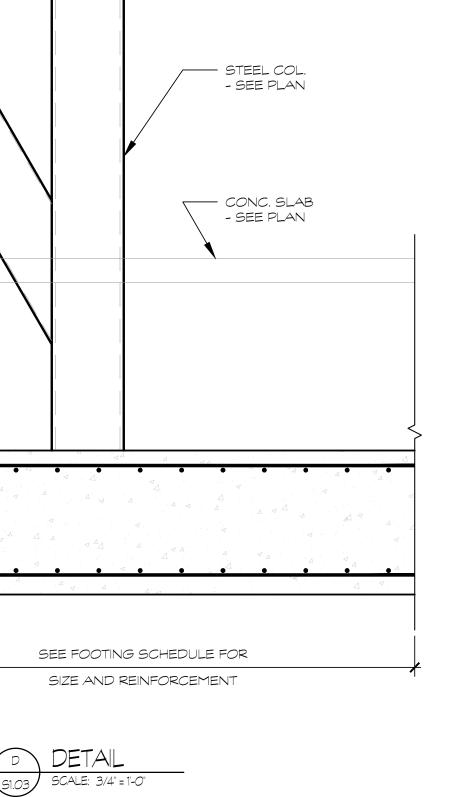


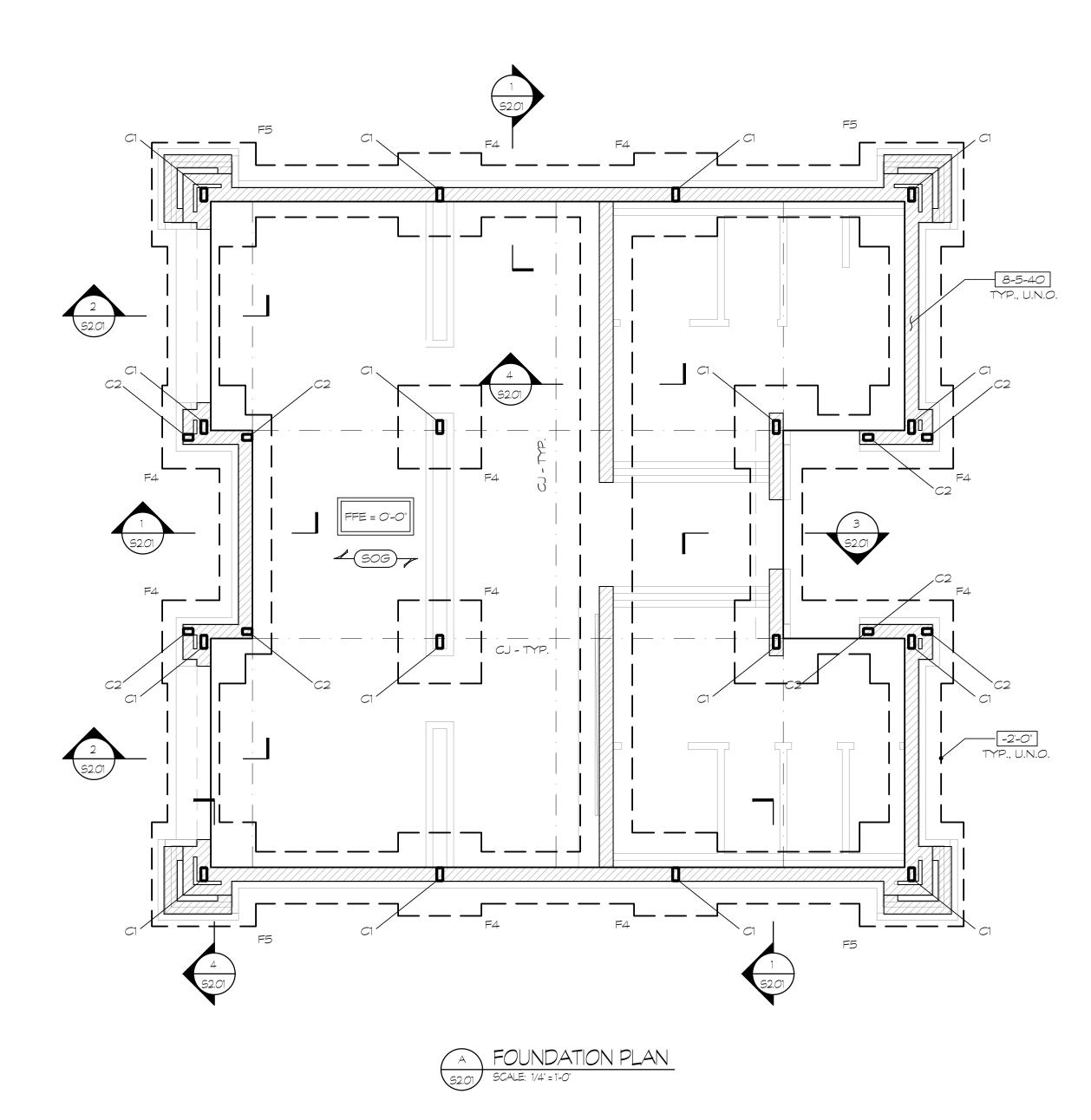












VERT. REINF. - SEE PLAN

- MASONRY WALL - SEE PLAN

- SEE ARCH.

CONC. SLAB - SEE PLAN

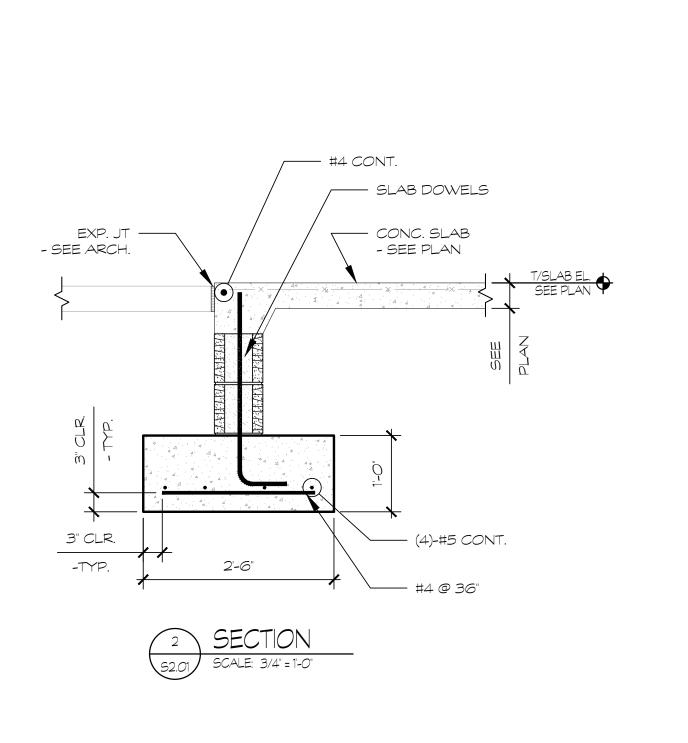
(3)-#5 CONT.

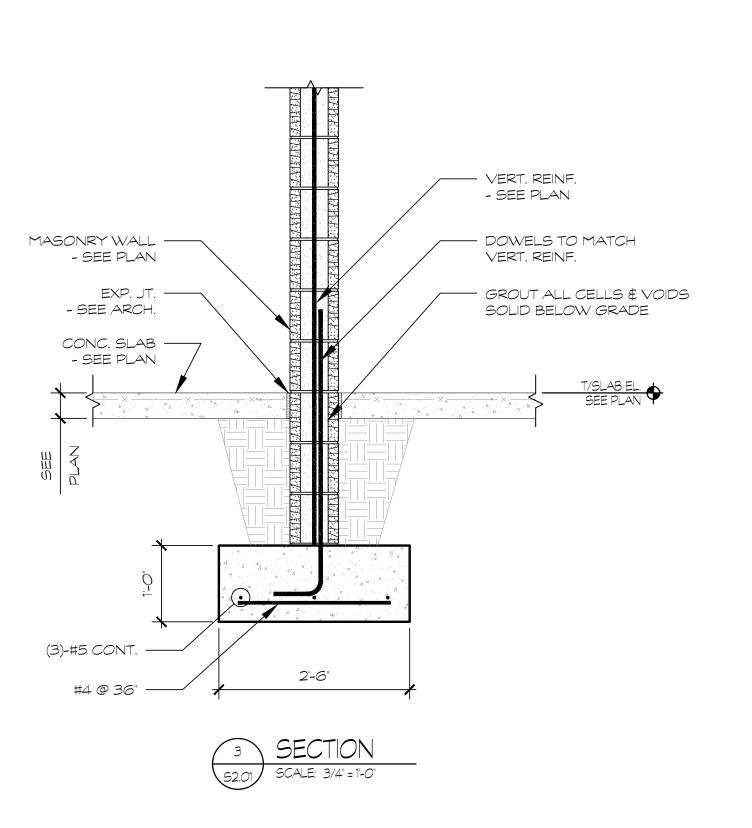
3" CLR.

1 SECTION 52.01 SCALE: 3/4" = 1-0"

DOWELS TO MATCH —— VERT. REINF.

GROUT ALL CELLS & VOIDS —— SOLID BELOW GRADE



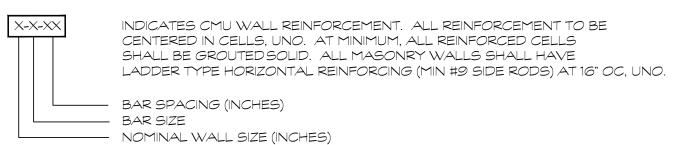


FOUNDATION NOTES:

SLAB ON GRADE SHALL BE 4" CONC SLAB (3000 PSI) ON 2" CLEAN SAND ON VAPOR RETARDER ON 4" FLOOR SLAB BASE MATERIAL W/(1) LAYER OF 6x6-W1.4x1.4 WWF 1" FROM TOP OF SLAB, UNO ON PLAN. ALL SLOPES TO DRAINS SHALL BE ACCOMMODATED BY SLOPING BOTTOM AND TOP OF SLAB AT THE SAME RATE. FFE = SEE PLAN.

> INDICATES CONTROL JOINTS IN SLAB. SEE GENERAL NOTES FOR MORE INFORMATION REGARDING THE LAYOUT OF JOINTS. PROPOSED JOINT LAYOUT SHALL BE SUBMITTED AS A SHOP DRAWING FOR ARCHITECTS APPROVAL PRIOR TO SLAB PLACEMENT.

INDICATES TOP OF FOOTING RELATIVE TO FFE = 0'-0"



- 5. GC TO COORD FLOOR DRAIN LOCATIONS WITH PLUMBING AND ARCH DRAWINGS.
- 6. GC TO COORD UNDERGROUND UTILITY PIPES WITH STRIP FOOTINGS SEE 8 \$ 9/S4.01.
- 7. DIMENSIONS SHOWN ARE TO EDGE OF SLAB, U.N.O.
- 8. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.

COLUMN SCHEDULE								
MARK	SIZE	BASE PL	ANCHORS	REMARKS				
<i>C</i> 1	HSS 8x4x3/8	3/4"x1'-2"x10"	(4)-3/4" Ø	SEE BP2 - UNO				
C2	HSS 6x4x5/16	3/4"x1'-0"x10"	(4)-3/4" Ø	SEE BP2 - UNO				

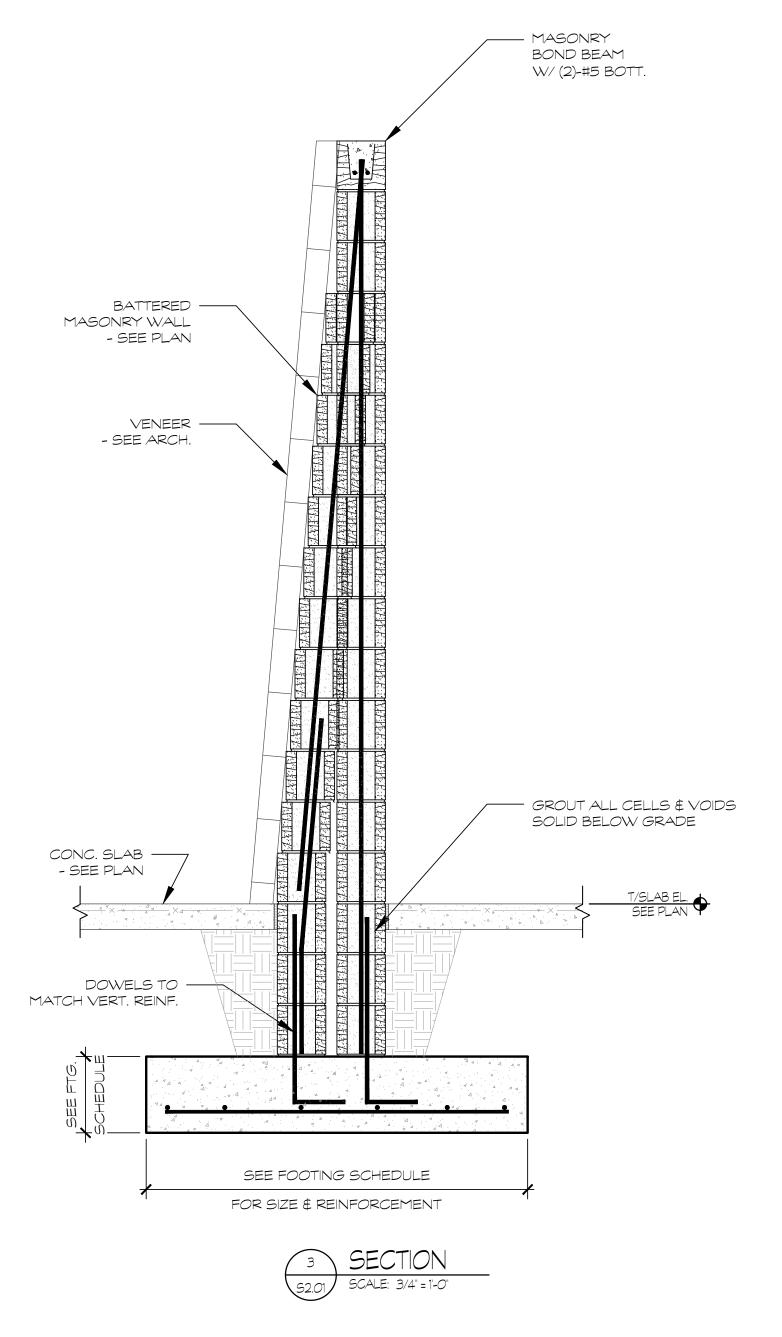
FOOTING SCHEDULE							
MARK	SIZE	REINFORCING					
F4	4'-0" × 4'-0" × 1'-6"	#5 @ 10" O.C. E.W. BOTT.					
F5	5'-0" × 5'-0" × 1'-6"	#5 @ 10" O.C. E.W. BOTT.					

NOTES:

1. FOOTINGS SHALL BE CENTERED ON STEEL COLUMNS OR CENTERED ON COLUMN GROUPS UNO ON PLAN.

2. WHERE FOOTINGS INTERSECT, COMBINE FOOTINGS AND EXTEND REINFORCEMENT THROUGH BOTH FOOTINGS.

NOTES TO CONTRACTOR: THE CONTRACTOR SHALL REFER TO THE PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS AND NOTE THE LOCATION OF ALL UNDERGROUND OR UNDER FLOOR PIPING & CONDUITS. THE CONTRACTOR SHALL INCORPORATE ALL FOOTING STEPS NECESSARY PER THE REQUIREMENTS OF ALL UNDERGROUND OR UNDER FLOOR PLUMBING, MECHANICAL, AND ELECTRICAL PIPIING. THE CONTRACTOR SHALL REFER TO THE TYPICAL FOUNDATION DETAILS WHEN PERFORMING THIS WORK. LOCATION OF ALL STEPPED FOOTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STEP FOOTING LOCATIONS SHALL BE SHOWN ON THE FOUNDATION SHOP DRAWINGS AND REVIEWED BY THE SEOR PRIOR TO INSTALLATION.



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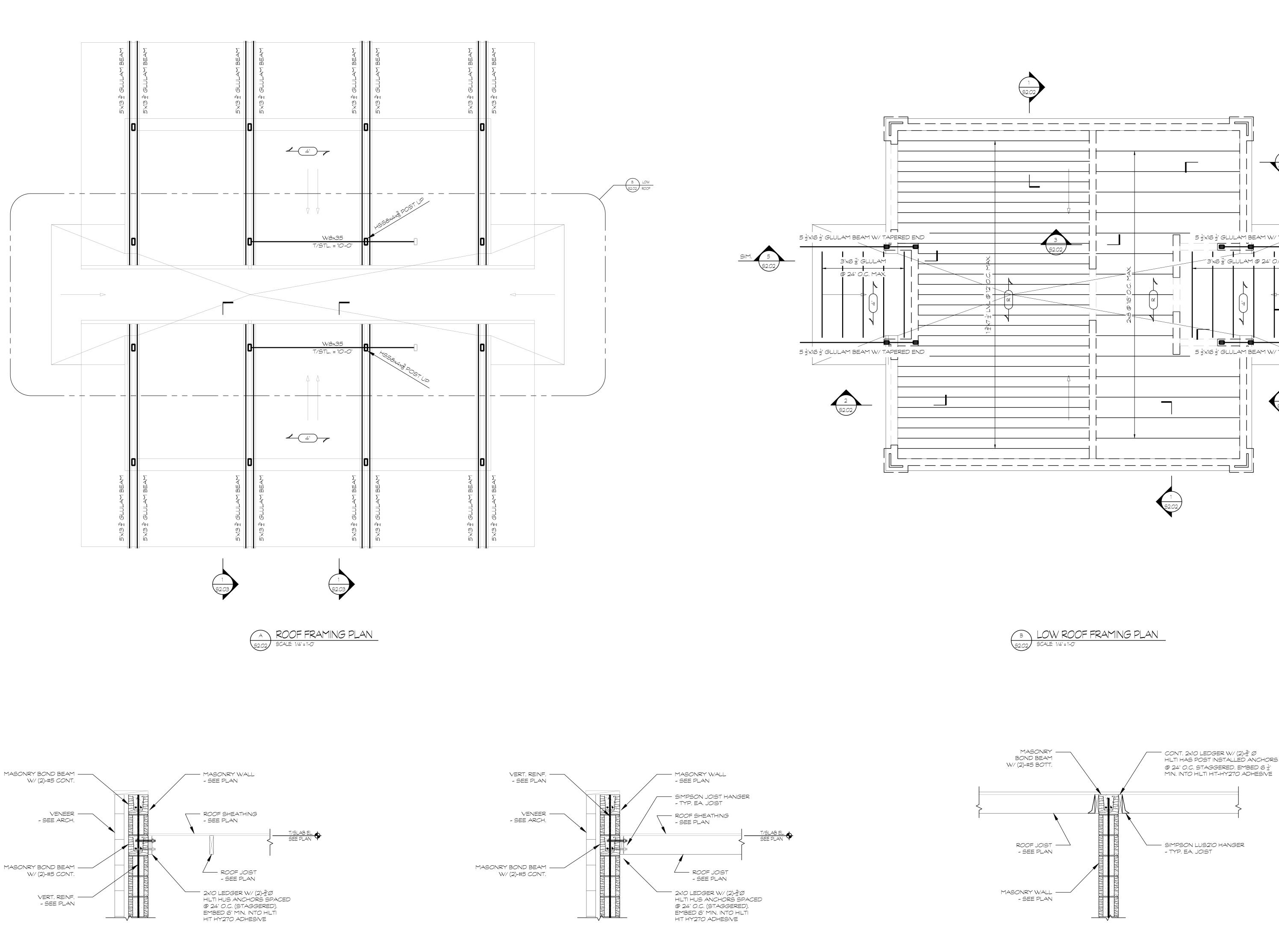
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SECTIONS, & DETAILS

CONCESSIONS AND

RESTROOM PAVILION

FOUNDATION PLAN,



2 SECTION 52.02 SCALE: 3/4" = 1-0"

GLULAM BEAM ——/ - SEE PLAN

TYP. 3/16

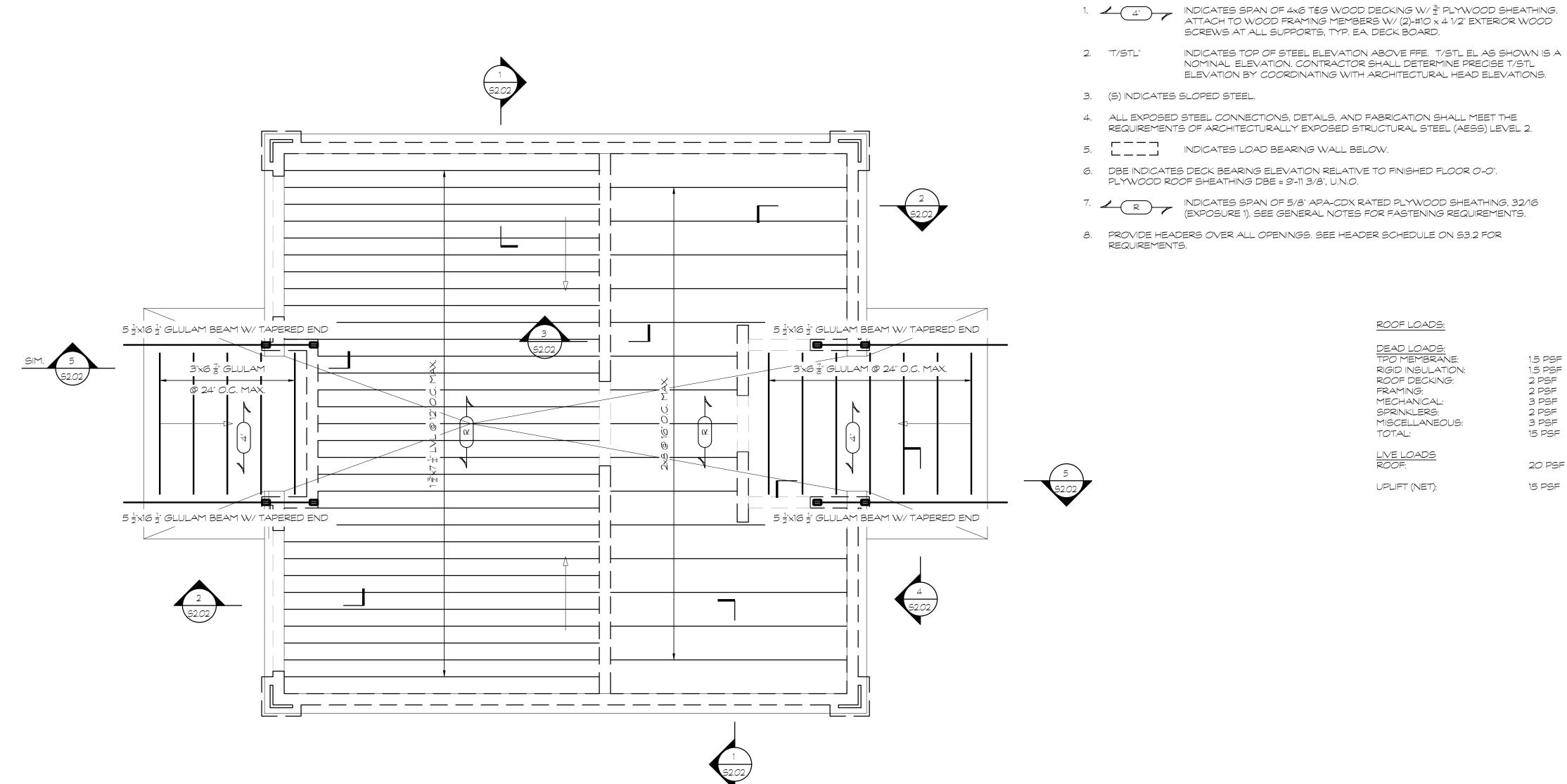
STEEL POST -- SEE PLAN

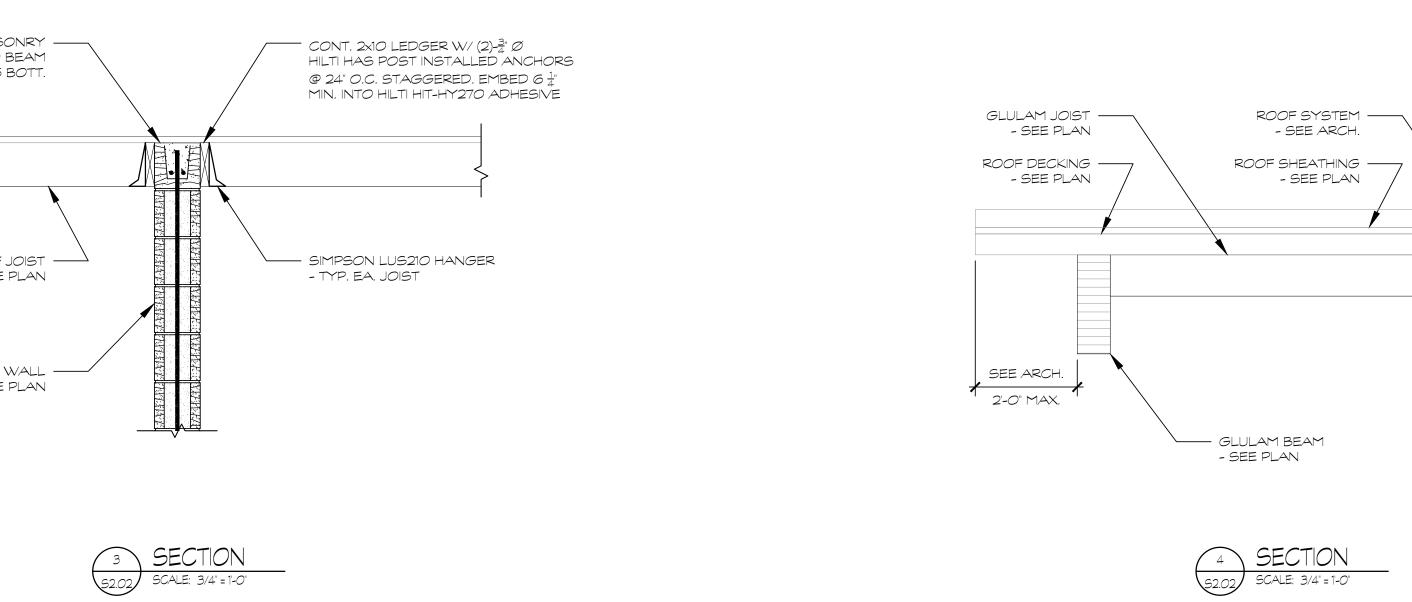
5 SECTION S2.02 SCALE: 3/4" = 1-0"

ROOF SYSTEM —— - SEE ARCH.

TAPERED END ——— - SEE ARCH.

ROOF SHEATHING ----- SEE PLAN





TYPICAL ROOF FRAMING NOTES:

INDICATES TOP OF STEEL ELEVATION ABOVE FFE. T/STL EL AS SHOWN IS A NOMINAL ELEVATION. CONTRACTOR SHALL DETERMINE PRECISE T/STL ELEVATION BY COORDINATING WITH ARCHITECTURAL HEAD ELEVATIONS.

ROOF LOADS:

TOTAL:

UPLIFT (NET):

RIGID INSULATION: ROOF DECKING: FRAMING: MECHANICAL: SPRINKLERS: MISCELLANEOUS: 1.5 PSF 1.5 PSF 2 PSF 2 PSF 3 PSF 3 PSF 15 PSF

20 PSF



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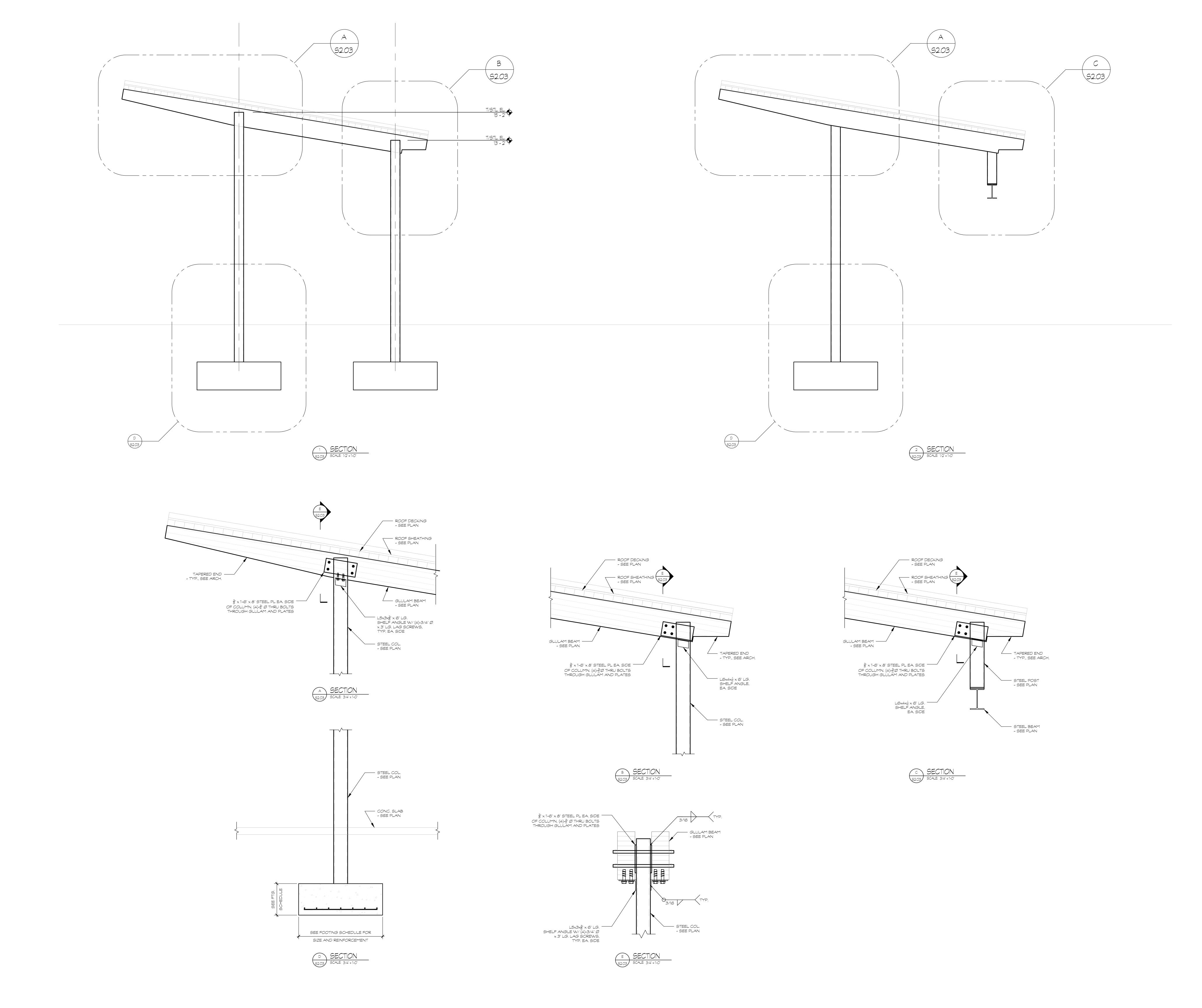
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CONCESSIONS AND RESTROOM PAVILION **ROOF FRAMING PLAN,** SECTIONS, É DETAILS







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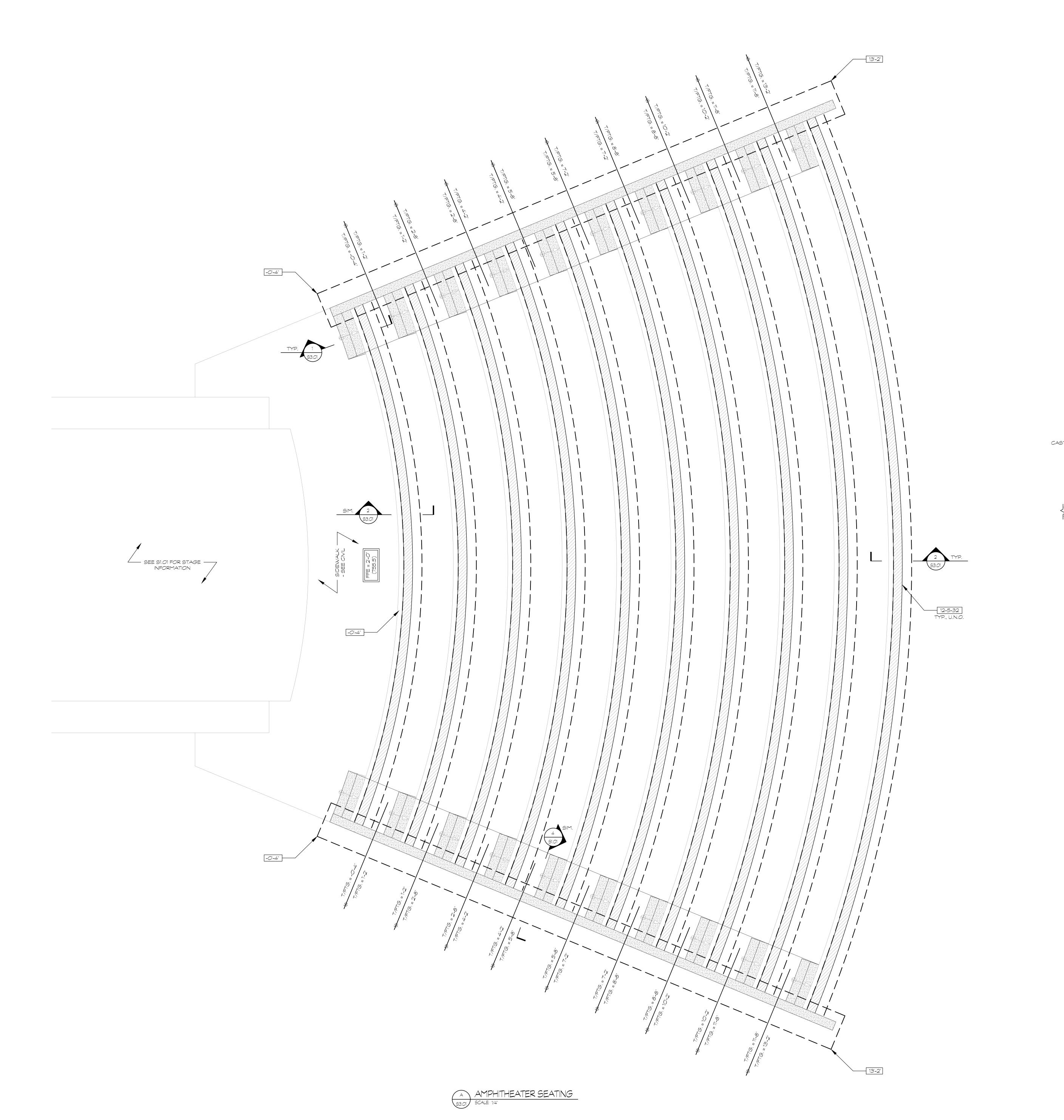
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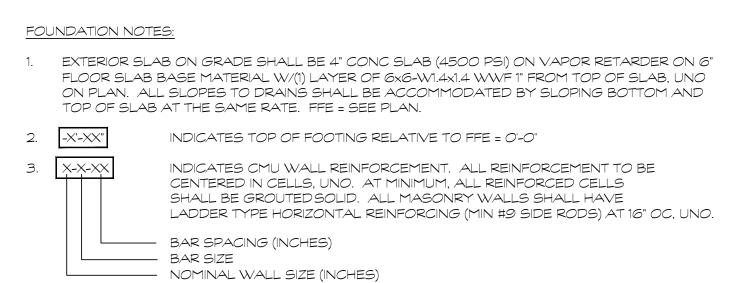
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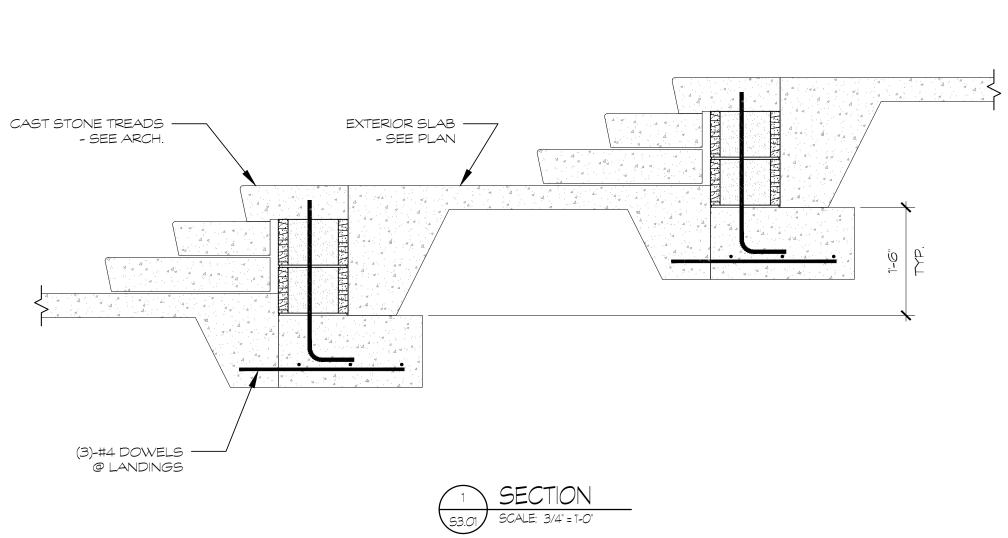


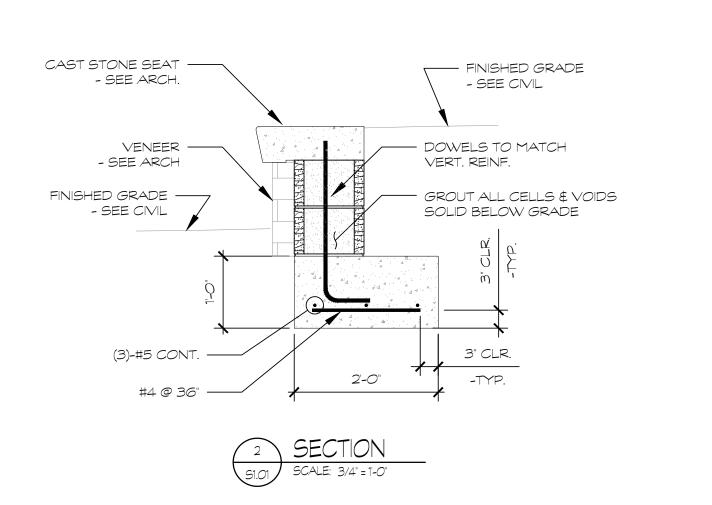
NOMINAL WALL SIZE (INCHES)

INDICATES STEP IN FOOTING. SEE TYPICAL STEPPED FOOTING DETAIL ON 5/54.01 CONTRACTOR SHALL INCLUDE ADDITIONAL FOOTING STEPS AS REQ'D FOR ALL UNDERGROUND REQUIREMENTS FOR ALL OTHER TRADES.

5. GC TO COORD UNDERGROUND UTILITY PIPES WITH STRIP FOOTINGS - SEE 6 & 7/54.01.

6. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.







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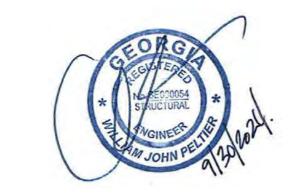
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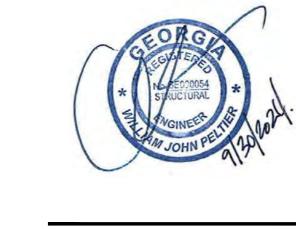
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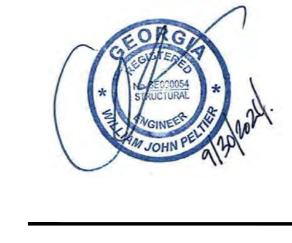
TYPICAL SECTIONS & DETAILS

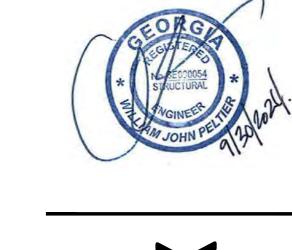
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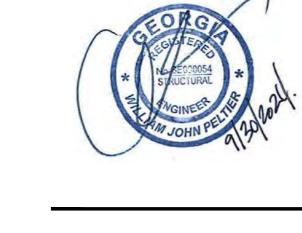


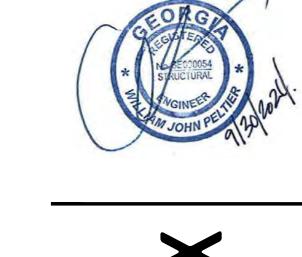










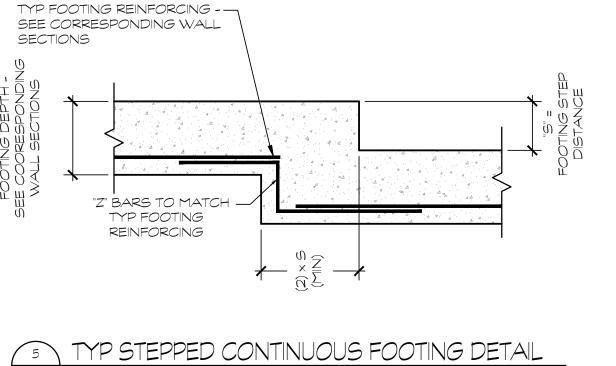


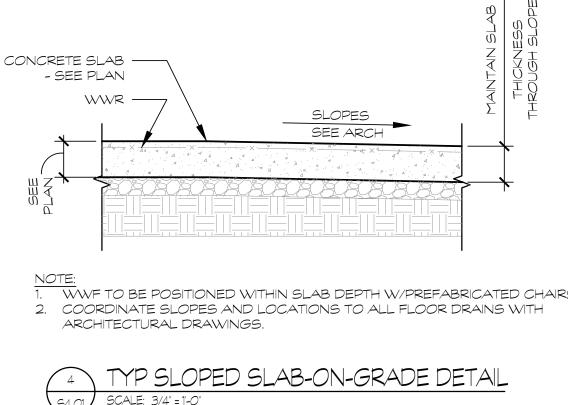


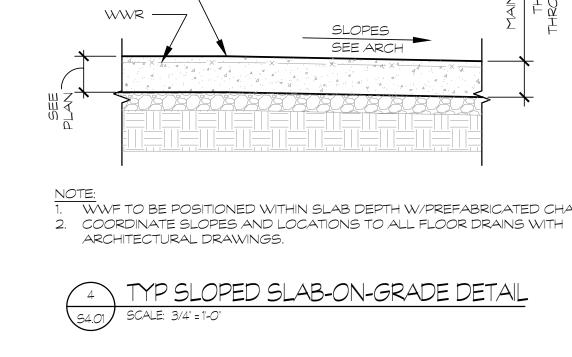
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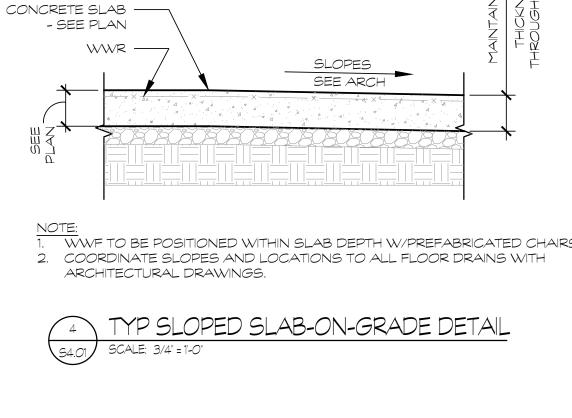
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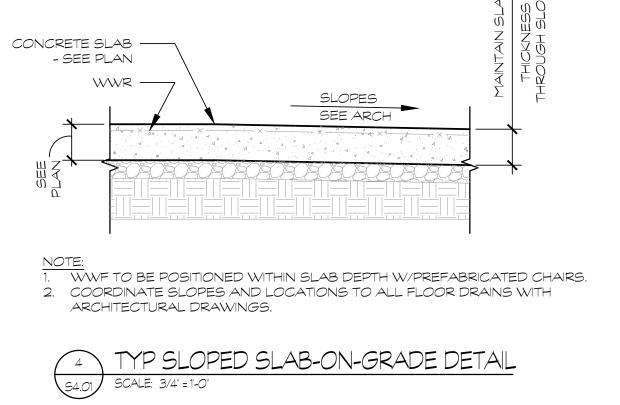
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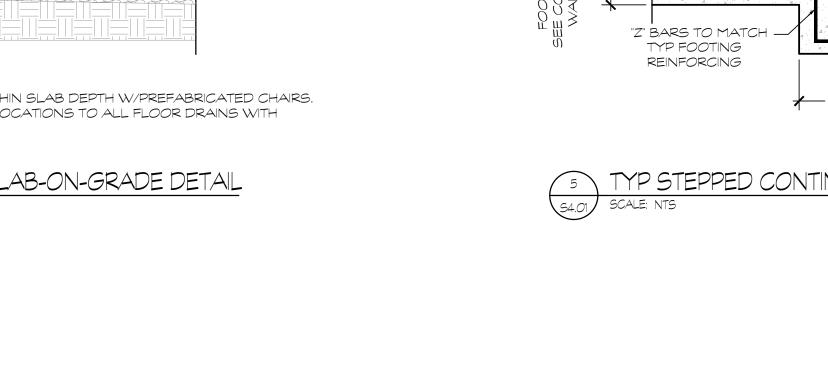


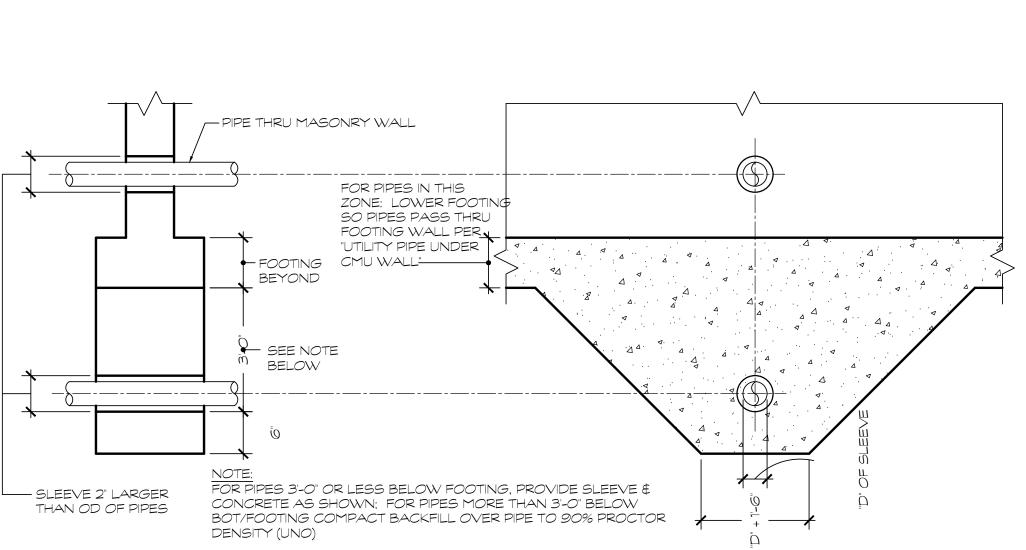




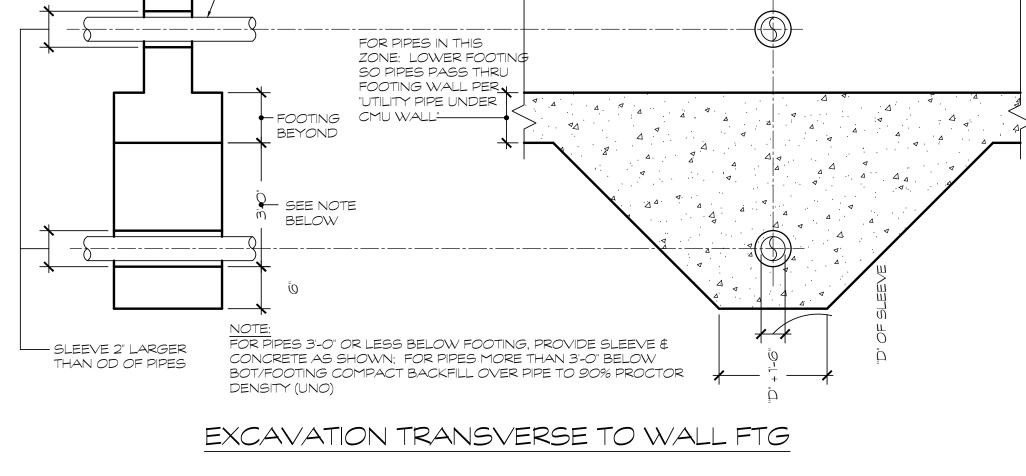




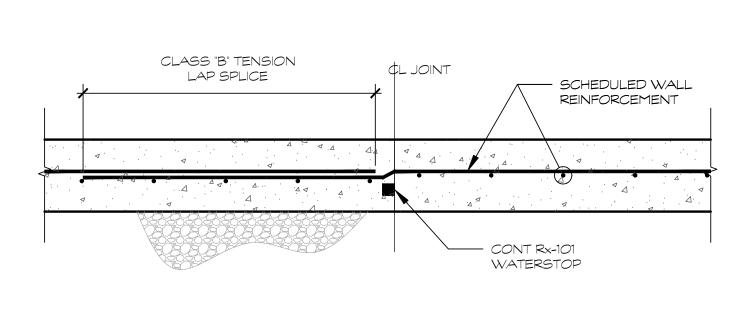


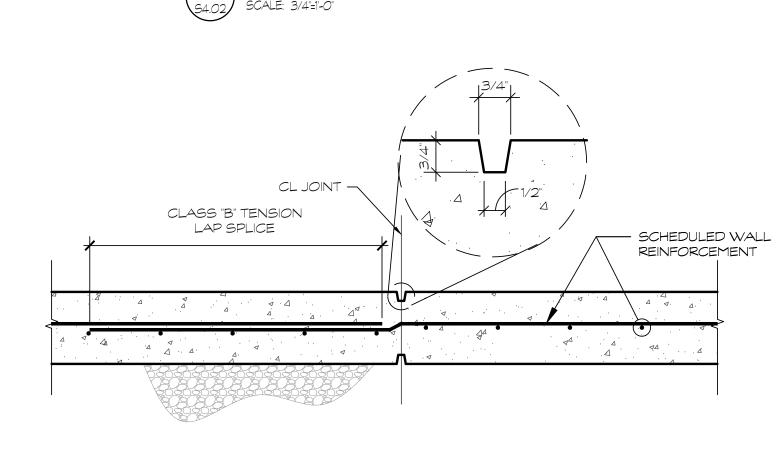






9	TYP FOUNDATION DETAIL @ UTILITY PIPES
54.01	SCALE: NTS





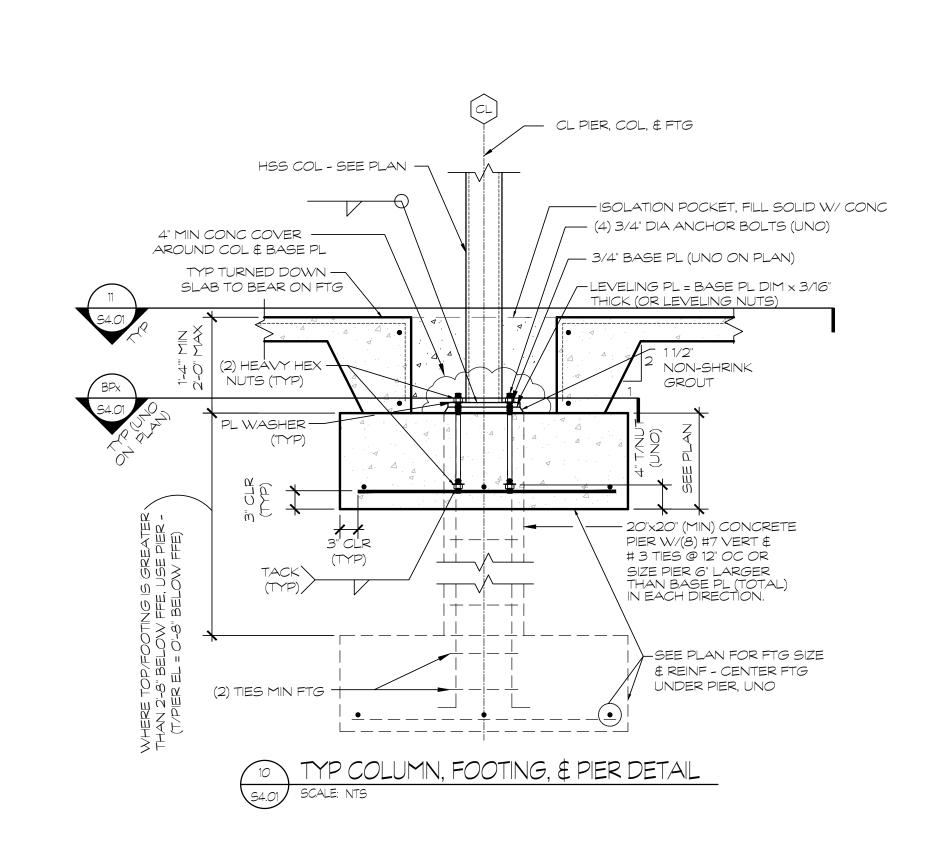
NOTE:	LOCATION OF WALL JOINTS IS AT CONTRACTOR'S DISCRETION W/ ARCHITECTURAL APPROVAL. MAXIMUM SPACING OF CONTROL JOINTS SHALL NOT EXCEED 40'-0" OC.
	NALL CONTROL JOINT DETAIL

	I				Lap Leng	gths Per Spac	ing and Cover	Case (3)	
					Top Bars (4)	-		Other Bars	
	fc	Bar	Lap		Category (2)			Category (2)	
	(psi)	Size	Class	1	2	3	1	2	3
	3000	#3 - #6	A	86db	58db	36db	66db	44db	 28db
	3000	#5 - #0	, ,						
CONT Rx-101			В	112db	74db	46db	86db	58db	36db
WATERSTOP		#7- #11	A	107db	72db	43db	83db	55db	33db
			В	139db	93db	56db	107db	72db	43db
	4000	#3 - #6	Α	74db	50db	30db	58db	38db	24db
			В	98db	66db	40db	74db	50db	31db
		#7- #11	A	93db	62db	37db	72db	48db	29db
		117 1111	R.	121db	81db	49db	93db	62db	37db
WALL CONSTRUCTION JOINT DETAIL			D	12100	Oldb	 >ab	9000	0200	<i>37</i> db
(\$4.02) SCALE: 3/4"=1"-0"	NOTES:								
54.02) 50ALE. 5/4=1-0		•							
	1. LAP S	SPLICE LENG	THS ARE BAS	SED ON AC	318-11 SECTIO	DN 12,2.			
	2. CATE	GORY DEFINI	TIONS: (SEE	FIGURES BE	ELOW FOR A	DDITIONAL IN	IFORMATION	J)	
13/4",		CATEGORY	1 - CODE 12	.2.2 OTHER	CASES - DC	ES NOT ME	ET CATEGOR	RY 2 OR 3.	
						o			
					AR SPACING			JPED OR	
		SPLICED NO	TLESS THA	N 2db AND (CLEAR COVE	R NOT LESS	THAN db.		
$\sim \sim $									
CL JOINT — Light					AR COVER NO	OT LESS TH	AN 2db AND	THE	
$\Delta = \frac{1}{2}$		CLEAR SPAC	CING NOT LE	SS THAN 4	db.				
CLASS "B" TENSION									
LAP SPLICE	3. MINIM	1UM LAP SPL	ICE SHALL N	NOT BE LES	S THAN 12 INC	CHES.			
SCHEDULED WALL REINFORCEMENT									
					REINFORCE			MORE	
					CAST IN THE	MEMBER BE	ELOW THE		
	DEV	ELOPMENT L	ENGTH OR S	SPLICE.					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		CATE	GORY	2			_EAR SPA	CING AT	
		<u> </u>			DETE		AGGERED		
			FACE	OF CONC	JRE I E	<u> </u>			
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		<u>></u> 4db	<u>'</u>			45 654 61	16 1/		┪
		*1	1		CLE	AR SPACI	NG, X		
		CATE	GORY	3	CL-F	AR	CL	EAR SPAC	ING AT
		<u> </u>				AR CING, X		FSET COLU	
			— FACE	OF CONC	CRETE		<u>a</u> -d		
	8			-			• •	OFFSET	
NOTE: LOCATION OF WALL JOINTS IS AT CONTRACTOR'S	7 7				ı		•d	COLUMN	N BELOW
DISCRETION W/ ARCHITECTURAL APPROVAL. MAXIMUM SPACING OF CONTROL JOINTS	\ \ \ \				I			BARS IN	COLUMN
SHALL NOT EXCEED 40'-0" OC.		<u>≥</u> 4db	<u></u>			₾_	፬ 🛂 🖊	ABOVE	
DIMLENUI LACILU 40-0 00.		1	1-					, 20 1	

13	TYP REINF LAP SCHEDULE
54.01	SCALE: 3/4"=1'-0"

REINFORCING LAP LENGTH SCHEDULE

TENSION LAP SPLICE LENGTHS, (BAR DIAMETER, db) FOR GRADE 60, UNCOATED BARS; NORMAL-WEIGHT CONCRETE.



CONCRETE SLAB —— - SEE PLAN

10 MIL VAPOR ——

BARRIER

S4.01) SCALE: 3/4" = 1'-0"

SLAB-ON-GRADE -

NOTE:

1. WWF TO BE POSITIONED WITHIN SLAB DEPTH W/PREFABRICATED CHAIRS.

2. COORDINATE SLOPES AND LOCATIONS TO ALL FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS.

WWF - SEE PLAN FOR MORE INFO

ADD'L #4 x 3'-0" DIAGONAL BAR @ SLAB MID-DEPTH (TYP) - CENTER

BAR ON CORNER

- EDGE OF SLAB

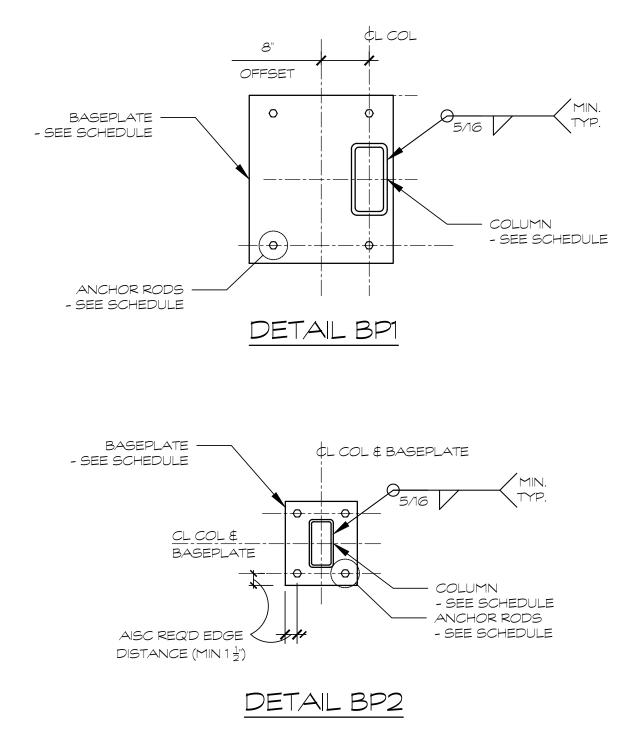
CONDITION @ RE-ENTRANT CORNER

+-+-+

6 TYP SLAB REINF @ RE-ENTRANT CORNER 54.01 SCALE: 3/4" = 1-0"

TYP. SLAB-ON-GRADE DETAILS

WWR ---



— PREFAB METAL FORM

TYP CONSTRUCTION JOINTS

TYP SAWED CONTROL JOINT

NOTE: USE CONSTRUCTION JOINT IN LIEU OF CONTROL JOINT WHENEVER A POUR STOP IS REQUIRED OR WHERE INDICATED ON THE PLAN.

2 TYP SLAB JOINT DETAILS

SLOPE DN

SLOPE TOP &

BOT OF SLAB @ SAME RATE

TO DRAIN

S4.01 SCALE: 3/4" = 1-0"

SLOPE DN TO DRAIN

FLOOR DRAIN - ---

SEE ARCH \$MECH FOR SIZE & LOCATIONS

7 FLOOR SLAB DRAIN DETAIL

SLAB SHALL BE SAWN AS SOON ---AS THE CONCRETE WILL SAFELY SUPPORT MEN AND EQUIPMENT.

(22 GA GALV) - INSTALL PER MFR INSTRUCTIONS

NATURAL SLOPE -

NATURAL SLOPE -

S4.01 SCALE: 3/4" = 1'-0"

D < 3"

LAP MESH 2 SQUARES

3" <u><</u>D

NOTE:

1. WWF TO BE POSITIONED WITHIN SLAB DEPTH
W/PREFABRICATED CHAIRS.

2. COORDINATE DEPTHS AND LOCATIONS OF ALL FLOOR
DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.

4. SLAB DEPRESSIONS ARE TYPICALLY SHOWN ON PLAN 7

— PIPE, CONDUIT, ETC.

LOWER FOOTING AS REQUIRED TO PROVIDE MAX 1 1/2:1 SLOPE FROM BOTTOM EDGE OF FOOTING TO BOTTOM OF TRENCH EXCAVATION OR LOWER FOOTING SO THAT TOP OF FOOTING IS BELOW PIPE, CONDUIT, ETC.

8 TYP FOUNDATION INFLUENCE DETAIL

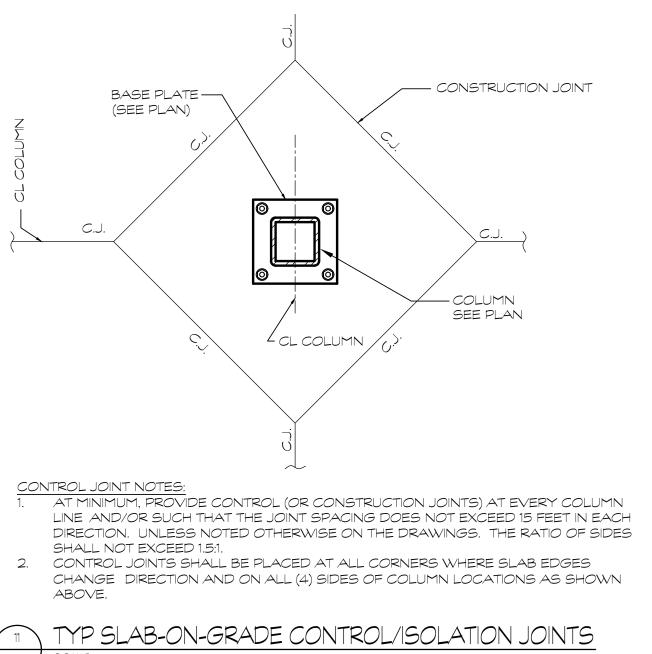
BOT/EXCAVATION FOR TRENCH
OR BOTTOM OF ADJACENT FOOTING

-FOOTING

3. PROVIDE (1) #4 × 4'-0" TOP AT INTERIOR CORNERS OF ALL

TYP DEPRESSED SLAB-ON-GRADE DETAIL

#4 CONT @ EDG



CONSTRUCTION DRAWINGS

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DETAILS

GENERAL PLUMBING NOTES

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ACCEPTED VERSION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH ADOPTED STATE AMENDMENTS AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- 2. PLUMBING FIXTURES SHALL BE "HIGH EFFICIENCY" WITH WATER SENSE COMPLIANT FLOW OR FLUSH RATES AS REQUIRED BY GEORGIA AMENDMENTS TO THE IPC.
- 3. EXPOSED FIXTURES: CHROME PLATED BRASS AND COPPER TUBING WITH THREADED PLATED 4. JOIN PIPES OF DISSIMILAR METALS WITH DIELECTRIC UNIONS OR SIMILAR ISOLATING DEVICES,
- DO NOT DIRECTLY CONNECT TO PIPES OF DISSIMILAR METALS. 5. ROUTE PIPING PARALLEL TO BUILDING STRUCTURE AND MAINTAIN GRADIENT. 6. INSTALL PIPING TO MAINTAIN HEADROOM. GROUP PIPING TO CONSERVE SPACE. GROUP PIPING
- WHENEVER PRACTICAL AT COMMON ELEVATIONS. 7. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
- 8. PROVIDE CLEARANCE IN HANGERS AND FROM STRUCTURE AND OTHER EQUIPMENT FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
- 9. SLEEVE PIPE PASSING THROUGH PARTITIONS, WALLS AND FLOORS.
- 10. INSTALL IDENTIFICATION ON PIPING SYSTEMS OR INSULATION COVERINGS INCLUDING UNDERGROUND PIPING PER PIPE LABELING DETAIL. LABELS SHALL INCLUDE NAME OF FLUID INSIDE PIPE ALONG WITH DIRECTIONAL FLOW ARROWS. ALL GAS PIPING SHALL BE PAINTED YELLOW WITH PIPE MARKERS APPLIED AFTER PAINTING. NON-STEEL GAS PIPING SHALL HAVE
- LABELS APPLIED NOT EXCEEDING 5 FEET APART. 11. PROTECT PIPING SYSTEMS FROM ENTRY OF FOREIGN MATERIALS BY TEMPORARY COVERS, COMPLETING SECTIONS OF THE WORK, AND ISOLATING PARTS OF COMPLETED SYSTEM.
- 12. CONTRACTOR SHALL SECURE AND PAY FOR ALL FEES AND PERMITS REQUIRED TO ACCOMPLISH THE WORK SHOWN. 13. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY EXACT LOCATIONS,
- ELEVATIONS, AND CHARACTERISTICS OF UTILITIES AND PIPING AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES. PIPE SLOPES SHOULD BE VERIFIED TO ENSURE PROPER ELEVATIONS
- ARE OBTAINED AT CONNECTION POINTS. 14. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM ARCHITECTURAL DRAWINGS.
- 15. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS, AND METERS.
- 16. ALL SANITARY DRAINAGE PIPES 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM, AND ALL SANITARY DRAINAGE PIPES 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM. GREASE WASTE PIPES SHALL ALL BE SLOPED AT MIN. 1/4" PER FOOT.
- 17. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
- 18. LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" OF ACCESS PANELS, CELING TILES, OR OTHER POINTS OF ACCESS. 19. PLUMBING AND FIRE PROTECTION PIPING IS NOT TO BE INSTALLED IN ELECTRICAL ROOMS,

CLOSETS, TELEPHONE ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT PIPING SERVING THAT

- 20. WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
- 21. TOPS OF ALL FLOOR DRAINS AND FLOOR CLEANOUTS SHALL BE LEVEL WITH FINISHED FLOOR AT INSTALLATION LOCATION TO PREVENT TRIP HAZARDS - FLOORS SHALL SLOPE TO FLOOR
- 22. PRIME ALL FLOOR DRAIN AND INDIRECT DRAIN TRAPS WITH WATER BASED TRAP PRIMERS AS SHOWN ON PLANS. MECH. TRAP GUARDS MAY BE USED IN LIEU OF WATER BASED TRAP PRIMERS WHERE THE AUTHORITY HAVING JURISDICTION ALLOWS. 23. ALL VENT AND FLUE OUTLETS SHALL BE 10'-0" MINIMUM FROM ANY FRESH AIR INTAKE. 24. DURING THE PROGRESS OF THE PROJECT, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES

MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN

MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS, AND HOOK-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB. 25. UPON COMPLETION OF THIS JOB, CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF

THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL,

MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY THESE

- 26. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. PLUMBING CONTRACTOR SHALL WIRE AND START ALL ELECTRICAL PLUMBING EQUIPMENT, ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING, CONDUIT, BREAKERS, AND OTHER APPROPRIATE
- ELECTRICAL EQUIPMENT. 27. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
- 28. ALL PIPE PENETRATIONS OF FIRE OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/SHRINK, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTÍCULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.
- 29. ALL VENT THRU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LEAST VISIBLE LOCATION FROM THE ENTRY VIEW. 30. CONTRACTOR SHALL PROVIDE ALL NECESSARY PRODUCTS AND MATERIALS FOR A COMPLETE
- PLUMBING SYSTEM. 31. EQUIPMENT AND PIPING LOCATIONS AND ROUTING SHOWN ARE DIAGRAMMATIC AND INTENDED TO SHOW THE INTENT OF THE DESIGN. COORDINATE FINAL LOCATIONS AND PIPE ROUTING WITH ARCHITECTURAL PLANS AND FIELD CONDITIONS.
- 32. TEMPER ALL HAND WASHING SINKS TO A MAXIMUM OF 110 DEG. F. USING ASSE 1070 TEMPERATURE LIMITING DEVICE, ALL OTHER LOCATIONS TO A MAXIMUM OF 120 DEG. F UNLESS
- HIGHER TEMPERATURES ARE REQ'D FOR PROPER OPERATION. 33. ALL FIXTURES USING PRESSURIZED WATER SUPPLIES SHALL BE INSTALLED WITH SHUT OFF VALVES FOR ISOLATION AND SERVICE.
- 34. CONTRACTOR SHALL FIELD COORDINATE REQUIRED DRAIN PIPE INVERTS WITH SITE CONTRACTOR BEFORE ORDERING PIPE. 35. CONTRACTOR SHALL HAVE A THOROUGH COORDINATION AND CONSTRUCTABILITY MEETING WITH
- ALL JOB TRADES BEFORE FINAL PRICING/BUDGETING OR PURCHASING ANY EQUIPMENT, AND ENGINEER SHALL BE NOTIFIED BEFORE FINAL PRICING/BUDGETING OR PURCHASING ANY EQUIPMENT OF CONFLICTS, DISCREPANCIES, OR OTHER ISSUES THAT MAY INCREASE PROJECT COST SO THAT ISSUES MAY BE RESOLVED BEFORE PRICING. THESE PLANS WERE DEVELOPED BASED ON THE ARCHITECTURAL PLANS AVAILABLE AT THE TIME OF DESIGN, AND ARE DIAGRAMMATIC IN NATURE.
- 36. ALL PIPING ACCESSORIES INSTALLED UNDERGROUND INCLUDING, BUT NOT LIMITED TO SHUT OFF VALVES, BACKFLOW DEVICES, PRESSURE REDUCING VALVES, ETC. SHALL BE INSTALLED IN A BOX OR VAULT FOR SERVICEABILITY AND PROTECTION. THESE DEVICES SHALL NOT BE DIRECT BURIED BELOW GRADE.
- 37. MAX. "DEAD LEG" LENGTH OF ANY PIPING SHALL BE 12 INCHES.

			PLU	IMBI	NG F	FIXTURE SCHEDULE
TAG	FIXTURE	PIPING	CONN	ECTION	SIZES	SPECIFICATION
	TIXTORE	S.S.	V.	C.W.	H.W.	31 Edition Ton
HWC	WATER CLOSET, FLUSH VALVE TYPE, HCDP.	3"		1"		 HANDICAPPED (ADA COMPLIANT) WATER CLOSET SHALL BE FLOOR MOUNTED FLUSH VALVE TYPE WITH ELONGATED BOWL AND 1.28 GPF MANUAL FLUSH VALVE. SEAT SHALL BE COMMERCIAL TYPE WITH OPEN FRONT LESS COVER. INCLUDE ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION. FIXTURE: KOHLER K-4405 SEAT: KOHLER K-4731-C FLUSH VALVE: KOHLER K-13517
UR	URINAL (0.5 GPF)	2"	2"	3/4"		 ADA URINAL SHALL BE WALL MOUNTED FLUSH VALVE TYPE WITH TOP SPUD AND 0.5 GPF MANUAL FLUSH VALVE. INCLUDE ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION. FIXTURE: KOHLER K-5016-ET FLUSH VALVE: KOHLER K-13519
LAV-1	WALL MOUNT LAVATORY, PUBLIC (0.5 GPM)	2"	2"	1/2"	1/2"	 AMERICAN STANDARD 0954004EC, ADA COMPLIANT, WHITE VITREOUS CHINA WALL MOUNT SINK, REAR CENTER DRAIN WITH OVERFLOW, 3 HOLE DRILLING ON 4" INCLUDE WALL HANGER/CARRIER. ACRYLIC SHROUD/KNEE GUARD. JAY R. SMITH 2598 PRIME-EZE WATER SAVER TRAP PRIMER (ALT SPEC: KOHLER 8998 P-TRAP WHERE NOT USED AS TRAP PRIMER) WHEN PRIMING FLOOR DRAINS. DELTA 501 FAUCET, POLISHED CHROME. MCGUIRE 151 BRASS STRAINER. MCGUIRE BV-2165 QUARTER TURN BALL VALVE STOPS AND SUPPLIES WHITE COVERS OVER EXPOSED HW PIPES (TRUEBRO OR EQUAL)
IWB	REFRIG. ICE MAKER WALL SUPPLY BOX			1/2"		OATEY 20 GA. GALV. STEEL ICE MAKER WALL BOX, WHITE POWER COAT FINISH. INCL. QUARTER TURN SHUT OFF VALVE, WATER HAMMER ARRESTOR. WALL RECESSING TYPE.
FD	FLOOR DRAIN, ON-GRADE	SEE PLAN				SIOUX CHIEF "FINISH LINE" 832 SERIES DUCTILE IRON ON-GRADE ADJUSTABLE FLOOR DRAIN WITH ROUND HEEL PROOF NICKEL BRONZE STRAINER, TAPPING FOR TRAP PRIMER CONNECTION, NO-HUB CONN.
FS	FLOOR SINK (INDIRECT DRAIN)	SEE PLAN				SIOUX CHIEF 861 SERIES 8" SQ. X 6" DEEP SANITARY FLOOR SINK WITH WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN COATED CAST IRON HALF GRATE, ALUMINUM DOME BOTTOM STRAINER, TRAP PRIMER TAP, NO—HUB CONN.
RD, ERD	ROOF DRAIN, EMERG. ROOF DRAIN	SEE PLAN				 SIOUX CHIEF 868-52 ROOF DRAIN WITH CAST IRON BODY, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND ALUMINUM DOME. "ERD" TO HAVE 2" INNER DAM.

NOTES:

1. TEMPER HOT WATER AT ALL SINKS AND LAVATORIES USING ASSE 1070 CONFORMING TEMPERATURE LIMITING DEVICE MOUNTED AT FIXTURE AND SIZED PER REQUIRED FLOW RATE OF FIXTURE.

ELECTRIC WATER HEATER SCHEDULE								
TAG	BASIS OF DESIGN	STORAGE CAPACITY (GALS.)	ELEMENT KW	100 F RECOVERY (GPH)	HW CONN. (IN.)	CW CONN. (IN.)	PWR	NOTES
EWH	RHEEM ELD-52	50	12	49	3/4	3/4	SEE DIV. 16	1,2,3

INSTALL CATCH PAN UNDERNEATH WATER HEATER. INSTALL HEAT TRAPS ON WATER HEATER. WIRE FOR SIMULTANEOUS ELEMENT OPERATION.

PIPING LABEL C	OLOR G	UIDE		SIZE OF LEGEND LETTERS					
PIPING SYSTEM FLUID	LABEL COLOR	COLOR		PIPE OR PIPE COVERING OUTER	LENGTH OF COLOR	SIZE OF LETTERS			
NATURAL GAS	SAFETY YELLOW			DIAM. (IN.)	FIELD (IN.)	(IN.)			
DOMESTIC COLD WATER	SAFETY GREEN	WHITE		3/4" TO 1-1/4"	8"	1/2"			
DOMESTIC HOT WATER	SAFETY GREEN	WHITE		1-1/2" TO 2"	8"	3/4"			
FIRE PROTECTION FLUIDS	SAFETY RED	WHITE		2-1/2" TO 6"	12"	1-1/4"			

LABEL TEXT SHOULD MATCH FLUIDS IN TABLE, AND SHOULD INCLUDE FLOW ARROWS INDICATING

- DIRECTION OF FLUID FLOW. IF FLUIDS MAY FLOW IN TWO DIRECTIONS, ARROWS SHOULD INDICATE SUCH. APPLY LABELS SO THAT THEY ARE EASILY READABLE BY OCCUPANTS OR EMPLOYEES. FOR EASE OF READING, LABELS SHOULD BE APPLIED ON BOTTOM OF PIPES THAT ARE ABOVE
- OCCUPANT LEVEL, ON TOP OF PIPES THAT ARE BELOW OCCUPANT LEVEL, AND ON SIDE OF PIPES THAT ARE AT OR NEAR OCCUPANT LEVEL. 4. FOR PIPES SMALLER THAN 3/4", USE PERMANENTLY ENGRAVED LABELS AFFIXED TO PIPES. 5. APPLY LABELS NEAR VALVES, BRANCHES, WHERE A CHANGE IN DIRECTION OCCURS, AT ENTRY
- AND RE-ENTRY POINTS THRU WALLS, FLOORS, ROOFS, AND ON STRAIGHT SEGMENTS WITH SPACING BETWEEN LABELS THAT ALLOWS FOR EASY INDENTIFICATION. 6. PIPING SYSTEMS CONVEYING GASEOUS CONTENTS SHALL HAVE SYSTEM DESIGN PRESSURE
- INDICATED ON THE LABEL IN ADDITION TO SYSTEM FLUID AND DIRECTIONAL ARROWS. 7. NATURAL AND PROPANE GAS LABELS ON NON-STEEL PIPING SHALL BE APPLIED AT INTERVALS
- 8. THESE LABELING GUIDELINES DO NOT APPLY TO MEDICAL GAS AND VACUUM SYSTEMS. FOR THESE TYPES OF SYSTEMS, REFER TO THE LOCAL CODE OFFICIALS' LATEST ACCEPTED VERSION

VENT NEAR DRY WELL -

W/GOOSE NECK TURN

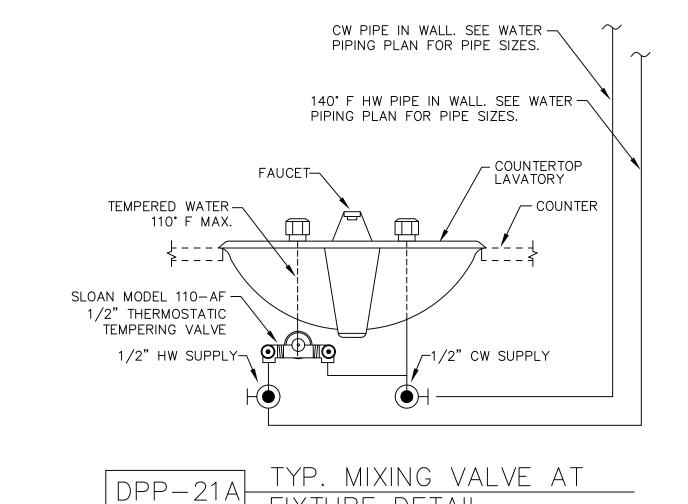
DN. & INSECT SCREEN

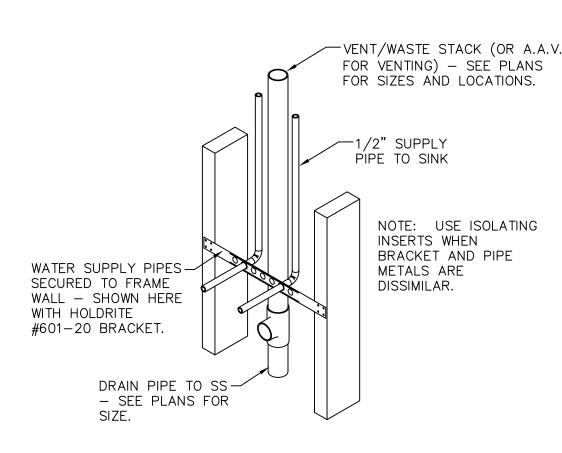
COND. PIPE B/G -

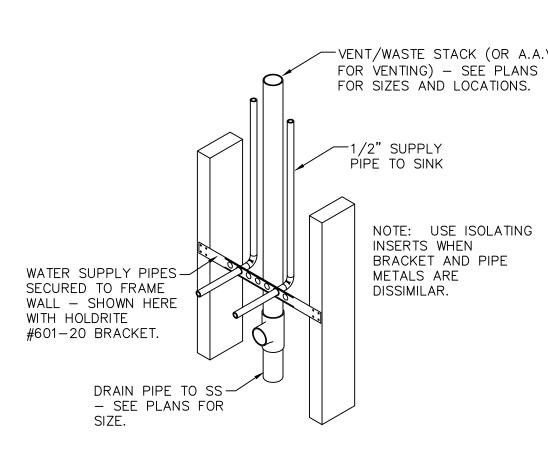
FROM HVAC COIL, TYP. TURN DN. TO DISCHARGE IN DRY WELL.

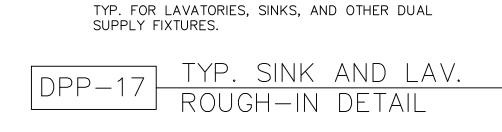
NOTE EXCEEDING 5 FEET.

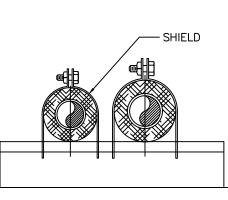
	PLUMBING LEGEND			PLUMBING LEGEND				
SYMBOL	DESCRIPTION	ABBREVIATION	SYMBOL	DESCRIPTION	ABBREVIATION			
—CHWS—	CHILLED WATER SUPPLY	CHWS		AREA DRAIN	AD			
CHWR	CHILLED WATER RETURN	CHWR		ABOVE CEILING	A/C			
	CONDENSER WATER SUPPLY	CWS		ABOVE FLOOR	A/F			
cwr	CONDENSER WATER RETURN	CWR		ABOVE FINISHED FLOOR	AFF			
——HWS——	HEATING WATER SUPPLY	HWS		ABOVE FINISHED GRADE	AFG			
HWR	HEATING WATER RETURN	HWR		BELOW COUNTER	B/C			
— CD —	CONDENSATE DRAIN	CD		BELOW FLOOR	B/F			
——LPS ——	LOW PRESSURE STEAM	LPS		BELOW GRADE	B/G			
MPS	MEDIUM PRESSURE STEAM	MPS		HOT WATER RETURN BALANCING VALVE	BV			
——HPS——	HIGH PRESSURE STEAM	HPS		FRESH AIR AUXILIARY VENT	FAAV			
LPC	LOW PRESSURE STEAM CONDENSATE RETURN	LPC	—— CA ——	COMPRESSED AIR	CA			
MPC	MEDIUM PRESSURE STEAM CONDENSATE RETURN	MPC	CD	CONDENSATE DRAIN	CD			
——HPC——	HIGH PRESSURE STEAM CONDENSATE RETURN	HPC		CHECK VALVE	CV			
	FUEL OIL SUPPLY	FOS		COLD WATER PIPING	CW			
— — FOR — —	FUEL OIL RETURN	FOR	CWV	COMBINATION WASTE & VENT	CWV			
	GATE VALVE		 	PIPING CONNECTION ON TOP				
	GLOBE VALVE		 	PIPING CONNECTION ON BOTTOM				
	ANGLE GATE VALVE			ELBOW TURNED DOWN	DN			
T	3-WAY VALVE			ELBOW TURNED UP	UP			
	CONTROL VALVE			EMERGENCY ROOF DRAIN	ERD			
	SWING CHECK VALVE		— ERL—	EMERGENCY ROOF DRAIN EMERGENCY RAIN LEADER	ERL			
<u> </u>	NON-SLAM (LIFT) CHECK VALVE				FCO			
<u> </u>				FLOOR CLEANOUT				
<u> </u>	TRIPLE DUTY VALVE			FLOOR DRAIN	FD FO			
	SUCTION DIFFUSER			FLOOR SINK	FS			
— <u></u>	TRIPLE DUTY VALVE		— G —	GAS PIPING - LOW PRESSURE	G			
<u>——[——</u>	BUTTERFLY VALVE		—— GM ——	GAS PIPING — MEDIUM PRESSURE	GM			
——————————————————————————————————————	BALANCING VALVE			GREASE WASTE PIPING	GW			
	BALL VALVE			BALL VALVE	BV			
	TRIPLE DUTY VALVE			GATE VALVE	GV			
	AUTOMATIC FLOW CONTROL VALVE			HANDICAPPED/ADA	H.C.			
<u> </u>	RELIEF VALVE			HOT WATER PIPING	HW			
<u>†</u>	MANUAL AIR VENT	MAV	——HWR——	HOT WATER RETURN PIPING	HWR			
ф	HOSE END DRAIN VALVE		—— HZ ——	HIGH ZONE (BOOSTED) COLD WATER	HZ			
I	COMBINATION TEMP/PRESSURE TEST PORT		— LZ —	LOW ZONE (STREET PRESSURE) COLD WATER	LZ			
	SOLENOID VALVE			POINT OF CONNECTION (NEW TO EXISTING)	POC			
<u> </u>	UNION		——PD——	PUMPED DISCHARGE	PD			
	FLEXIBLE CONNECTOR		\longrightarrow	P-TRAP				
AS	AIR SEPARATOR			PRESSURE REDUCING VALVE	PRV			
\X	PRESSURE REDUCING VALVE			ROOF DRAIN	RD			
<u> </u>	BLIND FLANGE/CAP			REDUCED PRESSURE BACKFLOW PREVENTER	RPBP			
	PIPING CONNECTION ON TOP		A/G	SOIL, WASTE PIPING ABOVE GROUND	SW A/G			
	PIPING CONNECTION ON BOTTOM		B/G	SOIL, WASTE PIPING BELOW GROUND	SW B/G			
	ELBOW TURNED DOWN		——⊚——	SHOCK ABSORBER	SA			
	ELBOW TURNED UP		—— ST ——	STORM DRAINAGE PIPING ABOVE GROUND	SD A/G			
──	REDUCER, CONCENTRIC		——ST——	STORM DRAINAGE PIPING BELOW GROUND	SD B/G			
	REDUCER, ECCENTRIC			TRAP PRIMER	TP			
_	TEE			UNION	U			
	ANCHOR			VENT PIPE	V			
	ALIGNMENT GUIDE		0	VENT STACK	VS			
FS T	FLOW SWITCH			VENT THROUGH ROOF	VTR			
	FLOW METER			WALL CLEANOUT	WCO			
PG	PRESSURE GAUGE			WASTE STACK	WS			
	PRESSURE SWITCH			WALL HYDRANT/NON-FREEZE WALL HYDRANT	WH/NFWH			
	PUMP			YARD CLEANOUT	YCO			
	STRAINER WITH BLOWDOWN			<u> </u>				
\	THERMOMETER							
<u> </u>	GAUGE COCK							
<u> </u>								
<u></u> ——⊗—	STEAM TRAP							





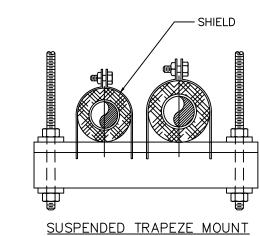






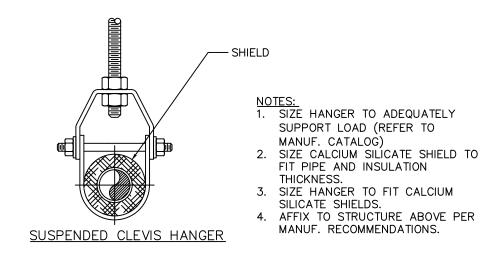
<u>NOTES:</u> I. SIZE STRUT TO ADEQUATELY SUPPORT LOAD (REFER TO MANUF. CATALOG) SIZE CALCIUM SILÍCATE SHIELD TO FIT PIPE AND INSULATION SIZE CLAMP TO FIT CALCIUM . BOLT OR WELD STRUT TO STRUCTURE BELOW.

SURFACE MOUNT

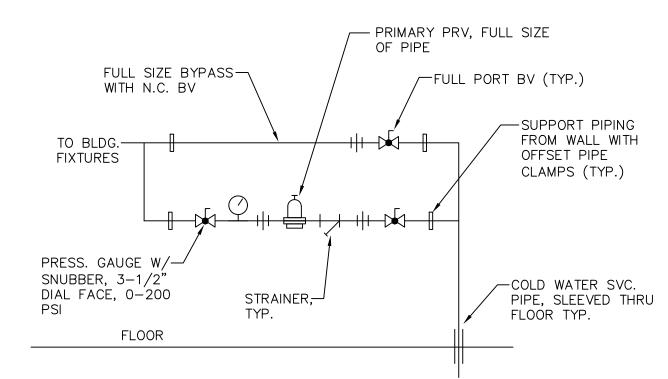


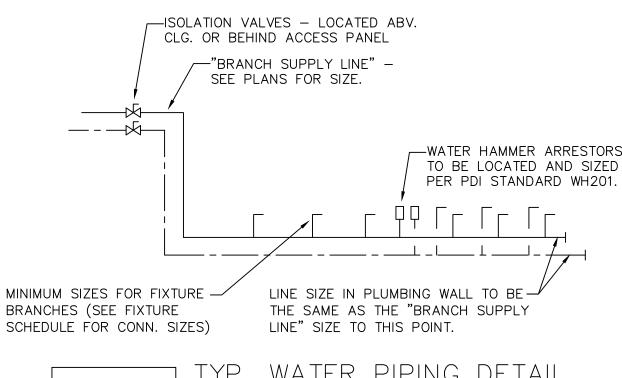
NOTES:

1. SIZE STRUT TO ADEQUATELY SUPPORT LOAD (REFER TO MANUE CATALOG) SIZE CALCIUM SILICATE SHIELD TO FIT PIPE AND INSULATION SIZE CLAMP TO FIT CALCIUM SILICATE SHIELDS.
4. AFFIX TO STRUCTURE ABOVE PER MANUF. RECOMMENDATIONS.

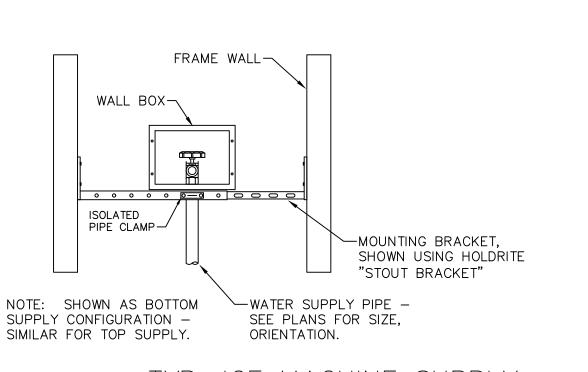


PIPE HANGER DETAILS





TYP. WATER PIPING DETAIL



NOTE: WHERE NOT INSTALLED IN - VACUUM BREAKER WATER HEATER, INCLUDE HEAT TRAPS IN PIPING CONNECTIONS. EXPANSION TANK HOT WATER OUT — 工 NOTE: THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED THE PRESSURE RATING OF ANY COMPONENT — TANK TYPE WATER HEATER IN THE SYSTEM.

CATCH PAN

— HOUSEKEEPING PAD

TANK TYPE WATER HTR. PIPING

PIPE TPR CATCH PAN —

TO LOCATION SHOWN

ON PLANS.



CEVIAN DESIGN LAB, LLC ARCHITECT 207 E. 5TH AVENUE PO BOX 35, ROME, GA 30162 706 . 383 . 1043 WWW.CEVIANDESIGN.COM



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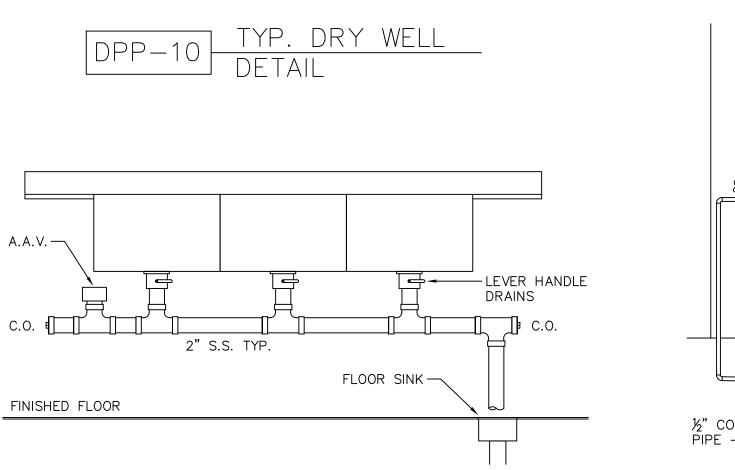
CONSTRUCTION DRAWINGS CEVIAN DESIGN LAB JOB# 15054

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DRAWING NO.



DPF-4 TRIPLE POT SINK DRAIN
DETAIL

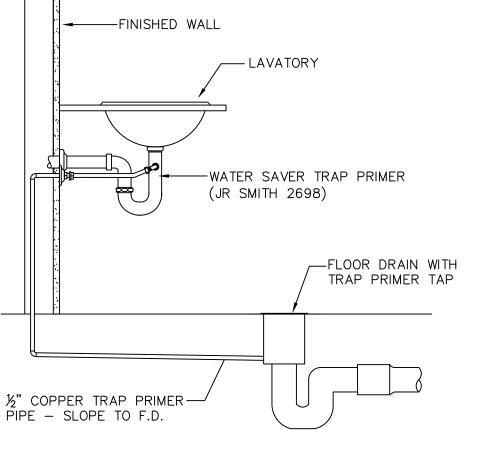
-REMOVABLE CAP

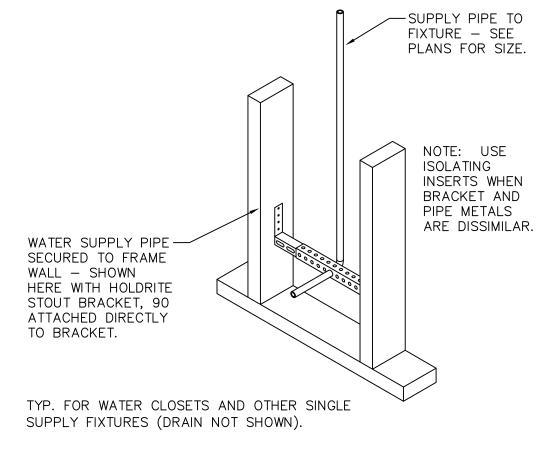
-18" DIAM. X 4' DEEP

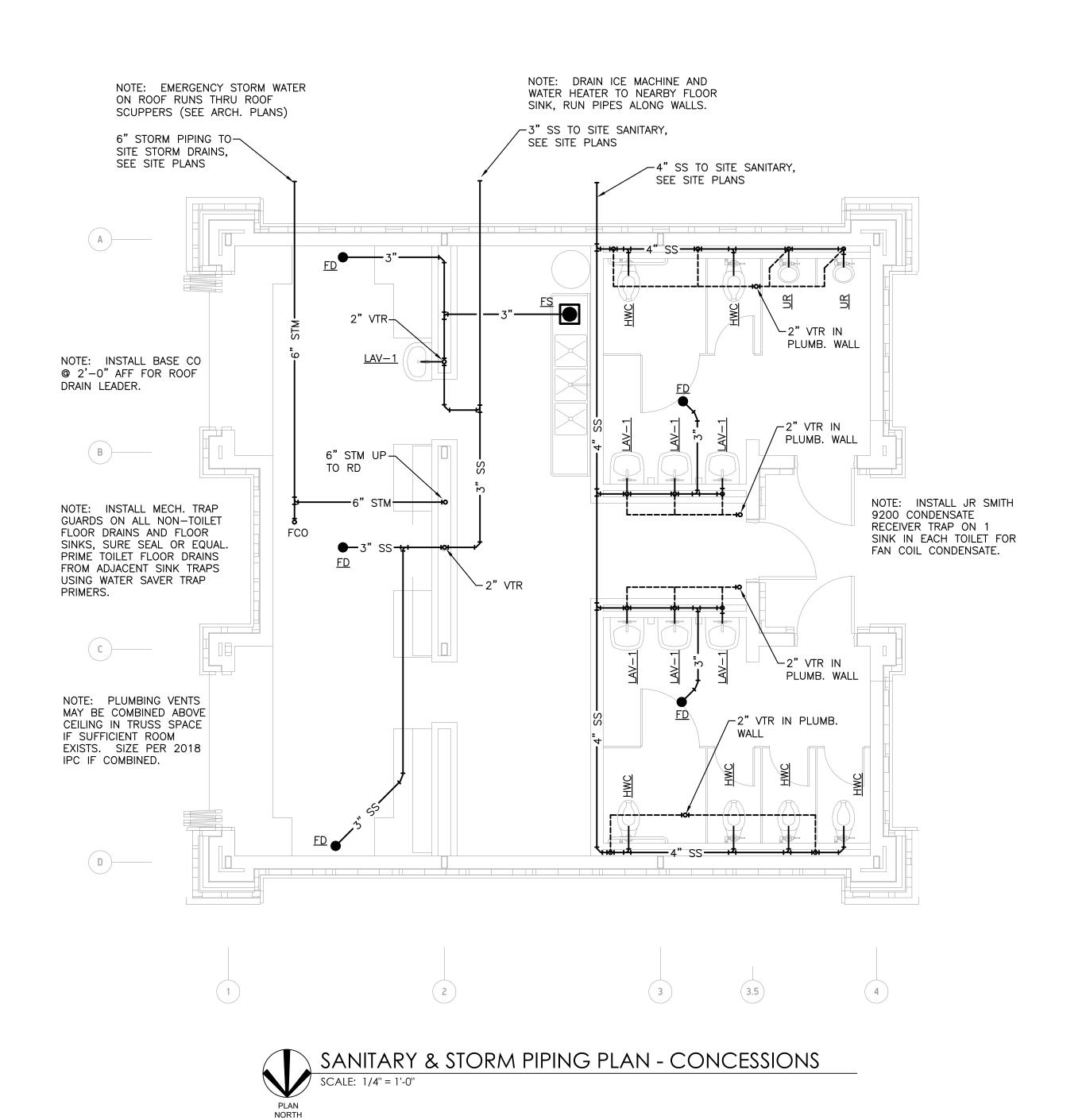
SEEPAGE TYPE DRY WELL, FILL W/ NO. 2

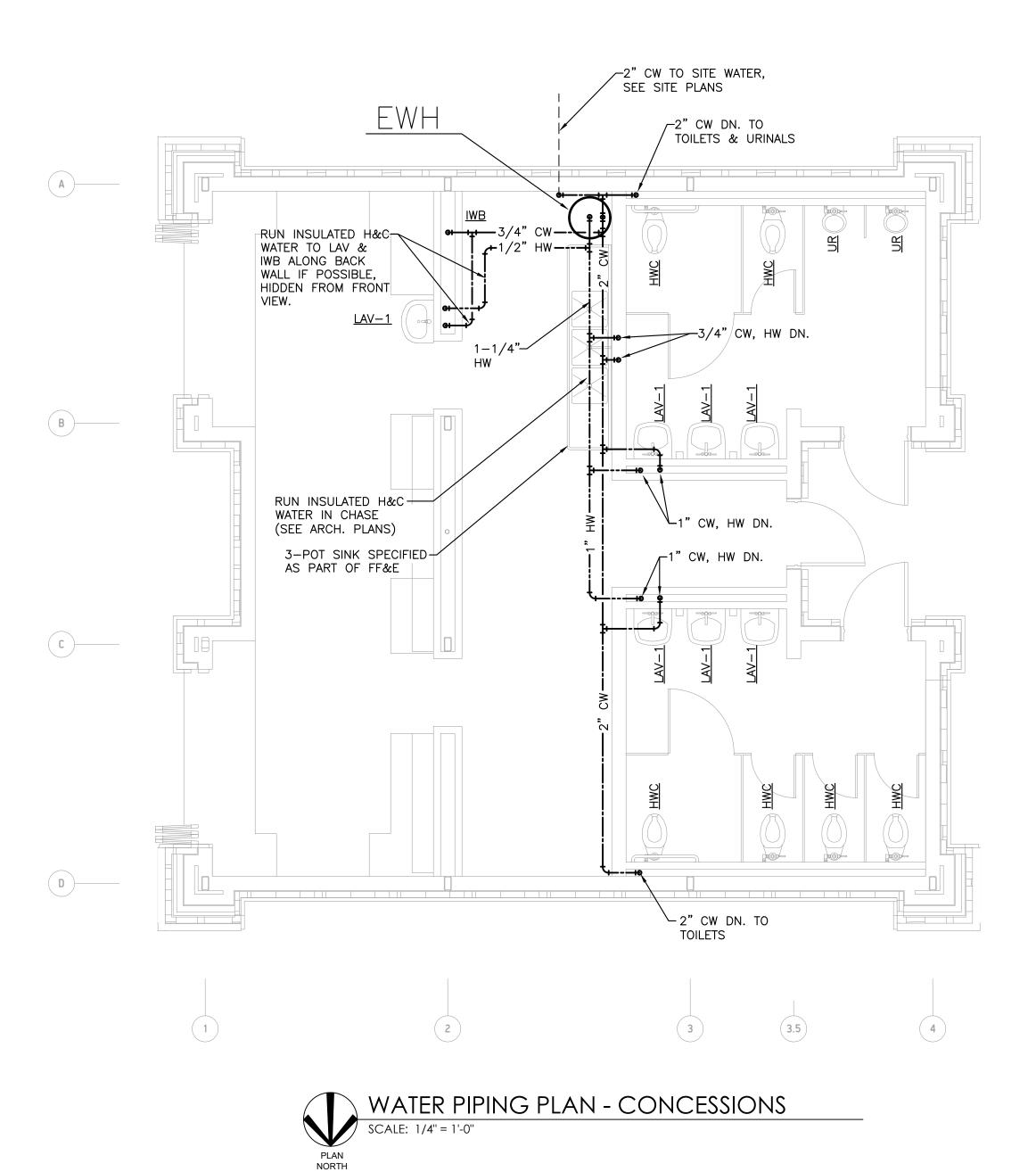
WASHED STONE GRAVEL. LOCATE

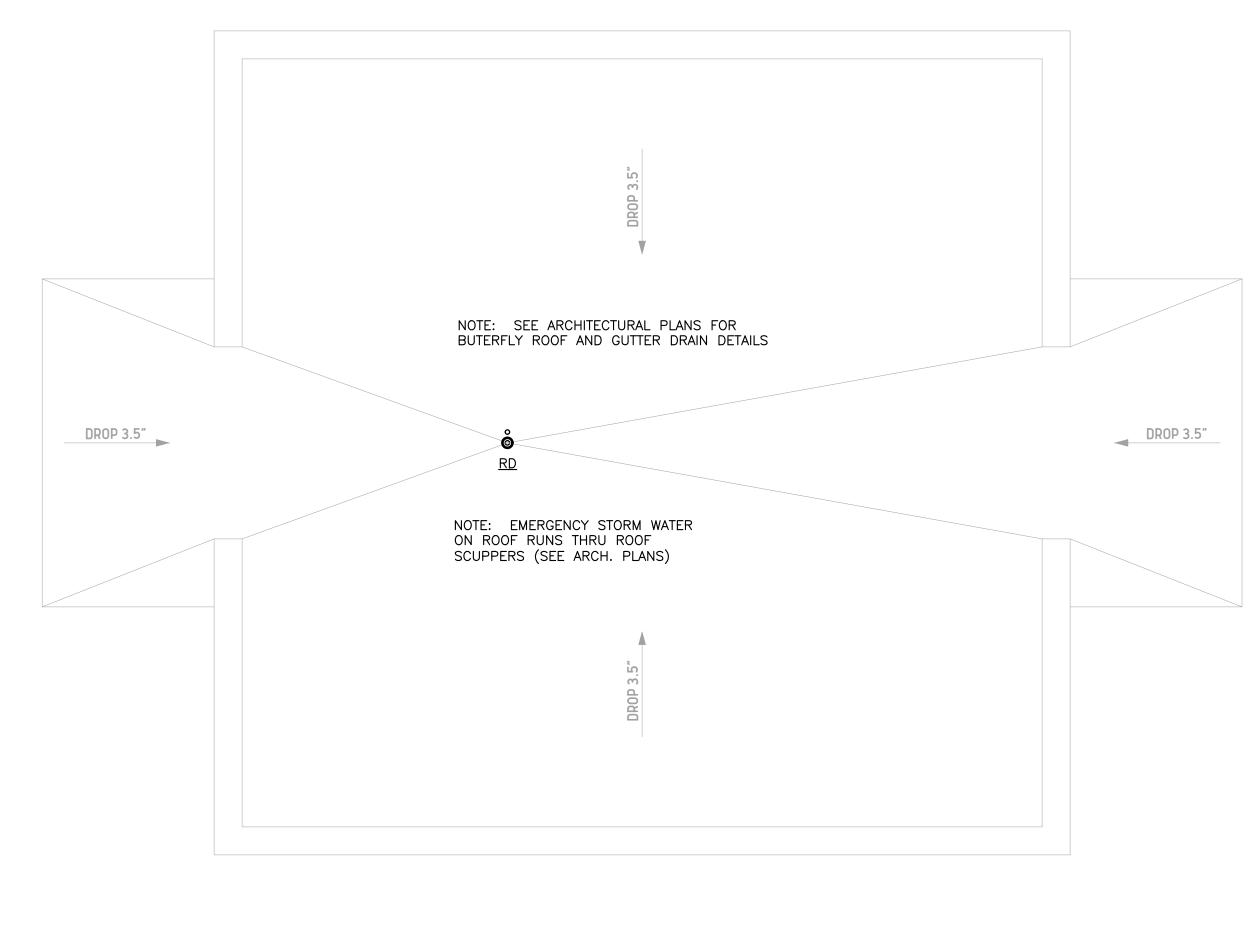
MIN. 10'-0" FROM BLDG.





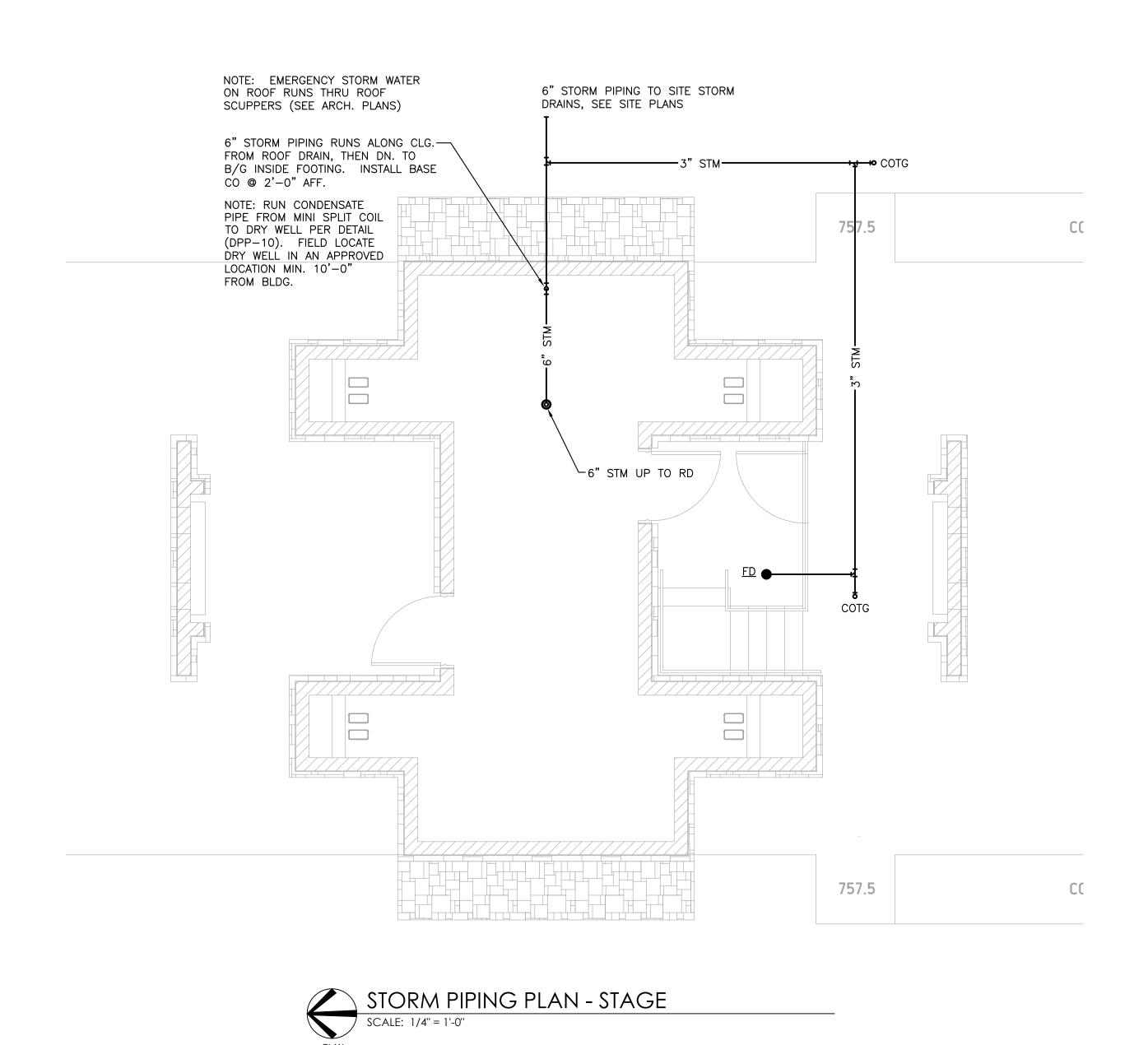


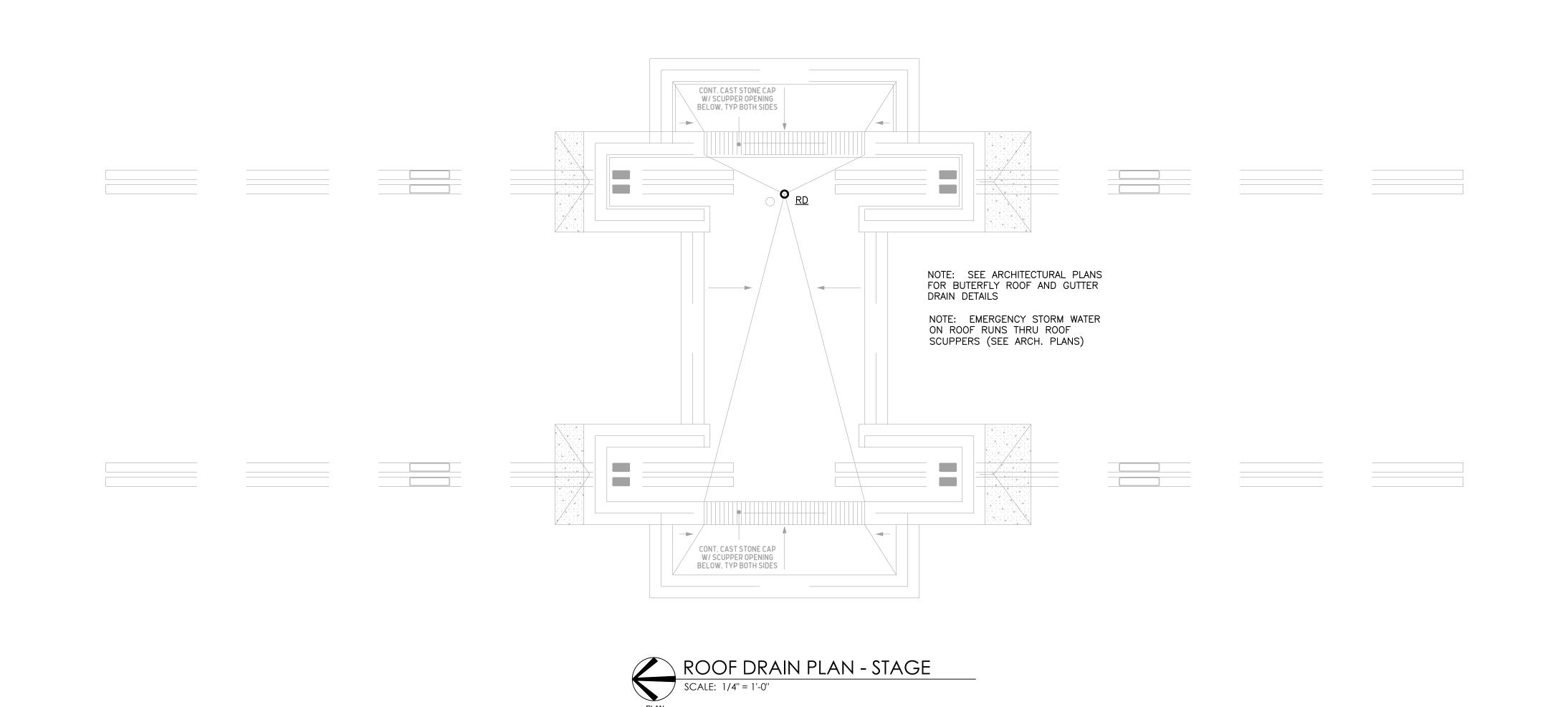


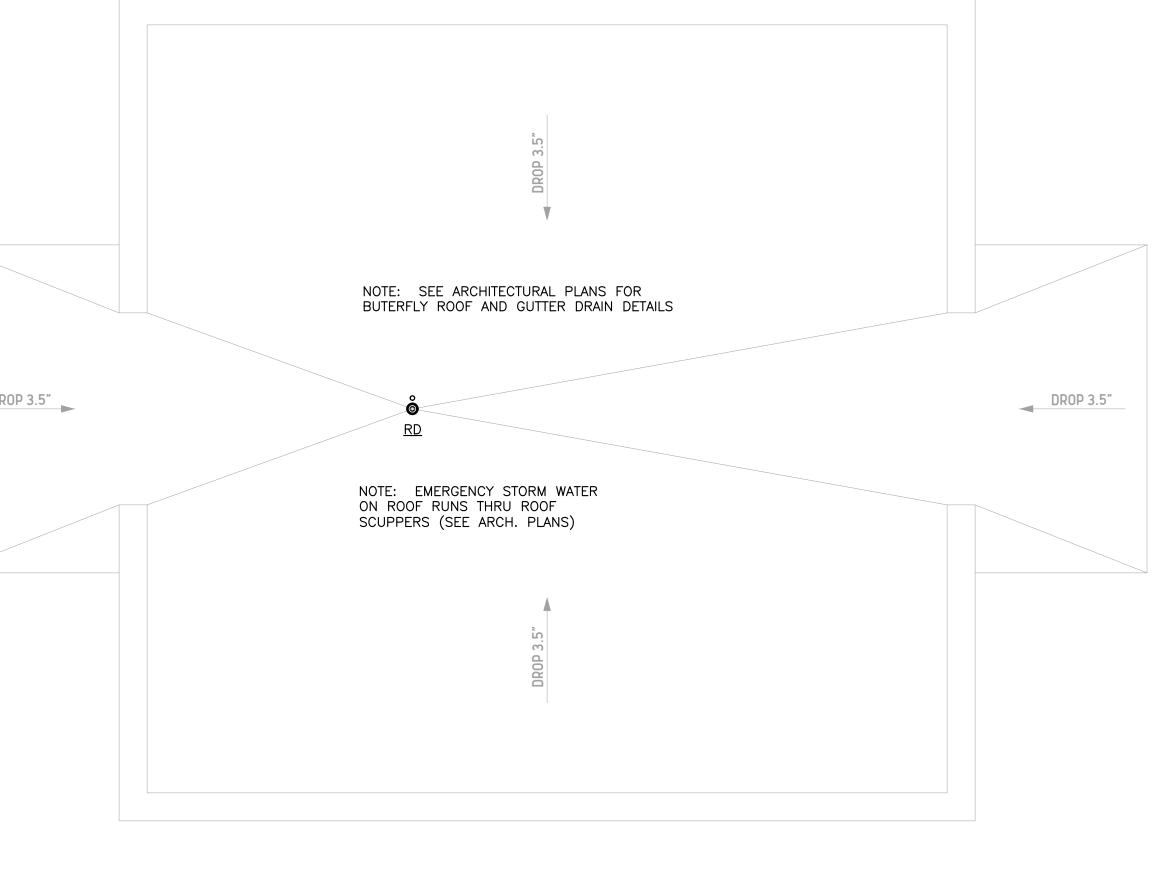


ROOF DRAIN PLAN - CONCESSIONS

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







 α ROC DATE / COMMENTS REVISION #

CEVIAN

DESIGN LAB

9/27/2024

CEVIAN DESIGN LAB, LLC

ARCHITECT

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CONSTR	RUCTION DRAWINGS

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CONCESSIONS BLDG. & BACK OF STAGE BLDG.

PLUMBING PLANS -

DRAWING NO.

P1-1

SECTION 15080 - PLUMBING INSULATION

PART 1 GENERAL

1.1 GENERAL A. Section 15010 applies.

PART 2 PRODUCTS

2.1 BASIS OF DESIGN

A. Manufacturers shown below as Basis of Design 1. Acceptable Manufacturers for Glass Fiber and Mineral Fiber Insulation Products: CertainTeed, Knauf, Johns Manville, Owens—Corning. 2.2 PIPE INSULATION

A. Domestic Hot Water Supply and Recirculation 1. ASTM C547, molded glass fiber pipe insulation.

2. Thermal Conductivity: 0.23 at 75 degrees F. 3. Operating Temperature Range: 0 to 850 degrees F. 4. Vapor Barrier Jacket: ASTM C1136, Type I, factory applied reinforced foil kraft with self—sealing adhesive

5. Jacket Temperature Limit: minus 20 to 150 degrees F. 6. Thickness: 1" thickness for 1-1/2" pipe and smaller. 1-1/2" thickness for pipes larger than 1-1/2". B. Domestic Cold Water Supply and Condensate Piping

 ASTM C547, molded glass fiber pipe insulation. 2. Thermal Conductivity: 0.23 at 75 degrees F. 3. Operating Temperature Range: 0 to 850 degrees F.

4. Vapor Barrier Jacket: ASTM C1136, Type I, factory applied reinforced foil kraft with self—sealing adhesive

5. Jacket Temperature Limit: minus 20 to 150 degrees F. 6. Thickness: 1/2" thickness for all pipes.

C. Storm Piping Above Ceilings 1. R-6 exterior duct wrap, seal all insulation joints.

D. Pipe Insulation Jacket 1. ASTM C921, white Kraft paper with glass fiber yarn, bonded to aluminized film. 2. Water vapor transmission: ASTM E96/E96M; 0.02 perm-inches.

PART 3 EXECUTION

3.1 INSTALLATION - PIPING SYSTEMS

A. Paint insulation to match ceiling where piping and pipe insulation are exposed to view. B. Verify piping and equipment has been tested before applying insulation materials. Verify surfaces are clean and

seams in least visible locations. C. Continue insulation through penetrations of building assemblies or portions of assemblies having fire resistance rating of one hour or less. Provide expanding fire stopping when continuing insulation through assembly. Finish at supports, protrusions, and interruptions.

D. Hot and Cold Piping Systems:

dry, with foreign material removed. Piping Exposed to View in Finished Spaces: Locate insulation and cover

1. Insulate entire system including fittings, valves, unions, flanges, strainers, flexible connections, and expansion 2. Furnish factory—applied or field—applied standard jackets. Secure with outward clinch expanding staples or pressure sensitive adhesive system on standard factory—applied jacket and butt strips or both.

glass cloth and adhesive or PVC fitting covers. 4. Do not insulate unions and flanges at equipment, but bevel and seal ends of insulation at such locations. For hot piping systems above 140 degrees F, insulate unions and flanges at equipment. E. Inserts and Shields:

3. Insulate fittings, joints, and valves with insulation of like material and thickness as adjoining pipe. Finish with

1. Piping 1-1/2 inches Diameter and Smaller: Install steel shield between pipe hanger and insulation. 2. Piping 2 inches Diameter and Larger: Install insert between support shield and piping and under finish jacket. a. Insert Configuration: Minimum 6 inches long, of thickness and contour matching adjoining insulation; may be factory fabricated. b. Insert Material: Compression resistant insulating material suitable for planned temperature range and

3. Piping Supported by Roller Type Pipe Hangers: Install galvanized steel shield between roller and inserts. a. Condensate Piping: Insulate entire piping system and components inside the building space to prevent

b. Pipe exposed in Mechanical Equipment or Finished Spaces: Finish with PVC jacket and fitting covers. Labels on exterior covers should be oriented so as to be easily readable and shall have directional flow

END OF SECTION

SECTION 15100 - PIPING AND ACCESSORIES

PART 1 GENERAL 1.1 GENERAL

A. Section 15010 is applicable.

1.2 PRESSURE A. The working pressure of all pipes, fittings, valves, and joints shall be in excess of the maximum system pressure and maximum system temperature at the point of installation.

PART 2 PRODUCTS 2.1 PIPE HANGERS AND SUPPORTS

A. Conform to ASME B31.9, ASTM F708.

B. Hangers for Non Insulated Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron or carbon steel, adjustable swivel, split

C. Hangers for Insulated and Non Insulated Pipe Sizes ½" to 30 inches: Carbon steel, adjustable, clevis. D. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.

E. Vertical Support: Steel riser clamp.

F. Wall Support for Pipe Sizes to 3 inches: Cast iron hook.

G. Wall Support for Pipe Sizes 4 inches and Over: Welded steel bracket and wrought steel clamp. H. Copper Pipe Support: Copper-plated, carbon-steel adjustable, ring.

I. Floor Support for horizontal Pipe Sizes to 4 inches: Cast iron adjustable pipe saddle, lock nut, nipple, floor

flange, and concrete pier or steel support. J. Floor Support for horizontal Pipe Sizes 6 inches and Over: Adjustable cast iron roll and stand, steel screws, and

K. Ground support for exterior horizontal Pipe: Adjustable stainless steel roll and stand, and concrete pier support. 2.2 PIPE SLEEVES

A. Sleeves are defined as holes that are provided to permit the passage of pipe (and insulation) through walls or floors. Soil, waste, vent, and domestic water pipes stubbed through walls and floors for plumbing fixture connections do not require sleeves.

B. Masonry: Sleeves shall be schedule 40 steel pipe and shall be large enough to accommodate continuous passage of pipe plus insulation through the wall or floor system. Pipe sleeves shall extend 1" on both sides of a wall or floor.

1. Sleeves through concrete walls and floor shall be formed by any device that forms a neat circular hole, of proper size, through the wall or floor system. Acceptable devices are pipe and sheet metal. 2. Structural floor sleeves require extension above the floor surface to prevent water passage down the sleeves,

and shall be made of schedule 40 black steel pipe extended 1" above the floor. D. Other Sleeves: Where sleeves pass through wood, drywall, plaster partitions, or suspended ceilings, sleeves shall be neatly cut holes sealed with caulk, finished with chrome plated escutcheon where exposed in visible areas. E. Sealing of annular space: For sleeves in masonry and concrete walls and elevated floor slabs, non-rated,

annular spaces shall be packed with silicone RTV foam. Sleeves in exterior walls shall be sealed with a 'Link Seal" assembly or packed with fiberglass and sealed at both ends with weather-resistant, non-hardening caulk. Where escutcheons are not required, the annular space shall be neatly sealed at the sleeve end. Pipes passing through ducts and plenums shall be sealed air tight. Annular spaces that pass through fire resistive or fire rated partitions, or ceilings shall be closed with 3M Fire Barrier Penetration Sealing System. F. Unused holes in floors made for duct or pipe penetrations shall be sealed neatly to match existing wall or floor.

G. All sleeves shall be sized for full pipe size plus pipe insulation thickness through the entire length of the sleeve. 2.3 ESCUTCHEONS A. Escutcheons are annular shaped metal plates installed to cover annular spaces around pipes entering walls,

floors, or other partitions. They are installed for decorative purposes in areas where these penetrations are visible. Escutcheons shall be chrome plated steel, fastened to remain secure and in position at all times. B. Escutcheons for water closets, plated supply pipes, and shower heads shall be chrome plated brass with setscrew.

C. Escutcheons are not to be installed on the bell of any soil or drain pipes, on any pipe larger than 4", on insulated pipe if exterior diameter of insulation is larger than 4", or on pipes which do not enter the wall or floor at right angles.

2.4 FLASHING A. Flashing shall be sheet lead, 4 lbs. per square foot, and shall extend out from pipe and edge of drain a

B. Roof drains, floor drains, area drains, and equipment room drains installed where membrane water—proofing is installed shall be flashed.

C. Vent stacks and other pipes through roof shall be flashed. Flashing may be caulked into pipe bell if flush with finished roof, or on 3" and larger may employ 4 lb. boot flashing. Vents shall extend a minimum of 12" above finished roof elevation at penetration. Refer to roof pipe portals for piping through roof other than sanitary vents or overflow drains. 2.5 PIPES AND TUBES

A. Sanitary Sewer (SS), Vent Piping (V), Storm & Emergency Storm Plping (STM, OD) 1. Sanitary Sewer & Grease Waste (SS, GW): PVC, schedule 40, with PVC fittings and elastomeric gasket joints.

Solvent weld with ASTM D2564 solvent cement. 2. Vent Piping (V): PVC, schedule 40, with PVC fittings and elastomeric gasket joints. Solvent weld with ASTM D2564 solvent cement. 3. Storm, Emergency Storm (STM, OD): Cast Iron Pipe, CISPI 301, hubless, service weight, with neoprene

gaskets and stainless steel clamps. 4. WRAP ALL NON-METALIC PIPING IN HVAC PLENUM SPACES with 3M Fire Wrap 5A+. 5. Insulate storm and emergency storm drain piping above ceilings with external R—6 duct wrap.

B. Domestic Water Piping, Cold water (CW), Hot water (HW) & Hot water return (HWR)

1. Underground: Type K Copper Tubing ASTM B42, Tempered 061 annealed without fittings. 2. Above ground: Type L copper tubing, ASTM B88, drawn with wrought copper fittings and grade 95TA solder

3. Exposed fixtures: Chrome plated brass and copper tubing with threaded plated brass fittings. C. TPR Drain Piping: PVC, Schedule 40, with PVC fittings and elastomeric gasket joints. Solvent weld with ASTM 4. Trap Primer piping (TP): Type K Copper Tubing ASTM B42, Tempered 061 annealed without fittings.cement.

2.6 VALVES A. For drinking water service, provide valves complying with NSF 61.

4. Up to 2 inches: Bronze body, bronze trim, non-rising stem, hand wheel, inside screw, double wedge disc, 5. Over 2 inches: Iron body, bronze trim, rising stem, hand wheel, OS&Y, solid wedge, flanged or grooved ends.

C. Ball Valves: 1. Up to 2 inches: Bronze or stainless steel one piece body, chrome plated brass ball, teflon seats and stuffing box ring, lever handle, solder or threaded ends. 2. Over 2 inches: Cast steel flanged body, chrome plated steel ball, Teflon seat and stuffing box seals and lever handle.

1. Bronze body, Teflon seat, stainless steel stem and springs, automatic, direct pressure actuated capacities ASME certified and labeled. E. Plug Valves:

1. Up to 2 inches: Bronze body, bronze tapered plug, non—lubricated, Teflon packing, threaded ends. 2. Over 2 inches: Cast iron body and plug, pressure lubricated, Teflon packing, flanged ends. F. Butterfly Valves:

1. Up To 2 inches: Bronze body, stainless steel disc, resilient replaceable seat, threaded ends, extended neck, 10-position lever handle. 2. Over 2 inches: Iron body, chrome plated iron disc, resilient replaceable seat, wafer or lug ends, extended neck, 10 position lever handle.

G. Swing Check Valves: 1. Up to 2 inches: Bronze body and swing disc, solder or threaded ends. 2. Over 2 inches: Iron body, bronze trim, swing disc, renewable disc and seat, flanged ends.

H. Spring Loaded Check Valves: 1. Iron body, bronze trim with threaded, wafer or flanged ends and stainless steel spring with renewable composition disc.

1. Bronze body, Teflon seat, stainless steel stem and springs, automatic, direct pressure actuated capacities ASME certified and labeled. 2.7 METERS AND GAGES

A. Thermometers: 1. Scale Range: Temperature ranges for services listed are as follows: a. Domestic Hot Water: 30 to 240 deg F, with 2-degree scale divisions

b. Domestic Cold Water: 0 to 100 deg F, with 2-degree scale divisions B. Liquid—In—Glass Thermometers Description: ASTM E 1. a. Case: Die cast and aluminum finished in baked—epoxy enamel, glass front, spring secured, 9 inches

(230 mm) long. b. Adjustable Joint: Finish to match case, 180—degree adjustment in vertical plane, 360—degree adjustment in horizontal plane, with locking device. c. Tube: Red or blue reading, organic—liquid filled with magnifying lens.

Retain paragraph above or below. Tube type above is recommended. d. Tube: Red or blue reading, mercury filled with magnifying lens. e. Scale: Satin—faced nonreflective aluminum with permanently etched markings.

f. Stem: Copper—plated steel, aluminum, or brass for separable socket; of length to suit installation. 2. Thermometer Wells: Fitting with protective well for installation in threaded pipe fitting to hold test thermometer.

a. Material: Brass, for use in copper piping. b. Material: Stainless steel, for use in steel piping.

c. Material: Steel, for use in steel piping. d. Extension—Neck Length: Nominal thickness of 2 inches but not less than thickness of insulation. Omit extension neck for wells for piping not insulated.

e. Retain one of three subparagraphs below. f. Insertion Length: To extend to one—third of diameter of pipe. g. Cap: Threaded, with chain permanently fastened to socket. h. Heat—Transfer Fluid: Oil or graphite.

C. Pressure Gages 1. Description: ASME B40.1, phosphor-bronze bourdon-tube type with bottom connection; dry type, unless liquid—filled—case type is indicated. 2. Cases are also constructed of molded aluminum and phenolic plastic. Lenses are also made of clear acrylic

3. Case: Drawn steel, brass, or aluminum with 4-1/2-inch diameter, glass lens. 4. Connector: Brass, NPS 1/4. 5. Scale: White—coated aluminum with permanently etched markings.

6. Range: 0-100 PSI.

1. Description: Nickel-plated, brass-body test plug in NPS 1/2 fitting. 2. Body: Length as required to extend beyond insulation. 3. Pressure Rating: 500 psig minimum.

4. Core Inserts: One or two self-sealing valves, suitable for inserting 1/8-inch OD probe from dial-type thermometer or pressure gage. 5. Test-Plug Cap: Gasketed and threaded cap, with retention chain or strap.

6. Test Kit: Pressure gage and adapter with probe, two bimetal dial thermometers, and carrying case. E. Calibrated Flow Balancing Valves

1. Furnished with calibrated nameplate and memory stop. 2. Fitted with capped readout fittings.

F. Manufacturers: Subject to compliance with requirements, provide products by one of the following: Liquid—in—Glass Thermometers: a. Dresser Industries, Inc.; Instrument Div.; Weksler Instruments Operating Unit. b. Ernst Gage Co.

c. Marsh Bellofram. d. Palmer Instruments, Inc. e. Trerice: H. O. Trerice Co. f. Weiss Instruments, Inc. g. Winter's Thermogauges, Inc.

2. Pressure Gages: a. AMETEK, Inc.; U.S. Gauge Div. b. Dresser Industries, Inc.; Instrument Div.; Ashcroft Commercial Sales Operation. c. Dresser Industries, Inc.; Instrument Div.; Weksler Instruments Operating Unit.

d. Ernst Gage Co. e. Marsh Bellofram. f. Noshok, Inc.

g. Trerice: H. O. Trerice Co. h. Weiss Instruments, Inc. i. WIKA Instruments Corp. Winter's Thermogauges, Inc.

3. Test Plugs: a. Flow Design, Inc. b. MG Piping Products Co. c. National Meter.

1. Basis of design: Watts FD-100-A

d. Peterson Equipment Co., Inc. e. Sisco Manufacturing Co. f. Trerice: H. O. Trerice Co. a. Watts Industries, Inc.; Water Products Div. 4. Calibrated Flow Balancing Valve:

a. Taco b. Bell & Gossett c. Macon

2.8 PIPING SPECIALTIES

A. Flanges, Unions, and Couplings: 1. Pipe Size 2 inches and Under: Malleable iron unions for threaded ferrous piping; bronze unions for copper pipe, soldered joints. 2. Pipe Size Over 2 inches: Forged steel flanges for ferrous piping; bronze flanges for copper piping; preformed

neoprene gaskets. 3. Grooved and Shouldered Pipe End Couplings: Malleable iron housing, C—shape elastomer composition sealing gasket, steel bolts, nuts, and washers. 4. Dielectric Connections: Union with galvanized or plated steel threaded end, copper solder end, water

impervious isolation barrier. Dielectric unions shall be used for joining ferrous and non-ferrous metals to prevent galvanic corrosion. B. Strainers: 1. Size 2 inches and Under: Threaded brass or iron body for 175 psig working pressure, Y pattern with 1/32 inch stainless steel perforated screen.

2. Size 2-1/2 inch to 4 inch: Flanged iron body for 175 psig working pressure, Y pattern with 3/64 inch stainless steel perforated screen.

1. Corrugated stainless steel hose with single layer of stainless steel exterior braiding, minimum 9 inches long with copper tube ends; for maximum working pressure 300 psig. 1. Install on all fixture branches having quick—closing valves and at the tops of all risers to prevent water

hammer. Each water hammer arrestor shall be sized and certified according to the Plumbing and Drainage Institute standard — WH201. 2.9 DRAINAGE FIXTURES A. Floor Drain (FD): Floor drain shall be epoxy coated cast iron drain with anchor flange, reversible clamping collar with primary and secondary weep holes, adjustable round nickel bronze strainer and no hub outlet.

2.10 CLEANOUTS (CO) A. Cleanouts shall be provided at the base of each stack, and at each change in direction greater than 45 less than 4" in larger pipe.

C. All cleanouts shall be made with a caulking cast ferrule having a cast brass cleanout screw plug, having a

degrees. Cleanouts shall be of the same nominal size as the connected pipe up to and including 4" and not B. The distance between cleanouts in horizontal soil and waste lines shall not be greater than 50 feet for pipes up to and including 3", 80 feet for lines 4" and larger.

raised nut not less than 1" high, except that cleanouts underground under floor slabs shall be extended through

the slabs, flush with the floor line, provided with countersunk caps. D. Basis of Design: J.R. Smith, according to the following table. Exposed piping, cast iron: 2. Exterior or unfinished area floors, cast iron: Finished ceramic or quarry tile floors: 4. Vinyl tile floors (recessed top for tile insert):

PART 3 EXECUTION 3.1 EXAMINATION A. Verify excavations are to required grade, dry, and not over—excavate.

6. Carpeted area floors (carpet cleanout markers): 4031-X

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe. B. Remove scale and dirt, on inside and outside piping before assembly.

C. Prepare piping connections to equipment with flanges or unions. 3.3 INSTALLATION - INSERTS A. Install inserts for placement in concrete forms.

5. All walls:

B. Install inserts for suspending hangers from reinforced concrete slabs and sides of reinforced concrete beams. C. Provide hooked rod to concrete reinforcement section for inserts carrying pipe over 4 inches. D. Where concrete slabs form finished ceiling, locate inserts flush with slab surface.

E. Where inserts are omitted, drill through concrete slab from below and provide through—bolt with recessed square steel plate and nut recessed into and grouted flush with slab. 3.4 INSTALLATION - PIPING SYSTEMS

A. Install dielectric connections wherever joining dissimilar metals. B. Label all piping with labels and directional flow arrows per 22 0001.

C. Install unions downstream of valves and at equipment or apparatus connections. D. Route piping parallel to building structure and maintain gradient.

E. Install piping to maintain headroom. Group piping to conserve space. Group piping whenever practical at common F. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment. G. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to

valves and fittings. H. Sleeve pipe passing through partitions, walls and floors.

l. Install piping system allowing clearance for installation of insulation and access to valves and fittings. J. Install identification on piping systems including underground piping. K. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work,

and isolating parts of completed system. 3.5 INSTALLATION - VALVES

A. Install valves with stems upright or horizontal, not inverted. B. Install ball or butterfly valves for shut—off and to isolate equipment, part of systems, or vertical risers. C. Install ball or butterfly valves for throttling, bypass, or manual flow control services.

D. Provide lug end butterfly valves adjacent to equipment when functioning to isolate equipment. E. Install spring loaded check valves on discharge of pumps.

F. Install plug valves for throttling service. Install non—lubricated plug valves only when shut—off or isolating valves G. Install 3/4 inch drain ball valves at main shut—off valves, low points of piping, bases of vertical risers, and

equipment drains. Pipe to nearest drain. 3.6 INSTALLATION - PIPING SPECIALTIES A. Install pressure gages with pulsation dampers. Provide ball valve to isolate each gage. Extend nipples and siphons to allow clearance from insulation.

B. Install thermometers in piping systems in sockets in short couplings. Enlarge pipes smaller than 2-1/2 inches for installation of thermometer sockets. Allow clearance from insulation. C. Install gages and thermometers in locations where they are easily read from normal operating level. Install vertical to 45 degrees off vertical.

D. Adjust gages and thermometers to final angle, clean windows and lenses, and calibrate to zero. E. Provide drain and hose connection with valve on strainer blow down connection. F. Test backflow preventers in accordance with ASSE.

3.7 INSTALLATION - PLUMBING SUPPLY PIPING

A. Install water piping in accordance with ASME B31.9. B. Insulate all domestic hot water (and recirculating) pipes and domestic cold water pipes per specs.

C. Establish elevations of buried piping outside the building to obtain not less than two (2) ft of cover. D. Provide support for utility meters in accordance with requirements of utility companies.

E. Slope water piping and arrange to drain at low points. F. Install piping from relief valves, back—flow preventers and drains to nearest drain. G. Install water hammer arrestors complete with accessible isolation valve on hot and cold water supply piping to lavatories, sinks, washing machine outlets, and other fixtures and equipment with quick acting valves.

by—pass valves, pressure reducing valve, and sand strainer. I. Install flow controls in water circulating systems as indicated on Drawings. J. Disinfecting of Domestic Water Systems: 1. Prior to starting, verify system is complete, flushed and clean. 2. Verify pH of water to be treated is between 7.4 and 7.6 by adding alkali (caustic soda or soda ash) or acid

H. Provide water service complete with approved reduced pressure back—flow preventer and water meter with

3. Inject disinfectant, free chlorine in liquid, powder and tablet or gas form, throughout system to obtain residual from 50 to 80 mg/L. 4. Bleed water from outlets to obtain distribution and test for disinfectant residual at minimum 15 percent of

5. Maintain disinfectant in system for 24 hours. 6. When final disinfectant residual tests less than 25 mg/L, repeat treatment. 7. Flush disinfectant from system until residual concentration is equal to incoming water or 1.0 mg/L. 8. Take samples no sooner than 24 hours after flushing, from 10 percent of outlets and from water entry, and analyze in accordance with AWWA C651.

3.8 INSTALLATION - PLUMBING DRAINAGE PIPING A. Install bell and spigot pipe with bell end upstream.

B. Extend cleanouts to finished floor or wall surface. Lubricate threaded cleanout plugs with mixture of graphite and linseed oil. Install with clearance at cleanout for rodding of drainage system. C. Encase exterior cleanouts in concrete flush with grade.

D. Install floor cleanouts at elevation to accommodate finished floor. E. Establish elevations of buried piping outside building to provide not less than 2 ft of cover. F. Install piping penetrating roofed areas to maintain integrity of roof assembly.

G. Establish invert elevations, slopes for drainage per plumbing plan notes. Maintain gradients. H. Test drainage piping in accordance with local code requirements. 3.9 INSTALLATION - PIPE HANGERS AND SUPPORTS A. Support horizontal piping as scheduled.

1. <u>Tankless gas domestic water heaters:</u> Navien, Rheem, Rinnai

B. Install hangers with minimum 1/2 inch space between finished covering and adjacent work. C. Place hangers within 12 inches of each horizontal elbow. D. Use hangers with 1-1/2 inch minimum vertical adjustment. E. Support horizontal cast iron pipe adjacent to each hub, with 5 feet maximum spacing between hangers.

F. Support vertical piping at every floor. Support vertical cast iron pipe at each floor at hub. G. Where piping is installed in parallel and at same elevation, provide multiple pipe or trapeze hangers. H. Design hangers for pipe movement without disengagement of supported pipe.

suspended ceiling spaces are not considered exposed. 3.10 SERVICE CONNECTIONS A. Install sanitary sewer services. Before commencing work check invert elevations required for sewer connections, confirm inverts and verify proper slope for drainage and proper cover to avoid freezing.

3.11PIPE CLEANING construction strainers are installed, remove and install permanent strainer. Remove and clean or replace other

I. Prime coat exposed steel hangers and supports. Hangers and supports located in crawl spaces, pipe shafts, and

A. Flush heating system hot water, and cooling system chilled water piping with clean water. Where temporary

SECTION 15400 MAJOR PLUMBING EQUIPMENT PART 1 GENERAL 1.1 GENERAL

PART 2 PRODUCTS

A. Section 15010 applies.

END OF SECTION

2.1 BASIS OF DESIGN A. Equipment and accessory brands and model numbers shown below are intended to establish minimum acceptable quality. Models deemed by the engineer to be of inferior quality as compared to the Basis of Design will not be accepted. Equivalent fixtures and accessories by the manufacturers noted below are acceptable unless noted

B. <u>GWH</u>: Domestic water heater shall be natural gas fired, tankless, condensing, wall mounted unit. Heater shall be direct vent and certified by CSA International to the latest edition of ANSI Z21.10.3/CSA 4.3. Heater shall have a 15 year limited heat exchanger warranty and a 5-year limited parts warranty. Heater shall be designed to burn natural gas and can use propane when a field conversion kit is installed. Water heater shall be vented with 2" PVC/CPVC vent pipe at a distance not to exceed 60' with each elbow equal to 8' of pipe length or 3" PVC/CPVC vent pipe at a distance of 150' (or equivalent) with each elbow equal to 5' of pipe length. Heater shall be rated for 150 psi working water pressure and 300 psi test pressure. Gas supply pressure shall be 3.5" to 10.5" WC for natural gas and 8.0" to 13.0" WC for propane. Heater shall have a steel case, dual stainless steel heat exhangers, eco premixed burner, negative pressure gas valve, dual venturi, 3/4" inlet gas connection, 3/4" brass inlet/outlet water connections, water holding capacity of 1 gallon, and a condensate collector. Unit shall include features such as an adjustment for installations at elevation, temperature lockout, and temperature adjustment options. Unit shall include an internal circulation pump and 0.5 gal buffer tank. The heater shall be controlled by an internal circuit board that monitors the inlet and outlet temperatures with installed thermistors, sensing and controlling flow rate to set pint temperature with air—fuel ratio controls in order to maintain thermal combustion efficienty. Heater shall include safety features such as flame sensor system, high limit sensors, overheat prevention device, freeze protection mode, and fan motor rotation detector. Multi-unit applications that require 2 to 16 units shall be installed by connecting the units using cable—only connections. 1. Basis of Design: Navien NPE-240A 2. Mounting: Wall mount per manufacturer's instructions. Combustion and flue run to wall to manufacturer's

horizontal wall termination kit. 3. Unit shall meet the thermal efficiency and standby loss requirements of the U. S. Department of Energy and Current Edition of ASHRAE/IESNA 90.1 and be design—certified by UL (Underwriters Laboratories) according to ANSI Z21 standards governing water heaters.

SECTION 15401 - PLUMBING FIXTURES

PART 1 GENERAL

END OF SECTION

1.1 GENERAL A. Section 15010 is applicable.

PART 2 PRODUCTS 2.1 BASIS OF DESIGN

A. Fixture and accessory brands and model numbers shown below are intended to establish minimum acceptable quality. Models deemed by the engineer to be of inferior quality as compared to the Basis of Design will not be accepted. Equivalent fixtures and accessories by the manufacturers noted below are acceptable unless noted

1. Fixtures: Toto, Kohler, Crane, American Standard 2. Sinks: Just, Moen, Kohler, Advance Tabco, Elkay, Toto

3. Faucets: Toto, Delta, Kohler, Zurn, Symmons, Moen 4. Supplies: Brasscraft, McGuire, ProFlo, Franklin Brass 5. Water Closet Seats: Kohler, Toto, American Standard, Proflo, Bemis, Beneke 6. Drinking Fountains: Elkay, Kohler

7. Fixture Carriers: J.R. Smith, Zurn, Josam 8. Floor drains: Watts, J.R. Smith, Josam, Zurn, Sioux Chief 9. Indirect drains: Watts, J.R. Smith, Josam, Zurn, Sioux Chief 10. Cleanouts: Watts, J.R. Smith, Josam, Zurn, Wade, Sioux Chief

12. Wall Hydrants: Josam, Woodford, Smith PART 3 PLUMBING FIXTURES:

A. FIXTURES ARE SCHEDULED ON THE PLANS.

11. Hose Bibbs: Woodford, Chicago, T&S Brass

PART 4 EXECUTION

A. Verify adjacent construction is ready to receive rough—in work of this section. Review millwork shop drawings. Confirm location and size of fixtures and openings before rough in and installation. If discrepancies exist

between millwork sizes and fixtures specified, contact Engineer for direction. B. All fixtures shall be installed straight, level, and plumb. When three or more of the same fixture are installed

adjacent to each other, use equal spacing between fixtures. C. All fixtures and equipment shall be installed with all accessories required for a complete and fully functional installation, regardless of whether all equipment and accessories are listed on the plans or in the specifications. D. All vitreous china fixtures shall be bright white in color unless otherwise noted. Faucets shall be polished

chrome unless otherwise noted. If these colors are unavailable, contact Engineer for approved alternatives.

G. All floors where floor drains are installed shall slope to drain, minimum 2%. This contractor shall

I. All pressure operated fixtures and equipment shall be furnished with water stops. Adjust stops or

. Install each fixture with chrome plated rigid or flexible supplies with screwdriver stops, reducers, and escutcheons. All water and drain piping exposed to view shall be chrome plated. Piping underneath counters with closing doors need not be chrome plated. F. All handicapped fixtures shall be installed according to ADA and local code requirements. All handicapped drains

coordinate with the applicable trades to ensure that the proper slope is achieved. H. Prime all floor drains. Where accessible, prime drain by water—saver trap primer from adjacent lavatory. Otherwise prime floor drain using water—valve type primer from domestic water supply. In lieu of water—based trap primers, PROVENT trap guards may be used where AHJ allows.

valves for intended water flow rate to fixtures without splashing, noise, or overflow. J. All hand washing fixtures shall have a delivered water temperature limit of 110 degrees F unless specified otherwise. This may be accomplished with a tempering valve at each device to maintain

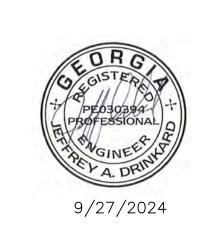
delivered temperature below 110 F. See plans for location of tempering valves as applicable. END OF SECTION



Quantity System Type & Description	on	
No minimum efficiency requi	rement applies	
Mechanical Compliance Staten	nent	
Compliance Statement: The proposed mer specifications, and other calculations subm	chanical design represented in this document is consiste hitted with this permit application. The proposed mechan d requirements in COMcheck Version COMcheckWeb and	nical systems have been
Jeff Drinkard	Jeff Drinkard (1997) 1998 July 1998	9/27/2024
Name - Title	Signature	Date
Project Title: Rockmart Event Pavilion		Report date: 09/27/24
Data filename:		Page 2 of 11



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CONSTRUCTION DRAWINGS CEVIAN DESIGN LAB JOB#

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SHEET TITLE PLUMBING **SPECIFICATIONS**

GENERAL HVAC NOTES

SPECIFICATIONS.

- ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE LOCAL CODE OFFICE'S LATEST APPROVED VERSION OF THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL BLDG. CODE, THE STATE ENERGY CODE, NFPA 54, NFPA 90A, 96, 101, UNDERWRITERS LABORATORIES AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES, EQUIPMENT LOCATIONS, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS OR CONFLICTS TO THE ARCHITECT.
- SUBMITTALS AND SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT AND MECHANICAL ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. THESE SHALL INCLUDE ALL EQUIPMENT SPECIFIED ON THE PLANS OR IN THE PROJECT
- 4. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS, AND ELECTRICAL PLANS AND SPECIFICATIONS. SEE SPECIFICATIONS FOR DESCRIPTION OF INTERFACE WITH DIVISION 16 WORK.
- ALL REQUIRED CONTROL WIRING NOT SHOWN ON ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
- UNLESS OTHERWISE NOTED, STARTERS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- INSTALL FIRE DAMPERS IN ALL RATED WALL, FLOOR, AND CEILING PENETRATIONS AS APPLICABLE. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED AREAS. PROVIDE ACCESS DOORS IN DUCT AT EACH FIRE DAMPER LOCATION. INSTALL SMOKE DAMPERS IN ALL DUCT PENETRATIONS THROUGH SMOKE RATED WALLS. WHERE DUCTS PENETRATE WALLS THAT CARRY BOTH SMOKE AND FIRE RATINGS, THE DAMPERS INSTALLED SHALL BE COMBINATION SMOKE AND FIRE DAMPERS. ALL DAMPERS SHALL BE U.L. 555 LABELED.
- FIRE ALARM CONTRACTOR SHALL PROVIDE SMOKE DETECTORS FOR THE SUPPLY AIR TRUNKS OF ALL HVAC EQUIPMENT SUPPLYING GREATER THAN 2000 CFM TO ANY SPACE. PER IMC 606, DUCT SMOKE DETECTORS SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM UPON ACTIVATION. PER IMC 606, DUCT SMOKE DETECTORS TO BE CONNECTED TO THE BUILDING FIRE ALARM PANEL AS APPLICABLE. IF THE OCCUPANCY DOES NOT REQUIRE A FIRE ALARM PANEL, THE ACTIVATION OF DUCT SMOKE DETECTORS SHALL ACTIVATE AN AUDIBLE AND VISIBLE SIGNAL IN AN APPROVED LOCATION. SIGNAL TO BE IDENTIFIED AS "AIR DUCT DETECTOR TROUBLE". HVAC UNITS MAY BE RESET AT FIRE ALARM PANEL.
- FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR ALL WIRING AND EQUIPMENT TO MONITOR SMOKE DETECTORS AND SHUT DOWN HVAC UNIT UPON SMOKE DETECTOR ACTIVATION. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT DETECTORS, AND MECHANICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING DETECTOR IN DUCT. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND OPERATION OF BUILDING FIRE ALARM SYSTEM.
- 10. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- SUPPLY, RETURN, EXHAUST, AND OUTDOOR AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AS RECOMMENDED IN SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS, LATEST EDITION. ALL JOINTS AND SEAMS IN SUPPLY AND RETURN SHEET METAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER TO SMACNA CLASS A, NO CLOTH DUCT TAPE IS ALLOWED.
- ALL SHEET METAL SUPPLY, RETURN, AND VENTILATION AIR DUCT WORK SHALL BE INSULATED WITH 2" THICK FIBERGLASS DUCT INSULATION WITH FOIL VAPOR BARRIER, U.L. LISTED, MINIMUM R-6 OR OTHERWISE AS REQUIRED BY LOCAL ENERGY CODES. USE R-8 IN ATTICS AND AREAS OUTSIDE THE INSULATION ENVELOPE. DUCTS OUTSIDE OF THE BUILDING ENVELOPE SHALL BE INSULATED WITH ASJ BOARD, R-8, AND WRAPPED WITH WEATHERPROOF COVERING. EXHAUST DUCT WORK SHALL BE INSULATED SAME AS SUPPLY DUCT WORK WITHIN 10' OF EXTERIOR WALL OR ROOF OPENING.
- ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH BAKELITE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND. NAMEPLATE SHALL SHOW EQUIPMENT TAG USED ON THESE DRAWINGS. ELECTRICAL DISCONNECTS FOR EQUIPMENT SHALL BE LABELED TO MATCH EQUIPMENT
- 14. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT HANG FROM OR REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND CONNECTION TO STRUCTURE SHALL BE AS PER SMACNA STANDARDS.
- 15. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE (U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT) OR EQUAL. PROVIDE THERMAFLEX M-KE R-6 (R-6 MINIMUM VALUE OR AS REQUIRED BY LOCAL ENERGY CODE) IN UNCONDITIONED SPACES. USE R-8 IN ATTICS AND AREAS OUTSIDE THE INSULATION ENVELOPE. AIR CONNECTORS ARE NOT ACCEPTABLE. SIZE TO MATCH DEVICE NECK, PROVIDE ROUND GALVANIZED STEEL DUCT RUN-OUTS TO PROVIDE A MAXIMUM FLEXIBLE DUCT LENGTH OF 5'-0". FLEXIBLE DUCTWORK SHALL BE ROUTED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS AS REQUIRED TO CONNECT TO AIR DEVICE NECK.
- 16. BRANCH RUN-OUT DUCTS SHALL BE SAME SIZE AS DIFFUSER NECK IF NOT NOTED OTHERWISE.
- 17. SHEET METAL DUCTWORK SHOWN AS BEING INTERNALLY LINED SHALL BE LINED WITH 1" THICK, 3 LB/CUFT. DENSITY DUCT LINER, MINIMUM R-4 OR AS REQUIRED BY APPLICABLE ENERGY CODE, CERTAINTEED "TOUGHGARD" OR EQUAL BY JOHNS-MANVILLE OR KNAUF. LINE ALL DUCTWORK A MINIMUM OF 15'-0" DOWNSTREAM AND UPSTREAM (WHERE POSSIBLE) OF ALL AIR HANDLING UNITS, FAN COIL UNITS, AND TERMINAL UNITS. LEADING EDGE OF INSULATION SHALL HAVE SHEET METAL NOSING. DUCT THAT IS INTERNALLY INSULATED SHALL BE EXTERNALLY INSULATED AS WELL.
- 18. DUCTWORK DIMENSIONS SHOWN ON DRAWING ARE INSIDE CLEAR DIMENSIONS. CONRACTOR SHALL ADJUST TOTAL DUCT WORK DIMENSIONS TO ACHIEVE SHOWN INSIDE CLEAR DIMENSIONS.
- DUCTWORK AND EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE AND ROUTE DUCTWORK TO MEET JOB REQUIREMENTS. LOCATION OF EQUIPMENT MUST BE COORDINATED WITH ALL DISCIPLINES BEFORE FINAL LOCATIONS ARE SELECTED. WEIGHTS OF EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH STRUCTURAL SYSTEMS MANAGERS BEFORE EQUIPMENT CAN BE MOVED INTO LOCATION OR INSTALLED.
- 20. ALL CONDENSATE DRAIN LINES FROM HVAC EQUIPMENT LOCATED INSIDE THE BUILDING SHALL BE TRAPPED AND SHALL DRAIN INTO BUILDING FLOOR DRAINS, ROOF DRAINS, OR STORM DRAINS. CONDENSATE SHALL BE INSULATED SCHEDULE 40 PVC (EXCEPT INSULATED TYPE L COPPER IN HVAC PLENUMS). CONDENSTATE SHALL BE PUMPED AS REQUIRED.
- 21. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE, AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPE HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORD OF JOISTS.
- 22. ALL PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRESTOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE MANUFACTURED BY 3M COMPANY, CP25 CAULK, CP195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYTEMS AS RECOMMENDED BY MFG. FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.
- 23. ANY WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THIS WORK SHALL BE REPAIRED TO EXISTING OR LIKE-NEW CONDITION.
- OUTSIDE HARDWARE FOR EXHAUST FANS SHALL BE PLACED IN A LOCATION SUITABLE TO OWNER. CONTRACTOR SHALL COORDINATE PLACEMENT WITH OWNER BEFORE FINAL INSTALLATION. OUTSIDE HARDWARE FOR EXHAUST FANS AND FRESH AIR INTAKES SHOULD BE CONSTRUCTED SO AS TO BE WEATHERTIGHT AND SHOULD INCLUDE INTEGRAL INSECT SCREENS.
- 25. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
- 26. CONTRACTOR MAY SUBSTITUTE EQUIVALENT ROUND DUCT FOR RECTANGULAR AS REQ'D.
- 35. CONTRACTOR SHALL HAVE A THOROUGH COORDINATION AND CONSTRUCTABILITY MEETING WITH ALL JOB TRADES BEFORE FINAL PRICING/BUDGETING OR PURCHASING ANY EQUIPMENT, AND ENGINEER SHALL BE NOTIFIED BEFORE FINAL PRICING/BUDGETING OR PURCHASING ANY EQUIPMENT OF CONFLICTS. DISCREPANCIES, OR OTHER ISSUES THAT MAY INCREASE PROJECT COST SO THAT ISSUES MAY BE RESOLVED BEFORE PRICING. THESE PLANS WERE DEVELOPED BASED ON THE ARCHITECTURAL PLANS AVAILABLE AT THE TIME OF DESIGN, AND ARE DIAGRAMMATIC IN NATURE.
- 36. ANY SERVICEABLE ROOF MOUNTED MECHANICAL EQUIPMENT SHALL BE LOCATED A MINIMUM OF 10'-0" FROM THE EDGE OF THE ROOF.

			MINI-	SPLIT F	HEAT P	UMP U	NIT SC	HEDUL	E					
DAGIO OF DEGICAL	NOM.		SUPPL	Y FAN		COOLING COIL (MBH)			ING COIL	(MBH)	SFFR/	BASE	DOWED	NOTES
BASIS OF DESIGN	TONS	CFM	MIN. O.A. CFM	ESP (IN.)	FAN HP	TC/SC	EAT (F)	TH @ 47F	EAT	AUX. ELEC. HEAT (KW)	HSPF	(LBS)	POWER	NOTES
MITSUBISHI PUZ-A18NKA7/ PKA-A18LA1	1.5	375	_	0.2	30 W	18/13.1	75/63	19	70	_	20.2/9.2	100/28	DIV. 16	1-4
MITSUBISHI PUZ-A18NKA7/ PKA-A18LA1	1.5	375	_	0.2	30 W	18/13.1	75/63	19	70	_	20.2/9.2	100/28	DIV. 16	1-4
MITSUBISHI PUZ-A18NKA7/ PKA-A18LA1	1.5	375	_	0.2	30 W	18/13.1	75/63	19	70	_	20.2/9.2	100/28	DIV. 16	1-4
MITSUBISHI PUZ-A12NKA7/ PKA-A12LA1	1	375	_	0.2	30 W	12/10.5	75/63	14	70	_	21.3/10.2	93/28	DIV. 16	1-4
MITSUBISHI PUZ-A12NKA7/ PKA-A12LA1	1	375	_	0.2	30 W	12/10.5	75/63	14	70	_	21.3/10.2	93/28	DIV. 16	1-4
MITSUBISHI PUZ-A24NHA7/ PKA-A24KA8	2	700	_	0.2	69 W	24/18	75/63	26	70	_	21.3/9.3	153/46	DIV. 16	1-4
	PKA-A18LA1 MITSUBISHI PUZ-A18NKA7/ PKA-A18LA1 MITSUBISHI PUZ-A18NKA7/ PKA-A18LA1 MITSUBISHI PUZ-A12NKA7/ PKA-A12LA1 MITSUBISHI PUZ-A12NKA7/ PKA-A12LA1 MITSUBISHI PUZ-A24NHA7/	MITSUBISHI PUZ-A18NKA7/ 1.5 MITSUBISHI PUZ-A18NKA7/ 1.5 MITSUBISHI PUZ-A18NKA7/ 1.5 MITSUBISHI PUZ-A18NKA7/ 1.5 PKA-A18LA1 MITSUBISHI PUZ-A12NKA7/ 1 PKA-A12LA1 MITSUBISHI PUZ-A12NKA7/ 1 MITSUBISHI PUZ-A12NKA7/ 2	MITSUBISHI PUZ—A18NKA7/ PKA—A18LA1 MITSUBISHI PUZ—A18NKA7/ PKA—A18LA1 MITSUBISHI PUZ—A18NKA7/ PKA—A18LA1 MITSUBISHI PUZ—A18NKA7/ PKA—A18LA1 MITSUBISHI PUZ—A12NKA7/ PKA—A12LA1 MITSUBISHI PUZ—A12NKA7/ PKA—A12LA1 MITSUBISHI PUZ—A12NKA7/ PKA—A12LA1 MITSUBISHI PUZ—A24NHA7/ MITSUBISHI PUZ—A24NHA7/ 2 700	NOM. TONS NOM. CFM MIN. O.A. CFM C	NOM. TONS SUPPLY FAN	NOM. TONS SUPPLY FAN	SUPPLY FAN COOLING C	NOM. TONS SUPPLY FAN COOLING COIL (MBH)	NOM: TONS SUPPLY FAN COOLING COIL (MBH) HEAT	BASIS OF DESIGN NOM. TONS CFM MIN. O.A. ESP (IN.) FAN HP TC/SC EAT (F) TH @ 47F EAT	NOM. TONS NOM. TONS SUPPLY FAN COOLING COIL (MBH) HEATING COIL (MBH)	SUPPLY FAN COOLING COIL (MBH) HEATING COIL (MBH) HEATING COIL (MBH) SEER / HSPF HSPF	NOM. TONS NOM. TONS SUPPLY FAN COOLING COIL (MBH) HEATING COIL (MBH) SEER/ HSPF UNIT WT. (LBS)	BASIS OF DESIGN NOM. TONS CFM MIN. O.A. ESP (IN.) FAN HP TC/SC EAT (F) TH @ 47F EAT AUX. ELEC. HEAT (KW) HEATING COIL (MBH) SEER/ HSPF HINT WIT. (LBS) HINT WIT. (LBS)

- ACCEPTABLE MANUFACTURERS: MITSUBISHI, CARRIER, TRANE. EXTERNAL STATIC PRESSURE CALCULATION ACCOUNTS FOR DUCT SYSTEM AND GRILLES
- ONLY. IT DOES NOT ACCOUNT FOR FILTERS, COILS, HEAT EXCHANGERS, OR ELECTRIC HEATERS, OR OTHER EQUIPMENT INSIDE THE UNIT.
- LOW AMBIENT CONTROL CAPABILITY. 4. 7-DAY WIRED PROGRAMMABLE THERMOSTAT.

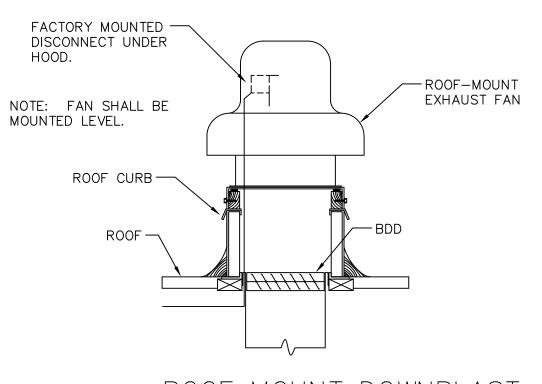
	EXHAUST FAN SCHEDULE											
TAG	BASIS OF DESIGN	CFM	E.S.P.	WEIGHT (LBS)	INLET SONES	OPER. PWR.	PWR	CONTROL	NOTES			
EF-1	GREENHECK G-070-VG	280	0.15	36	5.5	.03 BHP	SEE DIV. 16	INTERLOCK W/ LIGHTS	1-5			
EF-2	GREENHECK G-070-VG	280	0.15	36	5.5	.03 BHP	SEE DIV. 16	INTERLOCK W/ LIGHTS	1-5			

5. VIBRATION ISOLATORS

ACCEPTABLE MANUFACTURERS: GREENHECK, COOK, PENBARRY. OUTSIDE HARDWARE FOR EXHAUST FANS SHOULD BE CONSTRUCTED SO AS TO BE WEATHERTIGHT. SPEED CONTROLLER BACKDRAFT DAMPER

	AIR DISTRIBUTION EQUIPMENT SCHEDULE	
TAG	DESCRIPTION	NOTES
С	1/2"X1/2"X1/2" ALUMINUM EGG CRATE RETURN GRILLE, LAY—IN FRAME, 12X12 SIZE, PLENUM TYPE OR ROUND DUCT CONN. NECK AS SHOWN, PRICE 80.	1

1. VERIFY MOUNTING TYPE WITH ARCHITECTURAL RCP.





THERMOSTAT - COORD. -

NOTE: DOOR SHOWN

THERMOSTAT MAY OR

LOCATED NEAR DOOR.

FOR PERSPECTIVE -

MAY NOT BE

SYMMETRY WITH ELEC.

APPURTENANCES AS

APPLICABLE.

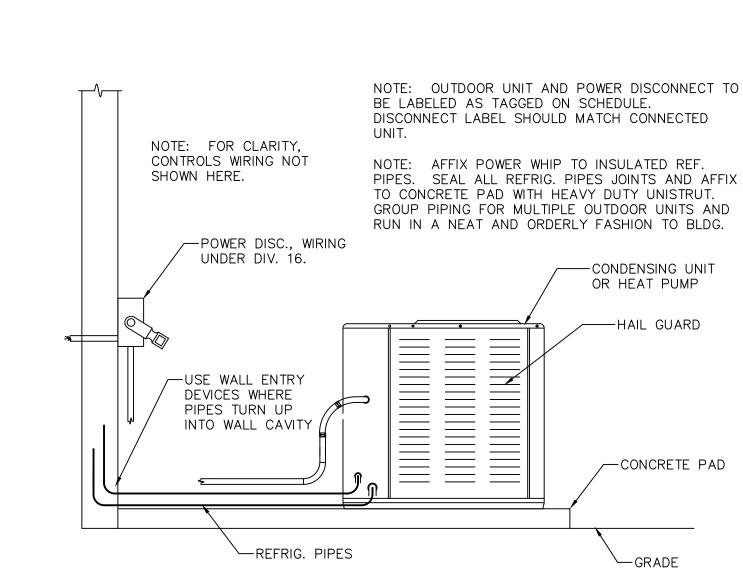
8" MIN. CLEARANCE TO DOOR FRAME

(OR MOULDING) AS APPLICABLE

∕—DOOR

/—FINISHED

FLOOR



INDOOR FAN COIL-

UNIT-WALL TYPE

REF. PIPES TO OUTDOOR

CEILING

─ INSULATED

PIPE

CONDENSATE

UNIT, TYP.



CEVIAN DESIGN LAB, LL ARCHITECT 207 E. 5TH AVENUE PO BOX 35, ROME, GA 30162 706 . 383 . 1043 WWW.CEVIANDESIGN.COM



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REVISION#	DATE / COMMENTS

**CONSTRUCTION DRAWINGS** 

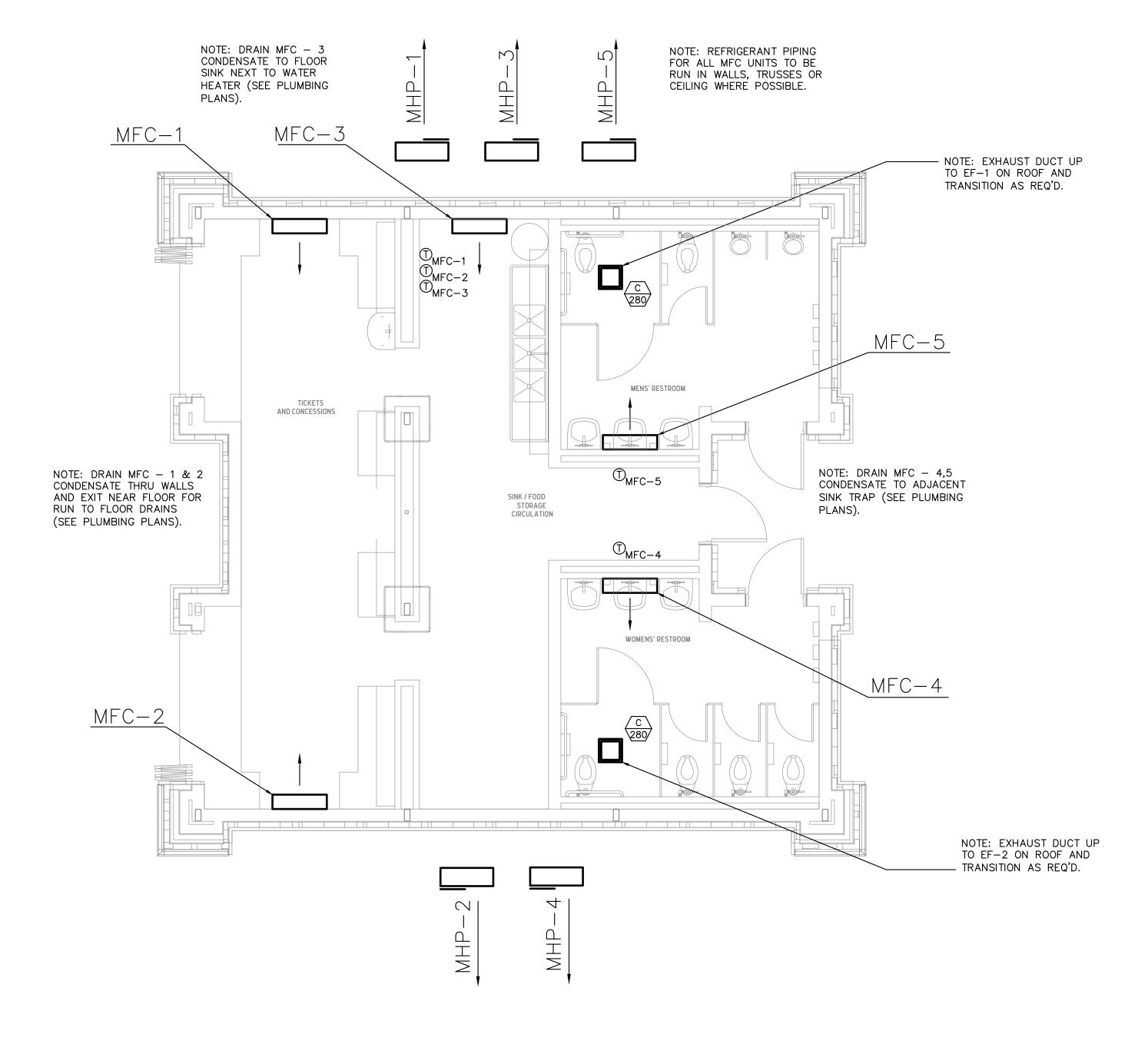
CEVIAN DESIGN LAB JOB# 15054 **CEVIAN DESIGN LAB, LLC** 

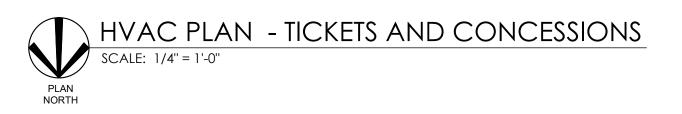
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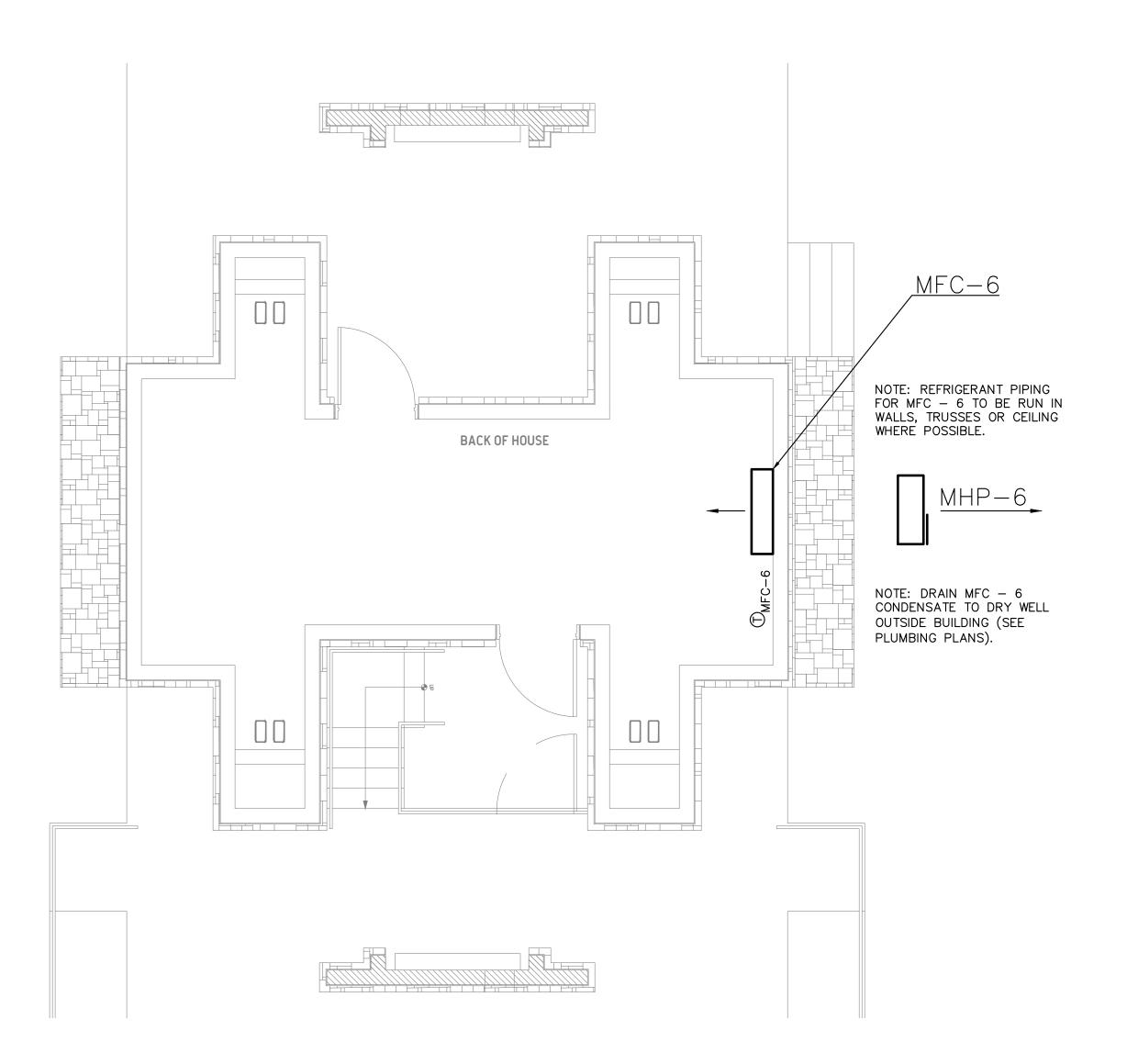
HVAC NOTES, LEGEND & SCHEDULES

ISSUED DATE

SHEET TITLE











CEVIAN DESIGN LAB, LLC
ARCHITECT
207 E. 5TH AVENUE
PO BOX 35, ROME, GA 30162
706 . 383 . 1043 WWW.CEVIANDESIGN.COM





### ENTE DATE / COMMENTS REVISION #

**CONSTRUCTION DRAWINGS** 

CEVIAN DESIGN LAB JOB # 15054

ISSUED BY

CEVIAN DESIGN LAB, LLC ISSUED DATE

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SHEET TITLE HVAC PLAN

M1-1

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SECTION 15010 - MECHANICAL GENERAL
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PART 1 GENERAL

- 1.1 GENERAL REQUIREMENTS A. Specification: This specification is intended to cover all portions of this building. B. Reference Codes: This installation shall comply with the following codes and
- regulations, along with all Georgia amendments. 1. Current Georgia State Minimum Standard Mechanical Code. 2. Current NFPA No. 90A Installation of Air Conditioning and Ventilation Systems.
- 3. Current Georgia State Minimum standard Plumbing Code.
- 4. Current Georgia State Minimum Standard Gas Code. 5. Current NFPA #54 National Fuel Gas Code. 6. Current Georgia State Minimum Standard Gas Code.
- 7. Current NFPA No.70, National Electric Code.
- 8. Current Georgia State Minimum Life Safety Code. 9. Current Georgia State Minimum Standard Fire Prevention Code.
- 10. Current Georgia State Energy Code for Buildings C. Reference Standards: This installation shall comply with the following standards.
- 1. Manufacturers Standardization Society of the Valve and fittings Industry (1815 North Ft. Meyer Drive, Arlington, VA 22209). MSS-SP-58-2002, called MSS-SP-58. MSS-SP-69-2003, called MSS-SP-69. 2. American Society of Heating and Ventilating and Air Conditioning Engineers Guide,
- Fundamentals, 2009 Edition. 3. Sheet Metal and Air Conditioning Contractor National Association (SMACNA) HVAC Duct Construction Standards, Metal & Flexible, 2005 Edition. Fire, Smoke and Radiation Damper Installation Guide for HVAC Systems. 1986 Edition. Seismic Restraint Manual
- Guidelines for Mechanical Systems, Second Edition. 4. American Society of Sanitary Engineers (ASSE) Standard, Latest Edition. 5. North American Insulation Manufacturers Association (NAIMA) Fibrous Glass Duct
- Construction Standards. 1.2 REGULATIONS A. Attention is called to the fact that all work shall be done in accordance with all
- applicable City, County and State regulations, which regulations shall be considered as minimum requirements, and shall not alter the arrangement and pipe sizes indicated on the plans, except where they conflict.
- B. Contractor is responsible for obtaining all permits and paying all fees required to complete the Work 1.3 DRAWINGS
- A. The work is shown on the project drawings and specifications. 1.4 PROTECTION OF PUBLIC
- A. If the contractor must operate any potentially dangerous devices before all specified safety valves controls and devices are installed, he shall notify the Architect in writing. He shall not operate such devices under these conditions until arrangements for supervision by competent operators have been instituted and Architect's written approval has been
- 1.5 EXCAVATION, SHORING AND BRACING A. Excavate and back—fill for the installation of all underground work.
- B. Provide all shoring and bracing to prevent cave—ins during the construction period. 1.6 SHOP DRAWINGS
- A. Shop drawings shall be submitted for but not limited to the following items: 1. All Scheduled Equipment
- 2. Ductwork & Accessories 3. Hangers
- 4. Piping & Accessories 5. Supports
- 6. Vibration Isolation 7. Fixtures
- 8. Roof Portals 9. Control System 10. Duct Systems
- 11. Equipment Curbs 12. Insulation
- 13. Filters 14. Access Panels 15. Louvers
- 16. Refrigerant Pipe Sizes B. Provide with the submittal package the proposed Test & Balance Company's credentials as described in Section 15950. Include a latter from the Test & Balance
- company indicating that they have read Section 15950 and will perform testing and balancing of the mechanical systems as described in that Section. C. Provide a complete list of all accessories and options (indicate factory or field installed) for all scheduled mechanical equipment, including air distribution devices. Provide
- manufacturer generated specifications and ratings sheets for each individual piece of air conditioning and heating equipment. Generic photocopies from manufacturers catalog will not be accepted. D. In addition to cut sheets, provide a summary sheet indicating exactly what pipe
- material joining methods, valves, etc. will be provided in the various piping systems. E. The Contractor shall produce ¼" scale CAD—generated ductwork and piping shop drawing for every area of the building. Contractor shall coordinate all new mechanical systems with other Divisions, specifically including piping, lights, the building structure, and ceiling heights. It shall be the Contractor's responsibility to ensure that the mechanical work is coordinated with all other trades. The shop drawings submitted shall reflect this coordination in its entirety, including location of piping 2" and larger, all ductwork (except runouts to diffusers), and all equipment by dimensions to column lines. Bottom of duct and bottom of pipe dimensions shall be taken from finished floor, and shall be recorded on the shop drawings for review. Any interferences or conflicts not resolved during normal shop drawing coordination between trades shall be specifically noted to the Architect for his instructions. Conflicts arising out of work installed (or ductwork already fabricated) without shop drawings or shop drawings that have no been completely coordinated, shall
- F. The Contract Drawings are diagrammatic and indicated generally the size and location of ductwork and equipment. While duct sizes shall not be decreased, it is recognized that job site conditions may require re—routing or re—sizing of ductwork, and the Contractor shall be responsible for this coordination. Ductwork that has to be re—sized and/or re-routed as a result of this coordination effort shall be the Contractor's responsibility and at his expense. Ductwork re—sized shall be equivalent to that shown on the drawings. G. Steel fabrication shop drawings shall be coordinated with all Division 15 equipment and

be the Contractor's responsibility and at his expense for any necessary changes.

submitted with associated equipment and roof curbs. H. Division 15 shall coordinate with structural steel contractors to insure where ductwork is required to be routed within joist space that an alternate to x bracing is installed. Failure to coordinate shall subject the Contractor to full cost incurred to meet the design intact on the contract documents.

roof openings. The resulting coordination shall be confirmed and verification shall be

- 1.7 MOTORS, WIRING AND ELECTRICAL EQUIPMENT A. All motors required for this work shall be built in accordance with the latest standards of National Electrical Manufacturer's Association, and shall be especially designed for quiet operation. All motors shall be selected for operation within their nameplate amperage. Adjustable bases shall be provided with motors and equipment which have belt drives.
- B. All electrical materials shall comply with requirements of the National Electric Code. All contactors, starters, relays and panels used in this work, which are included in Underwriters Label Service, shall be new and bear the National Board of Fire Underwriters inspection label. Material not included in Underwriters Label service shall be new and conform to NEMA or other applicable industry standard.
- C. Division 16, ELECTRICAL, provides for the furnishing of conduit and wire from electrical source to electrical use, called "path of power," and for the installation of certain line voltage devices specified in Division 15 which lie in the "path of power," including but not

- 1. Manual switches. 2. Line voltage thermostats. 3. Solid state speed controllers.
- 5. Aquastats for domestic hot water circulating pumps. 6. Alarms for Flow Switches and Valve Supervisor Switches.
- D. The "path of power" terminates at contactors or control panels of the following listed items of equipment. These control panels contain starters/contactors for the motors or heaters installed on or within the unit and are specifies in Division 15. Any wiring past the point of termination described above is Division 15 work. 1. Packaged Rooftop Units.
- 2. Domestic Water Heaters. 3. Make—up Air Units. 4. Condensing and/or Heat Pump Units.

4. Operators for operable dampers.

- 5. Fan Coil Units. 6. Ductless Split Systems.
- 7. Electric Heaters.
- E. Division 16, ELECTRICAL, provides for electrical power to any given item of equipment at the voltage and phase required by the primary use only. If the item of equipment contains devices such as fans, thermostats, motorized dampers or other controls which require other than primary voltage for their proper function, then transformers shall be furnished under Division 15 for that purpose.
- F. Voltage and phase for Division 15 equipment shall be as specified by Division 16. Division 15 Contractor shall submit a list of all mechanical equipment requiring electrical connections to the Contractor prior to release of any equipment, for coordination with the Division 16 contractor. A copy of this list that has been reviewed and approved by the General Contractor shall be submitted to the Architect with the submittal for mechanical equipment. Failure to include this list may result in the rejection of the entire mechanical
- equipment submittal. G. The control power source (point of connection for control power) for major equipment except those single phase fans which are thermostatically controlled and those items
- listed in C above, are provided at the combination starters. H. The automatic control of signal for STOP—START of major equipment is furnished and installed to and from combination starts as part of Division 15.
- I. All other conduit and wire, not in "path of power" described above is included in Division
- J.If any Division's Contractor makes a change by submittal, by delivery, by wiring rearrangement or power requirements, which results in increased costs, the Contractor initiating the change shall bear all cost increases.
- K. All motors that are 1 HP and larger shall be high efficiency motors with nominal and minimum full load efficiencies equal to or greater than those specified by the State
- Energy Code. Specifications shall be submitted for each motor furnished. L. Starters or contractors shall be furnished in Division 15 for each motor.
- 1. Magnetic starters shall be NEMA standard sizes adequate for the load served, Size 00, 1, 2, 3, 4. Half sizes and/or quarter sizes are not acceptable.
- 2. Overload relays shall be unit constructed, hand reset melting alloy type, and shall be provided for all ungrounded legs. 3. Units shall have NEMA-1 enclosures, three thermal overloads in three-phase starts, HAND-OFF-AUTO switches as required by the "controls" specification section.
- 4. All fractional HP single—phase motors shall have internal thermal overload protection except where starters are scheduled. 5. All motor starters shall be of the same manufacturer and shall be General Electric Type CR-306, or equal by Square-D, Westinghouse, Allen-Bradley, Furnas, Siemens, or
- Cutler—Hammer subject to full compliance with all criteria. M. Where power wiring to Division 15 equipment is not within the equipment curb, roof curb and boots shall be provided under Division 16. The portal location shall be coordinated with Division 15 equipment power inlet requirements, and located not to block access for equipment servicing.
- 1.8 ACCESS PANELS A. Shall be provided to permit operation of concealed valves, dampers, or equipment. The following table lists types of Bilco access frames and doors. Panels of equivalent construction by Titus, Milcor, Hohmann, and Barnard or Zurn are acceptable.
- B. Wall: 1. Sheetrock Style G Plaster Style A 3. Masonry Style C
- C. Ceiling: 1. Sheetrock Style G
- Plaster Style A 3. Concealed spline Style D
- 4. Lay—in tile None D. Fire Rated Wall or CeilingStyle F (U.L Listed)
- E. Sizes shall be: Small valves 12" x 12". Multiple valves and dampers 24" x 24"
- F. Access panels shall be insulated for sound barrier equal to wall in which it is installed. G. Acoustical Tile: Coordinate with tile installed to provide a removal tile at access point. Install a colored thumb tack to mark the access panel of above ceiling equipment, control instrument, valves or relay.
- 1.9 WARRANTY A. The Contractor shall operate the air conditioning, heating and ventilating systems and plumbing systems for a period of one week to the satisfaction of the Architect. Thereafter, the Contractor shall guarantee and be responsible for all materials and workmanship (parts and labor) for a period of one (1) year following the date of
- acceptance by the Architect. B. The Contractor shall also provide maintenance for the one (1) year period by providing four (4) periodic inspections at approximately three—month intervals, which shall include
- the following. 1. Check all bearing, align and oil or grease.
- 2. Check belt tensions and pulley adjustment and adjust as necessary. 3. Check filters and advise Owner when change is necessary.
- 4. Check refrigerant charges and oil levels and replenish as necessary. 5. Check and re-calibrate controls as necessary. Any required maintenance for the above shall be performed and materials needed shall be furnished by the Contractor. Not included in the materials to be furnished by the Contractor are fuel, electricity, water and filters. Provide the Owner with four (4) copies
- D. Water heaters shall be guaranteed for five years; parts and labor.

of the inspection reports indicating all items checked and adjustment or repairs

- E. All equipment compressors shall be guaranteed for five years; parts and labor. 1.10 CUTTING AND PATCHING A. The Contractor shall set sleeves for pipes, ducts and equipment accurately before the concrete walls and floors are poured.
- B. Should the contractor neglect to perform this preliminary work and should cutting and patching be required in order to install the piping, ductwork or equipment, then the expense of the cutting and restoring of surfaces to their original condition shall be borne by the Contractor.
- 1.11 BASIS OF DESIGN A. When brand, trade or manufacturer's names are used for basis of design, they are used in the interest of brevity to describe the style, type, size, quality or arrangement of articles of equipment and are not intended to limit competition. If articles of equipment by manufacturers other than basis of design are submitted for installation, the Architect shall compare them with specified articles of equipment on basis of qualities mentioned. The size, weight and arrangement of other equipment shall be checked by the Contractor to ascertain that it can be installed, connected, operated, and serviced successfully, and that walking space and service space can be maintained without altering equipment space

or enclosures or the work of other trades. Manufacturers not listed as "Acceptable

Manufacturers" will not be considered.

- B. If any Division's Contractor makes a change by submittal, by delivery or by wiring rearrangement which results in increased costs, the Contractor initiating the change shall bear all cost increases.
- 1.12 AS-BUILT DRAWINGS A. Per the Georgia State energy Code, the Contractor shall produce and submit to the Architect, "As—Built" drawings, four (4) copies, as described below.
- B. As work progresses, neatly and clearly record on four (4) sets of mechanical plans (in red) all changes and deviations from the contract drawings in size, locations, etc., of all piping, ductwork terminal units and other equipment. Record (in red) final location of piping, ductwork, starts, valves, thermostats, etc., by dimensions to adjacent walls and floors. Make sufficient measurement to accurately locate all equipment. Locate
- underground lines by dimension from building walls. 1.13 OPERATION AND MAINTENANCE MANUALS
- A. Operation and Maintenance manuals (6 sets) shall be provided to the Owner or the Owners designated representative. Manuals shall be in accordance with the Georgia State Energy Code for Buildings.
- 1. Manuals shall include as a minimum the following: a. Final, corrected submittal data with equipment sizes and selected options for each piece of equipment, including Engineer's submittal review comments. b.Current manufacturer's published operation and maintenance manuals for each piece of
- c.Name, address and phone number of at least one LOCAL service agency. d.HVAC controls system maintenance and calibration information including wiring diagrams, schematics, and control drawings.
- e.Complete narrative of how each system is intended to operate, including suggested set-points. f. Copy of the final Test & Balance report.
- h.Controls certification letter. i. Copy of Engineer's final punch list items, with each item checked off when completed or an explanation of why the item was not completed. 1.14 INTERFACES WITH OTHER WORK
- A. There are many interfaces between the work involved with Division 15 and the work involved with other Sections and Divisions, particularly with Division 16. Contractor shall be aware of the requirements of these other Sections or Divisions and his responsibilities at the interfaces.
- B. No mechanical equipment, piping, or ductwork shall be places within 42" of switchboards and/or panel boards. C. No water piping (domestic, storm, sanitary, etc., except sprinkler piping when required) shall be located above electrical switchboards and/or panel boards. When sprinklers are
- required, shields must be provided over the panels. 1.15 EQUIPMENT IDENTIFICATION

g.Copy of the final As-built drawings.

- A. Equipment Identification: 1. All mechanical equipment shall be labeled with Bakelite nameplates with 2" high white letters on a black background, securely affixed to equipment for outdoor or indoor
- 2. Equipment Identification numbers shall be the same as those scheduled on the design drawings. Identification shall be located where it can be conveniently read, and shall be located in the same relative position on like equipment.

3. In addition to the above ID tags, all scheduled equipment shall be provided with

- permanent factory installed engraved nameplate labels listing complete model and serial numbers, unit voltage, motor sizes, etc. 4. Identify all disconnect switches that are not directly attached to the equipment that they serve, with identical ID tags as specified above for the equipment.
- 1.16 PIPE IDENTIFICATION A. All piping systems shall be identified.
- 1. All piping systems within the building except as noted herein shall be identified with clear block letters and number stenciled on the outside surface of the pipe or insulation, indicating the system contents by abbreviated letters and direction of the 2. This identification marking shall be applied to the pipe systems where pipe enters or
- leaves a wall or floor, and item of equipment such as pumps, fan coil units and tanks, and at tees. Identification shall be applied no less than 50 feet apart on horizontal pipe; and one identification per floor on vertical pipe.
- 3. Letters and numbers shall be high on pipe 2" and smaller. 4. Letters and numbers shall be 1" high on pipe 3" and larger. 5. Directional arrows shall be 4" long and "wide.
- 6. Letters and numbers shall be black on white pipe or insulation. 7. Letters and number shall be white on dark pipe or insulation.
- 8. Pipe identification symbols shall be the same as shown on the drawings. 9. Soil, vent and refrigerant piping shall not be identified.
- 1.17 PERMITS AND INSPECTIONS A. The Contractor shall secure and pay for all permits, fees, inspections, and utility
- B. BOILER TEST CERTIFICATES: It shall be the Contractor's responsibility to have each boiler, large (greater than 120 gallon capacity) water heater, and pressure vessel inspected by a State of Georgia certified inspector upon installation. Each inspection report shall be
- submitted to the Georgia Department of Labor, Safety Engineering Section, 1700 Century Circle, Atlanta, Georgia 30345 to the attention of Direction of Engineering, PLUS a copy of each report transmitted to the Architect. ONE additional copy of each report shall be included in EACH of the FOUR Close—Out Manuals.
- 1.18 EQUIPMENT & MATERIAL PROTECTION A. All equipment and material shall be kept clean and free of debris as construction progresses. Closures shall be provided over duct, piping and major equipment openings during storage, erection and prior to connection. Material finishes shall be protected by covers to prevent impingement of corrosive, abrasive and disfiguring foreign matter. Accidental finish damage shall be repaired equivalent to original finish.
- 1.19 TEST, BALANCE AND REPORT A. See Section 15950.

prior approval of the Owner or Architect.

- 1.20 PROHIBITED MATERIALS A. All products, materials or assemblies which contain asbestos or polychlorinated biphenyl (PCB) in any form or in any concentration whatsoever, are expressly forbidden from being used on this project.
- 1.21 SITE VISIT AND FAMILIARIZATION A. Contractors 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, examine the drawings and specifications as related to the site conditions, and acquaint themselves with the utility companies from whom services will be supplied; verify locations of utility services and determine requirements for connections.

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 all items and conditions specified, indicated on the drawings, and/or required by nature of the site. C. Attention is called to the fact that this scope of work includes renovation to an existed facility and/or an addition to an existing building. When the work is finished, the mechanical systems shall be complete in every respect, and completely integrated with all affected mechanical and control systems.
- 1.22 DISINFECTION AND TESTING OF WATER SYSTEM A. Sanitize plumbing potable water systems after cleaning and pressure tests, with chlorinated potable water solution to 200 ppm chlorine residual after 24—hours minimum, then flushed with fresh potable water until effluent chlorine content does not exceed make—up. Water samples shall be sent to Local Health Department (LHP) for testing. A letter of approval must be obtained from the LHD before the system is put into service.

B. All domestic water piping shall be disinfected with chlorine before it is placed into

D. Existing mechanical systems in the existing facility shall not be interrupted without

operation. The chlorinating material shall be liquid chlorine conforming to Federal Specification BB-C-120 and shall be introduced to the system by experienced operators only. The chlorine solution applied to the piping sections or system shall contain at least fifty (50) parts per million of available chlorine and shall remain in the sections or system for a period of not less than sixteen (16) hours. During the disinfection period all valves shall be opened and closed at least four (4) times. After the disinfection period, the chlorinated water shall be flushed from the system with clear water until the residual chlorine content is not greater than two—tenths parts per million (0.2PPM). Submit certification to the Architect and Owner that the system was disinfected. END OF SECTION



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HVAC SPECIFICATIONS

SHEET TITLE

**ISSUED DATE** 

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SECTION 15700 - HVAC INSULATION
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### PART 1 GENERAL

A. Section 15010 applies.

### PART 2 PRODUCTS

1.1 GENERAL

### 2.1 BASIS OF DESIGN

- A. Manufacturers shown below as Basis of Design 1. Acceptable Manufacturers for Glass Fiber and Mineral Fiber Insulation Products: CertainTeed, Knauf, Johns Manville, Owens—Corning. 2. Acceptable Manufacturers for Closed Cell Elastomeric Insulation Products: Aeroflex Aerocell, Armacell Armaflex, Nomaco K-flex.
- 2.2 DUCT INSULATION A. Supply, Return, Exhaust, and Outdoor Ventilation Ducts
- 1. Duct liner: ASTM C1071, Type I, flexible, glass fiber duct liner with 100% coated air side. Minimum density 1.5 lb/ft3. 2. Externally insulated: All sheet metal supply, return, and outdoor ventilation ducts
- shall be insulated on the outside with a Formaldehyde—free, flexible glass fiber blanket. Insulation shall have a minimum installed R—value of R—6 and have a Type 75 facing. Insulation shall be provided with a factory—applied facing with a composite UL HFC rating of 25/50. Ducts outside of the building envelope shall be insulated to R-8. Basis of Design: Johns-Manville Microlite XG Formaldehyde-free Fiber Glass Duct Wrap.
- 3. All supply, return, and outdoor ventilation air ducts inside the building shall be completely insulated on the outside unless noted otherwise. 4. Ducts outside the building envelope shall be internally insulated and wrapped with a
- 5. Exhaust ducts shall be externally insulated within 10 feet of exterior openings. 6. Duct shown as internally lined shall be also externally insulated as needed to bring total R-value to required level.
- 2.3 PIPE INSULATION A. Condensate Piping
- 1. ASTM C534, Type I, flexible, closed cell elastomeric insulation, tubular.

weather proof jacket with a paintable surface.

- 2. Thermal Conductivity: 0.27 at 75 degrees F. 3. Operating Temperature Range: Range: Minus 70 to 180 degrees F. 4. Thickness: 1/2"thickness for all pipe sizes.
- B. Refrigerant Piping
- 1. Suction piping between evaporator and condenser units shall be insulated with Johns—Manville Aerotube II or equal elastomeric pipe insulation, max. K—value shall be 0.27 (Btu-in)/(h-ft2-F). 2. Wall thickness for pipes under 1-1/2" diam. shall be 1" for heat pumps, 1/2" for
- cooling only units. 3. For pipes 1-1/2" and larger, wall thickness shall be 1-1/2" for heat pumps and 1"
- for cooling only units. All joints and seams shall be sealed with mastic. 4. Insulation exposed to the outdoor environment shall be covered with a protective jacket or coated with a UV and water resistant coating.

### PART 3 EXECUTION 3.1 INSTALLATION - DUCT SYSTEMS

- A. Verify all surfaces are clean and dry before applying insulation.
- B. Butt joints of insulation together to obtain total coverage. Do not compress the insulation. Tape all joints.
- C. Mechanical fasteners: weld or adhesive applied pins shall be used to secure insulation to bottom of ducts 20" wide or wider. Install 18" on centers, both directions.
- D. Place holding washers over weld pins firmly, do not compress insulation, clip of excessive length of pin, cover with 4"length of tape.
- E. Where 2"flaps are provided, use adhesive to obtain full 2"coverage in lieu of tape. F. Repair breaks, holes, and perforations to full thickness flush with adjoining surface, with new sections if large, with tape on small areas so that 2" of tape or replacement
- foil-kraft project away from the imperfection. G. Insulation on round ducts may be wired in place with soft monel wire, 12"0.C., with joints taped and vapor sealed.
- H. Cover flexible equipment connections on air conditioning units with specified supply/return duct insulation. Lap connection 6" and secure 2" edge flap with adhesive. 3.2 INSTALLATION - PIPING SYSTEMS
- A. Verify piping has been tested before applying insulation materials. Verify surfaces are clean and dry, with foreign material removed. Piping Exposed to View in Finished Spaces: Locate insulation and cover seams in least visible locations.
- B. Continue insulation through penetrations of building assemblies or portions of assemblies having fire resistance rating of one hour or less. Provide intumescent firestopping when
- continuing insulation through assembly. Finish at supports, protrusions, and interruptions. 2.3 FLEXIBLE EQUIPMENT CONNECTIONS C. Piping Systems Conveying Fluids Below Ambient Temperature:
- 1. Insulate entire piping system including fittings, valves, unions, flanges, strainers, flexible connections, and expansion joints.
- 2. Furnish factory—applied or field—applied vapor retarder jackets. Secure factory—applied jackets with pressure sensitive adhesive self—sealing longitudinal laps 2.4 VOLUME CONTROL DAMPERS and butt strips. Secure field—applied jackets with outward clinch expanding staples
- and seal staple penetrations with vapor retarder mastic. 3. Insulate fittings, joints, and valves with molded insulation of like material and thickness as adjacent pipe. Finish with glass cloth and vapor retarder adhesive or PVC fitting covers.
- D. Inserts and Shields: 1. Piping 1-1/2 inches Diameter and Smaller: Install steel shield between pipe hanger
- 2. Piping 2 inches Diameter and Larger: Install insert between support shield and piping and under finish jacket.
- a. Insert Configuration: Minimum 6 inches long, of thickness and contour matching adjoining insulation; may be factory fabricated. b. Insert Material: Compression resistant insulating material suitable for planned temperature range and service. 3. Piping Supported by Roller Type Pipe Hangers: Install galvanized steel shield between
- roller and inserts. E. Condensate Piping: Insulate entire piping system and components inside the building
- space to prevent condensation. F. Closed Cell Elastomeric Insulation:
- 1. Push insulation on to piping, miter joints at elbows. 2. Seal seams and butt joints with manufacturer's recommended adhesive.
- 3. When application requires multiple layers, apply with joints staggered. 4. Insulate fittings and valves with insulation of like material and thickness as adjacent
- G. Refrigeration suction piping shall be insulated through pipe clamps and hangers, provide insulation shields when insulation passes through clamps and hangers.
- H. Pipe Exposed in Mechanical Equipment Rooms or Finished Spaces: Finish with PVC
- jacket and fitting covers. Labels on exterior covers should be oriented so as to be easily readable and shall have directional flow arrows.
- I. Buried Piping: Insulate only where insulation manufacturer recommends insulation product may be installed in trench, tunnel or direct buried. Install factory fabricated assembly with inner all-purpose service jacket with self-sealing lap, and asphalt impregnated open mesh glass fabric, with 1 mil thick aluminum foil sandwiched between three layers of bituminous compound; outer surface faced with polyester film.

END OF SECTION

### SECTION 15850 - AIR DISTRIBUTION

### PART 1 GENERAL

- 1.1 GENERAL A. Section 15010 is applicable.
- B. All general conditions of the contract apply.
- 1.2 BASIS OF DESIGN
- A. Acceptable manufacturers for products specified under this section are listed below. 1. Flexible duct: Thermaflex, Flexmaster, Clecon 2. Flexible equipment connections: Durodyne, Ventafabrics
- 3. Volume control dampers: Ruskin, Greenheck, Nailor, United, Price 4. Fire/Smoke dampers: Ruskin, Greenheck, Nailor, United 5. Air diffusers and grilles: Price, Titus, Nailor, Metalaire
- 1.3 PRESSURE

### A. All new supply, return, outdoor air, and exhaust air ducts are to be STD, 1"static pressure type, class "A" seal, ASHRAE/SMACNA.

### PART 2 PRODUCTS 2.1 METAL DUCTWORK

- A. Duct work shall be rectangular, oval, or round as shown on plans, and shall be fabricated from ASTM A653/A653M galvanized steel sheet, lock—forming quality. All fasteners shall be galvanized steel.
- B. Fabricate and support rectangular ducts in accordance with SMACNA HVAC Duct Construction Standards — Metal and Flexible. Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.
- . Fabricate and support round ducts with longitudinal seams in accordance with SMACNA HVAC Duct Construction Standards — Metal and Flexible (Round Duct Construction Standards). Provide duct material, gages, reinforcing, and sealing for operating
  - pressures indicated. 1. Construct T's, bends, and elbows with minimum radius 1-1/2 times centerline duct width. Where not possible and where rectangular elbows are used, provide turning
  - with glass fiber insulation. 2. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible; maximum 30 degrees divergence upstream of equipment and 45 degrees
- convergence downstream. 3. Fabricate continuously welded round and oval duct fittings two gages heavier than duct gages indicated in SMACNA Standard. Minimum 4 inch cemented slip joint, brazed or electric welded. Prime coat welded joints.
- 4. Provide standard 45—degree branch takeoffs per plans. When space does not allow 45—degree lateral wye takeoff, use 90—degree conical tee connections. 5. Seal ducts to ASHRAE/SMACNA Class A standard. No cloth duct tape will be
- D. Spiral insulated round ducts
- 1. Products: Machine made from round spiral lockseam duct with light reinforcing corrugations, galvanized steel outer wall. 2. Double wall spiral ducts shall have, 2 inch thick glass fiber insulation, perforated
- galvanized steel inner wall; fittings manufactured with perforated inner wall. 3. Single wall spiral ducts shall be internally insulated with 2 inch thick glass fiber
- insulation with a smooth non—fiberglass interior facing and nosing at the end. 4. Duct Coating for Ducts Used in Corrosive Environments: Polyvinyl chloride plastic, 4 mil thick on outside and 2 mil thick on inside. Temperature range: minus 30 degrees F to 200 degrees F.
- 5. Construct round duct and fittings with minimum gages per Smacna. . Kitchen Hood Exhaust Ductwork Fabrication:
- 1. Fabricate in accordance with SMACNA HVAC Duct Construction Standards Metal and Flexible and NFPA 96. 2. Exposed Kitchen Hood Exhaust Ducts: Construct of stainless steel ASTM ASTM
- A240/A240M OR ASTM 666, type 316 using continuous external welded joints. 3. Concealed Kitchen Hood Exhaust Ducts: Construct of 16 gage stainless steel ASTM ASTM A240/A240M OR ASTM 666, type 316 using continuous external welded joints.
- 4. Grease ducts may be factory built commercial grease ducts labeled and listed in accordance with UL 1978 for this application.
- 5. Wrap grease duct with 3M Fire Barrier Duct Wrap 615+, 2 layers.

### 2.2 FLEXIBLE DUCTWORK

- A. Flex ducts connections are for connecting round galvanized duct to air distribution devices. Maximum allowed length of any flex duct section shall be 5'-0". Flex duct shall be two ply vinyl film supported by helical wound spring steel wire; fiberglass insulation; vapor barrier film. Minimum R—6, max velocity 4000 fpm, pressure raing 10 iwg positive and 1 iwg negative. Use R-8 in attics and spaces outside the building envelope. No flex duct may be used outside the building. Temperature rating -20degrees F to 200 degrees F. Basis of design is Thermaflex MK-E.
- A. Flexible connections shall be used for all duct connections to HVAC equipment and fans. Flexible connections shall be per SMACNA chapter 7, Figure 7—7 and 7—8. Flexible material for indoor installation shall be airtight heavy glass fabric, double
- A. Fabricate in accordance with SMACNA HVAC Duct Construction Standards Metal and
- Flexible, and as indicated on Drawings. B. Fabricate splitter dampers of material matching duct gage to 24 inches size in each direction, and two gages heavier for larger sizes. Secure with continuous hinge or rod. Operate with minimum 1/4 inch diameter rod.
- Fabricate single blade dampers for duct sizes to 12 x 30 inch. Fabricate multi-blade damper of opposed blade pattern with maximum blade sizes 8 x 72 inch. Assemble center and edge crimped blades in prime coated or galvanized channel frame with suitable hardware.
- ). Furnish locking, indicating quadrant regulators on single and multi—blade dampers with 2"standoff brackets. Where width exceeds 30 inches, furnish regulator at both ends. 2.5 FIRE DAMPERS
- . Damper shall be UL 555 listed and labeled as a 1-1/2 hour static fire damper. UL approved for dual directional air flow. Integral Sleeve Frame: Minimum 20 gage by 12 inches roll formed, galvanized steel. Apply factory sealant to dampers in HVAC systems with pressures to maximum 4 inches wg. Mill galvanized finish.
- 5. Blades: a. Style: Curtain type, out of airstream.
- b. Action: Spring or gravity closure upon fusible link release. c. Orientation: Horizontal or vertical as indicated on plans.
- d.Material: Minimum 24 gage roll formed, galvanized steel. 2. Closure Springs: Type 301 stainless steel, constant force type, if required. 3. Temperature Release Device: fusible link, 165 degrees F.
- B. Type "B" fire dampers shall have no less than 90% free area, shall have 160 degree F fusible link, and integral 12"long 20 gauge integral sleeve and preformed picture frame mounting angles. Basis of design is Ruskin IBD2 Style B.
- C. For applications where damper is in wall without interconnecting duct, or where noted
- as such, damper frame shall be size shown on drawing and shall be type A. D. For applications where damper is in wall with a grille on both sides or on one side, use
- thin line type A damper, Ruskin IBDT or approved manufacturer listed above. . Provide hinged, insulated access panels with part turn latches in ductwork to all fire dampers where access is not otherwise possible. Duct access panels shall be insulated and stenciled "F.D." with 2" high black letters on light surfaces, light letters on dark

- F. Picture Frame Mounting Angles:
- 1. One-piece, roll formed retaining angles  $1-1/2 \times 1-1/2$  inches.
- 2. Factory matched and shipped attached to damper. 2.6 TURNING DEVICES AND EXTRACTORS
- A. Multi—blade device with blades aligned in short dimension; steel or aluminum

construction; with individually adjustable blades, mounting straps.

- B. Multi-blade device with radius blades attached to pivoting frame and bracket, steel or aluminum construction, with push—pull operator strap.
- 2.7 INSPECTION PANELS
- A. Inspection panels shall be installed in plenums and ductwork in order to facilitate inspection of filters, fans, dampers, and coils. Panels into spaces large enough for a person to enter shall be 24"x24" minimum. Panels into smaller spaces shall be 12"x12" minimum. Panels in insulated metal duct shall be 22 gauge galvanized frame with 24 gauge galvanized steel door panel and shall be gasketed, double wall insulated with 1" fiberglass insulation. Panels shall be piano hinged on one side with galvanized cam lock on the other. Inspection panels with sheet metal screw fasteners are not acceptable.
- 2.8 AIR OUTLETS AND INLETS
- A. Air diffusers and grilles are scheduled on the plans. No on—board dampers shall be allowed for ceiling mounted diffusers and grilles. Dampers should be purchased and installed separately at the point of each branch take—off from trunk ducts.
- A. Normal operating filters for all systems shall be disposable pleated media type filter of a size standard for the unit(s) installed. B. Construction phase filters shall be dry fiberglass media, double wall box panel type, of a size standard for the unit(s) installed. Only construction phase filters shall be used

during construction, and normal operating filters shall be installed by contractor after

final punch—out. Construction phase filters shall be checked regularly as the project

C. For projects with DDC systems, dirty filter switches shall be installed on equipment filters to indicate, through the DDC, when these filters are dirty.

progresses and changed as needed. Units shall not be run without filters.

vanes. Where acoustical lining is indicated, furnish turning vanes of perforated metal 2.10 ELECTRICAL CHARACTERISTICS AND COMPONENTS

### A. Electrical characteristics of powered equipment are shown on the Div. 16 plans. PART 3 EXECUTION

### 3.1 EXAMINATION

A. Verify sizes of equipment connections before fabricating transitions.

C. Verify ducts and equipment are ready for installation and accessories.

- B. Verify rated walls are ready for fire damper installation.
- D. Check location of air outlets and inlets and make necessary adjustments in position to conform to architectural features, symmetry, and lighting arrangement.
- A. Install fire dampers at locations shown on drawings. Installation of fire dampers shall comply with SMACNA Fire, Smoke, and Radiation Damper Installation Guide for HVAC
- systems. Basic installation Figure 1
- 2. Breakaway connections Figure 2 3. Specific Installation Figure 5
- Damper out of wall Figure 12 5. Opening protection Figure 15
- B. Fire damper openings in metal stud walls shall be internally framed on four sides from vertical members for rigid support of opening with internal gypsum board liner per SMACNA installation guide or manufacturer's guidelines for installation in metal stud

### 3.3 METAL DUCTS

- A. Install in accordance with SMACNA Duct Construction Standards Metal and Flexible, for pressures and seal as specified herein.
- B. During construction install temporary closures of metal or taped polyethylene on open ductwork to prevent construction dust from entering ductwork system.
- A. Flex duct connections shall be made with a band on inner liner and another band to secure vapor jacket. Max length of any flexible duct section is 5'-0". Tape all loose
- ends with foil tape, no cloth duct tape is allowed. 3.5 FLEXIBLE EQUIPMENT CONNECTIONS A. Install on inlets and outlets of all powered equipment prior to any duct hangers.
- Manufacturer shall provide with equipment where option is available. Install connecting duct in a straight line with equipment connection, and prevent flexible connection from being in tension while equipment is running.
- 3.6 DUCT SMOKE DETECTORS A. Shall be provided and wired by Division 16, installed in duct by Division 15.
- 3.7 FILTERS A. Prevent passage of unfiltered air around filters by installing felt, rubber, or neoprene
- B. Install filter gage static pressure tips upstream and downstream of filters. Mount filter gages on outside of filter housing or filter plenum, in accessible position. Adjust and

### 3.8 INSPECTION PANELS

- A. Install inspection panels at the following locations and as indicated on drawings: 1. Before and after each automatic control damper.
- 2. Before and after each fire, smoke, and/or combination fire and smoke damper. B. Access Door Sizes: Install minimum 12 x 12 inch size for hand access, 18 x 18 in. size for shoulder access. Review locations prior to fabrication. 1. Mark access doors for fire and smoke dampers on outside surface, with minimum 2
- in. high letters reading: FIRE/SMOKE DAMPER, SMOKE DAMPER, OR FIRE DAMPER. 3.9 AIR DIFFUSERS AND GRILLES
- A. Install balancing dampers for diffusers and grilles at branch take—off from main trunk, no dampers allowed on-board diffusers or grilles unless explicitly specified on plans. Do not install manual volume dampers next to grilles unless required by field conditions.
- B. Do not locate air registers, diffusers or grilles in floors of toilet or bathing rooms. C. Paint ductwork, cans, and plenums visible behind air outlets and inlets matte black.

D. Install safety screen where fan inlet or outlet is exposed. END OF SECTION



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HVAC SPECIFICATIONS

SHEET TITLE

	ELECTRICA	AL LE	GEND
00	FLUORESCENT TROFFER, TYPE AS NOTED	<b>=</b>	DUPLEX RECEPTACLE 18" AFF OR AS NOTED, NEMA 5-20R
	FLUORESCENT TROFFER, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST	WP	WEATHER PROOF DUPLEX RECEPTACLE 18" AFF OR AS NOTED, NEMA 5-20R
	FLUORESCENT TROFFER, TYPE AS NOTED	=	DUPLEX RECEPTACLE
	FLUORESCENT TROFFER, TYPE AS NOTED	(#=	ABOVE COUNTER OR AS NOTED, NEMA 5-20R  QUAD RECEPTACLE
	PROVIDE WITH EMERGENCY BALLAST	IG	18" AFF OR AS NOTED, NEMA 5-20R DUPLEX RECEPTACLE
0	RECESSED CAN FIXTURE, TYPE AS NOTED  RECESSED CAN FIXTURE, TYPE AS NOTED	<b>=</b>	18" AFF OR AS NOTED, NEMA 5-20R SPECIAL PURPOSE RECEPTACLE
	PROVIDE WITH EMERGENCY BALLAST	<b>9</b>	18" AFF OR AS NOTED, SEE SCHEDULE  DUPLEX RECEPTACLE, MOUNTED FLUSH IN FLOOR
Ю	FLUORESCENT STRIP FIXTURE	•	PROVIDE BRASS COVER, NEMA 5-20R
O ⁺	WALL MOUNTED FIXTURE, TYPE AS NOTED	<b>@</b>	DUPLEX RECEPTACLE, MOUNTED FLUSH IN CEILING NEMA 5-20R
<b>\$</b>	PENDANT FIXTURE, TYPE AS NOTED	Ю/0	WALL / CEILING MOUNTED JUNCTION BOX
•	PENDANT FIXTURE, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST	<b>-</b>	UNFUSED DISCONNECT SWITCH RATING/POLES/NEMA RATING
	TRACK LIGHT FIXTURE, TYPE AS NOTED	 	FUSED DISCONNECT SWITCH RATING/POLES/NEMA RATING/FUSE SIZE
ä	EMERGENCY LIGHT	<b>→</b>	MOTOR
-4	EXIT/EMERGENCY LIGHT COMBINATION	M	UTILITY GRADE METER
8 <u>9</u> <u>9</u>	CEILING MOUNTED EXIT SIGN	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
• • • • • • • • • • • • • • • • • • •	WALL MOUNTED EXIT SIGN		TELEPHONE OUTLET, PROVIDE 4" BOX
**************************************		▼	SINGLE GANG PLASTER RING, 3/4" C ABOVE CEILING  DATA OUTLET, PROVIDE 4" BOX
•	SINGLE POLE SWITCH, 44" AFF  TWO SINGLE POLE SWITCHES GANGED TOGETHER	<b>▽</b>	SINGLE GANG PLASTER RING, 3/4" C ABOVE CEILING
\$\$	FOR INNER/OUTER CONTROL OF LAMPS, 44" AFF		TELEVISION/CABLE OUTLET TELEPHONE OUTLET, PROVIDE 4" BOX
\$\$\$	THREE SINGLE POLE SWITCHES GANGED TOGETHER 44" AFF	•	FLUSH IN FLOOR, 3/4" C ABOVE CEILING
\$3	THREE WAY SWITCH, 44" AFF		DATA OUTLET, PROVIDE 4" BOX FLUSH IN FLOOR, 3/4" C ABOVE CEILING
\$3\$3	TWO THREE WAY SWITCHES GANGED TOGETHER FOR INNER/OUTER CONTROL OF LAMPS, 44" AFF	•	DOOR HOLD-OPEN DEVICE
\$4	FOUR WAY SWITCH, 44" AFF	T	TRANSFORMER, SEE ONE LINE
\$0	WALL BOX DIMMER 1000W UNLESS NOTED DIFFERENTLY 44" AFF	<b>S</b> 4	SPEAKER STROBE 85" CENTER
\$ _{WP}	WEATHER PROOF SWITCH, 44" AFF	<b>⊠</b> ⊲	HORN 85" CENTER
\$ _M	MOTOR RATED SWITCH, 44" AFF OR AS NOTED	Ø	PULL STATION
\$os	COMBINATION SWITCH AND OCCUPANCY SENSOR, 44" AFF	<b>-</b> -	FIRE ALARM STROBE, MIN 75 CANDELA
\$ _T	DIGITAL TIMER SWITCH, 44" AFF		CEILING / WALL MOUNT 85" CENTER  DUCT MOUNTED SMOKE DETECTOR
	CEILING MOUNTED OCCUPANCY SENSOR		SMOKE DETECTOR
<b>⊗</b> _x <b>⊗</b> _x <b>⊗</b>		<u>(S)</u>	
<b>9</b> ,	WALL MOUNTED OCCUPANCY SENSOR, 44" AFF	(H)	HEAT DETECTOR
	TIME CLOCK	(13)	TAMPER SWITCH
	LIGHTING CONTACTOR	(FS)	FLOW SWITCH
<b>®</b>	PHOTO CELL		RACEWAY CONCEALED IN WALL OR ABOVE CEILING
	8" CONE SPEAKER IN CEILING EC TO PROVIDE BLACK SPEAKER		RACEWAY EXPOSED
<u></u>	8" CONE SPEAKER IN WALL EC TO PROVIDE BLACK SPEAKER		RACEWAY CONCEALED IN FLOOR SLAB, BELOW SLAB OR GRADE BELOW SLAB OR GRADE, OR UNDER RAISED ACCESS FLOOR
<b>Φ</b>	VOLUME CONTROL		DENOTES CONDUIT TURNING UP IN PLAN VIEW
	PLYWOOD EQUIPMENT BACKBOARD  4'Y8' LINIESS NOTED OTHERWISE		DENOTES CONDUIT TURNING DOWN IN PLAN VIEW
CCTV 4	4'X8' UNLESS NOTED OTHERWISE  CLOSED CIRCUIT TELEVISION CAMERA		STUB UP
φ	COAXIAL CABLE OUTLET	[XXXX]	SHORT CIRCUIT AVAILABLE CURRENT
I	SOUNDE ONDER OUTER		SHORT GIRGOT AVAILABLE CONNENT

		ABB	REVIATIONS		
A, AMPS	AMPERES	FLA	FULL LOAD AMPERES	NO	NORMALLY OPEN, NUMBER
A/C	AIR CONDITIONER	GND	GROUND	NTS	NOT TO SCALE
AC	ALTERNATING CURRENT	GALV	GALVANIZED	PNL	PANELBOARD
AF	AMPERE FRAME	GRS	GALVANIZED RIGID STEEL	PVC	POLYVINYL CHLORIDE
AFF	ABOVE FINISHED FLOOR	GFCI	GROUND FAULT	RGS	RIGID GALVANIZED
AFG	ABOVE FINISHED GRADE		CIRCUIT INTERRUPTER	NG3	STEEL CONDUIT
AIC	AMPERE	GFI	GROUND FAULT INTERRUPTER	RMC	RIGID METALLIC
	INTERRUPTING CURRENT	HD	HEAT DETECTOR	KMC	
AL	ALUMINUM	HP	HORSEPOWER	RMS	CONDUIT (GALVANIZED) ROOT-MEAN-SQUARE
ANSI	AMERICAN NATIONAL	IMC		RNC	
	STANDARDS INSTITUTE		INTERMEDIATE METAL CONDUIT	KINC	RIGID NON-METALLIC
AWG	AMERICAN WIRE GAUGE	ISC	INTERRUPTING SHORT CIRCUIT	CC4	CONDUIT
BC	BARE COPPER	IG	ISOLATED GROUND	SCA	SHORT CIRCUIT
BKBD	BACKBOARD	INST	INSTANTANEOUS		AVAILABLE
С	CONDUIT	JB	JUNCTION BOX	SWBD	SWITCHBOARD
CB	CIRCUIT BREAKER	KAIC	KILO (THOUSAND) AMPERES	SWGR	SWITCHGEAR
CKT	CIRCUIT		INTERRUPTING CAPACITY	TBD	TO BE DETERMINED
CU	COPPER	KCMIL	KILO (THOUSAND)	TCP	TEMPERATURE CONTROL
DIST	DISTRIBUTION		CIRCULAR MILS		PANEL
DN	DOWN	KV	KILO (THOUSAND) VOLTS	TD	TIME DELAY
DP	DISTRIBUTION PANEL	KVA	KILO (THOUSAND)	TEL	TELEPHONE
DWG	DRAWING		VOLT-AMPERES	TVSS	TRANSIENT VOLTAGE
EB	ENCASED BURIAL	KW	KILO (THOUSAND) WATTS		SURGE SUPPRESSION
EC	EMPTY CONDUIT	KWH	KILO (THOUSAND) WATT-HOURS	TYP	TYPICAL
EEW	ENERGIZED ELECTRICAL WORK	LFMC	LIQUID-TIGHT FLÉXIBLE MÉTAL CONDUIT	UG	UNDERGROUND
EGC	EQUIPMENT GROUNDING	мсв	MAIN CIRCUIT BREAKER	UL	UNDERWRITER'S LABORATORIES
LGC	CONDUCTOR	MCB MCM	THOUSAND CIRCULAR MILS	UON	UNLESS OTHERWISE
ELR	END-OF-LINE RESISTOR	MCM MCCB	MOLDED CASE		UNDERGROUND PULLBOX
		MLO	MAIN LUGS ONLY	V	VOLTS
EWC	ELECTRIC WATER COOLER	N	NEUTRAL	VA	VOLT-AMPERES
<e></e>	EXISTING TO DEMAIN	NEC	NATIONAL ELECTRICAL	VFD	VARIABLE
<er></er>	EXISTING TO REMAIN	INEC	CODE		FREQUENCY DRIVE
<ex></ex>	EXISTING	NECO		1471.1	
FA	FIRE ALARM	NESC	NATIONAL ELECTRICAL	WH	WATER HEATER
FAA	FIRE ALARM ANNUNCIATOR	NUO	SAFETY CODE	WP	WEATHERPROOF
FACP	FIRE ALARM CONTROL PANEL	NIC	NOT IN CONTRACT	WT	WATERTIGHT
		NL	NIGHT LIGHT	XFMR	TRANSFORMER

- GENERAL: Furnish all labor, equipment, and materials necessary for a complete installation of electrical wiring. The drawings indicate diagrammatically the extent, general character, and the approximate location of the work to be performed. Omissions of details of work, mounting hardware, fittings, J-boxes, outlet boxes, pull boxes, supports, connectors, accessories, and/or adaptors, which are evidently necessary to carry out the intent of the drawings and specifications, shall be provided. Connect all electrical equipment, whether furnished by Electrical Contractor or by others, and whether shown on plans or not. Install and connect all starters furnished by this contractor or others. Furnish, install, and connect disconnects and safety switches for all electrical equipment whether furnished by this contractor or others and where required by NEC. Before installing raceways for motors, appliances, HV AC equipment, and/or other equipment provided by others, verify locations and arrange raceways accordingly. Verify all door swings with architectural plans before roughing in light switches. Where no raceway sizes or wire sizes are shown, install as required by NEC. Verify power and connection requirements for all equipment before installation. Wire as required by equipment manufacturer and in compliance with the NEC. Obtain MOCP and MCA information from actual equipment being installed and circuit accordingly. All circuit breakers supplying HVAC equipment shall be HACR type. All work shall comply with applicable laws of the community and with the NEC. Obtain and pay for all permits required. Obtain approval from all agencies and authorities having jurisdiction for all work indicated on plans and in specifications. After completion of the work, submit a certificate of final inspection and approval from the local Electrical Inspector and local Fire Department Authorities, certifying that the installation complies with all regulations governing the same. All materials shall be new and UL listed. Execute all work in a workmanlike manner so as to present a neat and mechanical
- appearance when completed. COORDINATION: Coordinate work so as to conform to the progress of the work of the other trades, and complete the entire installation as soon as the condition of the building permits. Some safety disconnect switches may be provided by the Mechanical Contractor but installed and connected by the Electrical Contractor. This work shall be coordinated by the Electrical Contractor. INTERFERENCE: In the event that interferences or conflicts develop, the Architect shall decide which equipment shall be relocated, at no cost to owner, regardless of which equipment was first installed.
- CUTTING AND PATCHING: Provide cutting and patching, under the supervision of the General Contractor, as required for electrical work. Coordinate with other trades as work progresses so cutting and patching will not be required or is kept at a minimum. SUBMITTALS: Within twenty (20) days after award of contract, submit six (6) copies of manufacturer's drawings to the Architect for review of the following items: Panelboards, disconnect switches, transient voltage surge suppressors, light fixtures, lighting controls, and fire alarm system (complete with plan showing wiring/conduit).
- system to be in perfect working condition. GUARANTEE: Guarantee that all work executed under these specifications and plans will be free from defects of workmanship and materials for a period of one (1) year from date of final acceptance of this work. Promptly repair, replace, or otherwise make good, upon notification, any defect becoming apparent during this period, at no cost to Owner. TEMPORARY SYSTEMS: The Electrical Contractor shall be responsible for furnishing and installing equipment

and materials necessary for providing electrical power where needed for the construction of the project in

TESTING: Upon completion of the work, conduct a thorough test in the Engineer's presence, and show the entire

- accordance with all OSHA regulations. SITE VISIT: Before submitting a bid, visit the site, and verify all existing conditions. Make such adjustments to work as required by the actual conditions encountered. SERVICE ENTRANCE: It shall be the responsibility of the Contractor to verify that the location, arrangement, voltage, phase, and connections to the utility service, as well as the required metering equipment, are coordinated with, and in accordance with, the requirements of the local power company. If the requirements are at variance with these Drawings or Specifications, the contract price shall include any additional cost necessary to meet those requirements, without extra cost to the Owner, after the contract is entered into. Notify the
- Architect of any changes required before proceeding with work. Any charges by the utility company for the electrical service to the facility shall be included in the bid price. CONDUIT PENETRATIONS: Where conduits and other electrical equipment raceways pass through fire partitions, fire walls, or floors, provide a U.L. Listed penetration for an effective barrier against the spread of fire, smoke, and gases, to maintain the fire rating of the wall which has been penetrated. Where exterior walls or floors are penetrated, provide complete weatherproofing of the penetration. Furnish roof flashing for all conduit or

equipment which penetrates the roof.

- LIGHT FIXTURES: It shall be the responsibility of the contractor to verify the exact ceiling type, type of fixture mounting and trim, and recessing depth of all recessed fixtures, prior to purchasing any fixtures. Regardless of manufacturer part numbers identified in the Light Fixture Schedule on the plans, it shall be the contractor's responsibility to verify the proper operating voltage of light fixtures, according to what is indicated on the plans, prior to purchasing any fixtures. Equivalent fixture substitutes by Lithonia, Cooper Lighting, and Hubbell will be accepted. Provide lamps for all fixtures. Lamps shall be manufactured by GE, Osrarn-Sylvania, or Phillips. Fluorescent ballasts shall be high frequency electronic type by Magnetic Triad, Lutron, Osrarn-Sylvania or Motorola and shall have a 5 year warranty. BF shall be greater than .9, THD shall be less than 20%, CF greater than I. 7, and PF greater than .93. HID lamp ballasts shall be high power factor (.90 or greater) type. HID lamps shall be ceramic type. Provide all mounting hardware, adaptors, and accessories as required. UON, center all downlight and wallwasher fixtures on the ceiling tile.
- BUILDING WIRE AND CABLE: All wiring shall be copper, unless otherwise noted as aluminum. Interior wire shall be copper THHN, #12 AWG minimum. Exterior or underground wire shall be XHHW copper. Conductors #10 and #12 shall be solid. Conductors sized larger than #10 shall be stranded. Control and signal wire shall be type TFF copper, min. size #16. Where no wire sizes are shown on plans, provide and install as required by NEC. If no branch circuit wiring interconnection and/or circuit home runs are shown between devices on plans, and if subscript circuit number designations are shown adjacent to the devices, circuit the devices according to subscript notations. Joints and splices in wire shall be made with solderless connectors, and covered so that insulation is equal to conductor insulation. Wire nuts shall not be used for conductors #8 and larger. No splices shall be pulled into conduit. Both conductors and conduit shall be continuous from outlet to outlet. All conduits shall have bushings, with smooth beveled throats installed at both ends, prior to installing conductors. Circuits may be combined, if conduit sizes are adjusted where necessary, and if NEC derating factors are observed. Type MC cable may be used, as permitted by Article 330 of NEC. Type NM cable may be used, as permitted by
- Article 334 of NEC. CONDUIT: All raceways shall be a minimum W' diameter. Use EMT for general interior work, when conduit must be installed exposed. RGS or IMC shall be used in floor slabs, where embedded in concrete, areas exposed to moisture, areas in danger of mechanical injury and hazardous areas. PVC Schedule 40 (3/4" minimum diameter) shall be used below grade with steel transitions through slabs. Use flexible metal conduit connections to motors, transformers, and other vibrating equipment. Exterior flex shall be liquidtight. EMT conduit fittings shall be compression type. Where no raceway sizes are shown on plans, provide and install as required by NEC. All exposed conduit shall be painted to match surface upon which it is installed. Interior wiring, as shown on plans, will typically be concealed in ceilings, walls, or floors, where possible, except in mechanical/electrical rooms, janitor closets, unfinished rooms, and other such rooms where conduits are typically exposed, and unless otherwise noted. Unless otherwise approved by the Architect, the installation of exposed conduit runs mounted to outside of exterior walls shall be kept to a minimum. Horizontal and vertical conduit runs which serve exterior components shall be concealed within interior walls or above ceilings.
- DEVICE PLATES: Cover plates shall be smooth nylon with color matching devices. Verify color with FF&E Finish Schedule on Architectural plans. For unfinished areas with exposed conduit, cover plates shall be galvanized steel with beveled edges. FUSES: Class RK-1 time delay fuses shall be used for protecting circuit breakers; Bussman Limitron, or equal. Class RK-5 time delay fuses shall be used for protection of motors and transformers; Bussman Fusetron, or
- equal. Fuses shall be rated for 200K AIC at rated voltage. OUTLET BOXES: Except as noted, boxes shall be standard galvanized or sheradised, at least 1-1/2 inches deep or as noted in plans, and of metal at least 1/16 inch thick. Plastic boxes which are at least 1/16 inch thick and at least 1-1 /2 inches deep, or as noted on plans, are also permitted. Boxes shall be sized to accommodate devices and conductors as per NEC Article 370. Coordinate depth with wall construction. Boxes used with exposed conduit shall be 4-inch square utility boxes. Exterior boxes shall be galvanized cast-iron with gaskets and appropriate fittings. Boxes shall be provided with approved 3/8" fixture studs where required. Except where located in concrete block, switch and receptacle boxes shall be 4" square for single gang installation. Appropriate gang boxes shall be used for mounting ganged switches. All outlet box openings shall be sealed with listed putty
- WIRING DEVICES: Switches shall be A.C. type as made by Hubbell, Pass & Seymour, General Electric, or Leviton. Receptacles shall be by Hubbell, Bryant, Pass & Seymour, General Electric, or Leviton. Color shall be selected by FF&E Finish Schedule on Architectural plans. Provide matching plugs for special purpose receptacles when required for connecting equipment. All receptacles in toilets, within six (6) feet of sinks, in
- weather-resistant type. SAFETY SWITCHES AND DISCONNECTS: Safety switches and disconnect switches shall be Type HD by Cutler-Hammer, Square D, or General Electric. Locate disconnects adjacent to equipment on suitable structure. A disconnect shall not be required other than the CB which provides power to equipment when equipment is within sight and not greater than 50 feet from CB. Verify disconnect size from equipment nameplate data. Mount disconnects for outside HVAC units no higher than height of unit.

commercial kitchens, and in exterior locations shall be GFCI type. Additionally, exterior receptacles shall be listed

- GROUNDING: All equipment shall be grounded and bonded in accordance with local regulations and National Electrical Code. Install a green equipment grounding conductor in all raceways. COLOR CODING OF CONDUCTORS: Color code conductors in accordance with the NEC and with standard and accepted trade practices.
- 2. OUTLET BOX MOUNTING HEIGHTS: Unless otherwise noted, Wall Switches (general): 44" AFF; Receptacles: 18" AFF. All mounting heights noted on plans are measured to the top of outlet boxes. 3. VERIFY: The word "verify" when used in plans shall mean to verify location and wiring requirements before circuiting and to circuit in accordance with the manufacturcr1s recommendations and in compliance with the
- . DATA, CABLE TV, AND TELEPHONE: For data outlets, cable TV outlets, and telephone outlets, the wiring, jacks, and faceplates shall be provided by the Control ctor, unless otherwise noted. Mount individual data outlets,

cable TV outlets, and telephone outlets at exactly the same height as receptacles, unless noted otherwise.

### **ELECTRICAL SPECIFICATIONS:**

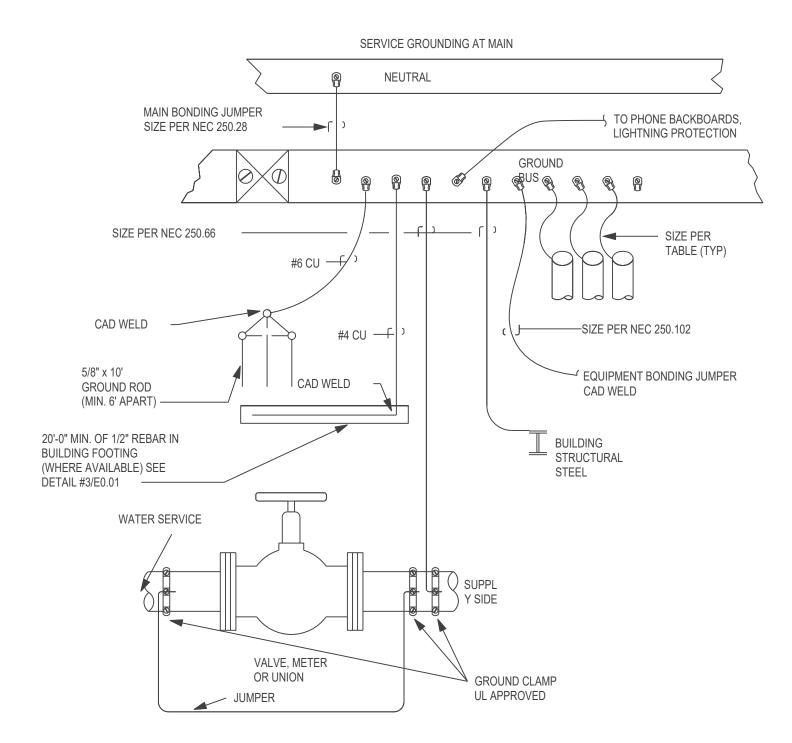
- 26. PANELBOARDS: Panelboards shall be of a dead-front safety type equipped with thermal magnetic molded case circuit breakers with frame and trip ratings as shown on the schedule. Circuit breakers shall be quick-make, quick-break, thermal magnetic trip indicating and shall have common trip on all multiple breakers. Connection to the buss shall be bolt on. Terminals for feeder conductors to the panelboard mains and neutral shall be UL listed as suitable for the type of conductor specified. Terminals for branch circuit wiring, both breaker and neutral, shall be UL listed as suitable for the type conductor specified. Panelboards not shown to be rated for service entrance equipment shall be equipped with an isolated neutral and a grounding buss. The panelboard front shall be of the hinged front type with doors equipped with flush, brushed steel, cylinder tumbler-type locks with catches and spring-loaded door pulls. The flush lock shall not protrude beyond the front of the door. All panelboard locks shall be keyed alike. A circuit directory frame and card with a clear plastic covering shall be provided on the inside of the door. Panelboards shall be rated for use as Service Entrance Equipment where required by NEC. For all flush-installed house panelboards which serve common building spaces, install five spare empty 3/4" conduits stubbed to the above ceiling space. Panclboards shall be by General Electric, Square D, or Cutler-Hammer. Load.centers shall not be used unless indicated on plans. 7. NEC: "NEC" refers to the 2014 edition of the National Electrical Code.
- 28. EXTERIOR/WET LOCATION EQUIPMENT: All exterior enclosures or enclosures exposed to moist conditions shall be rated NEMA 3R or rated for use in damp or wet locations, as each case requires. All equipment labeled with 11WP" on Plans shall be rated for use in wet locations or provided with a listed weatherproof enclosure in accordance with NEC Article 406.9(B).
- 29. UNDERGROUND INSTALLATIONS: Where conduit is installed below grade, the minimum burial depth shall be 24", unless installed under building slab (where there is no minimum burial depth). Where rigid conduit is installed below grade, coat conduit and couplings with (2) coats of asphaltum paint. Underground primary conduit, installed in coordination with power company, shall be installed at a depth as directed by power company. Avoid all existing utilities. Any existing utilities damaged shall be repaired at Contractor1s expense and as directed by Architect. Restore any damaged paving to match existing. 0. IDENTIFICATION: Provide I" high laminated phenolic nameplates, permanently installed, with 3/8" high white
- letters on black, on the front of all disconnect switches, CB enclosures, panelboards, contactors, transformers, transient voltage surge suppressors, starters, and other similar typical electrical equipment enclosures, when shown as labeled on Plans. . CLEAN UP: During the progress of work, keep the Owner's premise in a neat and orderly condition, free from accumulation of debris resulting from this work. At the completion of the work, remove all material, scrap, etc. not a part of this Contract. OPERATION AND MAINTENANCE INSTRUCTIONS: Submit one set of all equipment catalogs and
- maintenance data to the Architect. Explain and demonstrate the electrical systems to Owner and/or Owner's 33. DRAWING LINEWEIGHTS: Items shown with bold/thick lineweight indicate work to be performed as part of this Contract. Items shown with screened/thin lineweight are existing to remain or by others. Items shown with screened/thin lineweight, which arc also shown with associated bold/thick lineweight text or notes, or items that are shown with bold/thick lineweight and labeled as existing, are existing and shall be modified as indicated in

### **ELECTRICAL GENERAL NOTES:**

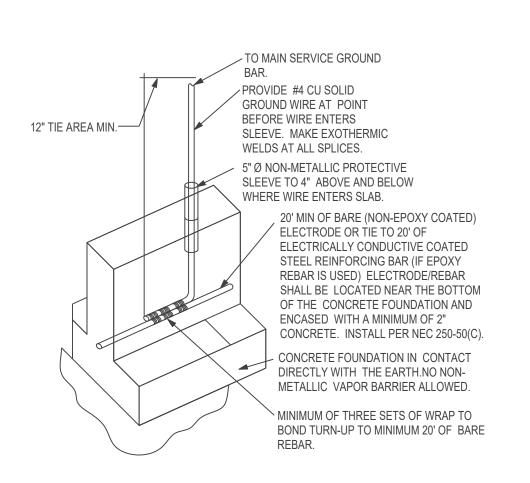
- DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATIONS, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATE WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS. REFERENCE COMPLETE CONSTRUCTION DOCUMENTS (ARCHITECTURAL, MECHANICAL, PLUMBING, AND STRUCTURAL) PRIOR TO COMMENCING WORK FOR ADDITIONAL INFORMATION AND REQUIREMENTS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT THE OWNER'S/ARCHITECT'S ATTENTION BEFORE
- PROCEEDING WITH WORK. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION. CONTRACTOR SHALL PROVIDE CONNECTIONS TO OWNER, CONTRACTOR, OR OTHER PARTY'S EQUIPMENT AND DEVICES, UNLESS OTHERWISE NOTED. ON THE DAY OF SPECIALTY EQUIPMENT INSTALLATION, THE ELECTRICIAN MUST BE ON SITE TO MAKE THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED PROJECT TO INSPECT THE EXISTING CONDITIONS
- AND DETERMINE THE SCOPE OF HIS WORK AND THE EXTENT OF DEMOLITION. THE SITE INSPECTION SHALL BE MADE PRIOR TO SUBMITTING BID FOR THE PROPOSED PROJECT. NO COMPENSATION WILL BE ALLOWED FOR FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL INFORM ARCHITECT PRIOR TO BIDDING OF DISCREPANCIES WHICH EXISTING BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS. REFER TO RISER DIAGRAM FOR FEEDER SIZES FOR PANELBOARDS. CONTRACTOR SHALL REVIEW CONSTRUCTION DOCUMENTS TO IDENTIFY MISCELLANEOUS POWER
- REQUIREMENTS AND PROVIDE CIRCUITING AS REQUIRED. COORDINATE POWER REQUIREMENTS WITH OTHER INSTALLERS. MISCELLANEOUS POWER REQUIREMENTS FOR CONTROL PANELS AND SMALL EQUIPMENT IS MANUFACTURER DEPENDENT AND MAY NOT BE SHOWN OR WILL BE DEFINED BY OTHERS. BEFER TO ARCHITECTURAL BEFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHT FIXTUR FINAL AIMING OF ALL ADJUSTABLE LIGHT FIXTURES TO BE AS DIRECTED BY ARCHITECT
- CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LIGHTING FIXTURES, RECEPTACLES, PANELBOARDS, ETC. WITH EXISTING STRUCTURE PIPING, ETC. AND MAKE ADJUSTMENTS AS REQUIRED. EDGE OF LIGHT SWITCH WALL PLATE SHALL BE NOT MORE THAN 4" AWAY FROM METAL/WOOD DOOR FRAME. TYPICAL FOR SINGLE OR MULTIPLE WALL SWITCHES. . COORDINATE ALL LIGHTING CONTROL SENSOR LOCATIONS AND MAKE NECESSARY ADJUSTMENTS PER MANUFACTURER RECOMMENDATIONS AND FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE WITH
- OWNER/ARCHITECT A POST OCCUPANCY TIME TO ADJUST ALL LIGHTING SENSORS. OVERCURRENT PROTECTION, WIRE SIZE, AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. REFER TO HVAC/ELECTRICAL SCHEDULE FOR WIRING INFORMATION.
- PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT. DO NOT SHARE NEUTRALS. . ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT ELECTRICAL REQUIREMENT OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO PURCHASING EQUIPMENT, VERIFY THE ELECTRICAL REQUIREMENTS WITH THE EQUIPMENT FURNISHED (NAME PLATE INFORMATION) AND MAKE CORRECTIONS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. COORDINATE EQUIPMENT LOCATIONS WITH MECHANICAL/PLUMBING DRAWINGS AND CONTRACTORS PRIOR TO ROUGH-IN. COORDINATE ALL 120V EXHAUST FAN CONTROLS WITH MECHANICAL PRIOR TO ROUGH-IN. 5. PROVIDE FINISHED COVERPLATES FOR ALL JUNCTION BOXES. ALL JUNCTION BOXES AND COVERPLATES SHALL BE PAINTED LABELED. REFER TO DETAILS ON THE DRAWINGS. 16. CONFIRM MOUNTING HEIGHTS AND COORDINATE LOCATION OF ALL OUTLETS, SWITCHES, AND OTHER DEVICES
- WITH ARCHITECTURAL ELEVATIONS (FURNITURE LAYOUT, EQUIPMENT DRAWINGS, ETC.) PRIOR TO ROUGH-IN. 7. ALL WIRING SHALL BE IN EMT CONDUIT UNLESS NOTED OR APPROVED OTHERWISE. 18. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL STRING. 19. COORDINATE EXACT LOCATION AND COVER TYPE (CARPET, TILE, OR WOOD) FO ALL FLOOR BOXES WITH ARCHITECT PRIOR TO ROUGH-IN.
- 20. WHERE NOTED, WIRE AND CONDUIT SIZE INDICATED ON HOMERUNS SHALL BE CONTINUOUS THROUGH CIRCUIT. . A GROUNDING CONDUCTOR SHALL BE INCLUDED IN EACH RACEWAY OR CABLE, SIZED IN ACCORDANCE WITH THE NATIONAL FLECTRICAL CODE. 2. PROVIDE SCALED DRAWINGS OF ALL ELECTRICAL ROOMS TO THE ELECTRICAL ENGINEERS FOR APPROVAL
- PRIOR TO ORDERING EQUIPMENT. DRAWINGS MUST INSURE PROPER CLEARANCES ARE BEING MAINTAINED PER THE NEC WITH ACTUAL EQUIPMENT BEING INSTALLED. TYPICAL FOR ALL NEW AND EXISTING ELECTRICAL 23. TERMINATIONS (LUGS, TERMINAL BLOCKS, ETC.) IN CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING CONTRACTORS. RELAYS. PANELBOARDS. TIME SWITCHES. ETC. SHALL BE RATED FOR 75C IN TEMPERATURE. I TERMINATIONS IN EQUIPMENT SUCH AS EXHAUST FANS, WATER HEATERS, AIR CONDITIONING UNITS, TEC. ARE
- RATED FOR 60C ONLY. THEN CONDUCTORS MUST BE DE-RATED AND USED IN COMPLIANCE WITH TABLE 310-16 OF CURRENT NEC AND SIZED FOR THE 60C COLUMN. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO.12 AND WHERE BRANCH CIRCUIT CONDUCTOR RUNS FROM SOURCE (PANEL) TO THE LAST DEVICE ON THE CIRCUIT EXCEEDS 100FT. IN LENGTH, THE CONDUCTORS SHALL BE NO.10 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. FOR RUNS OVER 200FT. IN LENGTH THE CONDUCTOR SHALL BE NO.8 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT.
- THE ABOVE APPLIES TO 120V CIRCUITS ONLY. 25. BRANCH CIRCUITING WIRES SHALL NOT PASS THROUGH ELECTRICAL DEVICES (PANELS, DISCONNECT SWITCHES, CONTRACTORS, ETC.) OTHER THAN THOSE DESIGNED FOR THE USE AS A JUNCTION BOX.
- 26. WIRE NUTS ARE NOT PERMITTED WITHIN THE ELECTRICAL PANEL OR ELECTRICAL DEVICES. ALL WIRING SHALL BE PULLED AT REQUIRED LENGTHS WITHOUT SPLICING WITHIN ELECTRICAL PANELS AND OTHER ELECTRICAL 7. BACK TO BACK RECEPTACLES IN ALL FIRE RATED WALLS SHALL BE INSTALLED PER THE INTERNATIONAL
- BUILDING CODE (IBC 2012) 28. PROVIDE ARC FLASH LABELING FOR ELECTRICAL EQUIPMENT PER NEC AND NFPA 70E. 29. CONTRACTOR SHALL ASSURE THAT ALL WORK CLEARANCES PER THE NEC ARE MET OR EXCEEDED WITH EQUIPMENT FURNISHED PRIOR TO ROUGH-IN. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH THE ELECTRICAL PLANS.
- 30. PROVIDE SEISMIC BRACING PER THE INTERNATIONAL BUILDING CODE (IBC 2012, CHAPTER 13). 31. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH OSHA, THE NATIONAL ELECTRICAL CODE, AND LOCAL GOVERNING AUTHORITIES 32. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, INSTALLATION REQUIREMENTS, AND ELECTRICAL
- REQUIREMENTS OF BANKING EQUIPMENT WITH BANKING EQUIPMENT VENDORS AND ARCHITECT PRIOR TO ROUGH-IN. 33. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, INSTALLATION REQUIREMENTS, AND ELECTRICAL REQUIREMENTS OF SECURITY EQUIPMENT WITH SECURITY EQUIPMENT VENDOR AND ARCHITECT PRIOR TO
- 34. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, INSTALLATION REQUIREMENTS, AND ELECTRICAL REQUIREMENTS OF VAULT AND VAULT EQUIPMENT PRIOR TO ROUGH-IN.

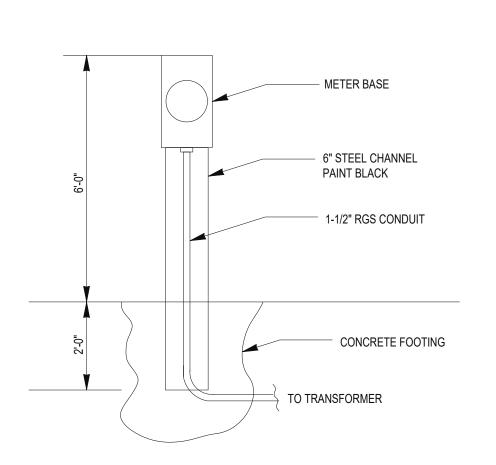
### **GFCI NOTES:**

ALL 15A/20A RECEPTACLES IN KITCHENS, FOOD PREP AREAS, RESTROOMS, OR ON EXTERIOR SHALL BE GFCI TYPE. GFCI RECEPTACLES SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 210.8 AND BE READILY ACCESSIBLE. FOR EQUIPMENT THAT WOULD HAVE TO BE MOVED TO RESET THE RECEPTACLE PER TH NEC DEFINITION, A GFCI BREAKER SHALL BE UTILIZED IN LIEU OF A RECEPTACLE.

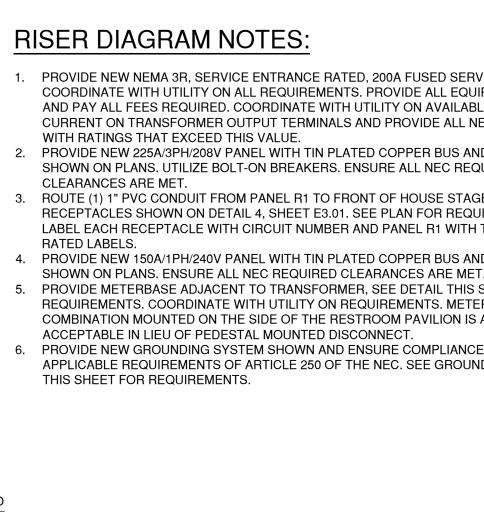


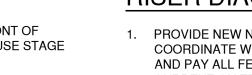
4 NEUTRAL / GROUND SYSTEM DETAIL
SCALE: NTS





2 METERBASE STANCHION DETAIL
SCALE: NTS

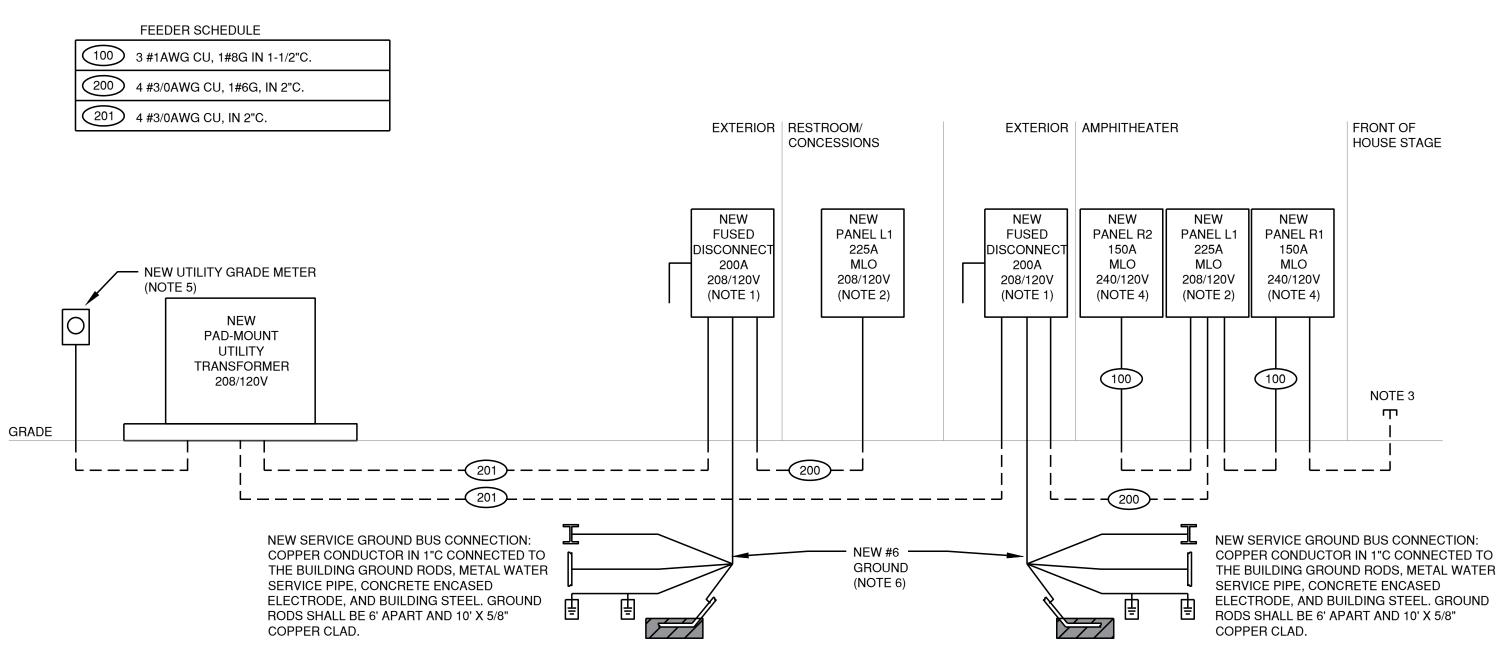




1. PROVIDE NEW NEMA 3R, SERVICE ENTRANCE RATED, 200A FUSED SERVICE DISCONNECT COORDINATE WITH UTILITY ON ALL REQUIREMENTS. PROVIDE ALL EQUIPMENT SHOWN AND PAY ALL FEES REQUIRED. COORDINATE WITH UTILITY ON AVAILABLE FAULT CURRENT ON TRANSFORMER OUTPUT TERMINALS AND PROVIDE ALL NEW EQUIPMENT WITH RATINGS THAT EXCEED THIS VALUE. 2. PROVIDE NEW 225A/3PH/208V PANEL WITH TIN PLATED COPPER BUS AND LOCATE WHERE

SHOWN ON PLANS. UTILIZE BOLT-ON BREAKERS. ENSURE ALL NEC REQUIRED CLEARANCES ARE MET. 3. ROUTE (1) 1" PVC CONDUIT FROM PANEL R1 TO FRONT OF HOUSE STAGE FOR RECEPTACLES SHOWN ON DETAIL 4, SHEET E3.01. SEE PLAN FOR REQUIRED CIRCUITS. LABEL EACH RECEPTACLE WITH CIRCUIT NUMBER AND PANEL R1 WITH TYPED EXTERIOR RATED LABELS. 4. PROVIDE NEW 150A/1PH/240V PANEL WITH TIN PLATED COPPER BUS AND LOCATE WHERE

5. PROVIDE METERBASE ADJACENT TO TRANSFORMER, SEE DETAIL THIS SHEET FOR REQUIREMENTS. COORDINATE WITH UTILITY ON REQUIREMENTS. METER/DISCONNECT COMBINATION MOUNTED ON THE SIDE OF THE RESTROOM PAVILION IS ALSO ACCEPTABLE IN LIEU OF PEDESTAL MOUNTED DISCONNECT. PROVIDE NEW GROUNDING SYSTEM SHOWN AND ENSURE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF ARTICLE 250 OF THE NEC. SEE GROUNDING DETAILS ON



ELECTRICAL RISER DIAGRAM

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Construction Drawings

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**ELECTRICAL** LEGEND, NOTES SPECIFICATIONS, AND DETAILS

SHEET TITLE

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**ARCHITECT** 

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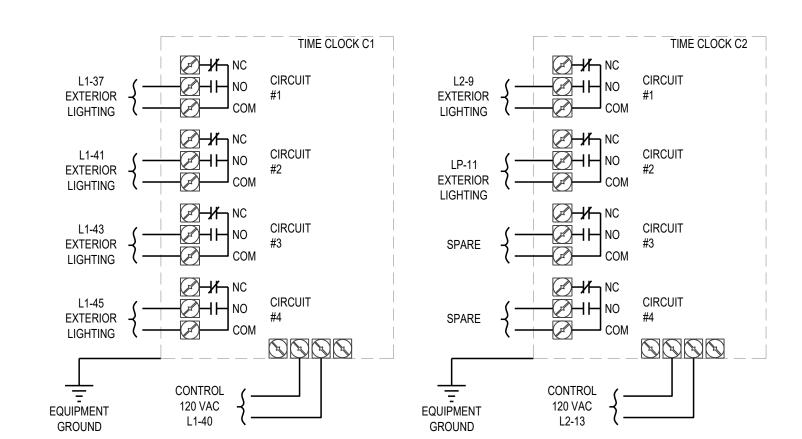
REVISION # DATE / COMMENTS

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																			DISCO	ONNECT	(NOTE 1)	
EQUIPMENT NAME	LOCATION / SERVES	VOLTAGE	PHASE	НР	KW	KW / POLE	FLA	MCA	МОСР	BREAKER AMPACITY	PANEL		FE	EDER	ł		S	ZE	POLES	FUSE SIZE	ENCLOSURE	CONTROL
MHP / MFC-1	RESTROOM PAVILLION	208	1			0.92	8.8	11.0	25	25	L1-1,3	2 # 10	,1#	[‡] 10	G-	1/2	'C.	30	2	NF	NEMA 3R	BY DIVISION 15 (NOTE 1)
MHP / MFC-2	RESTROOM PAVILLION	208	1			0.92	8.8	11.0	25	25	L1-8,10	2 # 10	,1#	[‡] 10	G-	1/2	C.	30	2	NF	NEMA 3R	BY DIVISION 15 (NOTE 1)
MHP / MFC-3	RESTROOM PAVILLION	208	1			0.92	8.8	11.0	25	25	L1-5,7	2 # 10	,1#	[‡] 10	G-	1/2	'C.	30	2	NF	NEMA 3R	BY DIVISION 15 (NOTE 1)
MHP / MFC-4	RESTROOM PAVILLION	208	1			0.92	8.8	11.0	25	25	L1-12,14	2 # 10	,1#	[‡] 10	G-	1/2	C.	30	2	NF	NEMA 3R	BY DIVISION 15 (NOTE 1)
MHP / MFC-5	RESTROOM PAVILLION	208	1			0.92	8.8	11.0	25	25	L1-9,11	2 # 10	,1#	[‡] 10	G-	1/2	'C.	30	2	NF	NEMA 3R	BY DIVISION 15 (NOTE 1)
MHP / MFC-6	AMPHITHEATER	208	1			1.58	15.2	19.0	25	25	L2-5,7	2 # 10	,1#	[‡] 10	G-	1/2	C.	30	2	NF	NEMA 3R	BY DIVISION 15 (NOTE 1)
EF-1	RESTROOM PAVILLION	120	1			0.16	1.3		20	20	L1-39	2 # 12	,1#	[‡] 12	G-	1/2	C.		МОТО	R RATE	D SWITCH	BY DIVISION 15
EF-2	RESTROOM PAVILLION	120	1			0.16	1.3		20	20	L1-39	2 # 12	,1#	12	G-	1/2	C.		МОТО	R RATE	D SWITCH	BY DIVISION 15
EWH	RESTROOM PAVILLION	208	3		12.0	4.00			60	60	L1-2,4,6	3 # 4	,1#	[‡] 10	G-	1 '	C.	50	3	NF	NEMA 1	BY DIVISION 15

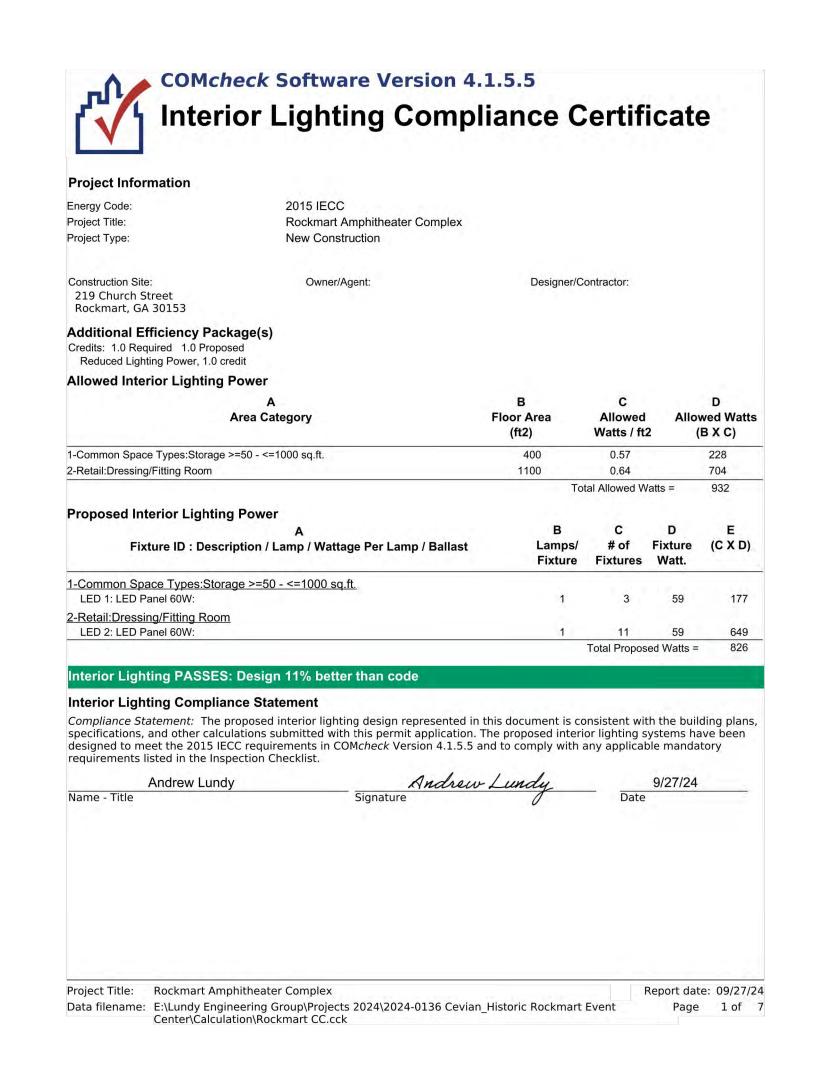
	T				MOUNTING/			COLOR	
FIXTURE DESIGNATION	GENERIC DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	ALLOWANCE	COLOR	HEIGHT	VOLTAGE	LAMP	TEMP.	WATT
		HE WILLIAMS #11-4-L52/830-S-AF12125-DRV-120V							
A1		PROVIDE EM/10W BATTERY WHERE INDICATED		WHITE	SURFACE	120	5200LM LED	3000K	59
ΛI	LENSED TROFFER								
		CAMMAN LIGHTING #OW610-48-30K-CLV1-PSB							
D.1	LED WALL SCONCE	PROVIDE REMOTE BATTERY WHERE INDICATED "B1E"		SATIN	SURFACE	120	3400LM LED	3000K	40
B1	LED WALL SCONCE			BLACK	SURFACE	120	3400LM LED	3000K	40
		NIE EEL KOMEDIG WOETS AN DAY ONG A 105 ONG							
		WE-EF LIGHTING #CFT 540-RAL 9004-105-0080 POLE #AML-Z-ANC-9004-693-1230 5X5 16'		_			14000LM		
C1	POST TOP FIXTURE	POLE #AML-Z-ANC-9004-093-1230 3X3 10		BLACK	POLE	120	LED	3000K	108
		LANDSCAPE FORMS INC. #MULTIPLICITY 450L5-050F-30K-UV1-EM							
D1	BOLLARD	POWDER COAT MBK MATT BLACK		BLACK	SURFACE	120	865LM LED	3000K	20
				┥					
		CONTECH LIGHTING#TLNEAC-H-1-SS-30K-SEE PLANS FOR LENGTH							
E1	TAPE LIGHT	PROVIDE ALUMINUM MOUNTING CHANNEL AND STAINLESS CLIPS		WHITE	SURFACE	120	53LM/FT	3000K	4W/FT
Li									
		SURE-LITES #LPX-7							
X1	EXIT SIGN			WHITE	SURFACE	120	LED		5





1. DISCONNECT SWITCH IS NOT REQUIRED IF UNIT IS PROVIDED WITH DISCONNECT OR IF UNIT HAS CORD/PLUG AND RECEPT ACLE.

2. INTERIOR UNIT FED FROM EXTERIOR UNIT. PROVIDE CONDUIT AND 120 V CIRCUIT BET WEEN UNITS AND NEMA 1 DISCONNECT AT INTERIOR UNIT.



	k Software Ver r Lighting (			Certi	ficat	te
Project Information						
Energy Code: Project Title: Project Type: Exterior Lighting Zone	2015 IECC Rockmart Amphitheater New Construction 2 (Neighborhood busine					
Construction Site: 219 Church Street Rockmart, GA 30153	Owner/Agent:		Designer/Co	ontractor:		
Allowed Exterior Lighting Pow	ver					
A Area/Surface Categ	ory	B Quantity	C Allowed Watts / Unit	D Tradable Wattage		E ed Watts X C)
Special feature area		8000 ft2	0.14	Yes	1	120
Walkway < 10 feet wide		250 ft of	0.7	Yes		175
	e	150 ft2	0.1	No		15
	d between tradable areas/surfac	Total All	Total Tradab Total All owed Supplement	ole Watts (a) = owed Watts = tal Watts (b) =	= 1	1295 1310 600
(a) Wattage tradeoffs are only allowe (b) A supplemental allowance equal to	d between tradable areas/surfacto 600 watts may be applied towa	Total All	Total Tradab Total All owed Supplement	ole Watts (a) = owed Watts = tal Watts (b) =	= 1	1295 1310 600
(a) Wattage tradeoffs are only allower (b) A supplemental allowance equal to Proposed Exterior Lighting Po	ed between tradable areas/surfacto 600 watts may be applied towa wwer A	Total All es. ard compliance of b	Total Tradab Total All owed Supplement	ole Watts (a) = owed Watts = tal Watts (b) =	= 1	1295 1310 600
(a) Wattage tradeoffs are only allower (b) A supplemental allowance equal to Proposed Exterior Lighting Po	d between tradable areas/surfacto 600 watts may be applied towa	Total All es. ard compliance of b	Total Tradab Total All owed Supplement oth non-tradable a	ole Watts (a) = owed Watts = tal Watts (b) = and tradable a	= 1 = areas/surfac	1295 1310 600 ces.
(a) Wattage tradeoffs are only allowe (b) A supplemental allowance equal to a supplemental allowance.  Proposed Exterior Lighting Positive ID: Description	od between tradable areas/surfacto 600 watts may be applied towar wwer A n / Lamp / Wattage Per Lam	Total All es. ard compliance of b	Total Tradab Total All owed Supplement oth non-tradable a B Lamps/	ole Watts (a) = owed Watts = tal Watts (b) = and tradable a  C # of	e areas/surface D Fixture	1295 1310 600 ces.
(a) Wattage tradeoffs are only allowe (b) A supplemental allowance equal to  Proposed Exterior Lighting Po  Fixture ID: Description  Special feature area (8000 ft2): Trade  LED 1: LED Panel 110W:  Valkway < 10 feet wide (250 ft of wattage)	ed between tradable areas/surfacto 600 watts may be applied towar wer An / Lamp / Wattage Per Lam	Total All es. ard compliance of b p / Ballast	Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture	ole Watts (a) = owed Watts = tal Watts (b) = and tradable a  C # of Fixtures	D Fixture Watt.	1295 1310 600 ces. E (C X D)
(a) Wattage tradeoffs are only allowe (b) A supplemental allowance equal to  Proposed Exterior Lighting Po  Fixture ID: Description  Special feature area (8000 ft2): Trade  LED 1: LED Panel 110W:  Valkway < 10 feet wide (250 ft of watten)  LED 2: LED Panel 19W:	od between tradable areas/surfact to 600 watts may be applied towar wer An / Lamp / Wattage Per Lam dable Wattage	Total All es. ard compliance of b p / Ballast tage	Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture	ole Watts (a) = owed Watts = tal Watts (b) = and tradable a  C # of Fixtures	D Fixture Watt.	1295 1310 600 ces. E (C X D)
(a) Wattage tradeoffs are only allowe (b) A supplemental allowance equal to a supplemental s	od between tradable areas/surfact to 600 watts may be applied towar wer An / Lamp / Wattage Per Lam dable Wattage	Total All es. ard compliance of b p / Ballast tage	Total Tradab Total All owed Supplement oth non-tradable a  B Lamps/ Fixture  1  1	ole Watts (a) = owed Watts = tal Watts (b) = and tradable a  C # of Fixtures  4 8	D Fixture Watt.  108 20 40	1295 1310 600 ces. <b>E</b> (C X D) 432 160 560
(a) Wattage tradeoffs are only allowe (b) A supplemental allowance equal to the proposed Exterior Lighting Positive ID: Description  Special feature area (8000 ft2): Trade LED 1: LED Panel 110W:  Valkway < 10 feet wide (250 ft of wat LED 2: LED Panel 19W:  Illuminated area of facade wall or supplementations.	od between tradable areas/surfact to 600 watts may be applied towar wer An / Lamp / Wattage Per Lam dable Wattage	Total All es. ard compliance of b p / Ballast tage	Total Tradab Total All owed Supplement oth non-tradable a  B Lamps/ Fixture  1  1	ole Watts (a) = owed Watts = tal Watts (b) = and tradable a  C # of Fixtures  4	D Fixture Watt.  108 20 40	1295 1310 600 ces. <b>E</b> (C X D) 432 160 560
(a) Wattage tradeoffs are only allowe (b) A supplemental allowance equal to the proposed Exterior Lighting Positive ID: Description  Special feature area (8000 ft2): Trade LED 1: LED Panel 110W:  Walkway < 10 feet wide (250 ft of walked) 2: LED Panel 19W:  Illuminated area of facade wall or supplemental surface area (and a surface).	ed between tradable areas/surfacto 600 watts may be applied towards.  An / Lamp / Wattage Per Lamedable Wattage  alkway length): Tradable Wattage (150 ft2): Non-tradable	Total All es. ard compliance of b p / Ballast tage Wattage	Total Tradab Total All owed Supplement oth non-tradable a  B Lamps/ Fixture  1  1	ole Watts (a) = owed Watts = tal Watts (b) = and tradable a  C # of Fixtures  4 8	D Fixture Watt.  108 20 40	1295 1310 600 ces. <b>E</b> (C X D) 432 160 560
(a) Wattage tradeoffs are only allowe (b) A supplemental allowance equal to represent the proposed Exterior Lighting Positive ID: Description  Fixture ID: Description  Special feature area (8000 ft2): Trace LED 1: LED Panel 110W:  Walkway < 10 feet wide (250 ft of water) LED 2: LED Panel 19W:  Illuminated area of facade wall or sure LED 3: LED Panel 40W:	od between tradable areas/surfacto 600 watts may be applied toward wer  An / Lamp / Wattage Per Lam  dable Wattage  alkway length): Tradable Wattage  urface (150 ft2): Non-tradable	Total All es. ard compliance of b p / Ballast tage Wattage	Total Tradab Total All owed Supplement oth non-tradable a  B Lamps/ Fixture  1  1	ole Watts (a) = owed Watts = tal Watts (b) = and tradable a  C # of Fixtures  4 8	D Fixture Watt.  108 20 40	1295 1310 600 ces. <b>E</b> (C X D) 432 160 560
(a) Wattage tradeoffs are only allowe (b) A supplemental allowance equal to Proposed Exterior Lighting Positive ID: Description Fixture ID: Description Exterior Light area (8000 ft2): Trade LED 1: LED Panel 110W: Walkway < 10 feet wide (250 ft of walked 2: LED Panel 19W: Illuminated area of facade wall or supplemental LED 3: LED Panel 40W: Exterior Lighting PASSES: Description (a) Wattage Passes: Description (b) Assume the properties of the panel 40W:	od between tradable areas/surfactor 600 watts may be applied towards of 600 watts may be applied towards.  An / Lamp / Wattage Per Lambdable Wattage  alkway length): Tradable Wattage  alkway length): Non-tradable  sign 56% better than coordinate to be submitted with this permit quirements in COMcheck Verson Checklist.	Total All es. ard compliance of b  p / Ballast  tage  Wattage  de  epresented in this application. The sion 4.1.5.5 and the second control of the sion 4.1.5.5 and the second control of the sion 4.1.5.5 and the second control of the second con	Total Tradable Total All owed Supplement oth non-tradable at B Lamps/ Fixture  1 1 1 Total Tradable at the second	ole Watts (a) = owed Watts = tal Watts (b) = and tradable a  C # of Fixtures  4  8  14  dable Propos	D Fixture Watt.  108 20 40 ed Watts =	1295 1310 600 ces. <b>E</b> (C X D) 432 160 560 592
(a) Wattage tradeoffs are only allower (b) A supplemental allowance equal to a supplemental equal equal to a supplemental equal eq	od between tradable areas/surfactor 600 watts may be applied towards of 600 watts may be applied towards.  An / Lamp / Wattage Per Lambdable Wattage  alkway length): Tradable Wattage  alkway length): Non-tradable  sign 56% better than coordinate to be submitted with this permit quirements in COMcheck Verson Checklist.	Total All es. ard compliance of b  p / Ballast  tage  Wattage  epresented in this application. The	Total Tradable Total All owed Supplement oth non-tradable at B Lamps/ Fixture  1 1 1 Total Tradable at the second	ole Watts (a) = owed Watts = tal Watts (b) = and tradable a  C # of Fixtures  4  8  14  dable Propos	D Fixture Watt.  108 20 40 ed Watts =	1295 1310 600 ces. <b>E</b> (C X D) 432 160 560 592

Data filename: E:\Lundy Engineering Group\Projects 2024\2024-0136 Cevian_Historic Rockmart Event Page 2 of 7 Center\Calculation\Rockmart CC.cck

					VOLTAGE:	208	Y/ 120V
CIRCUIT DESCRIPTION	PANEL L1	PANEL L2	PANEL RI	PANEL R2		CONNECTED	DEMAN
LIGHTING	3.7	2.7	0.0	0.0		10.15	12.69
RECEPTACLE	3.3	1.7	9.2	7.8		22.10	16.05
MOTOR	0.0	0.0	0.0	0.0		0.00	0.00
HEATING	18.0	0.0	0.0	0.0		18.00	18.00
COOLING	9.2	3.2	0.0	0.0		12.36	12.36
KITCHEN	9.5	0.0	0.0	0.0		9.48	9.48
				NE		/ERSIFIED KVA ERSIFIED AMPS	69 190

PA	NEL NA	ME.	LOCATION:		V	OLTAGE:	208	3 Y/120V	3 PH	ASE	MOUNTING / ENCLOSURE:	SURFACE	2 /	NEM.
	L1		STORAGE INTERIOR WALL				225A	MLO						
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	В	С	CKT	KVA	CIRCUIT DESCRIPTION	TYPE	POLES	AM
25*	2	AC	MHP / MFC-1	0.92	1	4.92			2	4.00		Н		
23		AC		0.92	3		4.92		4	4.00	]EWH	Н	3	60
25*	2	AC	MHP / MFC-3	0.92	5			4.92	6	4.00		Н		
23		AC	1VIII 7 IVII C-3	0.92	7	1.84			8	0.92	MHP / MFC-2	AC	2	25
25*	2	AC	MHP / MFC-5	0.92	9		1.84		10	0.92	IVIIII 7 IVII C-2	AC		23
23		AC		0.92	11			1.84	12	0.92	MHP / MFC-4	AC	2	25
20	1		HAND DRYER	1.00	13	1.92			14	0.92	With 7 Mil C-4	AC		
20	1		HAND DRYER	1.00	15		1.72		16		REFRIGERAT OR MERCH	K	1	20
20	1		HAND DRYER	1.00	17			2.18	18		POPCORN MACHINE	K	1	20
20	1		HAND DRYER	1.00	19	1.25			20		ICE MAKER	K	1	20
20	1		HAND DRYER	1.00	21		1.72		22		RECEPS TICKETS/CONCESSIONS	R	1	20
20	1	**	HAND DRYER	1.00	23			2.44	24		WARMING CABINET	K	1	20
20	1	R	RECEP EXTERIOR	0.18	25	1.62			26		WARMING CABINET	K	1	20
20	1	R	RECEP EXTERIOR	0.18	27		0.84		28		KEG	K	1	20
20	1	K	FREEZER	0.96	29			1.68	30	0.72	RECEPS TICKETS/CONCESSIONS	R	1	20
20	1	K	REFRIGERATOR	0.65	31	1.19			32	0.54	RECEPS RESTROOMS/STORAGE	R	1	20
20	1	K	HOT DOG ROLLER	1.46	33		2.00		34	0.54	RECEPS ST ORAGE	R	1	20
20	1	K	REFRIGERAT OR MERCH	0.72	35			0.90	36	0.18	RECEP STORAGE	R	1	20
20	1	L	LTG BUILDING EXTERIOR	0.40	37	0.58			38		RECEP STORAGE	R	1	20
20	1	L	LTG BUILDING INTERIOR	0.97	39		1.07		40	0.10	TIME CLOCK C1 CONTROL	R	1	20
20	1	L	LTG TAPE LIGHT ROOF	0.50	41			0.50	42		SPARE		1	20
20	1	L	LTG TAPE LIGHT ROOF	0.50	43	0.50			44		SPARE		1	20
20	1	L	LTG BOLLARDS	0.16	45		0.16		46		SPARE		1	20
20	1	L	LTG SIGN	1.20	47			1.20	48		SPARE		1	20
20	1		SPARE		49				50		SPARE		1	20
20	1		SPARE		51				52		SPARE		1	20
20	1		SPARE		53				54		SPARE		1	20
				PHASE TO	TAL	13.8	14.3	15.7	KVA			•	•	
											TOTAL CONNECTED LOAD	44	KVA	121 A
PR∩VII	DE HAC	R TYPE	CIRCUIT BREAKER								TOTAL DEMAND LOAD	32	KVA	89 A

PA	PANEL NAME LOCATION:		LOCATION:	VOLTAGE:			208 Y/ 120V 3 P			ASE	MOUNTING/ENCLOSURE:	SURFACE /		NEMA
	L2		BACK OF HOUSE INTERIOR WALL				225A	MLO						
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	В	С	CKT	KVA	CIRCUIT DESCRIPTION	TYPE	POLES	AMPS
100	2		PANEL RI	1.50	1	3.00			2	1.50	PANEL R2		2	100
100	_		THEE	1.50	3		3.00		4	1.50				
25*	2	AC	MHP / MFC-6	1.58	5			1.76	6	0.18	RECEP EXTERIOR	R	1	20
23		AC		1.58	7	1.76			8	0.18	RECEP AT PANEL	R	1	20
20	1	L	POLE LIGHTS AMPHITHEATER	0.43	9		0.97		10	0.54	RECEP BACK OF HOUSE	R	1	20
20	1	L	TAPE LIGHTS AMPHITHEATER	0.50	11			1.22	12	0.72	RECEPS AMPHITHEATER	R	1	20
20	1	R	TIME CLOCK C2 CONTROL	0.10	13	0.28			14	0.18	LTG BACK OF HOUSE INTERIOR	L	1	20
20	1	R	RECEPS AMPHITHEATER	0.72	15		0.80		16	0.08	LTG BACK OF HOUSE EXTERIOR	L	1	20
20	1		SPARE		17			0.50	18	0.50	LTGTAPE LIGHT UPPER ROOF	L	1	20
20	1		SPARE		19	0.50			20	0.50	LTGTAPE LIGHT LOWER ROOF	L	1	20
20	1		SPARE		21		0.50		22	0.50	LTGTAPE LIGHT LOWER ROOF	L	1	20
20	1		SPARE		23				24		SPACE		1	
	1		SPACE		25				26		SPACE		1	
	1		SPACE		27				28		SPACE		1	
	1		SPACE		29				30		SPACE		1	
	1		SPACE		31				32		SPACE		1	
	1		SPACE		33				34		SPACE		1	
	1		SPACE		35				36		SPACE		1	
	1		SPACE		37				38		SPACE		1	
	1		SPACE		39				40		SPACE		1	
20	1		SPACE		41				42		SPACE		1	
			PF	ASE TO	TAL	5.5	5.3	3.5	KVA	•	•	•	•	•
								•	_		TOTAL CONNECTED LOAD	14	KVA	40 A
PROVII	DE HAC	R TYPE	CIRCUIT BREAKER								TOTAL DEMAND LOAD	15	KVA	42 A

PA	PANEL NAME LOCATION:		1	V	OLTAGE:	120	/ 240 V	SING	LE PH	MOUNTING / ENCLOSURE:	SURFACE	Ξ /	JEMA 31	
R1			STAGE											
					BUS	S RATING:	150	AMPS						
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A		В	CKT	KVA	CIRCUIT DESCRIPTION	TYPE	POLES	AMPS
30	2	R R	30A STAGE RECEP	1.50	3	3.00		3.00	2 4	1.50	30A STAGE RECEP	R R	2	30
20	1	R	STAGE RECEPS	0.18	5	0.36			6	0.18	STAGE RECEPS	R	1	20
20	1	R	STAGE RECEPS	0.18	7			0.36	8	0.18	STAGE RECEPS	R	1	20
20	1	R	STAGE RECEPS	0.18	9	0.36			10	0.18	STAGE RECEPS	R	1	20
20	1	R	STAGE RECEPS	0.18	11			0.36	12	0.18	STAGE RECEPS	R	1	20
20	1	R	STAGE RECEPS	0.18	13	0.36			14	0.18	STAGE RECEPS	R	1	20
20	1	R	RECEPS FRONT OF HOUSE STAGE	0.18	15			0.36	16	0.18	RECEPS FRONT OF HOUSE STAGE	R	1	20
20	1	R	RECEPS FRONT OF HOUSE STAGE	0.18	17	0.36			18	0.18	RECEPS FRONT OF HOUSE STAGE	R	1	20
20	1	R	RECEPS FRONT OF HOUSE STAGE	0.18	19			0.36	20	0.18	RECEPS FRONT OF HOUSE STAGE	R	1	20
20	1	R	RECEPS FRONT OF HOUSE STAGE	0.18	21	0.36			22	0.18	RECEPS FRONT OF HOUSE STAGE	R	1	20
20	1		SPARE		23				24		SPARE		1	20
20	1		SPARE		25				26		SPARE		1	20
20	1		SPARE		27				28		SPARE		1	20
20	1		SPARE		29				30		SPARE		1	20
20	1		SPARE		31				32		SPARE		1	20
20	1		SPARE		33				34		SPARE		1	20
20	1		SPARE		35				36		SPARE		1	20
20	1		SPARE		37				38		SPARE		1	20
20	1		SPARE		39				40					
			PF	HASE TO	)TAL	4.8		4.4	_KVA					Tao .
											TOTAL CONNECTED LOAD		KVA	
											TOTAL DEMAND LOAD	<u> </u>	KVA	39 A

	R2		STAGE											
					BUS	RATING:	150	AMPS						
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A		В	CKT	KVA	CIRCUIT DESCRIPTION	TYPE	POLES	SAMPS
30	2	R	30A STAGE RECEP	1.50	1	3.00			2	1.50	30A STAGE RECEP	R	2	30
50		R		1.50	3			3.00	4	1.50		R		50
20	1	R	STAGE RECEPS	0.18	5	0.36			6	0.18	STAGE RECEPS	R	1	20
20	1	R	STAGE RECEPS	0.18	7			0.36	8	0.18	STAGE RECEPS	R	1	20
20	1	R	STAGE RECEPS	0.18	9	0.36			10	0.18	STAGE RECEPS	R	1	20
20	1	R	STAGE RECEPS	0.18	11			0.36	12	0.18	STAGE RECEPS	R	1	20
20	1	R	STAGE RECEPS	0.18	13	0.36			14	0.18	STAGE RECEPS	R	1	20
20	1		SPARE		15				16		SPARE		1	20
20	1		SPARE		17				18		SPARE		1	20
20	1		SPARE		19				20		SPARE		1	20
20	1		SPARE		21				22		SPARE		1	20
20	1		SPARE		23				24		SPARE		1	20
20	1		SPARE		25				26		SPARE		1	20
20	1		SPARE		27				28		SPARE		1	20
20	1		SPARE		29				30		SPARE		1	20
20	1		SPARE		31				32		SPARE		1	20
20	1		SPARE		33				34		SPARE		1	20
20	1		SPARE		35				36		SPARE		1	20
20	1		SPARE		37				38		SPARE		1	20
20	1		SPARE		39				40					
				PHASE TO	TAL	4.1		3.7	KVA			•		
									_		TOTAL CONNECTED LOAD	8	KVA	33 A
											TOTAL DEMAND LOAD	8	KVA	33 A

PANEL NAME LOCATION:

VOLTAGE: 120 / 240 V SINGLE PH MOUNTING / ENCLOSURE: SURFACE / JEMA 3R



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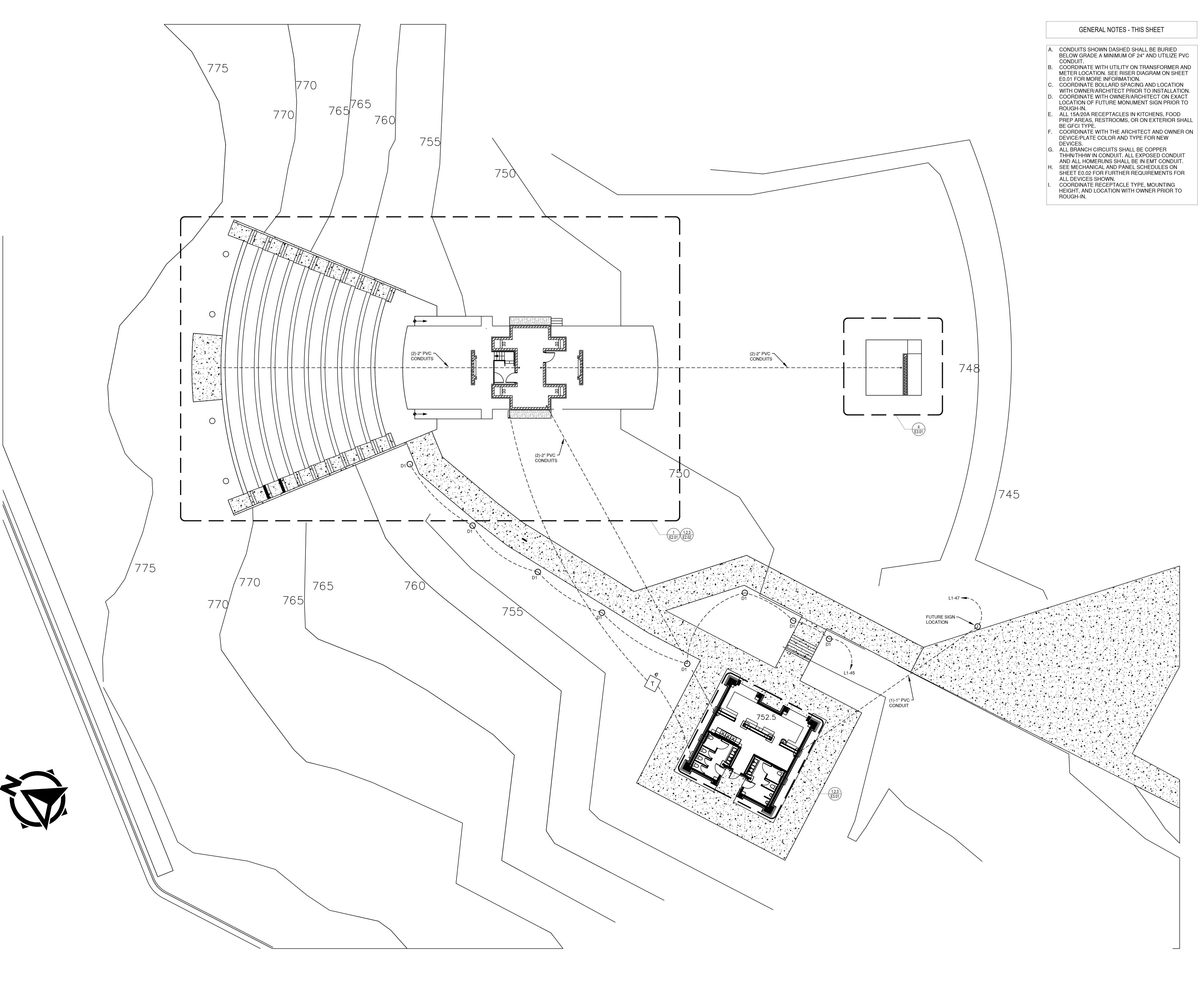
SHEET TITLE

**DETAILS** 

ELECTRICAL

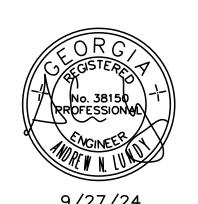
SCHEDULES &

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HAVE RECESSED CONDUIT AND JUNCTION BOXES.

CONSTRUCTION TO ROUTE CONDUIT AND BOXES.

**KEY NOTES - THIS SHEET** 

COORDINATE WITH OTHER TRADES DURING

SEE ELEVATIONS ABOVE FOR PANEL AND

2. PROPOSED LOCATION OF LIGHTING CONTROLS

FOR SEATING TAPE LIGHTING AND POLE LIGHTS.

COORDINATE WITH OWNER/ARCHITECT FOR FINAL

RECEPTACLE MOUNTING INTENT.

NO. COMMENTS

LOCATION.

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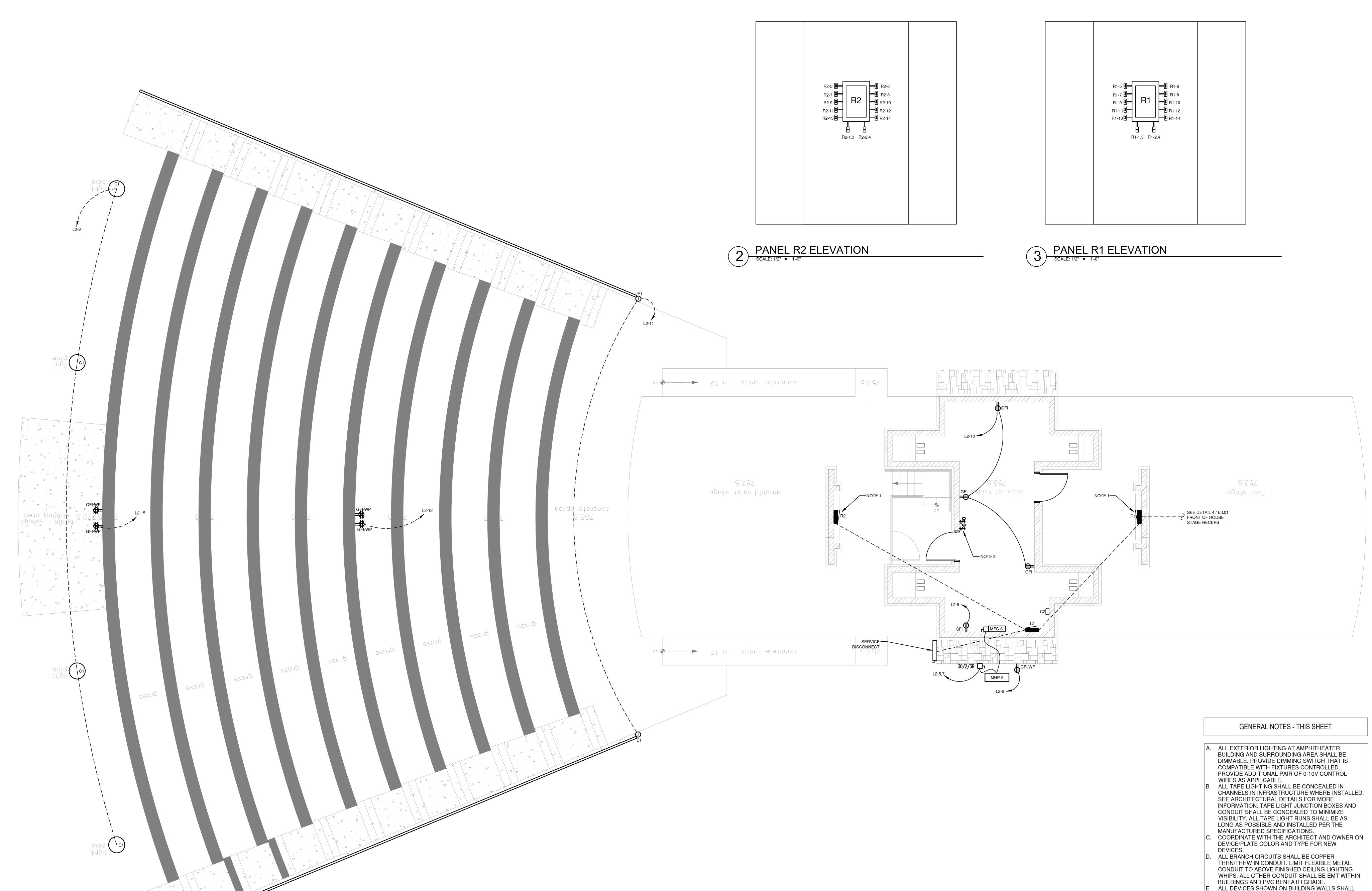
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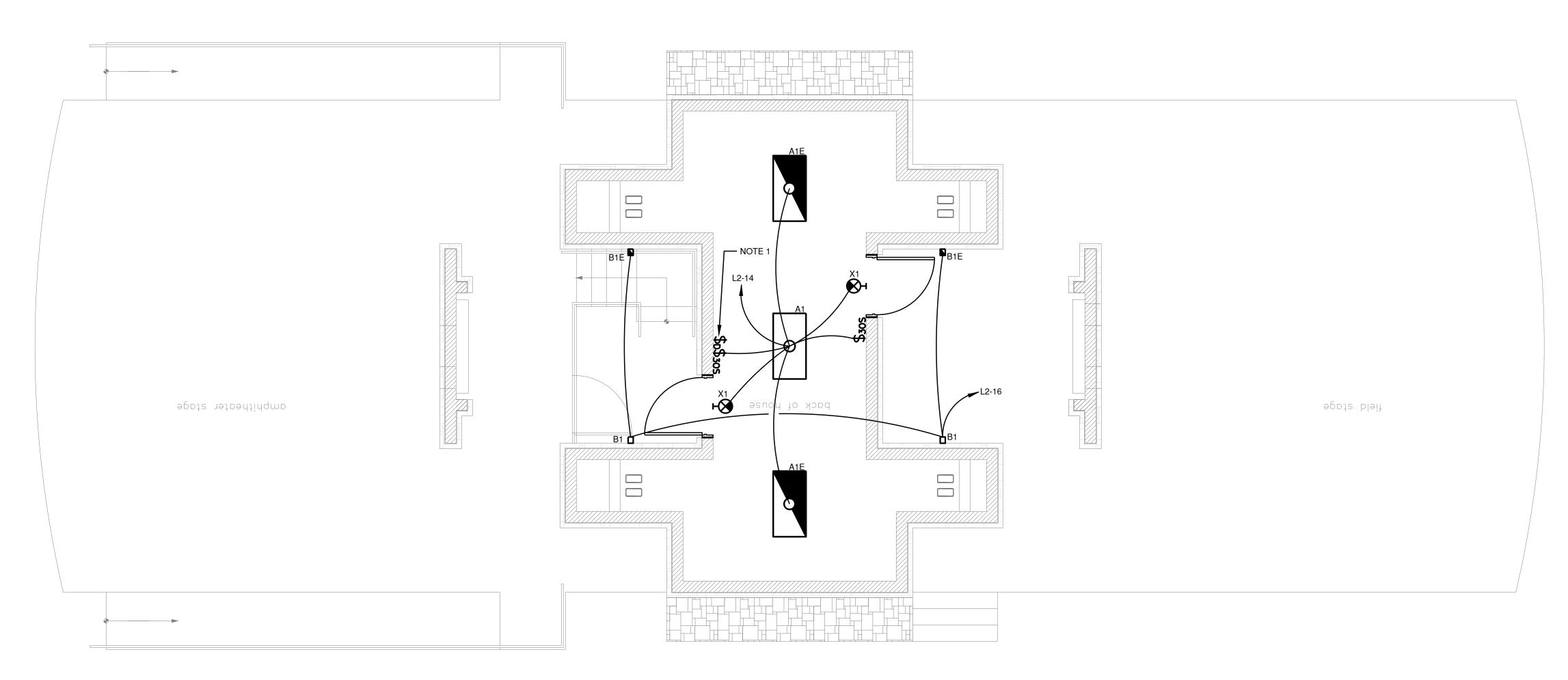
ELECTRICAL

AMPHITHEATER

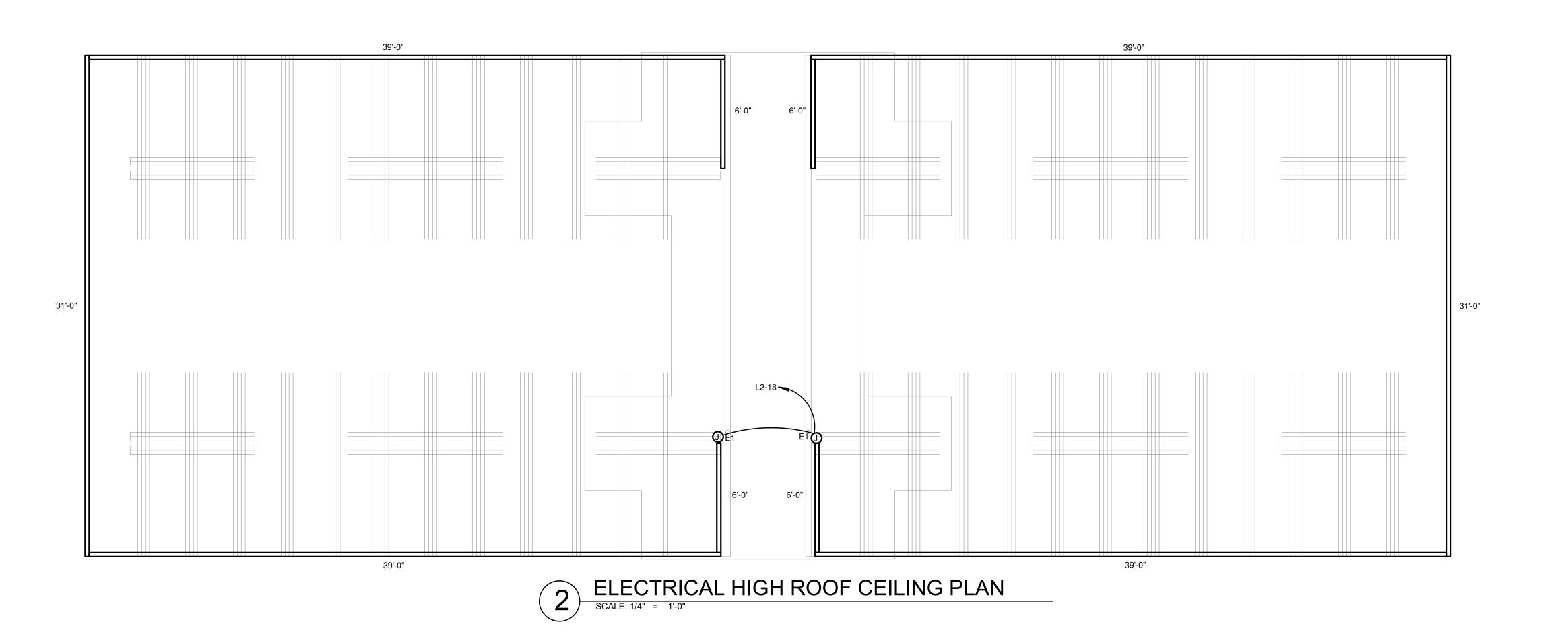
ENLARGED PLANS

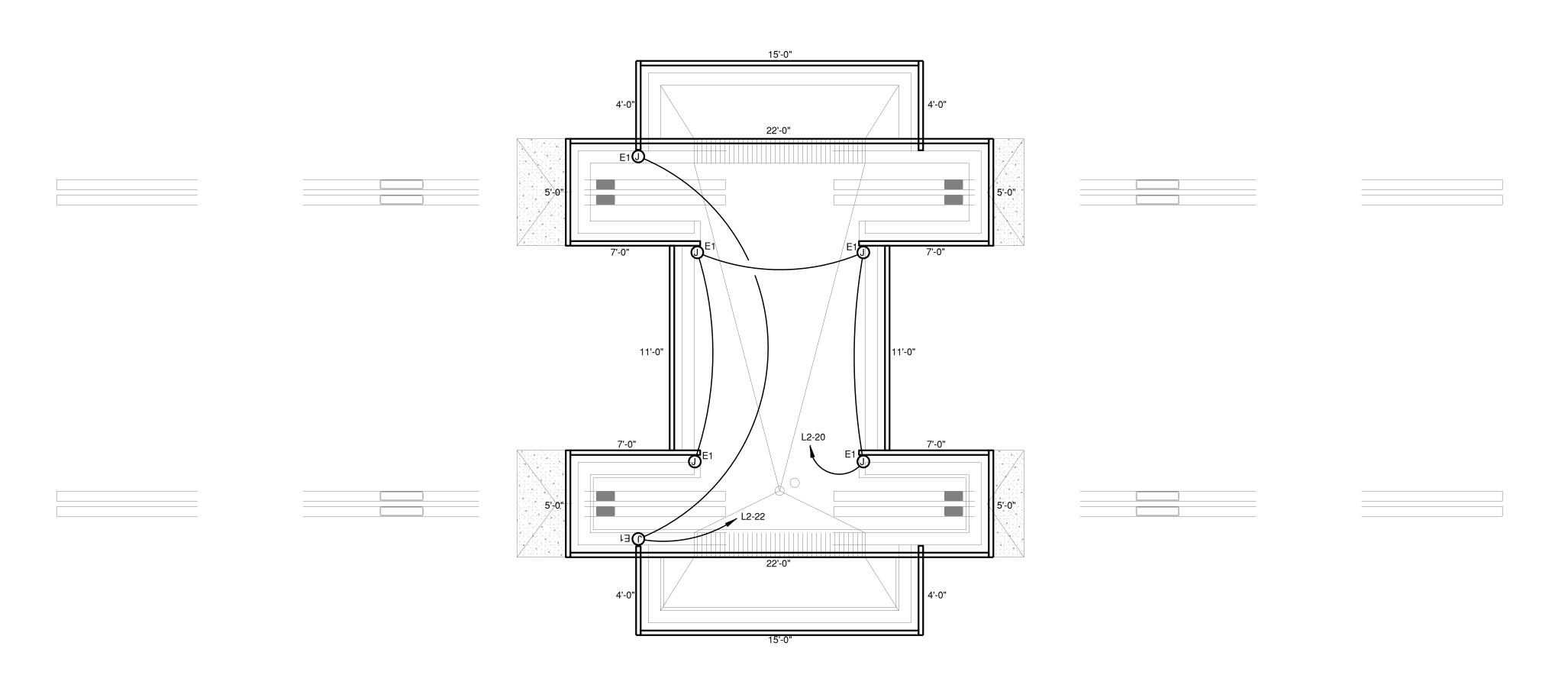
SHEET TITLE
E2.01





### 3 ELECTRICAL CEILING PLAN SCALE: 1/4" = 1'-0"





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

### GENERAL NOTES - THIS SHEET

A. ALL EXTERIOR LIGHTING AT AMPHITHEATER
BUILDING AND SURROUNDING AREA SHALL BE
DIMMABLE. PROVIDE DIMMING SWITCH THAT IS
COMPATIBLE WITH FIXTURES CONTROLLED.
PROVIDE ADDITIONAL PAIR OF 0-10V CONTROL
WIRES AS APPLICABLE.
B. ALL TAPE LIGHTING SHALL BE CONCEALED IN
CHANNELS IN INFRASTRUCTURE WHERE INSTALLED.
SEE ARCHITECTURAL DETAILS FOR MORE

SEE ARCHITECTURAL DETAILS FOR MORE
INFORMATION. TAPE LIGHT JUNCTION BOXES AND
CONDUIT SHALL BE CONCEALED TO MINIMIZE
VISIBILITY. ALL TAPE LIGHT RUNS SHALL BE AS
LONG AS POSSIBLE AND INSTALLED PER THE
MANUFACTURED SPECIFICATIONS.
COORDINATE WITH THE ARCHITECT AND OWNER ON
DEVICE/PLATE COLOR AND TYPE FOR NEW

D. ALL BRANCH CIRCUITS SHALL BE COPPER THHN/THHW IN CONDUIT. LIMIT FLEXIBLE METAL CONDUIT TO ABOVE FINISHED CEILING LIGHTING WHIPS. ALL OTHER CONDUIT SHALL BE EMT WITHIN BUILDINGS AND PVC BENEATH GRADE.
E. ALL DEVICES SHOWN ON BUILDING WALLS SHALL HAVE RECESSED CONDUIT AND JUNCTION BOXES. COORDINATE WITH OTHER TRADES DURING

KEY NOTES - THIS SHEET

CONSTRUCTION TO ROUTE CONDUIT AND BOXES.

NO. COMMENTS

DEVICES.

1. PROPOSED LOCATION OF LIGHTING CONTROLS FOR ROOF TAPE LIGHTING AND BUILDING EXTERIOR LIGHTS. COORDINATE WITH OWNER/ARCHITECT FOR FINAL LOCATION.



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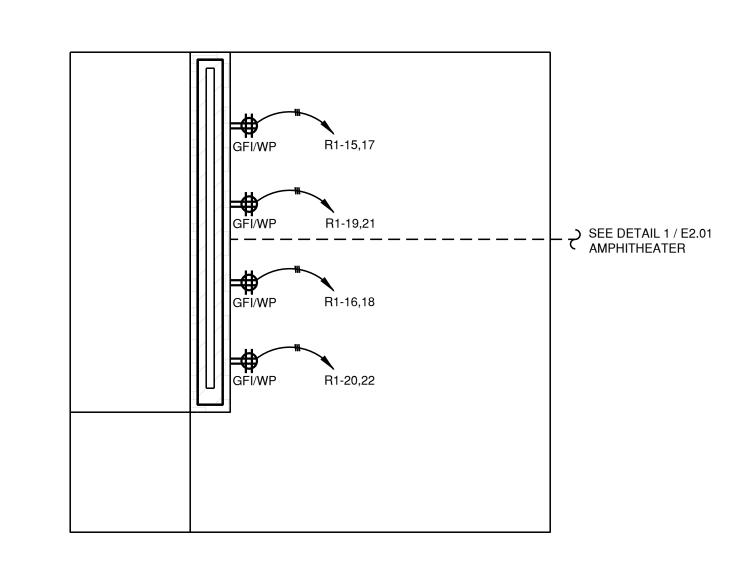
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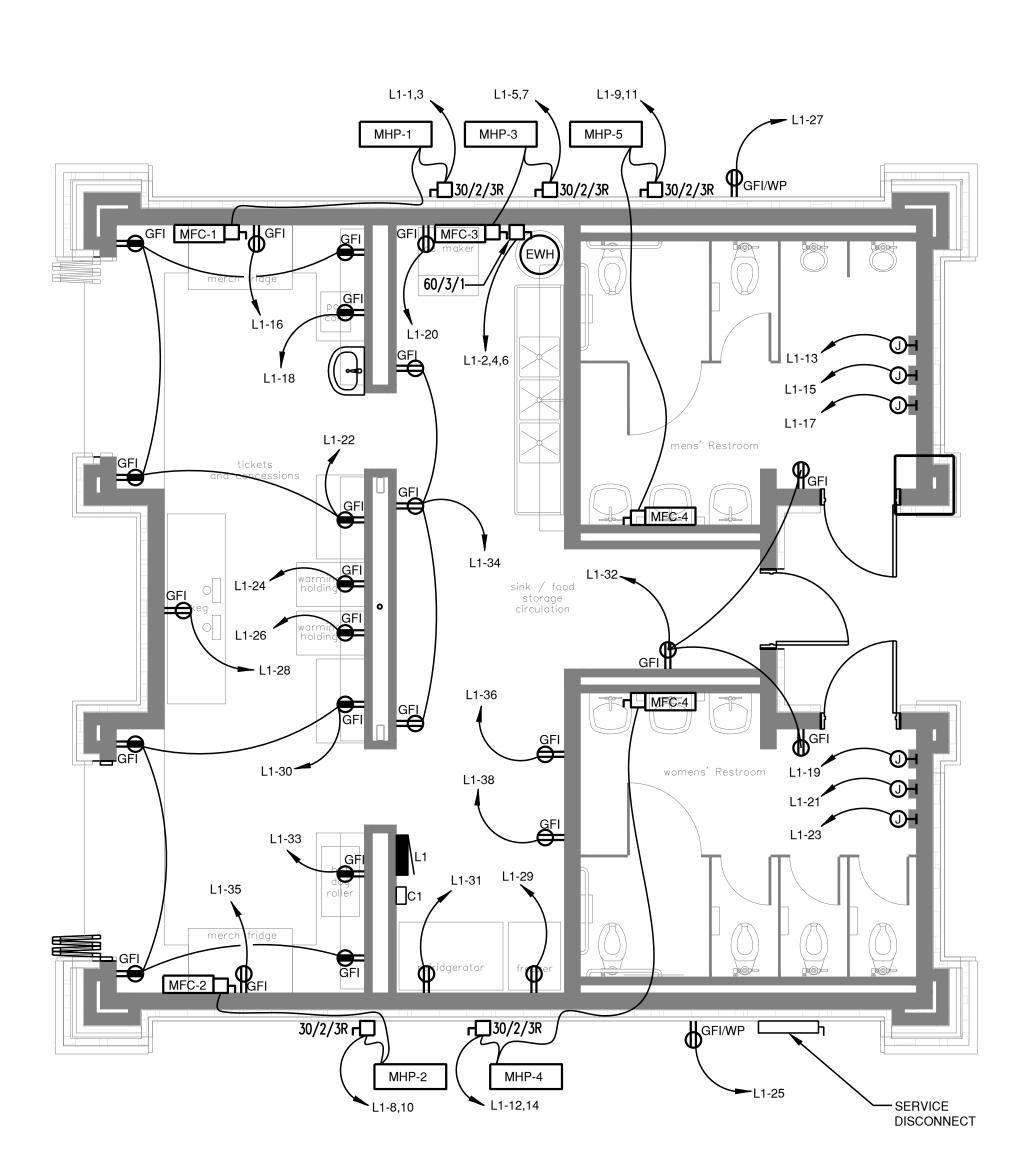
ELECTRICAL
AMPHITHEATER
CEILING PLANS

SHEET TITLE



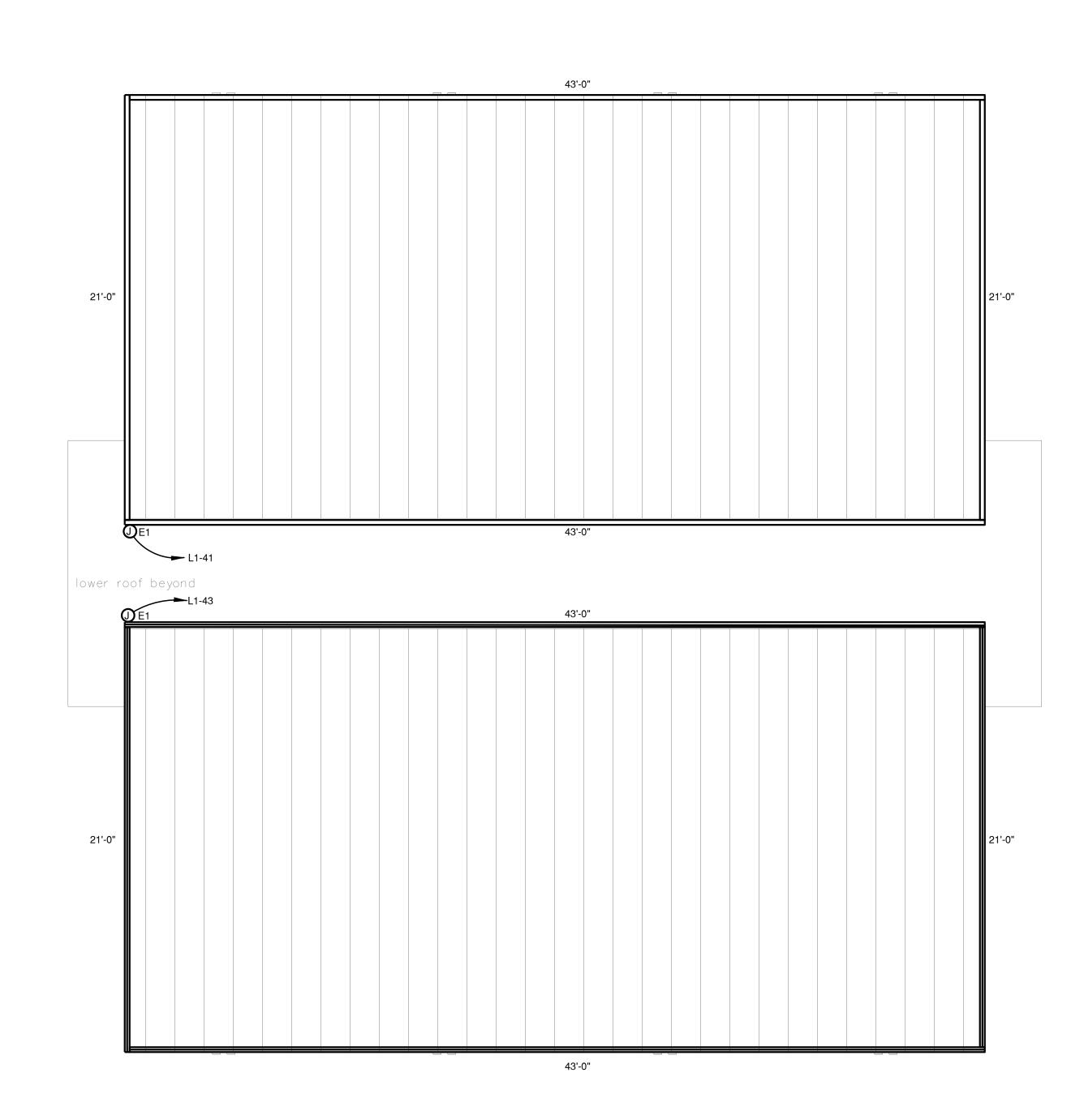
4 ELECTRICAL FLOOR PLAN FRONT OF HOUSE STAGE

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



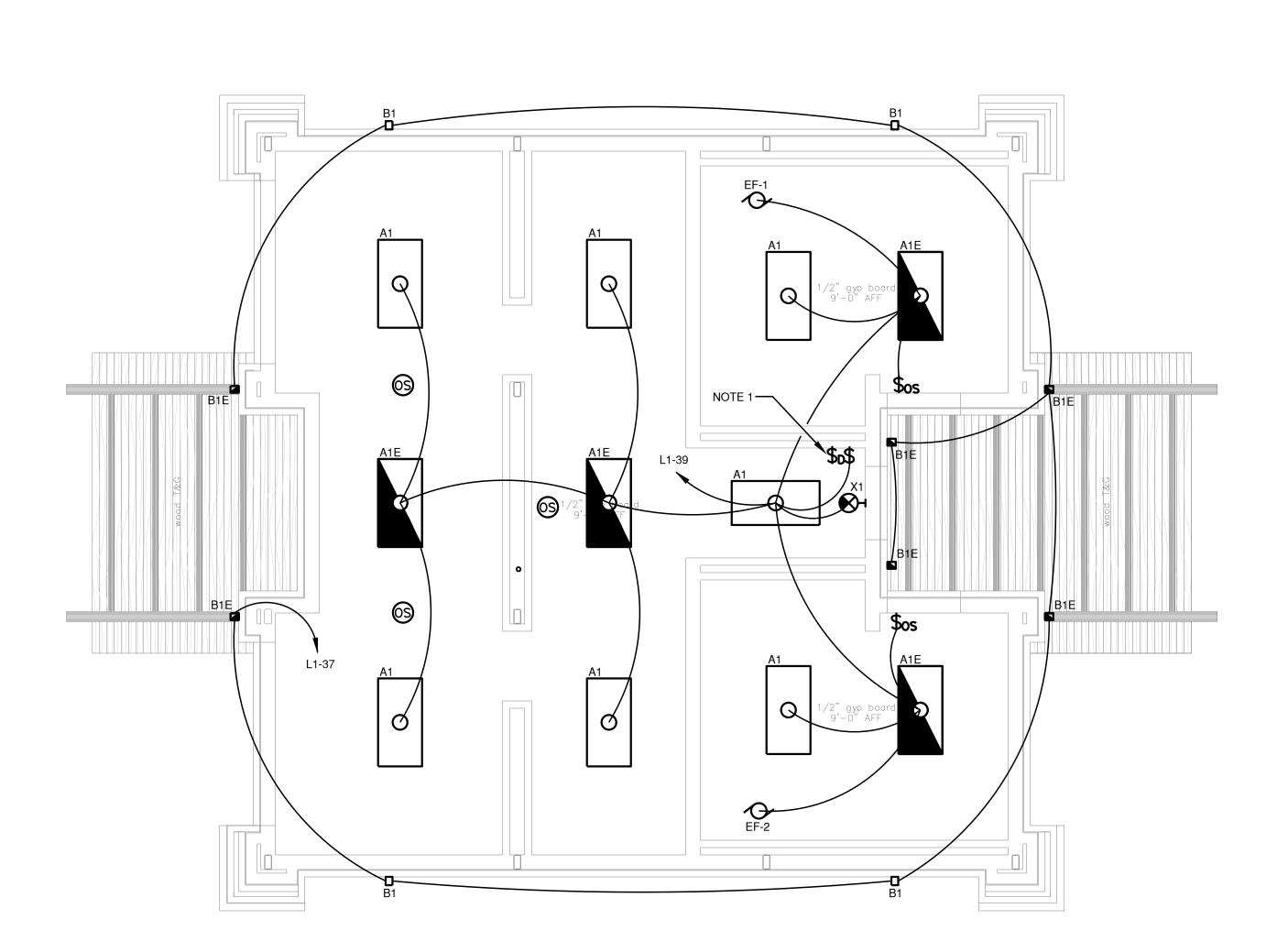
1 ELECTRICAL FLOOR PLAN

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



3 ELECTRICAL HIGH ROOF CEILING PLAN

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



2 ELECTRICAL CEILING PLAN

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

### GENERAL NOTES - THIS SHEET

A. ALL EXTERIOR LIGHTING AT CONCESSIONS
BUILDING AND SURROUNDING AREA SHALL BE
DIMMABLE. PROVIDE DIMMING SWITCH THAT IS
COMPATIBLE WITH FIXTURES CONTROLLED.
PROVIDE ADDITIONAL PAIR OF 0-10V CONTROL
WIRES AS APPLICABLE.

B. ALL TAPE LIGHTING SHALL BE CONCEALED IN CHANNELS IN INFRASTRUCTURE WHERE INSTALLED. SEE ARCHITECTURAL DETAILS FOR MORE INFORMATION. TAPE LIGHT JUNCTION BOXES AND CONDUIT SHALL BE CONCEALED TO MINIMIZE VISIBILITY. ALL TAPE LIGHT RUNS SHALL BE AS LONG AS POSSIBLE AND INSTALLED PER THE MANUFACTURED SPECIFICATIONS.

C. COORDINATE WITH THE ARCHITECT AND OWNER ON

C. COORDINATE WITH THE ARCHITECT AND OWNER ON DEVICE/PLATE COLOR AND TYPE FOR NEW DEVICES.

D. ALL BRANCH CIRCUITS SHALL BE COPPER THHN/THHW IN CONDUIT. LIMIT FLEXIBLE METAL

CONDUIT TO ABOVE FINISHED CEILING LIGHTING WHIPS. ALL OTHER CONDUIT SHALL BE EMT WITHIN BUILDINGS AND PVC BENEATH GRADE.

E. ALL DEVICES SHOWN ON BUILDING WALLS SHALL HAVE RECESSED CONDUIT AND JUNCTION BOXES. COORDINATE WITH OTHER TRADES DURING CONSTRUCTION TO ROUTE CONDUIT AND BOXES.

KEY NOTES - THIS SHEET

NO. COMMENTS

1. PROPOSED LOCATION OF LIGHTING CONTROLS FOR ROOF TAPE LIGHTING, BOLLARDS, AND BUILDING EXTERIOR LIGHTS. COORDINATE WITH OWNER/ARCHITECT FOR FINAL LOCATION.



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SHEET TITLE

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