



ADDENDUM #1

VICTORIAN AMPHITHEATER PHASE 2

BID # 22/23-025 / PWP # WA-2023-159

BIDS DUE NO LATER THAN: 1:45 PM ON FEBRUARY 18, 2023

PUBLIC BID OPENING: 2:00 PM ON FEBRUARY 18, 2023

This addendum is to notify all potential proposers of clarifications made to the Bid documents as stated below.

- A) **Bid Document Delivery** – Due to hybrid schedules and staff reductions, in-person staff availability is limited. Bidders wishing to physically deliver their bids on the bid due date shall note that the Purchasing Office will receive bids in the lobby of City Hall beginning at 1PM on February 1st. Bids are due no later than 1:45PM. Bids may also be delivered to the Purchasing Department physical dropbox/mailbox, also located in the lobby of City Hall.

- B) **Special Conditions – Section 5 (Page 38 of the Bid Book)** – There is a conflict in the number of days listed in the bullet point sentence with other language in this section. Bidders shall note that the reference to “one hundred twenty (120) calendar days” shall be stricken and replaced with “ninety (90) calendar days.”

- C) **Revised Plan Sheets** – Plan modifications have been made and are attached as plan sheets to this addendum. Note that all exterior masonry, concrete columns and bases shall be sandblasted, cleaned and a water repellent applied per the original plan specifications noted on sheets A802, A803 and A804.

Sheet revisions include:

G100 Added street address for reference. See added Sheet G111 for address signage at amphitheater fascia.

G101 Revised accessibility code edition from 2017 to 2009, added reference to 2018 IEBC, and added Sheet G111 to index.

G111 Sheet added indicating AHJ required door status, occupancy capacity, address signage as well as occupancy loading, and exiting.

A111 Note added clarifying application of water repellent to all exterior faces of masonry and concrete.

A301 Note added clarifying application of water repellent to all exterior faces of masonry and concrete.

E003 Signatures added to ComCheck forms.

E101 Existing exit signage identified.

Please note and adjust your bid according to the revisions, additions, deletions, clarifications or modifications as presented on this Addendum #1, which are made a part of this bid. NOTE: To avoid disqualification, this Addendum 1 (and any other addenda) must be signed by an authorized

representative of the bidding firm in the space provided and must be submitted with your firm's sealed proposal. Failure to return this addendum, duly signed, may be cause for rejection of the bid. ALL ADDENDA SHOULD BE SIGNED AND PLACED IN SEQUENTIAL ORDER AND ATTACHED TO THE FRONT OF THE BID PACKAGE, COMPLETE WITH ALL REQUIRED DOCUMENTS.

CONTRACTOR BUSINESS NAME

Dan Marran, C.P.M., CPPO
Contracts and Risk Manager

X _____
Authorized Signature

January 26, 2023

Printed Name of Person Signing

City of Sparks

"B" Street Amphitheater Renovation

905 Victorian Avenue
Sparks, NV 89431

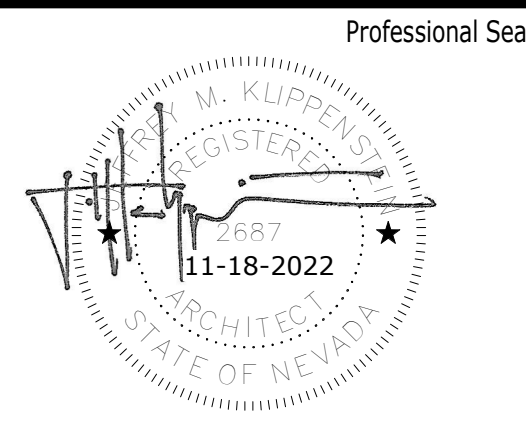
City of Sparks
431 Prater Way
Sparks, Nevada 89432

November 18, 2022

100% Construction Documents

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Professional Seal	Date	Revision
	1	1/25/23 Plan Review 1

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City of Sparks
"B" Street Amphitheater Renovation

905 Victorian Avenue
Sparks, NV 89431

Title Sheet

November 18, 2022
H+K Project No: 2208

G100



Abbreviations			
& @ (e) _ #	And Existing Perpendicular Pound or Number	E Ea. Etc. E.W.C. Elec. Elev. Emer. Encl. Eq. Equip. Exh. Exp. E.J. Ext.	Each Etcetera Electric Water Cooler Electrical Elevation Emergency Enclosure Equal Equipment Exhaust Expansion Expansion Joint Exterior
A Adj. Aggr. Alt. Alum. Approx. Arch. A.C.	Adjustable Aggregate Alternate Aluminum Approximately Architectural/Architect Asphalt Concrete	F F.O. Fin. F.G. F.E. F.E.C. Fprf. Fixt. Flash. Flr. F.D. F.L. Fl. Ftg. Fdn. FBO Furr. Fut.	Face of Finish Finish Grade Fire Extinguisher Fire Extinguisher Cabinet Fireproofing Fixture Flashing Floor Floor Drain Flow Line Foot Footing Foundation Furnished by Others Furring Future
B Bm. Blk. Blkg. Bd. B.O. Bldg. B.U.R.	Beam Block Blocking Board Bottom of Building Built up Roofing	G Galv. G.I. Gage Gen. Gl GLB Gyp.	Galvanized Galvanized Iron Gage General Glass Glue-Laminated Beam Gypsum
C C.I. C.B. Clg. Cir. C.L. Cer. C.O. C.W. Col. Conc. Conn. Const. C.J. Contn. Contr. Cu. Ft.	Cast Iron Catch Basin Ceiling Center Center Line Ceramic Cleanout Cold Water Column Concrete Connection Construction Construction Joint Continuous Contractor Cubic Foot	H Ht. H.C. H.M. Horiz. H.B. H.W. Hr.	Height Hollow Core Hollow Metal Horizontal Hose Bib Hot Water Hour
D D.G. Dept. Det. Dia. Diff. Dim. Dbl. DN D.S. Dwg. D.F.	Decomposed Granite Department Detail Diameter Diffuser Dimension Double Down Downspout Drawing Drinking Fountain	I In. I.D. Insul. Int.	Inch(es) Inside Diameter Insulation Interior
J Jt.	Joint	M Mfr. M.O. Max. Mech. Membr. Met. Min. Misc. MPH Mid.	Manufacturer Masonry Opening Maximum Mechanical Membrane Metal Minimum Miscellaneous Miles per hour Mounted
L Lab Lav. Lt.	Laboratory Lavatory Light	N Nom. N.I.C. N.T.S. No.	Nominal Not in Contract Not to Scale Number
S Sched. Sect. Sht. Sim. S.C. Spec. Sq. SF St. Stl. Std. Stl. Stg. Strct. Susp. Sym.	Schedule Section Sheet Similar Solid Core Specification Square Square foot Stainless Steel Standard Steel Storage Structural Suspended Symmetrical	O O.C. O.D. O.H.	On Center Outside Diameter Opposite Hand
T Tel. T.V. T.&G. T.C. T.O.	Telephone Television Tongue and Groove Top of Curb (or Concrete) Top of	P Pr. P. Lam. Pl. Plywd. Pl. Point Prefab. Prop. PSF PSI	Pair Plastic Laminate Plate Plywood Plate Point Prefabricated Property Pounds per square foot Pounds per square inch
U U.N.O.	Unless Noted Otherwise	R Rad. Ref. Reinf. Req. R.A. Rev. R.O.W. R.D. Rm. R.O.	Radius Reference Reinforced Required Return Air Revision Right of Way Roof Drain Room Rough Opening
V Vert. V.C.T.	Vertical Vinyl Composition Tile	W W.C. Wt. W.F. Wdw. Wd. W/O Wd. W.J.	Water Closet Weight Wide Flange Window With Without Wood Weakened Plane Joint
Y Yd.	Yard		

General Notes

- These general notes pertain to work described on all contract documents.
- The contract documents consist of the owner-contractor agreement, the conditions of the contract (general, supplementary and other conditions), the drawings, the specifications, and all addenda issued prior to and all modifications issued after execution of the contract.
- The work comprises the completed construction required by the contract documents and includes all labor necessary to produce such construction, and all materials and equipment incorporated or to be incorporated in such construction.
- Shop drawings, product data and samples are not a part of the contract documents. The Architect will review them, but only for conformance with the design concept of the work and with the information given in the contract documents. The Contractor shall not be relieved of responsibility for any deviation from the requirements of the contract documents by the Architect's review of shop drawings, product data or samples.
- The Contractor shall carefully study and compare the contract documents and shall at once report to the Architect any error, inconsistency or omission he may discover. The Contractor shall perform no portion of the work at any time without contract documents or, where required, approved shop drawings, product data or samples for such portion of the work.
- All work is to conform with the contract documents. Drawings are NOT to be scaled for information. If unable to locate dimensions for any item of work, consult with the Architect before proceeding with construction.
- In the event certain features of the construction are not fully shown on the contract documents, then their construction shall be of the same character as for similar conditions that are shown or called for and shall be reviewed by the Architect.
- All work shall be performed within strict conformance to the minimum standards of the current edition of the adopted building codes of the authority having jurisdiction and all applicable national, state, and local laws, regulations, and ordinances.
- The Contractor shall be responsible for the general safety during construction, and all work shall conform to pertinent safety regulations.
- The Contractor shall coordinate locations of any and all mechanical, telephone, electrical, lighting and plumbing including all piping, ductwork and conduit. Coordinate all required clearances for installation and maintenance of the above equipment.
- The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
- The Contractor shall be responsible for the acts and omissions of his employees, subcontractors, and their agents and employees, and other persons performing any work under a contract with the Contractor.
- The Contractor shall pursue work in a continuous and diligent manner to ensure a timely completion of the project.
- The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the work he shall remove all his waste materials and rubbish from and about the project as well as all his tools, construction equipment, machinery, and surplus materials.
- The Contractor shall be responsible for the location and/or protection of all existing and proposed piping, utilities, structures, adjacent streets and improvements during the period of construction.
- Unless otherwise provided in the contract documents, the Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the work.
- Where conflicts occur, coordinate the layout and exact location of all partitions, doors, telephones, and electrical/communication outlets and switches with Architect in the field before proceeding with construction.
- Where conflict is encountered between the contract documents that will materially affect the quality or extent of the work, such conflict shall be resolved to the satisfaction of the Architect before the affected items and/or material are purchased, fabricated and/or installed.
- Where pre-manufactured or prefabricated items and/or materials are to be installed - the Contractor shall verify rough or finished dimensions in the field prior to purchase or fabrication.
- The Contractor shall guarantee all work and materials to be free from defects for a minimum of one year from date of final acceptance, and promptly remedy such defects and any subsequent damage caused by the defects or repair thereof, at no expense to the owner. Guarantee periods of greater than one year may be required and contained within the contract documents.
- Where any item and/or material is indicated in the contract documents, and not necessarily detailed in each specific case, but is required for a complete and professional installation - such item and/or material shall be provided as if shown and detailed in full. Provide means to furnish and install.
- Contractor is requested to visit the site as part of the pre-bid site visit to compare the drawings and specifications with any work in place, and inform himself of all conditions, including the work, if any, being performed. Failure to visit the site will in no way relieve the Contractor from necessity of furnishing any materials or performing any work in accordance with the drawings and specifications that may be required to complete the work without additional cost to the owner.
- Existing conditions including material sizes, configurations, and locations as shown on the drawings may not be an exact illustration of existing as-built conditions. The Contractor shall include in his bid the cost of furnishing, installing, modifying, existing and/or new materials (minor in nature) required for a complete and professional installation that may be required by minor variations between existing conditions as shown, and actual as-built conditions.

Project Team

Owner:
City of Sparks Public Works
P.O. Box 857
Sparks, Nevada 89432
(775) 353-1528
Contact: Brian Cason, S.E., P.E.
bcason@cityofsparks.us

Architect:
H+K Architects
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511
(775) 332-6640
Contact: Phil O'Keefe, A.I.A.
phil@hkarchitects.com

Structural Engineer:
Lumos and Associates, Inc.
9222 Prototype Drive
Reno, Nevada 89521
775-827-6111
Contact: Terrence Tobey, P.E., S.E.
tobey@lumosinc.com

Electrical Engineer:
PK Electrical, Inc.
681 Sierra Rose Drive, Suite B
Reno, Nevada 89511
(775) 826-9010
Contact: Mathew Stuart
mstuart@pklectrical.com

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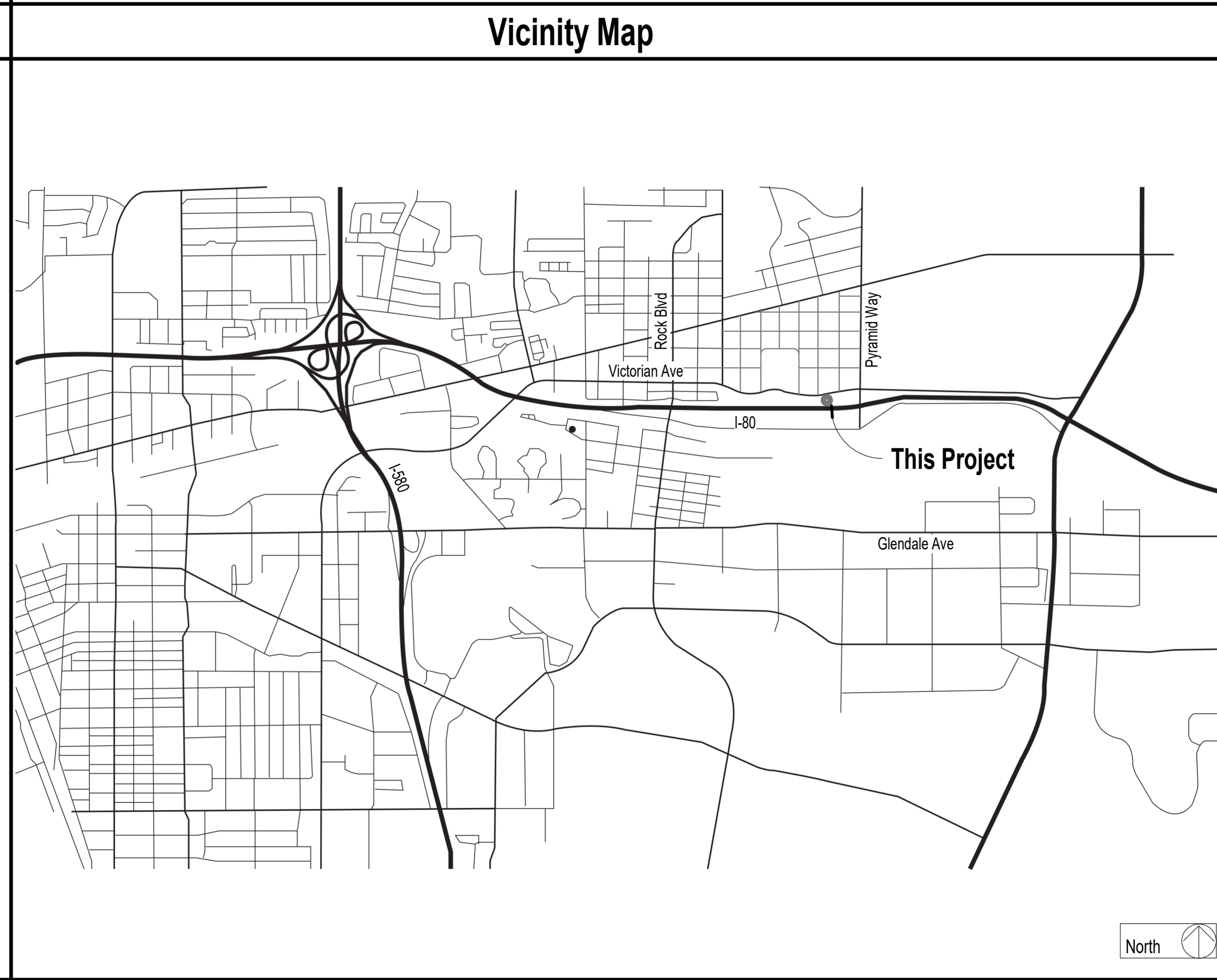
Design Criteria

Applicable Codes:

- Building Code: 2018 International Building Code (IBC)
- Mechanical Code: 2019 International Existing Building Code
- Plumbing Code: 2018 Uniform Mechanical Code (UMC)
- Electrical Code: 2018 Uniform Plumbing Code (UPC)
- Fire Code: 2017 National Electrical Code (NEC)
- Accessibility Codes: 2010 Americans with Disabilities Act, Accessibility Guidelines and 2009 ICC/ANSI 117.1
- Energy Code: 2018 International Energy Conservation Code

Symbols

	Drawing Number		Typical Indicator		Building Section
	Sheet Number		North Arrow		Wall Section
	Elevation		Detail		Detail Section
	Door Number		Spot Elevation		Elevation
	Window Type				
	Grid Line				
	Room Name				
	Room Name/Number				
	Wall Type Symbol				



Professional Seal

Date: 1/25/23
Revision: Plan Review 1

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City of Sparks
"B" Street Amphitheater Renovation
905 Victorian Avenue
Sparks, NV 89431

Project Data

November 18, 2022
H+K Project No: 2208

G101

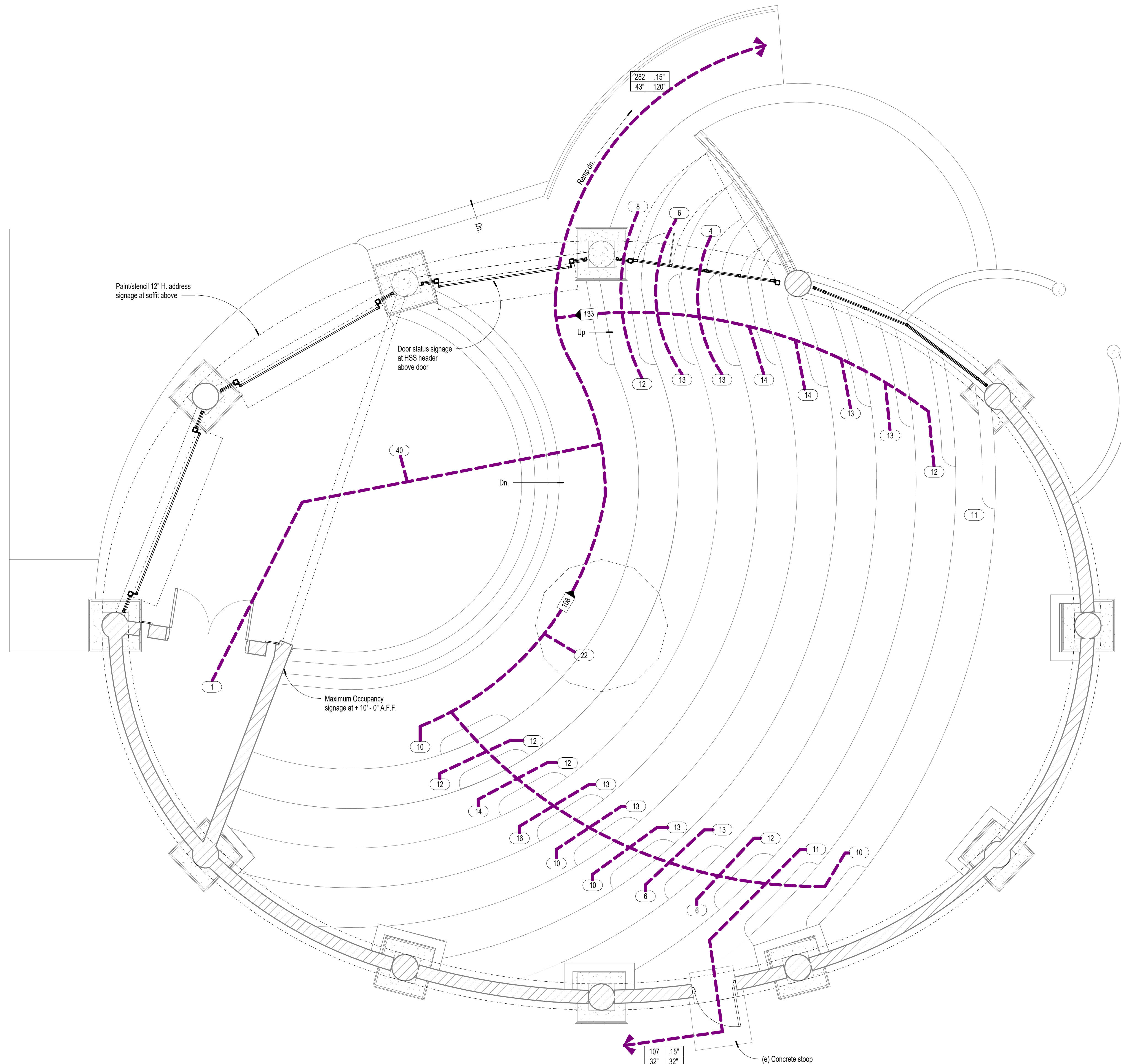
Exiting Legend

- 0000 Occupant Load for Room noted - see Schedule this sheet for calculations
- ◀ 000 ▶ Occupant Load attributed to Intervening Room or Corridor, arrows indicate that the load will split and exit in both directions.
- 000 ▶ Occupant Load attributed to Intervening Room or Corridor, arrows indicate the direction the occupant will travel.
- Exit width calculation:

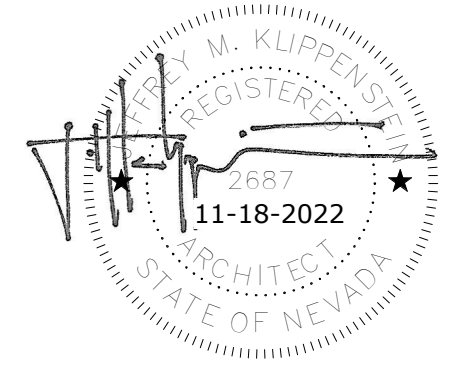
000 .30"	Width per occupant load in inches
32" .32"	
Required opening width	Provided opening width
- - - - - ▶ Indicates travel route to the exit

Notes

1. Retain existing exit signage at either side of entrance overhead opening.
2. Occupancy Signage: 12" x 10", 22 ga. sheet metal sign mechanically fastened to CMU wall. Provide 1" min. text height reading, "Maximum Occupancy 389".
3. Door Status Signage: Provide 1" min. text height on adhesive signage indicating, "Door to Remain Open When Building in Use."
4. Address Signage: Provide 12" min. text height with 1" stroke width signage indicating "905 Victorian Avenue".



1 Renovation Plan
1/4" = 1'-0"



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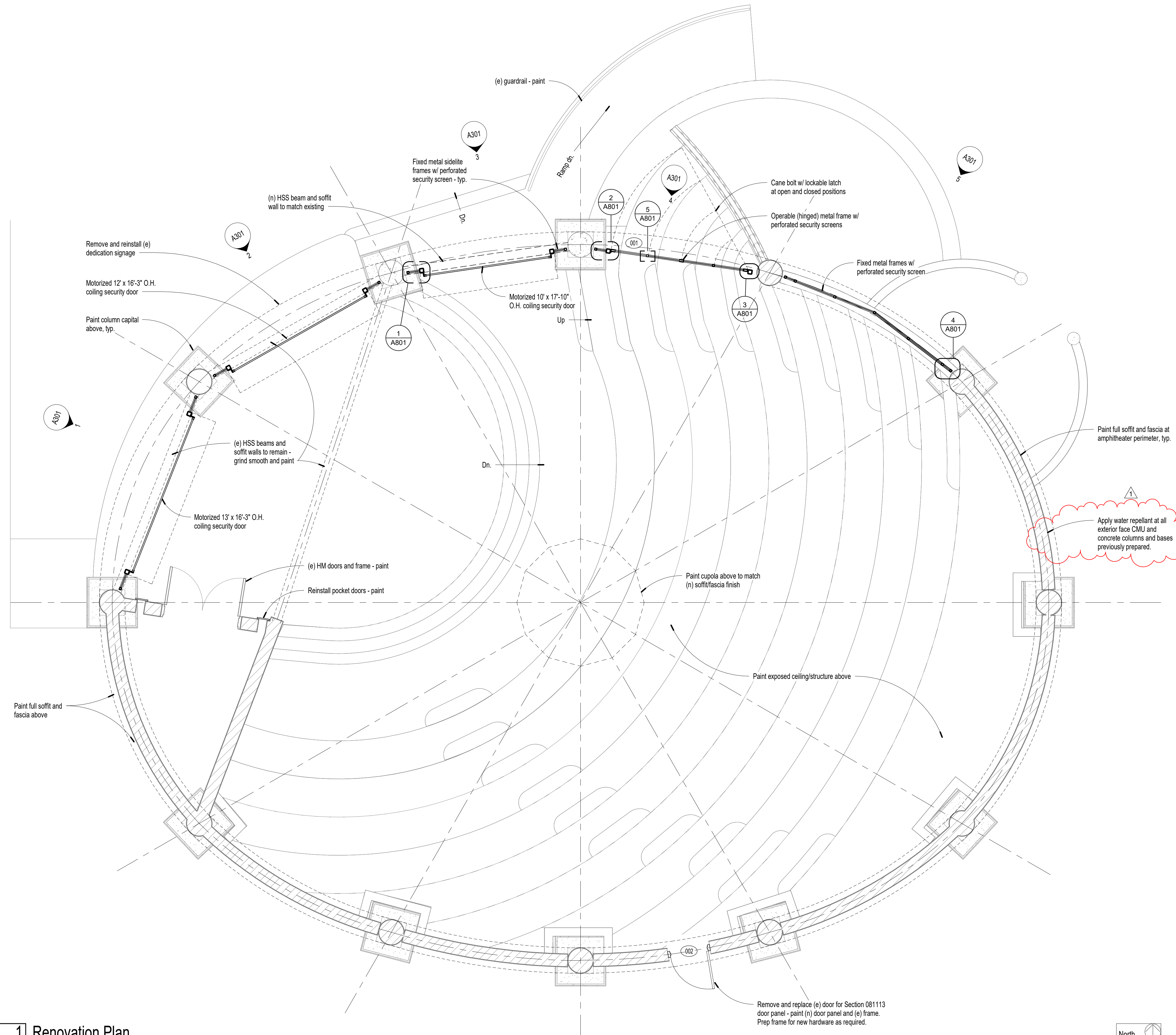
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"B" Street Amphitheater Renovation
 905 Victorian Avenue
 Sparks, NV 89431

Exiting and Code Plan
 November 18, 2022
 H+K Project No: 2208
G111

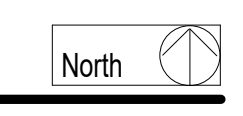


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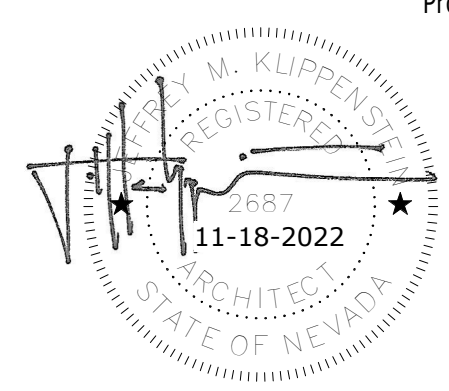


1 Renovation Plan
1/4" = 1'-0"



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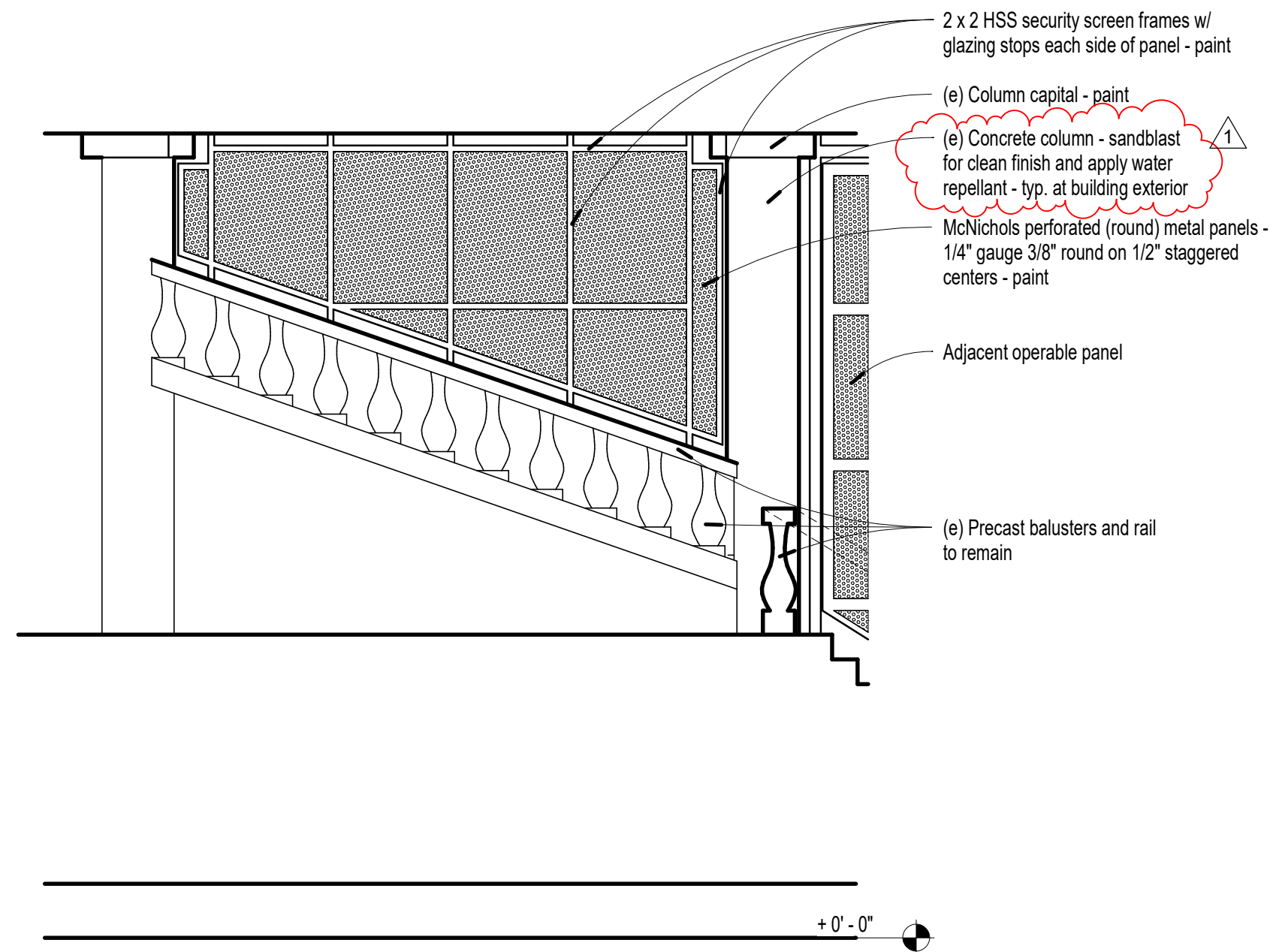
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	1 1/25/23	Plan Review 1

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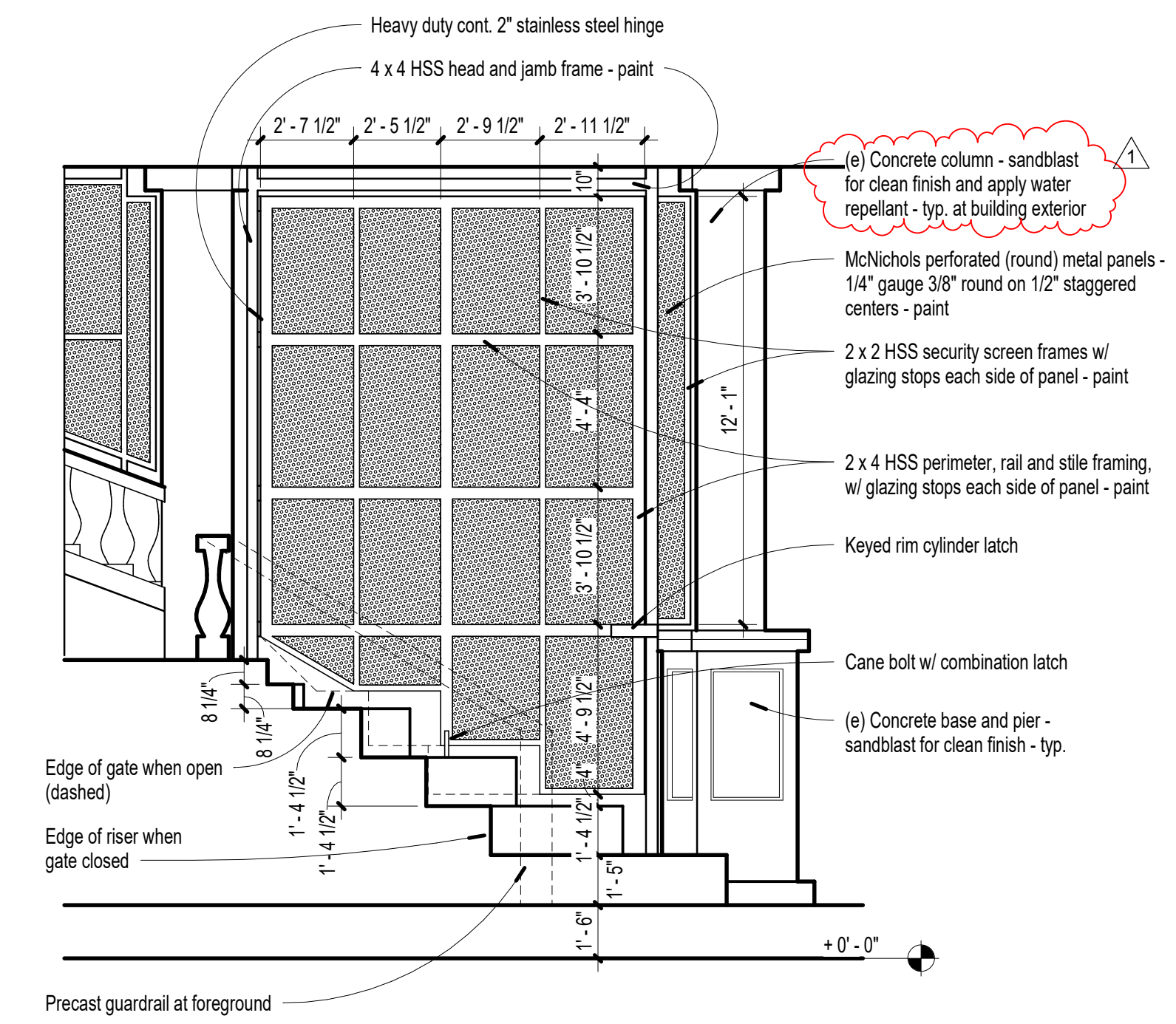
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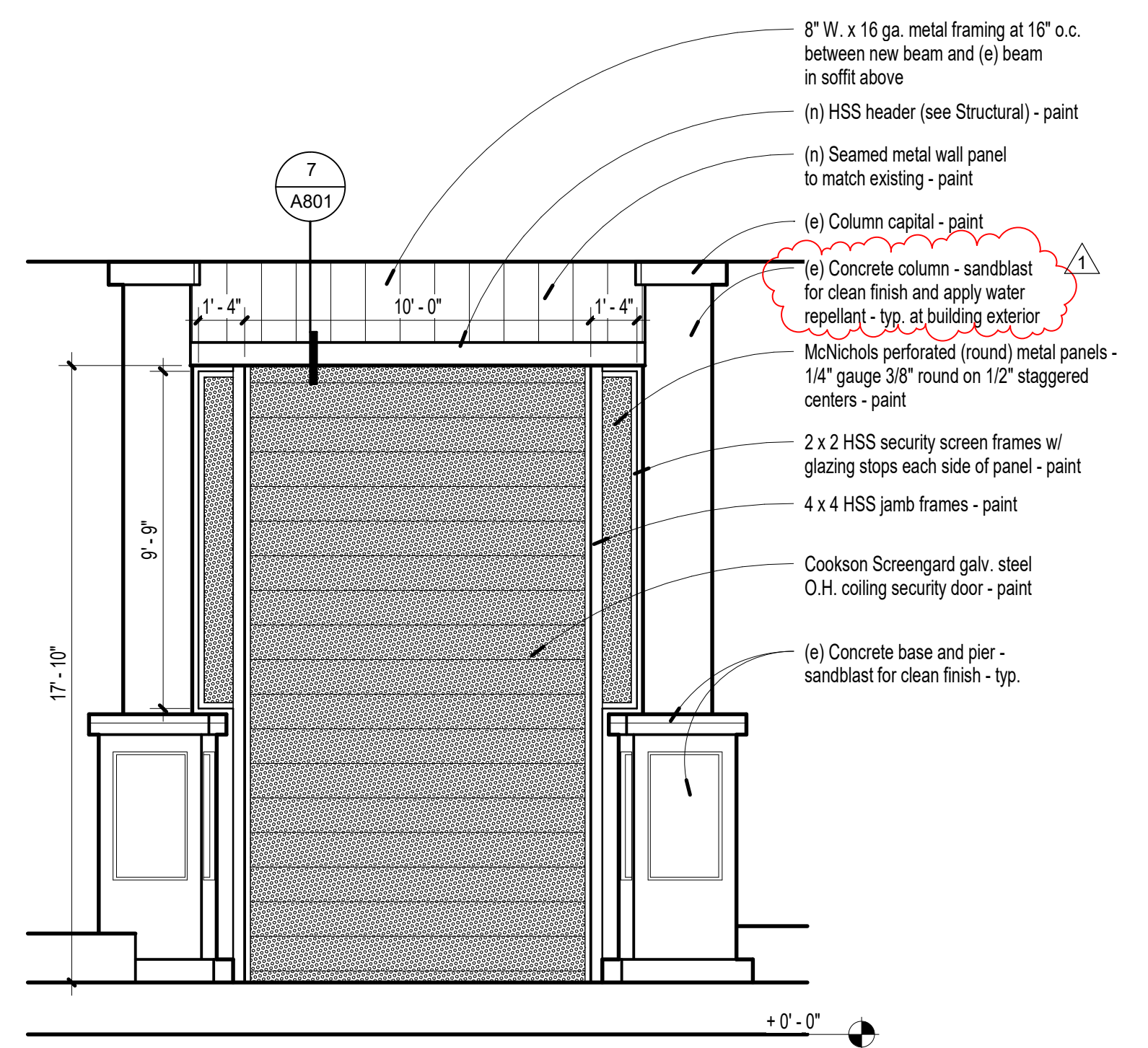
Floor Plan
 November 18, 2022
 H+K Project No: 2208
A111



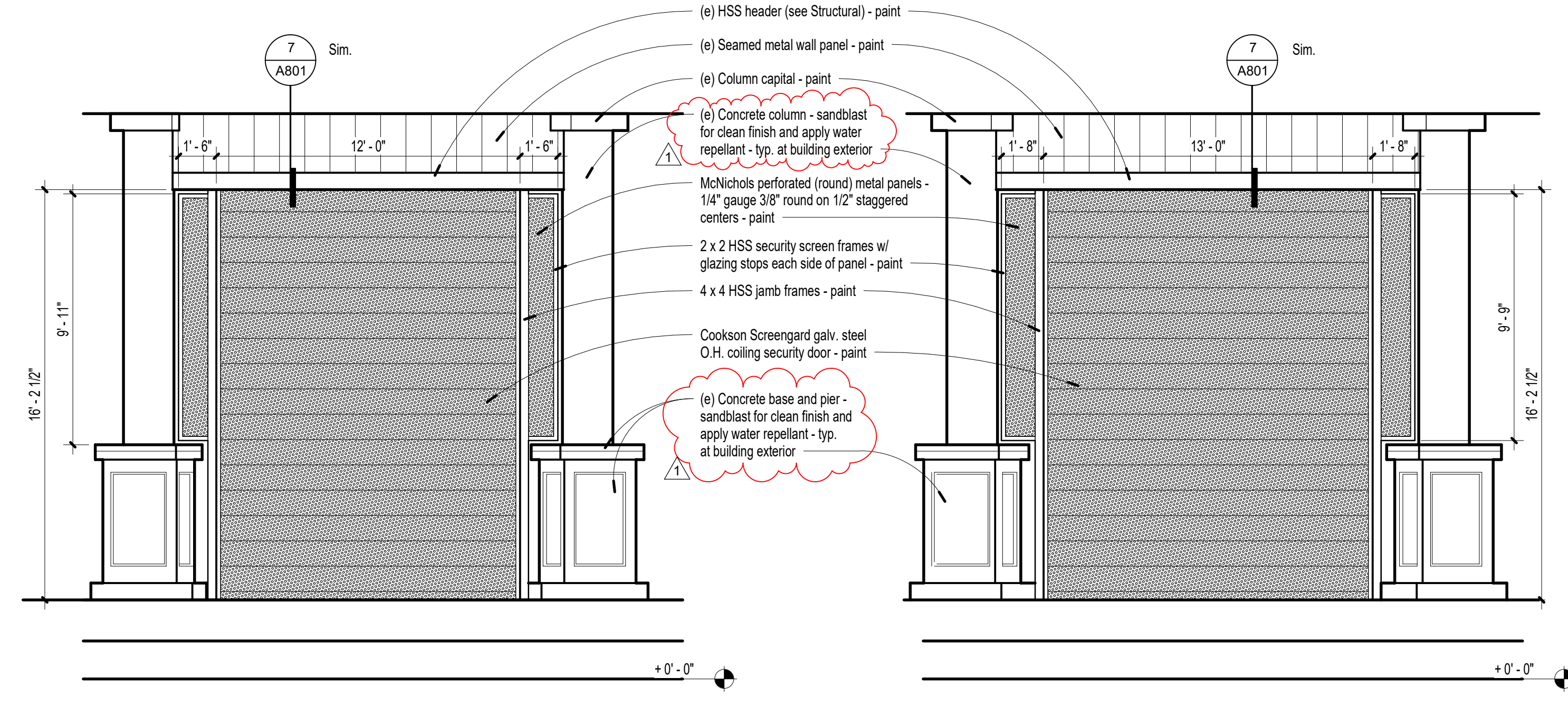
5 Fixed Panel Security Screen at Guardrail
1/4" = 1' - 0"



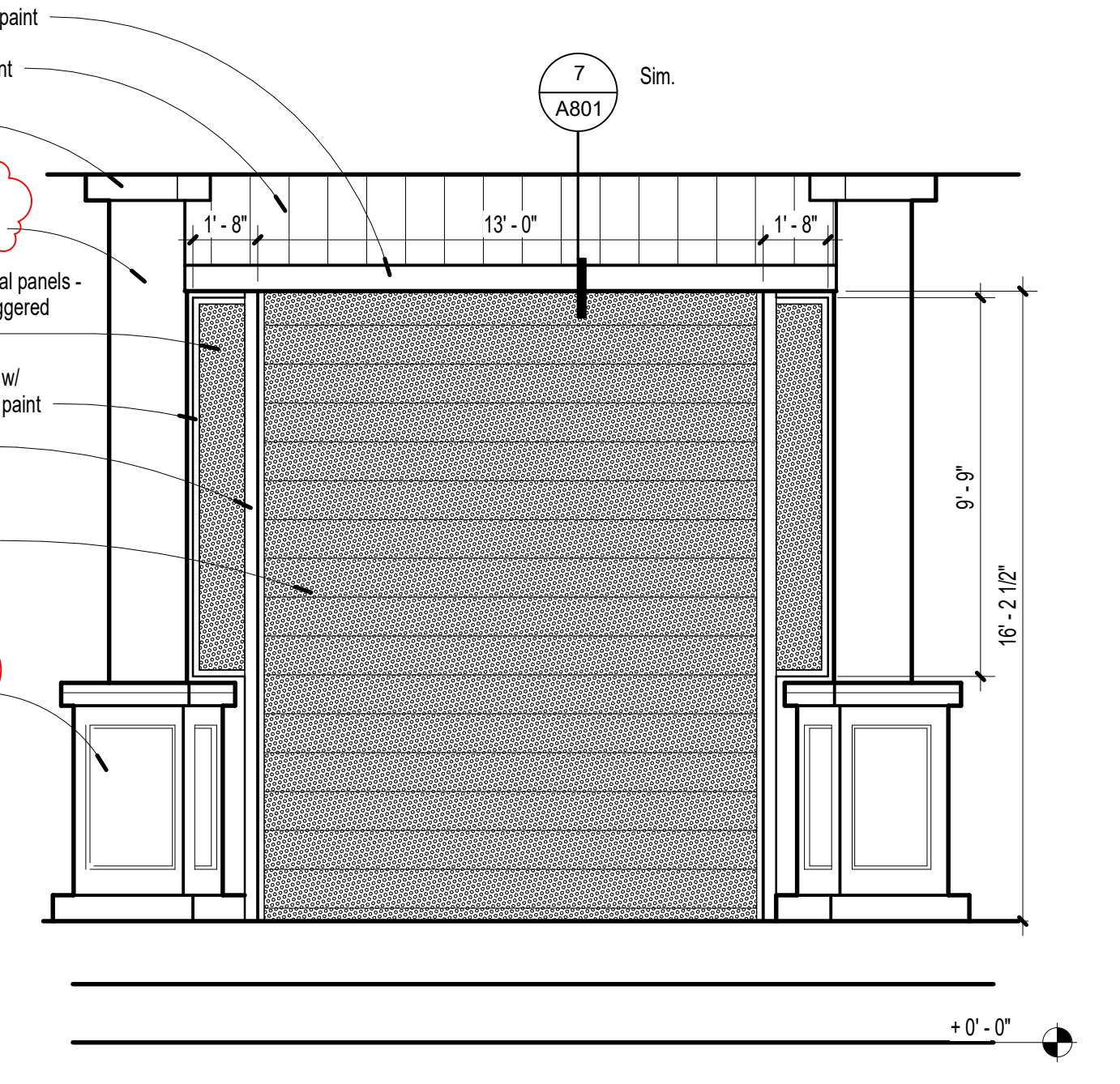
4 Hinged Panels at Tiered Seating
1/4" = 1' - 0"



3 Coiling Door at Entrance
1/4" = 1' - 0"



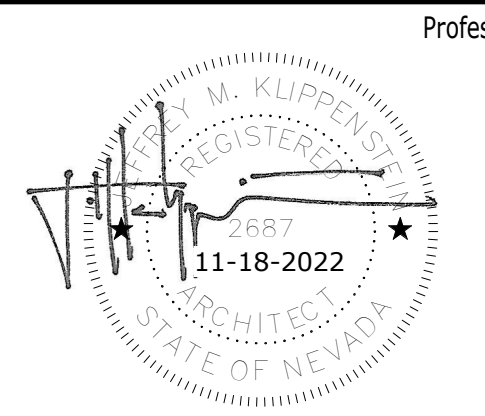
2 Coiling Door at Stage Left
1/4" = 1' - 0"



1 Coiling Door at Stage Right
1/4" = 1' - 0"

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 Sparks, NV 89431

Elevations
 November 18, 2022
 H+K Project No: 2208
A301

COMcheck Software Version 4.1.5.3
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title:
 Project Type: Alteration
 Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Restrooms (Common Space Types:Restrooms)	183	0.85	156
2-Electrical (Common Space Types:Electrical/Mechanical)	127	0.43	55
Total Allowed Watts =			210

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Restrooms (Common Space Types:Restrooms, 183 sq.ft.) LED 2: L1: STRIP: Other:	1	4	36	143
Electrical (Common Space Types:Electrical/Mechanical, 127 sq.ft.) LED 1: L1: STRIP: Other:	1	1	36	36
Total Proposed Watts =				179

Interior Lighting PASSES

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Karen D. Purcell, PE Signature [Signature] Date 01/20/2023

Project Title:
 Data filename: K:\2022\22132 - City of Sparks Victorian Amphitheater Lighting Upgrade\02_Design\B_Lighting\02_Lighting Calcs\B_Energy Compliance Calcs (IECC)\22132.cck Page 1 of 7
 Report date: 11/14/22

COMcheck Software Version 4.1.5.3
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title:
 Project Type: Alteration
 Exterior Lighting Zone: 2 (Light industrial area with limited nighttime use (L22))
 Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
ENTRY (Entry canopy)	1116 ft ²	0.25	Yes	279
EXIT (Entry canopy)	80 ft ²	0.25	Yes	20
Total Tradable Watts (a) =				299
Total Allowed Watts =				299
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
ENTRY (Entry canopy 1116 ft ²): Tradable Wattage LED 1: L3: CYLINDER: Other:	1	15	8	117
EXIT (Entry canopy 80 ft ²): Tradable Wattage LED 2: L2: WALL: Other:	1	2	19	38
Total Tradable Proposed Watts =				155

Exterior Lighting PASSES

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Karen D. Purcell, PE Signature [Signature] Date 01/20/2023

Project Title:
 Data filename: K:\2022\22132 - City of Sparks Victorian Amphitheater Lighting Upgrade\02_Design\B_Lighting\02_Lighting Calcs\B_Energy Compliance Calcs (IECC)\22132.cck Page 2 of 7
 Report date: 11/14/22

LIGHTING FIXTURE SCHEDULE

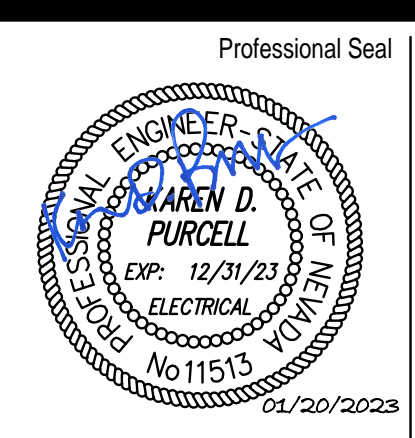
LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.

- SUBSTITUTION DEFINITIONS**
- OR EQUAL = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS WILL BE ALLOWED. ENGINEER'S PRE-BID APPROVAL IS NOT REQUIRED. PROPOSED EQUAL FIXTURES ARE SUBJECT TO REVIEW DURING THE STANDARD SUBMITTAL PROCESS.
 - NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED.
 - SUBJECT TO REVIEW = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS MAY BE ALLOWED ONLY WITH ENGINEER'S APPROVAL. ALL SUBSTITUTIONS MUST BE SUBMITTED AS REQUIRED BY SPECIFICATIONS AND ACCOMPANIED WITH POINT BY POINT LIGHTING CALCULATIONS. DETERMINATION OF EQUAL IS ENGINEER'S SOLE DISCRETION.

TYPE	SYMBOL	DESCRIPTION AND MANUFACTURER
		LINEAR STRIP, ROUND ACRYLIC LENS, 4' LENGTH, ON OFF DRIVER.
35.B	[L1]	LAMP: LED, 5200LM, 4000K, 80CRI VOLTAGE: 120 MANUFACTURER: HE WILLIAMS T6R 4 L52 8 40 (MOUNTING AS NECESSARY) DRY I20 SUBSTITUTIONS: <input checked="" type="radio"/> OR EQUAL <input type="radio"/> SUBJECT TO REVIEW <input type="radio"/> NO EQUAL
19	[L2]	ONE PIECE HEAVY DUTY ALUMINUM EYELED DEEP PROFILE HOUSING, HOUSING FLANGE INTERLOCKS AROUND ONE PIECE UV STABILIZED HIGH IMPACT POLYCARBONATE LENS, MINIMUM 5 YEAR REPLACEMENT WARRANTY, WITH INTEGRAL COLD WEATHER BATTERY BACKUP DRIVER. LAMP: LED, 1349LM, 4000K, 80CRI VOLTAGE: 120 MANUFACTURER: KENALL H612ED DB 15L40K I20 LEL-CW SUBSTITUTIONS: <input checked="" type="radio"/> OR EQUAL <input type="radio"/> SUBJECT TO REVIEW <input type="radio"/> NO EQUAL
7.B	[L3]	SURFACE MOUNTED NET LOCATION WHITE SOLID BODY CYLINDER NOMINAL 4.8" DIAMETER WITH SOLITE LENS, INTEGRAL DRIVER, TO DEGREE BEAM DISTRIBUTION. LAMP: LED, 1013LM, 4000K, 80CRI VOLTAGE: 120 MANUFACTURER: PATHWAY LIGHTING C015 V 10 4 W L5 WD HL MK 1 SUBSTITUTIONS: <input checked="" type="radio"/> OR EQUAL <input type="radio"/> SUBJECT TO REVIEW <input type="radio"/> NO EQUAL

LIGHTING SYSTEM FOOTCANDLE LEVELS ARE BASED ON THE UTILIZATION OF STANDARD REFLECTANCES OF 80-80-20 (CEILING-WALL-FLOOR) PER I.E.S. (ILLUMINATED ENGINEERING SOCIETY). THE ROOM SURFACES ARE USED AS AN INTEGRAL COMPONENT OF THE LIGHTING SYSTEMS. THE REFLECTANCE OF THE SURFACE PAINT COLOR, MATERIAL, AND OTHER ROOM SURFACES, DIRECTLY AFFECTS THE DELIVERY OF LIGHT TO THE WORK PLANE. A SIGNIFICANT DROP IN OVERALL LIGHTING LEVELS WILL OCCUR IF REFLECTANCES ARE LOWERED. THE ARCHITECT/OWNER SHALL NOTIFY THE ENGINEER IMMEDIATELY IF FINISHES DO NOT FALL IN LINE WITH THE REFLECTANCES MENTIONED ABOVE.

22132-002 Fixture Schedule Issued: January 30, 2023 9:00 AM



Date	Revision
1/25/23	COR Comments

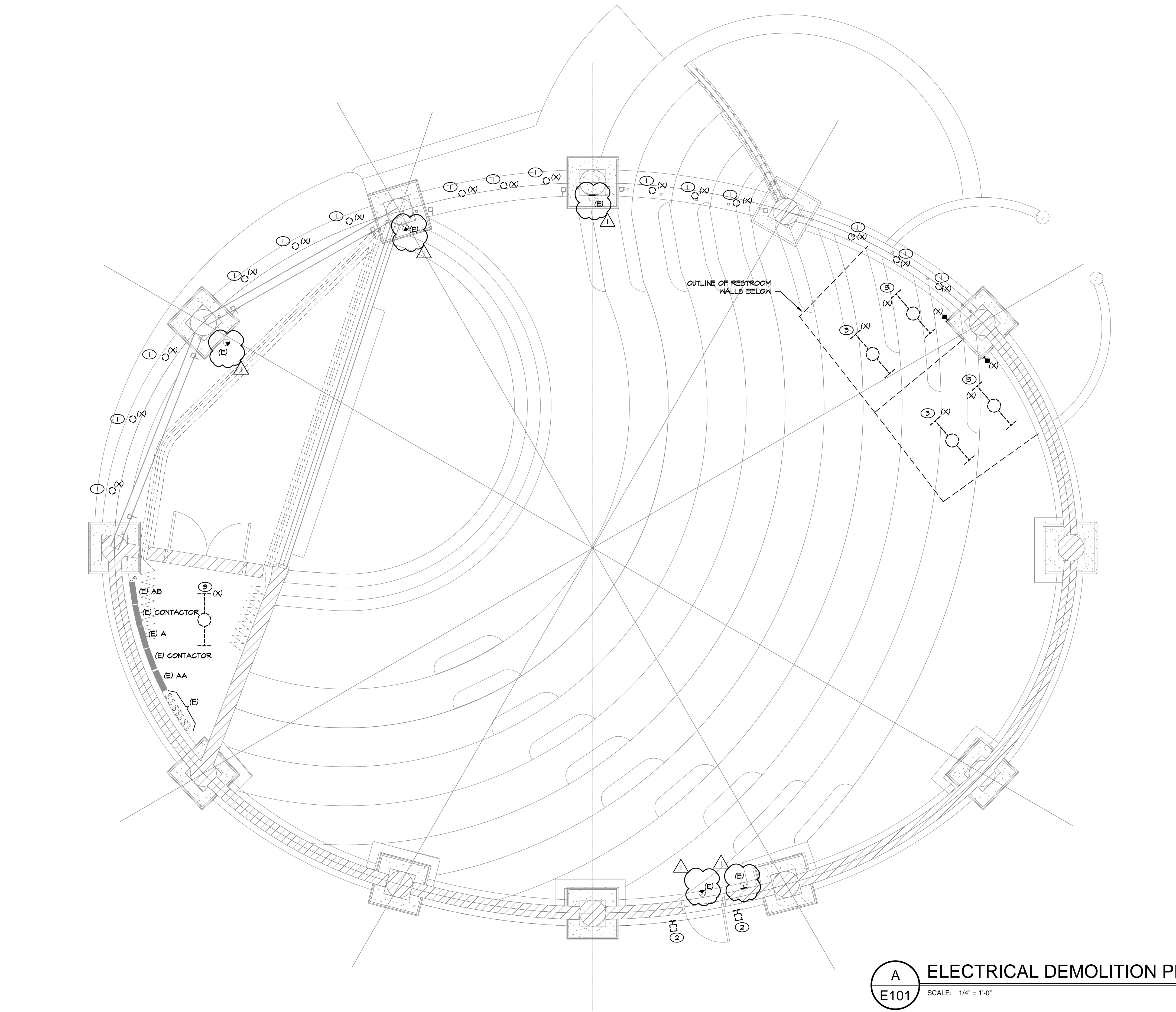
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City of Sparks
 "B" Street Amphitheater Renovation
 Sparks, NV

Fixture Schedule and
 IECC Calculations
 November 18, 2022
 H+K Project No: 2208
E003





GENERAL NOTES

1. THIS DRAWING REPRESENTS THE EXISTING LIGHTING, POWER AND COMMUNICATIONS SYSTEMS WITHIN THE EXISTING BUILDING (AREA TO BE REMODELED). THE CONTRACTOR IS RESPONSIBLE FOR REMOVING, RELOCATING AND REWIRING ALL EQUIPMENT AS INDICATED ON THE DRAWINGS, INCLUDING EQUIPMENT THAT LIES WITHIN WALLS AND CEILINGS TO BE DEMOLISHED OR REMODELED.
2. (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE RELOCATED, (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
3. SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
4. EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
5. THE CONTRACTOR MAY SALVAGE AND REUSE EXISTING BOXES AND CONDUIT WHERE POSSIBLE. DAMAGED CONDUIT, FITTINGS BOXES, ETC. MAY NOT BE RE-USED. NEW CIRCUITING AS INDICATED ON THE DRAWINGS IS SHOWN FOR INTENT ONLY AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS (NEW CIRCUITING SHALL MATCH EXISTING WHERE POSSIBLE TO UTILIZE EXISTING HOME-RUN CONDUITS, ETC.). KEEP AS-BUILT DRAWINGS CURRENT WITH ANY DEVIATION IN CIRCUITING FROM WHAT IS INDICATED WITHIN THESE PLANS.
6. THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DISCARDED AND ABANDONED MATERIALS LEFT OVER FROM DEMOLITION AND INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES. MATERIALS EMBEDDED IN GRADE AND / OR CONCRETE MAY BE ABANDONED IN PLACE. ALL ABANDONED CONDUIT SHALL BE CAPPED.

SHEET NOTES

- ① REMOVE FIXTURE COMPLETE TO ALLOW FOR INSTALLATION OF ROLL UP DOORS. RETAIN EXISTING CIRCUITING FOR EXTENSION TO NEW LIGHTING.
- ② REMOVE REMAINING FIXTURE HOUSING AND RETAIN EXISTING CIRCUITING FOR EXTENSION TO NEW LIGHTING.
- ③ REMOVE FIXTURE AND CONTROL. RETAIN CIRCUITING FOR EXTENSION NEW LIGHTING.

A ELECTRICAL DEMOLITION PLAN
E101 SCALE: 1/4" = 1'-0"

22189-01 - demo.dwg January 20, 2022 5:00 PM



Date	Revision
1/25/23	COR Comments

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City of Sparks
 "B" Street Amphitheater Renovation
 Sparks, NV

Electrical Demolition Plan

November 18, 2022
 H+K Project No: 2208

E101



SECTION 071900 - WATER REPELLENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes penetrating water-repellent treatment for cast-in-place concrete and CMU assemblies.

1.2 PERFORMANCE REQUIREMENTS

- A. Water Absorption: Minimum 80 percent reduction of water absorption after 24 hours in comparison of treated and untreated specimens.
1. Cast-in Place Concrete: ASTM C 642.
2. Concrete Masonry Units: ASTM C 140.
B. Water Penetration and Leakage through Masonry: Minimum 90 percent reduction in leakage rate in comparison of treated and untreated specimens, according to ASTM E 514.
C. Durability: Maximum 5 percent loss of water-repellent properties after 2500 hours of weathering according to ASTM G 154 in comparison to water-repellent-treated specimens before weathering.

1.3 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of water repellent, from manufacturer.
B. Warranty: Special warranty specified in this Section.

1.4 PROJECT CONDITIONS

- A. Limitations: Proceed with application only when the following existing and forecasted weather and substrate conditions permit water repellents to be applied according to manufacturers' written instructions and warranty requirements:
1. Ambient temperature is above 40 deg F and below 100 deg F and will remain so for 24 hours.
2. Rain or snow is not predicted within 24 hours.
3. Not less than seven days have passed since surfaces were last wet.
4. Windy conditions do not exist that might cause water repellent to be blown onto vegetation or surfaces not intended to be treated.

1.5 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer and applicator agree to repair or replace materials that fail to maintain water repellency specified in "Performance Requirements" Article within specified warranty period.
1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PENETRATING WATER REPELLENTS

- A. Proprietary-Blend, Penetrating Water Repellent: Clear, consisting of 1 or several different resins (silanes or siloxanes), polymers, stearates, or oils plus other compounds or products of components; and with 5 lb/gal. (600 g/L) or less VOCs.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
a. Hydrozo, a division of ChemRex; Enviroseal Double 7 VOC.
b. L&M Construction Chemicals, Inc. Hydroblock.
c. Evonik-Degussa Corp; Chem-trete PB-VOC.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements and conditions affecting performance of the Work.
1. Verify that surfaces are clean and dry according to water-repellent manufacturer's requirements. Check moisture content in three representative locations by method recommended by manufacturer.
2. Inspect for previously applied treatments that may inhibit penetration or performance of water repellents.
3. Verify that there is no efflorescence or other removable residues that would be trapped beneath the application of water repellent.
4. Verify that required repairs are complete, cured, and dry before applying water repellent.
B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Cleaning: Before application of water repellent, clean substrate of substances that could impair penetration or performance of product according to water-repellent manufacturer's written instructions and as follows:
1. Cast-in-Place Concrete and Concrete Unit Masonry: Remove oil, curing compounds, laitance, and other substances that inhibit penetration or performance of water repellents according to ASTM E 1857.
B. Protect adjoining work, including mortar and sealant bond surfaces, from spillage or blow-over of water repellent. Cover live vegetation.

3.3 APPLICATION

- A. Apply a second saturation coating, repeating first application. Comply with manufacturer's written instructions for limitations on drying time between coats and after rainstorm wetting of surfaces between coats. Consult manufacturer's technical representative if written instructions are not applicable to Project conditions.

3.4 FIELD QUALITY CONTROL

- A. Coverage Test: In the presence of Architect, hose down a dry, repellent-treated surface to verify complete and uniform product application. A change in surface color will indicate incomplete application.
1. Notify Architect seven days in advance of the dates and times when surfaces will be tested.
2. Reapply water repellent until coverage test indicates complete coverage.

3.5 CLEANING

- A. Immediately clean water repellent from adjoining surfaces and surfaces soiled or damaged by water-repellent application as work progresses. Correct damage to work of other trades caused by water-repellent application, as approved by Architect.
B. Comply with manufacturer's written cleaning instructions.

END OF SECTION 071900

SECTION 074214 - FORMED METAL WALL PANELS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Pre-formed, exposed-fastener, flat seam metal wall panel system including anchor clips, fasteners, flashing and trim.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.
B. Shop Drawings:
1. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 1-1/2 inches per 12 inches.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
B. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.
C. Retain strippable protective covering on metal panels during installation.

1.4 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed according to manufacturers' written instructions and warranty requirements.

1.5 COORDINATION

- A. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Design Loads: Design Loads shall be calculated in accordance with ASCE 7-05 by a professional engineer.

- B. Structural Capacity: The structural capacity for the panel system to resist all applicable loads, including wind loads, shall be determined in accordance with AISI SG-02-1. The calculated allowable panel capacity shall exceed the design load for all combinations of loading as required by ASCE 7-05.

- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
1. Temperature Change (Range): 120 deg F 67 deg C.

2.2 EXPOSED-FASTENER, LAP-SEAM METAL WALL PANELS

- A. General: Provide factory-formed metal panels designed to be field assembled by lapping side edges of adjacent panels and mechanically attaching panels to supports using exposed fasteners at side laps. Include accessories required for weathertight installation.
B. Corrugated-Profile, Exposed-Fastener Metal Wall Panels: Match existing wall panel profile.
1. Manufacturers: Subject to compliance with requirements, provided products by basis-of-design manufacturer, or other manufacturers offering products that comply with the specified requirements:
a. American Buildings - A Nucor Company.
1) Long Span III Panel System
2. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G90 coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A 755/A 755M.
a. Nominal Thickness: 0.276 inches.
b. Exterior Finish: Two-coat fluoropolymer.
c. Color: Match existing color.

2.3 MISCELLANEOUS MATERIALS

- A. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fascia, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels.
B. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fascia, parapet caps, soffits, reveals, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.
C. Panel Fasteners: Stainless steel self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal panels by means of factory-applied coating. Provide neoprene bonded sealing washers with finish to match panel color for exposed fasteners.
D. Lap Fasteners: Panel fasteners which are used to stitch panels together at panel laps shall be stainless steel self-tapping screws with neoprene bonded washers painted to match panel color in size as recommended by manufacturer.
E. Exposed Trim Fasteners: Stainless-steel fasteners painted to match panel color as recommended by manufacturer.

- F. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.

- 1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.
2. Joint Sealant: ASTM C 920; elastomeric polyurethane or silicone sealant; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended in writing by metal panel manufacturer.
3. Exposed Applications: Tripolymer of polyurethane sealant or equal in color as selected by Architect from manufacturer's standard range.

2.4 FINISHES

- A. Steel Panels and Accessories:
1. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.
1. Examine wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by metal wall panel manufacturer.
B. Examine rough-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.
C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal panel manufacturer's written recommendations.

3.3 METAL PANEL INSTALLATION

- A. General: Install metal panels according to manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.
1. Shim or otherwise plumb substrates receiving metal panels.
2. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until flashings that will be concealed by metal panels are installed.

- 3. Install screw fasteners in predrilled holes.
4. Locate and space fasteners in uniform vertical and horizontal alignment.
5. Install flashing and trim as metal panel work proceeds.
6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
7. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.

- B. Fasteners:
1. Steel Panels: Use stainless-steel fasteners for surfaces exposed to the exterior; use galvanized-steel fasteners for surfaces exposed to the interior.

- C. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.

- D. Lap-Seam Metal Panels: Fasten metal panels to supports with fasteners at each lapped joint at location and spacing recommended by manufacturer.
1. Lap ribbed or fluted sheets one full rib. Apply panels and associated items true to line for neat and weathertight enclosure.
2. Provide metal-backed washers under heads of exposed fasteners bearing on weather side of metal panels.
3. Locate and space exposed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer.
4. Install screw fasteners with power tools having controlled torque adjusted to compress washer lightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.
5. Flash and seal panels with weather closures at perimeter of all openings.
6. Install components required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal wall panel manufacturer; or, if not indicated, provide types recommended by metal panel manufacturer.

- E. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that are permanently watertight.
1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof performance.

- F. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that are permanently watertight.

- 1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof performance.

3.4 CLEANING AND PROTECTION

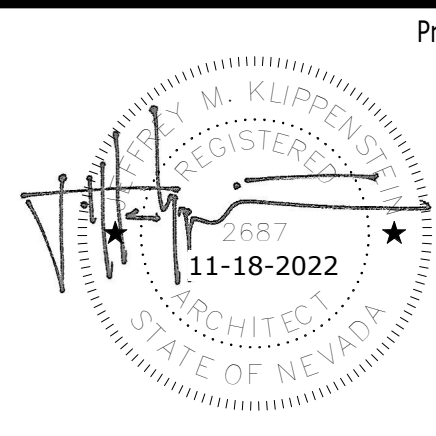
- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.

- B. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 074214

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City of Sparks

"B" Street Amphitheater Renovation

Victorian Avenue
Sparks, NV

Specifications

November 18, 2022
H+K Project No: 2208

A802



SECTION 081113 – STEEL DOORS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes hollow-metal work.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Store hollow-metal work vertically under cover at Project site with head up. Place on minimum 4-inch-high wood blocking.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Steelcraft, an Allegion Brand (basis-of-design)
2. Curries Company, ASSA ABLÖY

2.2 EXTERIOR HOLLOW-METAL DOORS AND FRAMES

- A. Construct exterior doors and frames to comply with the standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.
B. Maximum-Duty Doors and Frames: SDI A250.8, Level 4.
1. Physical Performance: Level A according to SDI A250.4.
2. Doors:
a. Type: As indicated in the Door and Frame Schedule.
b. Thickness: 1-3/4 inches
c. Face: Metallic-coated steel sheet, minimum thickness of 0.067 inch, with minimum A40 coating.
d. Edge Construction: Model 2, Seamless.
e. Core: Manufacturer's standard polystyrene, polyurethane, polyisocyanurate, mineral-board, or vertical steel-stiffener core at manufacturer's discretion.
3. Frames:
a. Materials: Metallic-coated steel sheet, minimum thickness of 0.067 inch, with minimum A40 coating.
b. Construction: Full profile welded, ground smooth to match frame texture.
4. Exposed Finish: Prime for field painting.

2.3 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
B. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
C. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B.
D. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153/A 153M.
E. Mineral-Fiber Insulation: ASTM C 665, Type I (blankets without membrane facing); consisting of fibers manufactured from slag or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E 136 for combustion characteristics.

2.4 FABRICATION

- A. Fabricate hollow-metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for metal thickness.
B. Hollow-Metal Doors:
1. Vertical Edges for Single-Acting Doors: Provide beveled or square edges at manufacturer's discretion.
2. Top Edge Closures: Close top edges of doors with flush closures of same material as face sheets.
3. Bottom Edge Closures: Close bottom edges of doors with end closures or channels of same material as face sheets. Provide weep-hole openings in bottom of door to permit moisture to escape. Seal joints in to edges of doors against water penetration.
C. Fabricate concealed stiffeners and edge channels from either cold- or hot-rolled steel sheet.
D. Hardware Preparation: Factory prepare hollow-metal work to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to SDI A250.6, the Door Hardware Schedule, and templates.

- 1. Reinforce doors and frames to receive nontemplated, mortised, and surface-mounted door hardware.
2. Comply with applicable requirements in SDI A250.6 and BHMA A156.115 for preparation of hollow-metal work for hardware.

2.5 STEEL FINISHES

- A. Prime Finish: Clean, pretreat, and apply manufacturer's standard primer.
1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with SDI A250.10; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
B. Examine roughing-in for embedded and built-in anchors to verify actual locations before frame installation.

- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Drill and tap doors and frames to receive nontemplated, mortised, and surface-mounted door hardware.

3.3 INSTALLATION

- A. General: Install hollow-metal work plumb, rigid, properly aligned, and securely fastened in place. Comply with Drawings and manufacturer's written instructions.
B. Hollow-Metal Doors: Fit hollow-metal doors accurately in frames, within clearances specified below. Shim as necessary.
1. Non-Fire-Rated Steel Doors:
a. Between Door and Frame Jamb and Head: 1/8 inch plus or minus 1/32 inch.
b. Between Edges of Pairs of Doors: 1/8 inch to 1/4 inch plus or minus 1/32 inch.
c. At Bottom of Door: 3/4 inch typical, 1/4 inch at raised thresholds, plus or minus 1/32 inch.
d. Between Door Face and Stop: 1/16 inch to 1/8 inch plus or minus 1/32 inch.

3.4 ADJUSTING AND CLEANING

- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow-metal work that is warped, bowed, or otherwise unacceptable.
B. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying, rust-inhibitive primer.

END OF SECTION 081113

SECTION 083323 - OVERHEAD COILING DOORS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:

- 1. Service doors.

1.2 ACTION SUBMITTALS

- A. Product and Maintenance Data: For each type and size of overhead coiling door and accessory.
B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.

- 1. Include points of attachment and their corresponding static and dynamic loads imposed on structure.
2. Show locations of controls, locking devices detectors or replaceable fusible links, and other accessories.
3. Include diagrams for power, signal, and control wiring.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.

1.4 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of doors that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Structural Performance, Exterior Doors: Capable of withstanding the following design wind loads:
1. Design Wind Load: 37.0 PSF.
2. Testing: According to ASTM E330/E330M.
B. Seismic Performance: Overhead coiling doors withstand the effects of earthquake motions determined according to ASCE/SEI 7.

2.2 DOOR ASSEMBLY

- A. Service Door: Overhead coiling door formed with curtain of interlocking metal slats.
1. CornellCookson, Inc. (basis-of-design)
2. Or equal.
B. Operation Cycles: Door components and operators capable of operating for not less than 50,000 cycles.
C. Door Curtain Material: Galvanized steel.
D. Door Curtain Slats: Flat profile slats of 3-1/4 inch center-to-center height.
1. Perforated Slats: Approximately 1/8-inch pinholes with 22% minimum open space.
E. Bottom Bar: Two angles, each not less than 1-1/2 by 1-1/2 by 1/8 inch thick; fabricated from hot-dip galvanized steel and finished to match door.
F. Curtain Jamb Guides: Galvanized steel with exposed finish matching curtain slats.
G. Hood: Galvanized steel.
1. Mounting: Face of HSS steel beam.
H. Locking Devices: Equip door with locking device assembly.
1. Locking Device Assembly: Cremona-type, both jamb side locking bars, operable from inside with thumbturn.
I. Electric Door Operator:
1. Usage Classification: Standard duty, up to 25 cycles per hour and 90 cycles per day.
2. Safety: Listed according to UL 325 by a qualified testing agency for commercial or industrial use.
3. Motor Exposure: Exterior.
4. Motor Electrical Characteristics:
a. Horsepower: 1 hp.
b. Voltage: 240V, 1 phase.
5. Emergency Manual Operation: Push-up type.
6. Obstruction-Detection Device: Automatic photoelectric sensor.
7. Control Stations: Where indicated on Drawings.

J. Door Finish:

- 1. Factory Prime Finish: Prepared for high-performance intermediate and finish coating compliant with MPI EXT 5.1F coating system (MPI #101 prime coat).

2.3 MATERIALS, GENERAL

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.4 DOOR CURTAIN MATERIALS AND CONSTRUCTION

- A. Door Curtains: Fabricate overhead coiling-door curtain of interlocking metal slats, designed to withstand wind loading indicated, in a continuous length for width of door without splices. Unless otherwise indicated, provide slats of thickness and mechanical properties recommended by door manufacturer for performance, size, and type of door indicated, and as follows:
B. Curtain Jamb Guides: Manufacturer's standard angles or channels and angles of same material and finish as curtain slats unless otherwise indicated, with sufficient depth and strength to retain curtain, to allow curtain to operate smoothly, and to withstand loading. Slot bolt holes for guide adjustment. Provide removable stops on guides to prevent overtravel of curtain.

2.5 HOODS

- A. General: Form sheet metal hood to entirely enclose coiled curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Form closed ends for surface-mounted hoods and fascia for any portion of between-jamb mounting projecting beyond wall face. Equip hood with intermediate support brackets as required to prevent sagging.

2.6 LOCKING DEVICES

- A. Slide Bolt: Fabricate with side-locking bolts to engage through slots in tracks for locking by padlock, located on both left and right jamb sides, operable from coil side.
B. Locking Device Assembly: Fabricate with cylinder lock, spring-loaded dead bolt, operating handle, cam plate, and adjustable locking bars to engage through slots in tracks.
1. Lock Cylinders: Manufacturer's standard 6-pin cylinder.
2. Keys: Six (6) for each cylinder.
C. Safety Interlock Switch: Equip power-operated doors with safety interlock switch to disengage power supply when door is locked.

2.7 COUNTERBALANCE MECHANISM

- A. General: Counterbalance doors by means of manufacturer's standard mechanism with an adjustable-tension, steel helical torsion spring mounted around a steel shaft and contained in a spring barrel connected to top of curtain with barrel rings. Use grease-sealed bearings or self-lubricating graphite bearings for rotating members.
B. Brackets: Manufacturer's standard mounting brackets of either cast iron or cold-rolled steel plate.

2.8 ELECTRIC DOOR OPERATORS

- A. General: Electric door operator assembly of size and capacity recommended and provided by door manufacturer for door and operation-cycles requirement specified, with electric motor and factory-prewired motor controls, starter, gear-reduction unit, solenoid-operated brake, clutch, control stations, control devices, integral gearing for locking door, and accessories required for proper operation.
1. Comply with NFPA 70.
2. Control equipment complying with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6, with NFPA 70 Class 2 control circuit, maximum 24-V.

- B. Usage Classification: Electric operator and components capable of operating for not less than number of cycles per hour indicated for each door.
C. Motors: Reversible-type motor with exposure indicated for each door assembly.
1. Electrical Characteristics: Minimum as indicated for each door assembly. If not indicated, large enough to start, accelerate, and operate door in either direction from any position, at a speed not less than 8 in./sec. and not more than 12 in./sec., without exceeding nameplate ratings or service factor.
2. Operating Controls, Controllers, Disconnect Switches, Wiring Devices, and Wiring: Manufacturer's standard unless otherwise indicated.
D. Obstruction-Detection Devices: External entrapment protection consisting of indicated automatic safety sensor capable of protecting full width of door opening.
1. Photoelectric Sensor: Manufacturer's standard system designed to detect an obstruction in door opening without contact between door and obstruction.
a. Self-Monitoring Type: Designed to interface with door operator control circuit to detect damage to or disconnection of sensing device. When self-monitoring feature is activated, door closes only with sustained or constant pressure on close button.
E. Control Station: Three-button control station in fixed location with momentary-contact push-button controls labeled "Open" and "Stop" and sustained- or constant-pressure push-button control labeled "Close."
1. Exterior-Mounted Units: Full-guarded, standard-duty, surface-mounted, weatherproof type, NEMA ICS 6, Type 4 enclosure, key operated.
F. Emergency Manual Operation: Equip each electrically powered door with capability for emergency manual operation. Design manual mechanism so required force for door operation does not exceed 30 lbf.
G. Emergency Operation Disconnect Device: Equip operator with hand-operated disconnect mechanism for automatically engaging manual operator and releasing brake for emergency manual operation while disconnecting motor without affecting timing of limit switch. Mount mechanism so it is accessible from floor level. Include interlock device to automatically prevent motor from operating when emergency operator is engaged.
H. Motor Removal: Design operator so motor may be removed without disturbing limit-switch adjustment and without affecting emergency manual operation.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Install overhead coiling doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified. Install per UL 325.

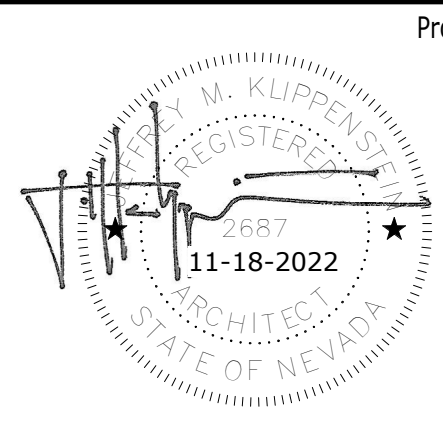
3.2 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain overhead coiling doors.

END OF SECTION 083323

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City of Sparks
"B" Street Amphitheater Renovation

Victorian Avenue
Sparks, NV

Specifications

November 18, 2022
H+K Project No: 2208

A803



SECTION 092216 - NON-LOAD-BEARING STEEL FRAMING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Non-load-bearing steel framing systems for exterior metal panel assemblies.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 FRAMING SYSTEMS

- A. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
 - 1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal unless otherwise indicated.
 - 2. Protective Coating: Coating with equivalent corrosion resistance of ASTM A 653/A 653M, G40 (Z120), hot-dip galvanized unless otherwise indicated.
- B. Studs and Tracks: ASTM C 645. Use steel studs and tracks.
 - 1. Steel Studs and Runners:
 - a. Minimum Base-Metal Thickness: 54mil (16ga).
 - b. Depth: As indicated on Drawings.
- C. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
 - 1. Minimum Base-Metal Thickness: 54mil (16ga).

2.2 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards.
 - 1. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
- B. Install bracing at terminations in assemblies.

3.3 INSTALLING FRAMED ASSEMBLIES

- A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
- B. Where studs are installed directly against exterior masonry, concretes or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
- C. Install studs so flanges within framing system point in same direction.
- D. Install tracks (runners) at bottom and top supports. Extend framing full height to structural supports. Continue framing around penetrations.
 - 1. Curved Partitions:
 - a. Bend track to uniform curve and locate straight lengths so they are tangent to arcs.
 - b. Begin and end each arc with a stud, and space intermediate studs equally along arcs. On straight lengths of no fewer than two studs at ends of arcs, place studs 6 inches (150 mm) o.c.
- E. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch (3 mm) from the plane formed by faces of adjacent framing.

END OF SECTION 092216

SECTION 099600 - HIGH-PERFORMANCE COATING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes surface preparation and application of high-performance coating system.
 - 1. Exterior Substrate:
 - a. Steel.
 - b. Wood.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated. Include preparation requirements and application instructions. Provide printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
- B. Samples: For each type of coating system and in each color indicated.

1.3 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Coatings: 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.5 FIELD CONDITIONS

- A. Apply coatings only when temperature of surfaces to be coated and surrounding air temperatures are between 50 and 95 deg F (10 and 35 deg C).
- B. Do not apply coatings when relative humidity exceeds 85 percent; at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.
- C. Do not apply exterior coatings in snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Benjamin Moore & Co.
 - 2. Sherwin-Williams Company (The)
 - 3. PPG Paints, PPG Industries, Inc.

2.2 HIGH-PERFORMANCE COATINGS, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists".
- B. Material Compatibility:
 - 1. Provide materials for use within each coating system that are compatible with one another, and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a coating system, provide products recommended in writing by manufacturers of topcoat for use in coating system and on substrate indicated.
 - 3. Provide products of same manufacturer for each coat in a coating system.
- C. Gloss Level 5 (Semi Gloss): 35 to 70 units at 60 degrees, according to ASTM D 523
- D. Colors: Match Architect's sample(s). Intent is for ceilings, fascia/soffit, and new improvements to each have a distinct color.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for conditions affecting performance of the Work.
- B. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.

- C. Blast or otherwise clean substrates of substances that could impair bond of coatings, including rust, dirt, oil, grease, dust, and incompatible paints and encapsulants.

- 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.
- 2. Filler. Sand smooth when dried.

3.3 APPLICATION

- A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
- D. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp color breaks.

3.4 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from coating operation. Correct damage by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

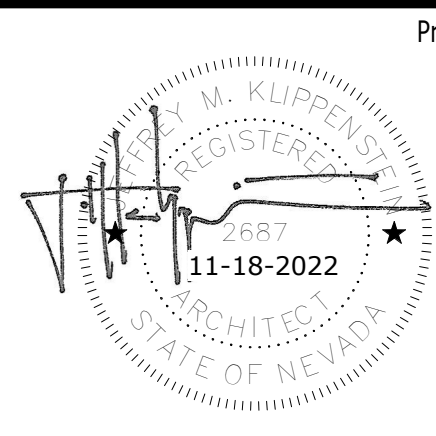
3.5 EXTERIOR HIGH-PERFORMANCE COATING SCHEDULE

- A. Steel Substrates:
 - 1. Epoxy System: MPI EXT 5.1F
 - a. Prime Coat: Epoxy, anti-corrosive, for metal (MPI #101).
 - b. Intermediate Coat: Epoxy, high build, low gloss (MPI #108).
 - c. Topcoat: Epoxy deck coating (MPI #77) - Gloss Level 5.
- B. Wood Substrates: Wood trim and board siding.
 - 1. Pigmented Polyurethane System: MPI EXT 6.3H
 - a. Prime Coat: Polyurethane, two component, pigmented, gloss, matching topcoat.
 - b. Intermediate Coat: Repeat Prime Coat.
 - c. Topcoat: Polyurethane, two component, pigmented (MPI #72).

END OF SECTION 099600

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City of Sparks
"B" Street Amphitheater Renovation

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Specifications

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H+K Project No: 2208

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