Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building, SPWD Site #9856, Building #0401
1650 North Virginia Street
Reno, Nevada 89503

Conformed Documents
April 23, 2025

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PAUL A. CAVIN REGISTERED 6284 4/22/2025 ARCHITECT STATE OF NEVADA

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revisions

No.	Description	Date

drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035
drawing name	Cover Sheet
sheet number	A000

Conformed Documents

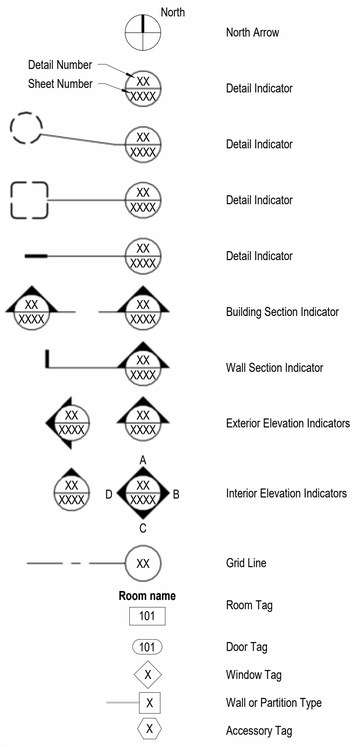
General Notes

1. The General Notes and all other notes herein apply to all work described in the Contract Documents.
2. The Contract Documents consist of the Agreement between the Owner and Contractor, the Conditions of the Contract (General, Supplementary, Invitation to Bid and other Conditions) , Drawings, Project Manual, Specifications and Addenda issued prior to execution and all modifications issued after execution of the Contract.
3. The Work includes the completed or partially completed construction required by the Contract Documents and includes all labor, materials, equipment, coordination, and services necessary to produce the Work described in the contract documents.
4. The Contract Documents are complementary, the intent is to include all items and materials necessary for the proper execution and completion of the Work by the Contractor and any necessary sub-contractors.
5. The Contractor shall carefully study and compare the Contract Documents and shall at once report to the Architect any error, inconsistency or omission that is discovered. The Contractor to submit a Request for Information (RFI) to the Architect prior to proceeding. The Contractor shall not perform any portion of the Work at any time without current and complete Contract Documents.
6. The Contractor is required to visit the site as part of pre-bid preparation to compare the Drawings and Specifications and become familiar with any work in place and be informed of all conditions of the work environment including the Work 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 Contract Documents that may be required to complete the Work. The Contractor shall report inconsistencies in the drawings, specifications, and site conditions to the Owner and Architect during the bid period. Failure to report inconsistencies does not relieve the Contractor from furnishing or providing the necessary material and/or labor to complete the work described in the Contract Documents.
7. Drawings are not to be scaled for information or disassembled for convenience.
8. In the event certain features of the Work are not fully shown in the Contract Documents, then the construction shall be of the same character as for similar conditions that are shown or called for and shall be reviewed by the Architect prior to execution.
9. All Work shall be performed within strict conformance to the minimum standards of the current edition of the International Building Code (IBC) and all applicable national, state and local laws, regulations and ordinances.
10. The Contractor shall comply with notices given and required by lawful orders of public authorities applicable to the performance of the Work.
11. The Contractor shall coordinate locations of any and all items, including but not limited to: existing conditions, civil, landscape, structural, mechanical, plumbing, electrical, lighting, data, voice and audio/visual; including, but not limited to all structure. equipment, ductwork, piping and conduit. Coordinate all required clearances for installation and maintenance of the above items.
12. The Contractor shall supervise and direct the Work, using the best skill and attention necessary and shall be solely responsible for all construction means, methods, techniques, sequences, procedures and for coordination of all portions of the Work described in the Contract Documents.
13. The Contractor shall be responsible for the acts and omissions of the Contractor's employees, Sub-contractors, suppliers, vendors and their agents and employees and other persons or entities performing any portion of the Work under a Contract with the Contractor.
14. The Contractor shall perform the Work in a continuous and diligent manner to ensure Substantial Completion of the Project within the Contract Time.
15. The Contractor shall be responsible for the location and protection of all existing items and materials, all new construction items and materials, adjacent circulation paths (pedestrian and vehicular), and other improvements during the course of construction.
16. Unless noted otherwise in the Contract Documents, the Contractor shall provide and pay for all labor, materials, equipment, tools, machinery, water, heating, utilities, transportation and other facilities and services necessary for the proper execution and completion of the Work.
17. Where conflicts are encountered within the Contract Documents that will effect the quality or extent of the work, such conflict shall be resolved to the satisfaction of the Owner and Architect before the affected items and materials are purchased, fabricated or installed.
18. Where variance occurs between the drawings, specifications, site, and design disciplines, the more stringent requirements shall govern.
19. Where conflicts occur at the Project site, coordinate the necessary layouts and exact locations of all elements of work in conflicting areas with the Architect in the field before proceeding with the Work.
20. Where pre-manufactured items and materials are to be installed, the Contractor shall verify all necessary dimensions in the field prior to the purchase and/or fabrication of the items and materials.
21. The Contractor warrants that materials and equipment furnished under the Contract will be of good quality and new unless identified otherwise in the Contract Documents.
22. The Contractor shall guarantee and warranty all work and materials to the project to be free from defects for a minimum of one year from the date of substantial completion and promptly remedy such defects and any subsequent damage caused by the defects or repair thereof at no expense to the Owner. Guarantee and warranty periods greater than one year may be required elsewhere in the Contract Documents.
23. Where any item or material is indicated in the Contract Documents and not necessarily detailed in each specific case, but are required for a complete and professional installation, such item or material shall be provided as if shown and detailed in full. Contractor to provide all necessary labor, materials, means and methods to furnish and install.
24. The Contractor shall employ a competent Project Manager, Superintendent and necessary personnel for the Work. The Superintendent shall be in attendance at the Project site during execution of the Work.
25. The Contractor shall comply with all sections of Chapter 33 of the 2018 I.B.C.
26. The Contractor shall not employ (for the Project at hand) a proposed project manager and/or superintendent, to whom the Owner and/or Architect have made a reasonable and timely objection. The Contractor shall not change the Project Manager or Superintendent without the Owner's consent.
27. The Contractor shall be responsible for initiating, maintaining and supervising all safety programs and precautions of the Project and Project site during the course of construction, all Work performed shall conform to applicable safety regulations.
28. The Contractor and/or Sub-Contractor shall promptly remedy damage to the Owner's property caused by the Contractor and/or Sub-Contractor to existing conditions and/or new construction.
29. The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by work operations. At the completion of the Work the Contractor shall remove all waste materials and rubbish associated with the Work as well as all tools, construction equipment, machinery and surplus materials.
30. The Contractor shall provide the Owner and Architect access to the Project site and Work where ever located. The Contractor shall provide the necessary safety equipment to the Owner, Architect, Engineer or other design personnel visiting the site. Safety equipment shall include, but not be limited to: Hard hat, safety vest, safety glasses, face coverings, reading glasses, dust mask, and hearing protection.
31. Existing conditions including material sizes, configurations and locations as shown in the Contract Documents may not be an exact illustration of existing conditions. The Contractor shall include in his bid the cost of furnishing, installing, modifying, existing and new materials required for a complete and professional installation that may be required by minor variation between existing conditions and actual conditions.
32. The Contractor shall promptly correct Work rejected by the Architect that fails to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion.
33. Shop drawings, submittals, product data and samples are not a part of the Contract Documents. The Architect will review such materials, 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 or Engineer's review of shop drawings, submittals, product data or samples.
34. The Architect has the authority to order minor changes in the Work not involving adjustment to the Contract Sum or extension of the Contract Time. Such orders shall not be inconsistent with the intent of the Contract Documents. Such minor changes will be issued in written format, signed by the Architect.
35. The existing building and the areas adjacent to the project scope of work will remain occupied during construction. Contractor to minimize disturbances, noise, dust and debris as much as reasonable in order for the building to remain an active and safe facility.
36. The Contract Documents (drawings, project manual, etc.) will be issued to the General Contractor in electronic portable document format (pdf). The General Contractor, sub-contractors, and all others shall be responsible for reproduction (printing) and reproduction costs of the Contract Documents for their use before, during, and after construction operations.

Abbreviations

@	At	In	Inches
#	Pound or Number	ID	Inside Diameter
(e)	Existing		
		Lav	Lavatory
AC	Asphaltic Concrete	Lbs	Pounds
ACT	Acoustical Ceiling Tile	LED	Light Emitting Diode
AFF	Above Finished Floor	LF	Linear Feet (foot)
Alum	Aluminum		
AV	Audio Visual	Max	Maximum
		Mfrs	Manufacturer's
CF/CI	Contractor Furnished / Contractor Installed	Min	Minimum
		Misc	Miscellaneous
CF/OI	Contractor Furnished / Owner Installed	MO	Masonry Opening
CJ	Control Joint	NIC	Not in Contract
CL	Center Line	No	Number
CMU	Concrete Masonry Unit		
Conc	Concrete	OC	On Center
Cont	Continuous	OD	Outside Diameter
CPT	Carpet	OF/CI	Owner Furnished / Contractor Installed
CT	Ceramic Tile		
CTV	Cable Television	OF/OI	Owner Furnished / Owner Installed
Deg	Degree		
Demo	Demolition	Plam	Plastic Laminate
DF	Drinking Fountain	PT	Paint
Dia	Diameter	PVC	Polyvinyl Chloride
Dim	Dimension		
		R	Radius
Ea	Each	RCP	Reflected Ceiling Plan
EJ	Expansion Joint	Rev	Revision
EWC	Electric Water Cooler	RO	Rough Opening
		RWL	Rain Water Leader
FD	Floor Drain		
FDC	Fire Department Connection	SF	Square Foot (Feet)
		Sim	Similar
FE	Fire Extinguisher	SS	Stainless Steel
FEC	Fire Extinguisher Cabinet	T&G	Tongue and Groove
FF&E	Furniture, Fixtures and Equipment	T	Tempered
		TO	Top of
FRP	Fiber Reinforced Plastic	TYP	Typical
FT	Feet or Foot		
		UNO	Unless Noted Otherwise
Ga	Gage		
Galv	Galvanized	VCT	Vinyl Composition Tile
Gyp bd	Gypsum Board	VIF	Verify in Field
HB	Hose Bib	WC	Water Closet
HC	Hollow Core	WD	Wood
HM	Hollow Metal	WH	Water Heater
HW	Hot Water		

Symbols



UNR Campus Map



Sheet Index

General

A000	Cover Sheet
G100	General Information and Project Data
G101	Reference Site and Contractor Staging Area
G102	Code Plan
G103	Overall Phasing Plan
G104	Phase 1 - Construction Plan
G105	Phase 2 - Construction Plan
G106	Phase 3 - Construction Plan
G107	Accessibility Details

Architectural

A001	Architectural Site Plan
A020	Partial Demolition Plan - South Entry Ramp - East End
A021	Partial Demolition Plan - South Entry Ramp - West End
A022	Partial Alteration Plan - South Entry Ramp - East End
A023	Partial Alteration Plan - South Entry Ramp - West End
A024	Partial Stair and Ramp Plans - East Entry
A025	Ramp/Stairs Elevations and Perspectives
A026	Ramp/Stairs Sections - South Entry
A027	Ramp/Stairs Railing Elevations - East Entry
A028	Ramp/Stairs Railing Elevations - East Entry
A029	Ramp/Stairs Sections - East Entry
A030	Ramp/Stairs Sections - East Entry
A081	Site Details
A082	Site Details
A100	Overall Floor Plan
A101	Partial Demolition Floor Plan - Museum
A102	Partial Demolition Floor Plan - Collections
A111	Partial Alteration Floor Plan - Museum
A112	Partial Alteration Floor Plan - Collections
A121	Enlarged Floor Plan - Vestibule 100
A122	Enlarged Floor Plan - Lounge 119
A200	Overall Roof Plan
A201	Partial Demolition Roof Plan - Museum
A211	Partial Alteration Roof Plan - Museum
A281	Roof Details
A301	Exterior Elevations
A302	Exterior Elevations - Colored
A303	Enlarged Exterior Elevations - Museum
A304	Enlarged Exterior Elevations - Collections
A451	Wall Sections
A501	Partial Demolition Reflected Ceiling Plan - Museum
A502	Partial Demolition Reflected Ceiling Plan - Collections
A511	Partial Alteration Reflected Ceiling Plan - Museum
A512	Partial Alteration Reflected Ceiling Plan - Collections
A601	Door and Window Schedules
A602	Door Existing Photos
A603	Door Existing Photos and Door Details
A801	Casework Elevations, Sections & Details

Structural

S001	Structural General Notes
S002	Quality Assurance
S003	Typical Details
S101	North Entrance Foundation Demolition Plan
S102	North Entrance Foundation Plan
S103	East Entrance Foundation Demolition Plan
S104	East Entrance Foundation Plan
S201	Ceiling / Roof Framing Plan
S301	Foundation Details
S302	Foundation Details
S303	Structural Details

Mechanical/Plumbing

MP001	Mechanical & Plumbing Legends, General Notes
MP002	Mechanical & Plumbing Schedules & Details
MP101	Mechanical & Plumbing Overall Floor Plan
MP102	Mechanical & Plumbing Enlarged Plans

Fire Protection

FP101	Fire Protection Floor Plan

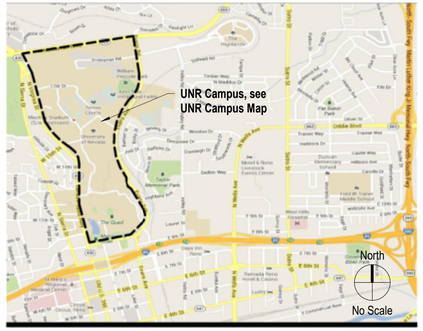
Electrical

E001	Legends & Drawing Schedule
E002	Fixture Schedule and IECC
E003	Oneline Diagrams
E004	Details
E005	Panel Schedules
E006	Panel Schedules and Calculations
E101	Demolition Electrical Site Plan
E102	New Electrical Site Plan
E201	Electrical Demolition Plan - Museum
E202	Electrical Demolition Plan - Collections
E203	Electrical Demolition Plan - Roof
E301	Lighting Plan - Museum
E302	Lighting Plan - Collections
E401	Power Plan - Museum
E402	Power Plan - Collections
E403	Roof Electrical Plan
E501	Fire Alarm Plan - Museum
E502	Fire Alarm Plan - Collections
E503	Roof Fire Alarm Plan

Telecom

T001	Telecom General Notes, Legend and Drawings Schedule
T002	Telecom Details
T003	Telecom Oneline Diagrams
T004	Enlarged Telecom Room Details
T005	Door Access Control System Details
T006	Intrusion Detection System Details
T007	Video Surveillance Camera System Details
T008	Video Surveillance Camera Mounting Details
T201	Telecom Plan - Museum
T202	Telecom Plan - Collections
T211	Security Plan - Museum
T212	Security Plan - Collections

Reno Vicinity Map



Project Team

Owner

State Public Works Division
680 W. Nye Lane, Suite 103
Carson City, Nevada 89703
Phone: (702) 664-9120
Contact: Jeremy Strawn, RA
e-mail: jstrawn@admin.nv.gov
Contact: Michael Rife
email: mcrife@admin.nv.gov

User

Nevada Division of Museums and History
412 East Musser Street
Carson City, Nevada 89701
Phone: (775) 687-7340
Contact: Dan Thielen
email: dthielen@nevadaculture.org

Architecture

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Phone: (775) 842-0261
Contact: Paul Cavin, AIA
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Project Manager: Jeffrey Purcell
e-mail: jeff@paulcavindesign.com

User Primary Contact

Nevada Historical Society (UNR Location)
1650 North Virginia Street
Reno, Nevada 89503
Phone: (775) 688-1190 ext. 222
Contact: Catherine Magee, Museum Director
email: cmagee@nevadaculture.org

Structural

CFBR Structural Group, Inc.
1650 Meadow Wood Lane
Reno, Nevada 89502
Phone: (775) 470-1365
Contact: Chris Roper, PE/SE
e-mail: chris@cfbrgroup.com
Project Manager: Tony Gugliuzza
e-mail: tony@cfbrgroup.com

Mechanical/Plumbing/Fire

Ainsworth Associates Mechanical Engineers
1420 Holcomb Ave, Suite 201
Reno, Nevada 89511
Phone: (775) 329-9100
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e-mail: rgravelle@aa-me.com
Project Manager: John Bigda, PE
e-mail: jbigda@aa-me.com

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PK Electrical, Inc.
681 Sierra Rose Drive, Suite B
Reno, Nevada 89511
Phone: (775) 826-9010
Contact: Karen Purcell, PE
e-mail: kpurcell@pkelectrical.com
Project Manager: Steve Villanueva
e-mail: svillanueva@pkelectrical.com

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drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

drawing name

General Information and Project Data

sheet number

G100

Conformed Documents



D5 Reference Site Plan and Contractor Staging Area
12" = 1'-0"

North

Project Notes

1. Coordinate construction operations, schedule, and sequencing with SPWD Project Manager, UNR Facilities Maintenance Services, and Nevada Historical Society staff.
2. Contractor is responsible for purchasing all necessary University parking permits for employees and sub-contractors. Contact parking services at (775) 784-4654.
3. Contractor shall coordinate with the Nevada Historical Society Director for all access/escorts of all trades to any part of the building at any time of Work.
4. Contractor is responsible for coordination of UNR dumpster relocation with UNR waste management.
5. Contractor to enclose the construction parking and staging area with 6' tall chain link fencing, the Contractor shall be responsible for all safety and security of materials and tools on the job site.
6. Refer to Project Manual and other Drawings for additional information and requirements.
7. Contractor shall coordinate with SPWD, Nevada Historical Society and UNR in regards to potential concurrent construction projects at this site and/or immediate area.

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Reference Site and Contractor Staging Area

sheet number

G101

Conformed Documents

Wall Legend

Existing wall or material to remain

Existing precast concrete wall to remain

Exiting Legend

0 — Occupant load accumulated from intervening areas

0 — Occupant load attributed to exit

Route to exit

Exit width calculation

000	.08"
42"	48"

Occupant load attributed to Exit | Width per occupant load in inches

Required Opening Width | Provided opening width in inches

Design Criteria

Applicable Codes and Regulations:

2018 International Building Code (IBC)
2018 Uniform Mechanical Code (UMC)
2018 Uniform Plumbing Code (UPC)
2017 National Electrical Code (NEC)
2018 International Fire Code (IFC)
Current National Fire Protection Association (NFPA)
2018 International Energy Conservation Code (IECC)
2018 International Existing Building Code (IEBC)
Nevada Administrative Code (NAC)
2009 ICC/ANSI A117.1
2010 Americans with Disabilities Act (ADA)

Scope of Work

SPWD #23-M10: The project consists of security and access control systems, renovate the fire and life safety systems, power distribution systems, lighting controls, receptacles, branch circuiting, data/telephone, and cameras at the Nevada Historical Society building.

SPWD #23-M16: The project consists of seismic retrofits to the existing structure, interior repairs to walls and ceilings as required to complete the seismic upgrade, renovate exterior stucco columns and repair concrete bases, and renovate damaged exterior stucco walls on the Collections building.

SPWD #23-S02-(2): The project consists of the construction of exterior ramps, stairs, landings, and sidewalks at the east and south entrances to the building for ADA compliance, remodel the interior breakroom for ADA compliance.

Phasing (see sheet G103)

Phase 1: This phase includes upgrades to the electrical, mechanical and fire systems and wall and ceiling repairs in the existing Collections building.

Phase 2: The phase includes upgrades to the electrical, mechanical, fire systems and seismic upgrades in the existing exhibit section of the museum building.

Phase 3: The project includes upgrades to the electrical, mechanical, fire systems and seismic upgrades in the existing office and documents section of the museum building.

Deferred Submittals

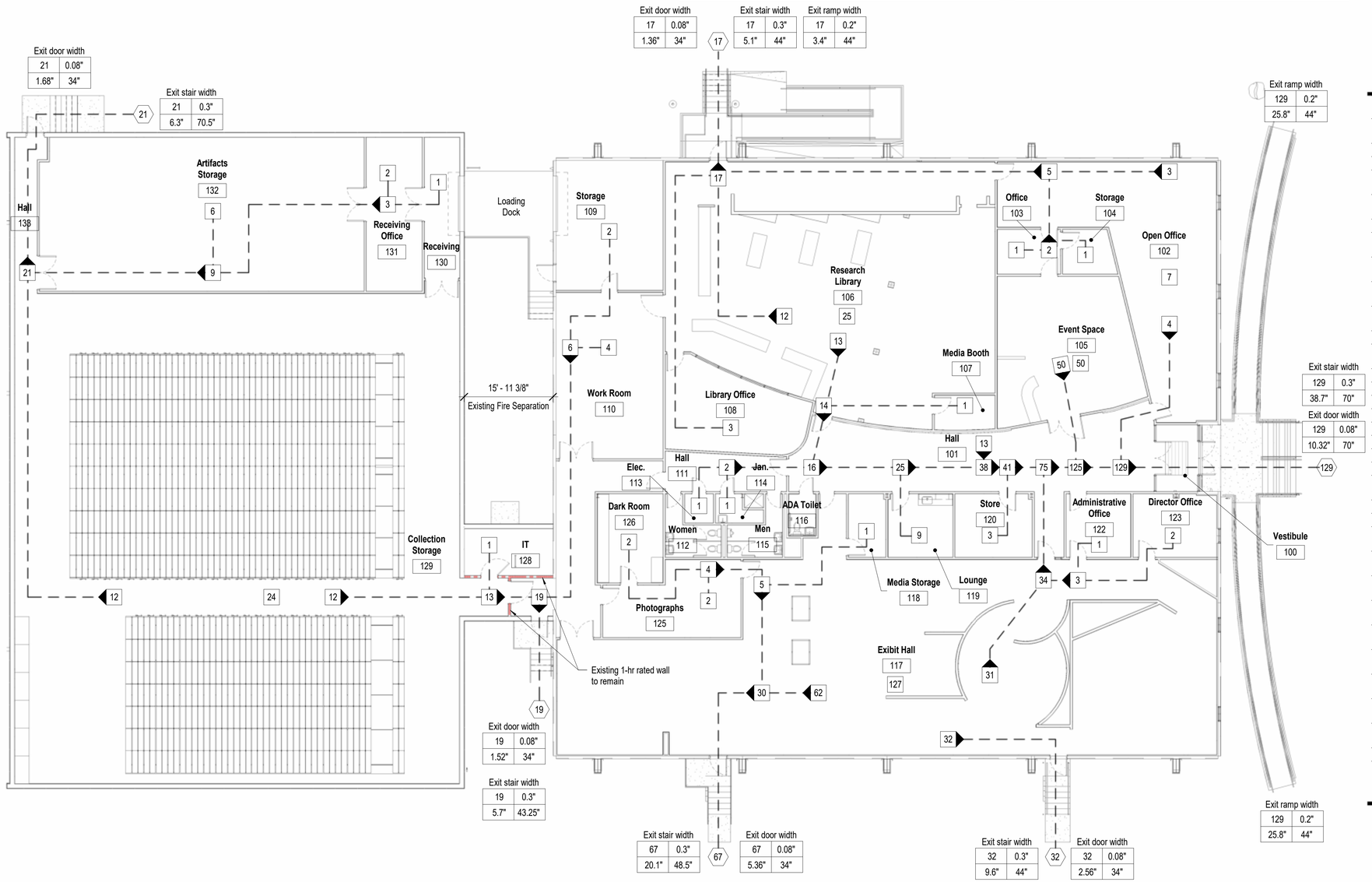
Fire Sprinkler / Fire Alarm: Deferred approval for fire sprinkler system and fire alarm system. Construction documents and plans for required modifications to the fire and life safety system to be submitted to the Nevada State Fire Marshal Division under separate application for review and approval prior to installation. To be prepared and submitted by a licensed Fire Sprinkler / Fire Alarm contractor.

Basis of Design

Address:	**1650 North Virginia Street Reno, NV 89503**	
APN:	**003-180-15 and 003-180-21**	
Existing Site Area:	**65,558 SF (1.51 AC)**	
Zoning:	**PF**	
Flood Zone:	**Flood Zone X**	
Occupancy		
A3:	**297 Occupants**	
S-1:	**34 Occupants**	
Total Occupant Load:	**328 Occupants**	
	Existing Museum Building	**Existing Archive Building**
Type of Construction:	**II-A**	**VB**
Occupancy Classifications:	**A3**	**S-1**
Occupancy Separation: (per IBC Table 602)	**Buildings separated by 10≤X<30**	
Allowable Area per: (per IBC Table 506.2)	**150,000 SF**	**70,000 SF**
A. Actual Square Footage:	**12,960 SF**	**9,923 SF**
Allowable Building Height:	**85' 0"**	**75' 0"**
A. Actual Building Height:	**15' 6"**	**31' 0"**
Fire Alarm:	**Yes (existing)**	**Yes (existing)**
Fire Sprinkler:	**Yes (existing)**	**Yes (existing)**

Occupant Calculations

Room Number	Room Name	Area	Occupancy	OLF	ROL
100	Vestibule	91 SF	Circulation	0	0
101	Hall	394 SF	Assembly - Exhibit	30	13
102	Open Office	987 SF	Business Area (Gross)	150	7
103	Office	91 SF	Business Area (Gross)	150	1
104	Storage	71 SF	Storage/Mechanical	300	1
105	Event Space	592 SF	Assembly - (without fixed seating)	7 (Net)	88 (50 Maximum)
106	Research Library	2444 SF	Library (Stack Area)	100	25
107	Media Booth	68 SF	Business Area (Gross)	150	1
108	Library Office	349 SF	Business Area (Gross)	150	3
109	Storage	450 SF	Storage/Mechanical	300	2
110	Work Room	577 SF	Business Area (Gross)	150	4
111	Hall	146 SF	Circulation	0	0
112	Women	75 SF	Restroom	0	0
113	Elec.	27 SF	Storage/Mechanical	300	1
114	Jan.	34 SF	Storage/Mechanical	300	1
115	Men	74 SF	Restroom	0	0
116	ADA Toilet	36 SF	Restroom	0	0
117	Exibit Hall	3324 SF	Assembly - Exhibit	30	127
118	Media Storage	76 SF	Storage/Mechanical	300	1
119	Lounge	132 SF	Assembly - Unconcentrated	15	9
120	Store	158 SF	Mercantile	60	3
121	Hall	63 SF	Circulation	0	0
122	Administrative Office	132 SF	Business Area (Gross)	150	1
123	Director Office	170 SF	Business Area (Gross)	150	2
125	Photographs	296 SF	Business Area (Gross)	150	2
126	Dark Room	190 SF	Business Area (Gross)	150	2
128	IT	133 SF	Business Area (Gross)	150	1
129	Collection Storage	6248 SF	Storage/Mechanical	300	24
130	Receiving	162 SF	Business Area (Gross)	150	1
131	Receiving Office	276 SF	Business Area (Gross)	150	2
132	Artifacts Storage	1605 SF	Storage/Mechanical	300	6
133	Hall	119 SF	Circulation	0	0
Grand total		19589 SF			328



D5 Code Plan
1" = 10'-0"

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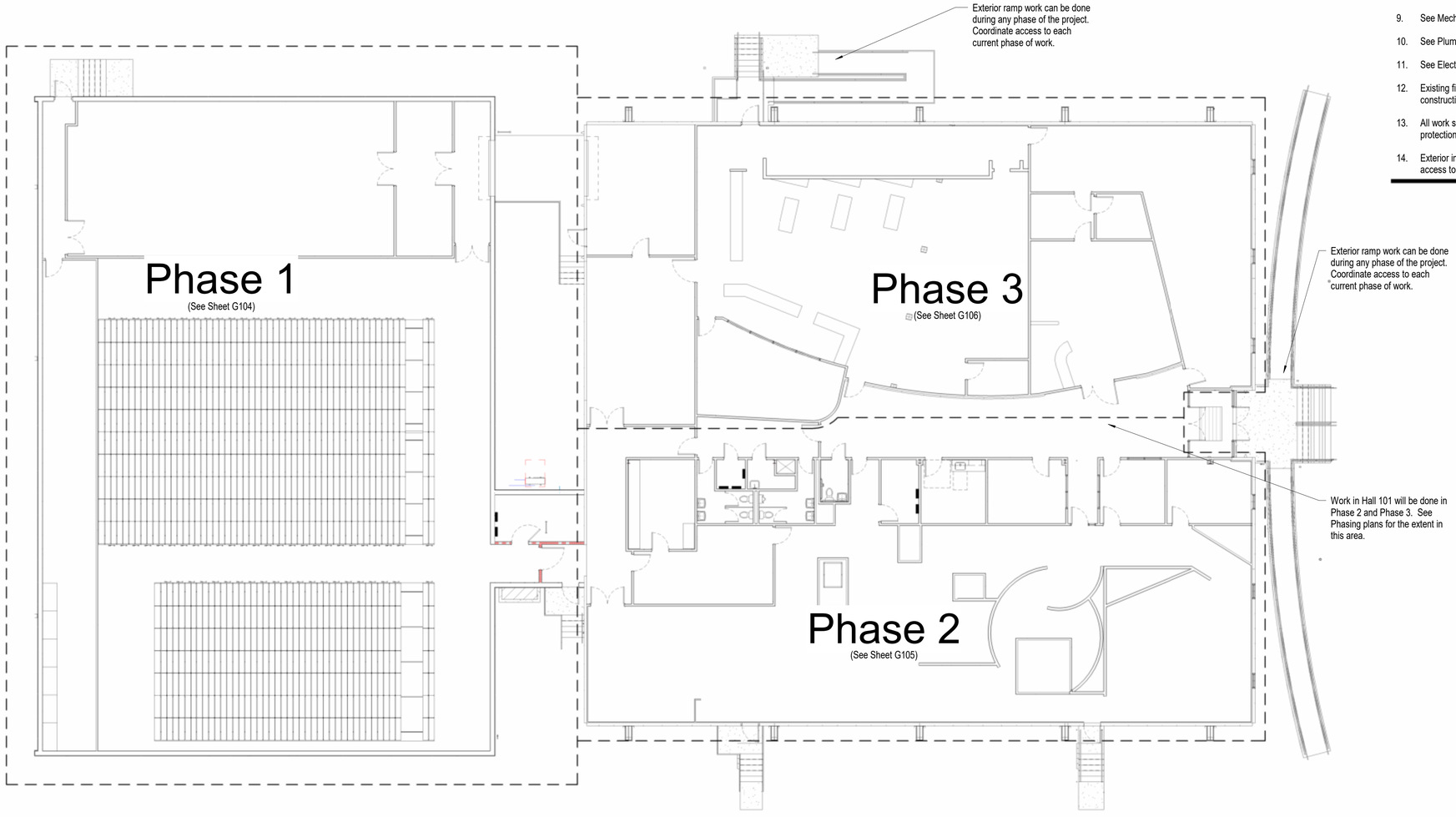
No.	Description	Date

drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035
drawing name	Code Plan

Conformed Documents

sheet number

G102



D5 Overall Phasing Plan
3/32" = 1'-0"

North

Phasing Construction Notes

1. The Contractor to coordinate phasing operations, schedule and sequencing with SPWD Project Managers and Nevada Historical Society Manager.
2. Contractor shall coordinate with the Nevada Historical Society Director for all access/escorts of all trades to any part of the building at any time of Work. Public will not be in building during the entire construction duration. However, staff will be working entire time.
3. See Sheet G100 Phasing scope of work description.
4. The Contractor shall provide a temporary construction barricade system that is full-height and provides dust-proof protection of museum and collections artifacts that cannot be moved. See Phasing Plans for locations, limits, and additional information. Contract shall provide proposed construction barrier design for each type of barrier for architect and tenant approval prior to installation.
5. Temporary construction barricade system shall be properly braced and be coordinated with all electrical, mechanical, structural and fire sprinkler Work.
6. The Contractor will be responsible for setting up, maintaining and the removal of the temporary construction barricades systems upon completion of the current phasing Work.
7. See Project Manual and Specifications for additional information and requirements.
8. See Structural drawings and Specifications for additional information and requirements.
9. See Mechanical drawings and Specifications for additional information and requirements.
10. See Plumbing drawings and Specifications for additional information and requirements.
11. See Electrical drawings and specifications for additional information and requirements.
12. Existing fire alarm system and fire suppression system to remain operational during construction.
13. All work shall be completed in current phase prior to removing temporary barriers, protection covers, etc.
14. Exterior improvements can be completed during any phase of the project. Coordinate access to each current phase of work.

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Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building, SPWD Site #9856, Building #0401
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

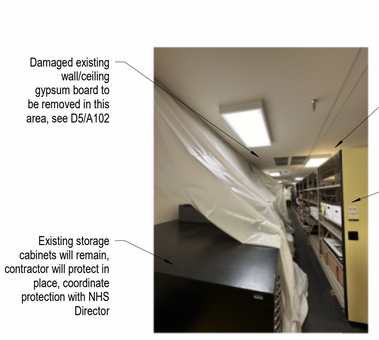
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Overall Phasing Plan

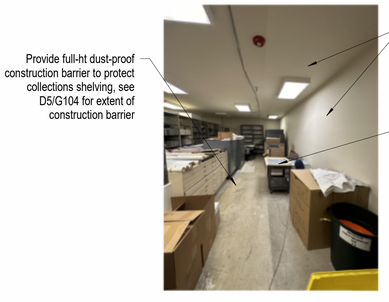
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G103

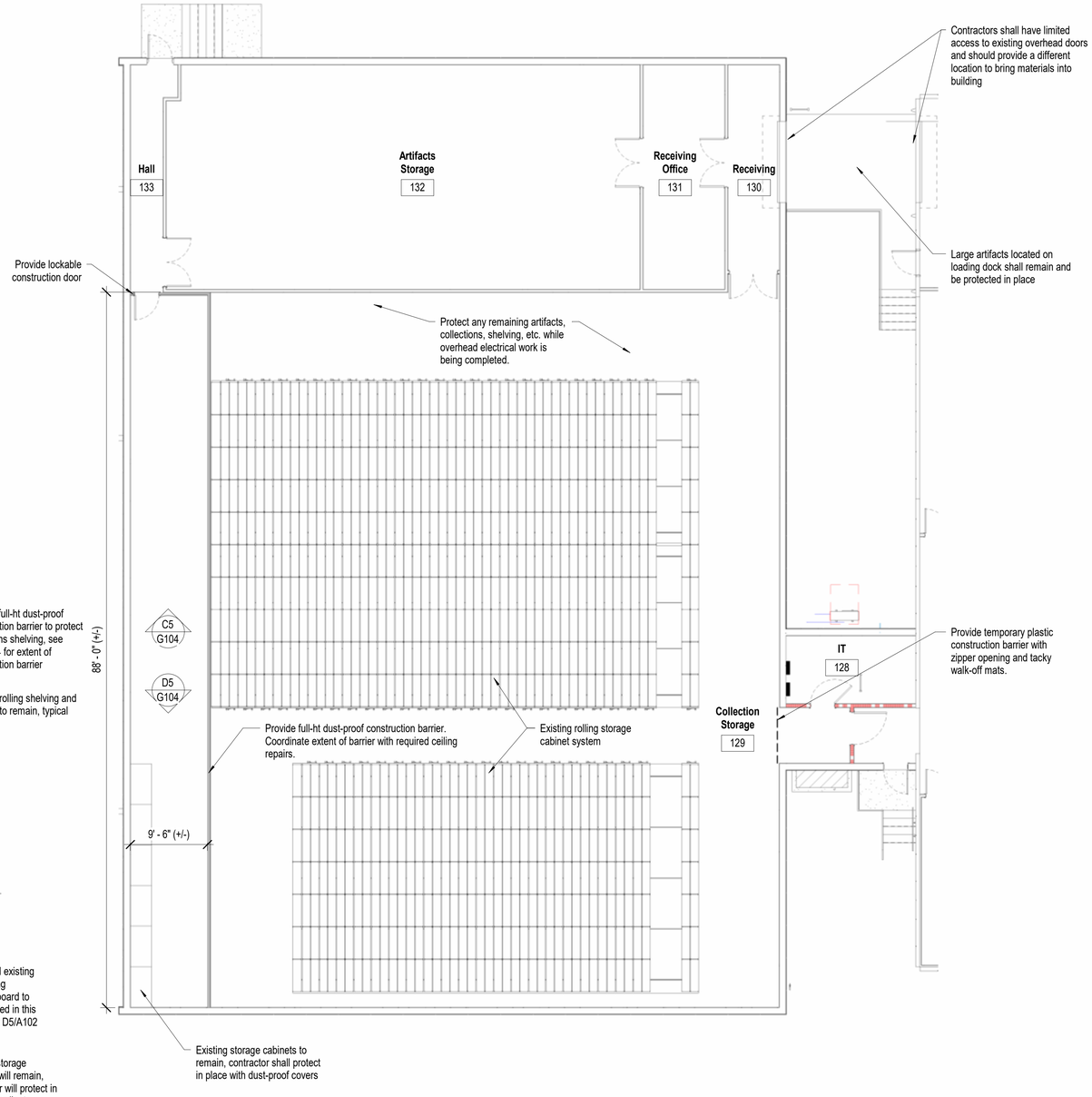
Conformed Documents



C5 Photo of Existing Conditions
12" = 1'-0"



D5 Photo of Existing Conditions
12" = 1'-0"



D4 Phase 1 - Construction Plan
1/8" = 1'-0"

Phasing Construction Notes

1. The Contractor to coordinate phasing operations, schedule and sequencing with SPWD Project Managers and Nevada Historical Society Manager.
2. Contractor shall coordinate with the Nevada Historical Society Director for all access/escorts of all trades to any part of the building at any time of Work. Public will not be in building during the entire construction duration. However, staff will be working entire time.
3. See Sheet G100 Phasing scope of work description.
4. The Contractor shall provide a temporary construction barricade system that is full-height and provides dust-proof protection of museum and collections artifacts that cannot be moved. See Phasing Plans for locations, limits, and additional information. Contract shall provide proposed construction barrier design for each type of barrier for architect and tenant approval prior to installation.
5. Temporary construction barricade system shall be properly braced and be coordinated with all electrical, mechanical, structural and fire sprinkler Work.
6. The Contractor will be responsible for setting up, maintaining and the removal of the temporary construction barricades systems upon completion of the current phasing Work.
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14. Exterior improvements can be completed during any phase of the project. Coordinate access to each current phase of work.

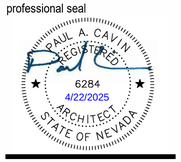
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project number	23035

drawing name

Phase 1 - Construction Plan

sheet number

G104

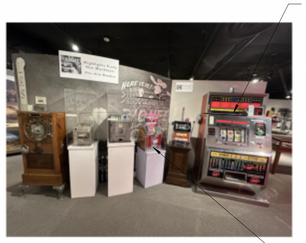
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Provide full-ht dust-proof construction barrier to protect the large display case, see D4/G105 for extent of construction barrier and coordinate with Structural, Electrical, Mechanical and Fire sprinkler upgrades

Existing displays will be moved by tenant, typical

A5 Photo of Existing Conditions
12" = 1'-0"



Provide full-ht dust-proof construction barrier to protect the large slot machine, see D4/G105 for extent of construction barrier and coordinate with Structural, Electrical, Mechanical and Fire sprinkler upgrades

Existing displays will be moved by tenant

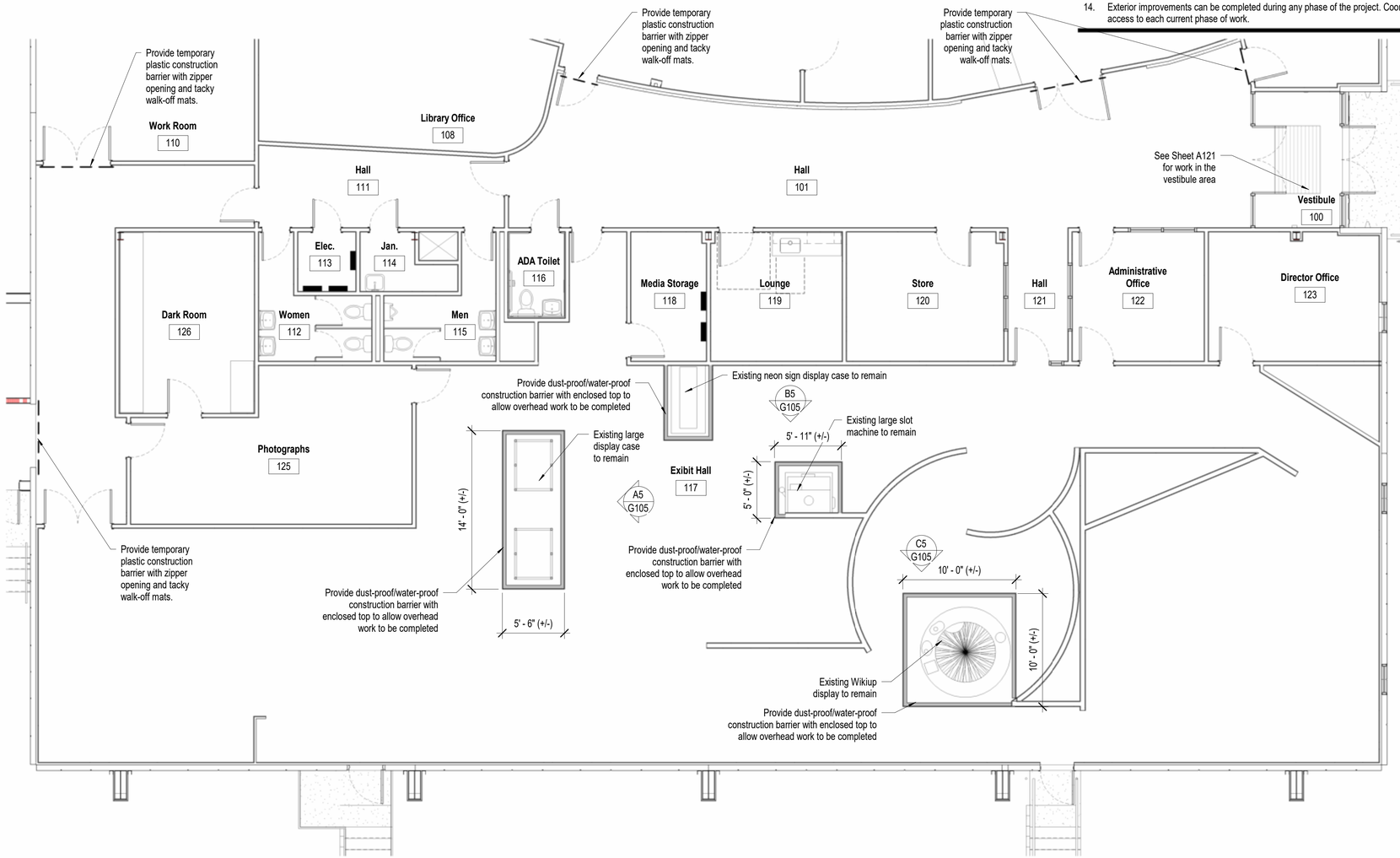
B5 Photo of Existing Conditions
12" = 1'-0"



Provide full-ht dust-proof construction barrier to protect Wikiup, see D4/G105 for extent of construction barrier and coordinate with Structural, Electrical, Mechanical and Fire sprinkler upgrades

Existing displays will be moved by tenant

C5 Photo of Existing Conditions
12" = 1'-0"



D4 Phase 2 - Construction Plan
3/16" = 1'-0"

North

Phasing Construction Notes

1. The Contractor to coordinate phasing operations, schedule and sequencing with SPWD Project Managers and Nevada Historical Society Manager.
2. Contractor shall coordinate with the Nevada Historical Society Director for all access/escorts of all trades to any part of the building at any time of Work. Public will not be in building during the entire construction duration. However, staff will be working entire time.
3. See Sheet G100 Phasing scope of work description.
4. The Contractor shall provide a temporary construction barricade system that is full-height and provides dust-proof protection of museum and collections artifacts that cannot be moved. See Phasing Plans for locations, limits, and additional information. Contract shall provide proposed construction barrier design for each type of barrier for architect and tenant approval prior to installation.
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9. See Mechanical drawings and Specifications for additional information and requirements.
10. See Plumbing drawings and Specifications for additional information and requirements.
11. See Electrical drawings and specifications for additional information and requirements.
12. Existing fire alarm system and fire suppression system to remain operational during construction.
13. All work shall be completed in current phase prior to removing temporary barriers, protection covers, etc.
14. Exterior improvements can be completed during any phase of the project. Coordinate access to each current phase of work.

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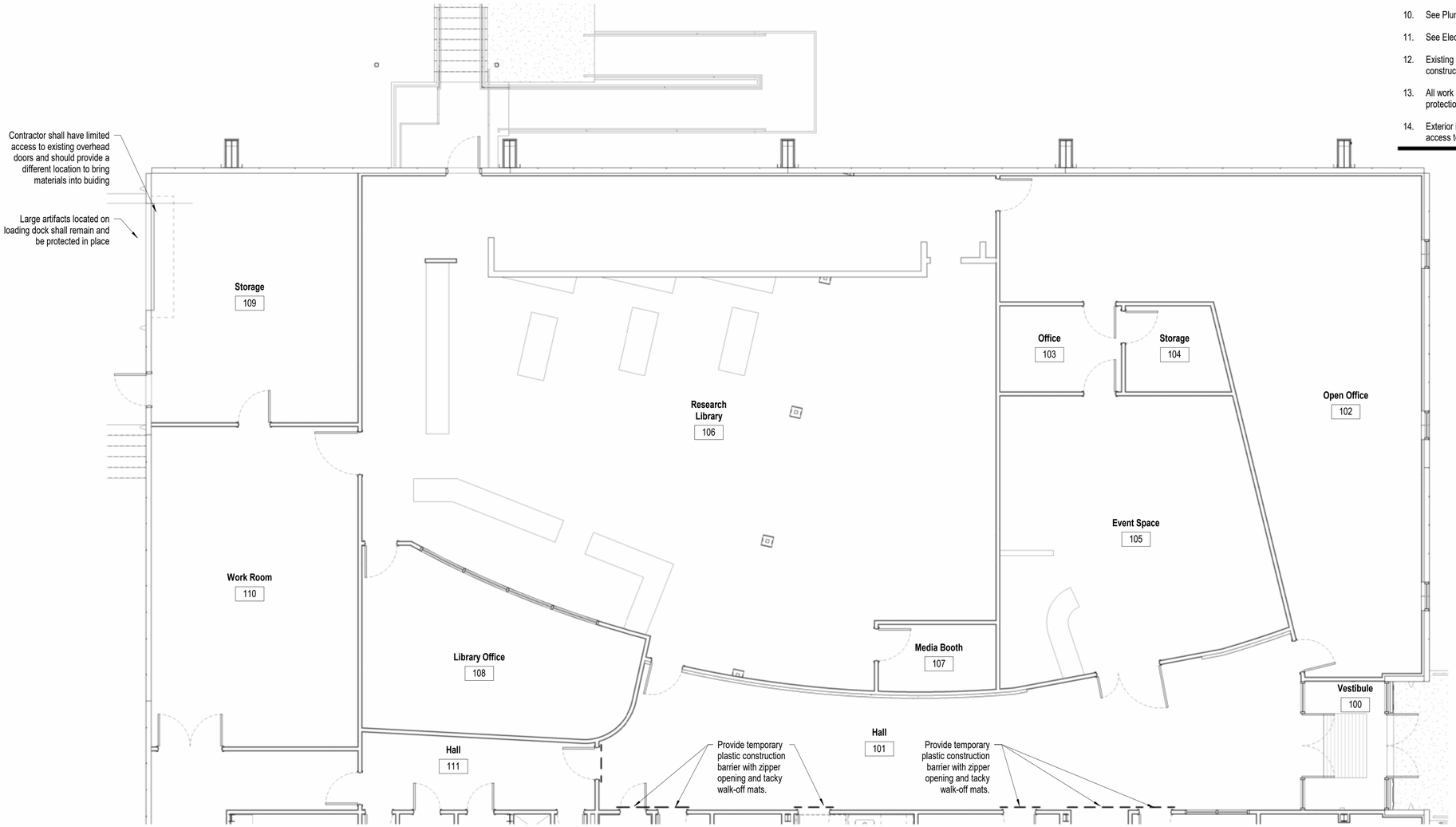
drawing name

Phase 2 - Construction Plan

sheet number

G105

Conformed Documents



D5 Phase 3 - Construction Plan
3/16" = 1'-0"

North

Phasing Construction Notes

1. The Contractor to coordinate phasing operations, schedule and sequencing with SPWD Project Managers and Nevada Historical Society Manager.
2. Contractor shall coordinate with the Nevada Historical Society Director for all access/escorts of all trades to any part of the building at any time of Work. Public will not be in building during the entire construction duration. However, staff will be working entire time.
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7. See Project Manual and Specifications for additional information and requirements.
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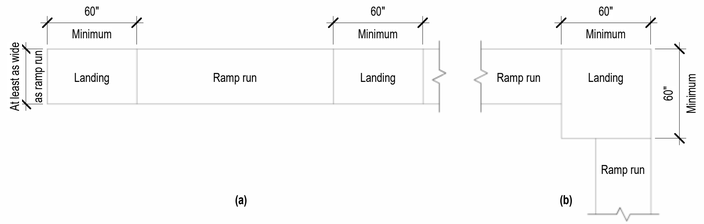
drawing name

Phase 3 - Construction Plan

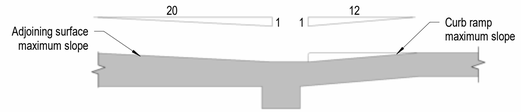
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G106

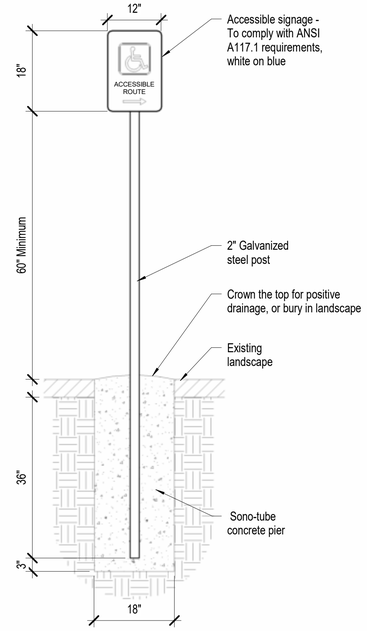
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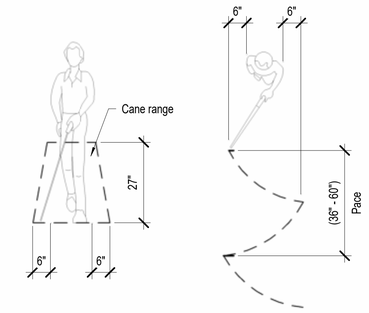
A5 Ramp Landings - 405.7
1/4" = 1'-0"



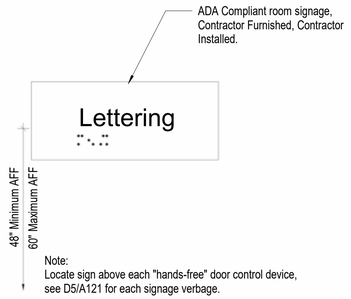
A3 Counter Slope of Surfaces Adjacent to Curb Ramps
1 1/2" = 1'-0"



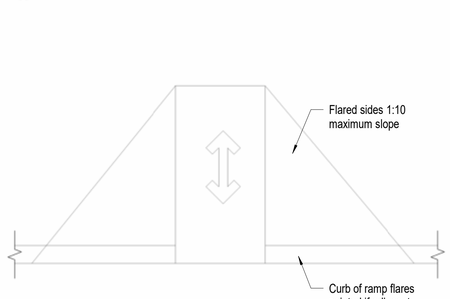
B1 Accessible Parking Signage
3/4" = 1'-0"



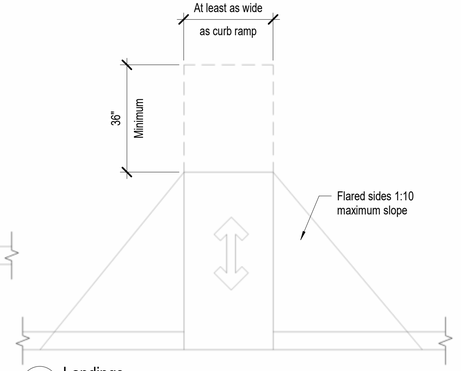
B5 Cane Technique
1/2" = 1'-0"



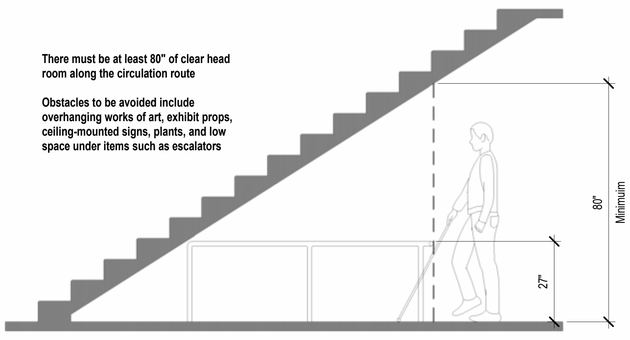
B4 Accessible Signage Detail
3" = 1'-0"



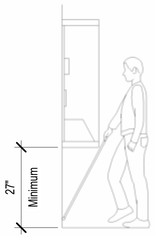
B3 Sides of Curb Ramps
1/2" = 1'-0"



B2 Landings
1/2" = 1'-0"

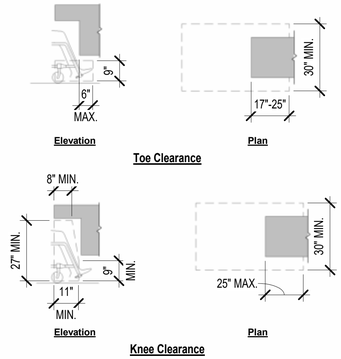


C5 Figure 307.4 - Reduced Vertical Clearance
1/2" = 1'-0"

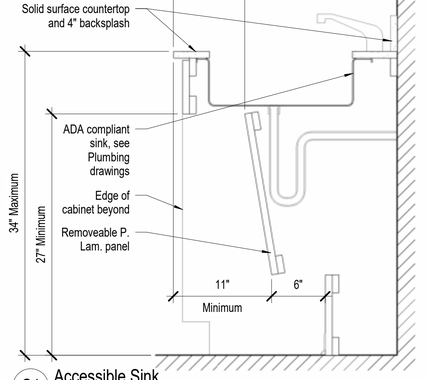


Wall-hung objects with bottom edges below 27" alert cane users to their presence

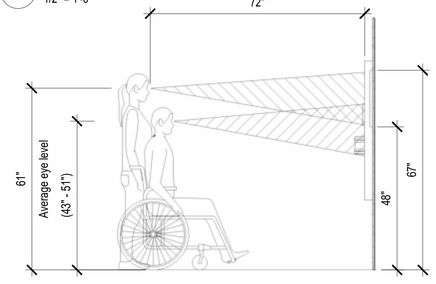
C3 Cane Detection of Wall-Hung Case
1/2" = 1'-0"



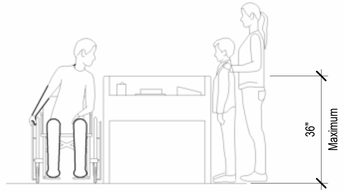
C2 Knee and Toe Clearance
3/8" = 1'-0"



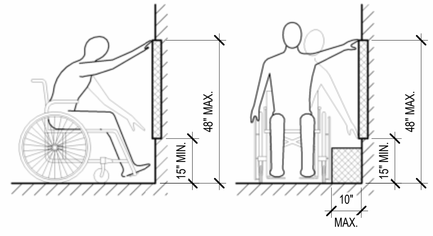
C1 Accessible Sink
1 1/2" = 1'-0"



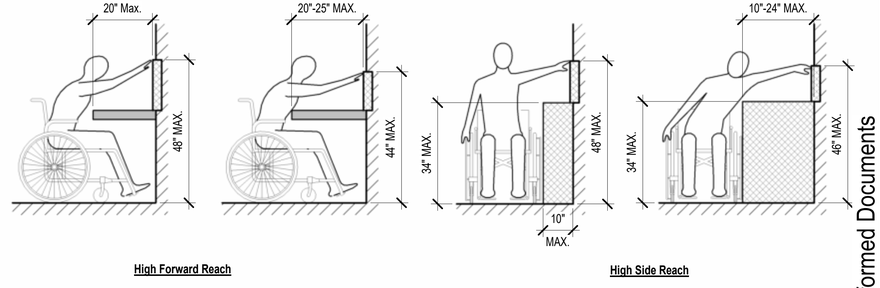
D5 Average Viewing Sightlines
1/2" = 1'-0"



D4 Accessible Height of Table Case
1/2" = 1'-0"



D3 Unobstructed Reach Range
1/2" = 1'-0"



D2 Obstructed Reach Range
1/2" = 1'-0"

Conformed Documents

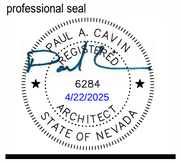
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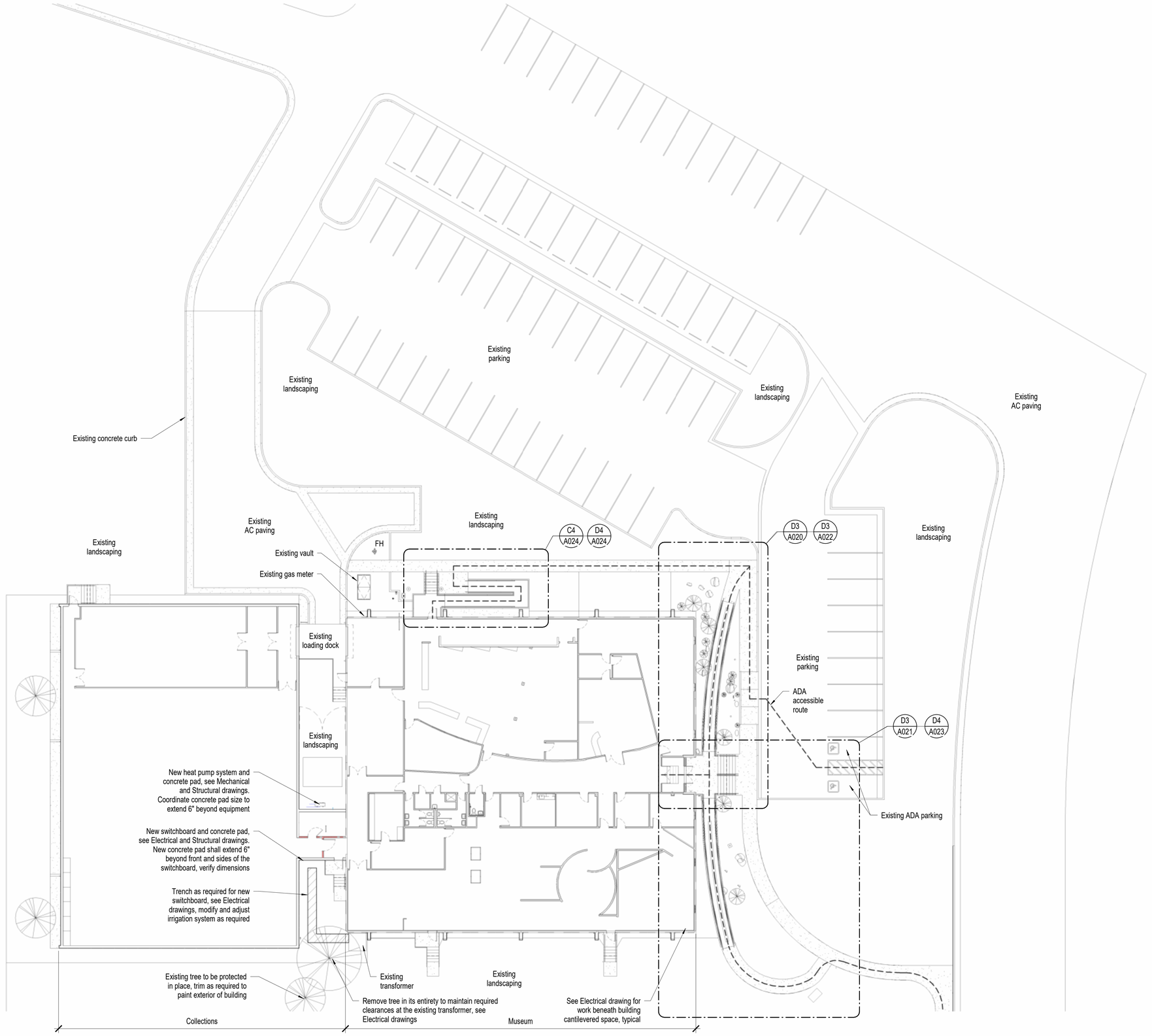
drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

drawing name

Accessibility Details

sheet number

G107



D5 Architectural Site Plan
1/16" = 1'-0"

Site Plan Notes

1. Coordinate construction operations, schedule, and sequencing with SPWD Project Managers, UNR Facilities Maintenance Services, and Nevada Historical Society.
2. See the Project Manual and Specifications for additional information and requirements.
3. See Structural Drawings and Specifications for additional information and requirements.
4. See Mechanical Drawings and Specifications for additional information and requirements.
5. See Plumbing Drawings and Specifications for additional information and requirements.
6. See Electrical Drawings and Specifications for additional information and requirements.
7. Contractor is responsible for safety and security of the Contractor parking and staging area. Temporary fencing is recommended for securing construction materials, vehicles, equipment, etc. at the staging area.
8. The Contractor parking and staging area must maintain a clear path for emergency vehicles to circulate around the building at all times.
9. At the conclusion of the project the Contractor shall clean the site area and restore to original appearance, including but not limited to replacement of the existing AC paving if damaged beyond original condition.
10. All cross slopes on the accessible route shall be less than 2%, all running slopes shall be 5% maximum.
11. Architect to check form boards prior to pouring concrete to verify slopes meet ADA requirements.
12. All exterior work is not dependent on any interior phasing. However, contractor shall coordinate access into the building during each of the ramp/stair demolition and construction work.

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drawing name

Architectural Site Plan

sheet number

A001

Conformed Documents



A5 Existing Condition
12" = 1'-0"



A4 Photo of Existing Site
12" = 1'-0"



B5 Existing Condition
12" = 1'-0"



B4 Photo of Existing Site
12" = 1'-0"



C5 Existing Condition
12" = 1'-0"



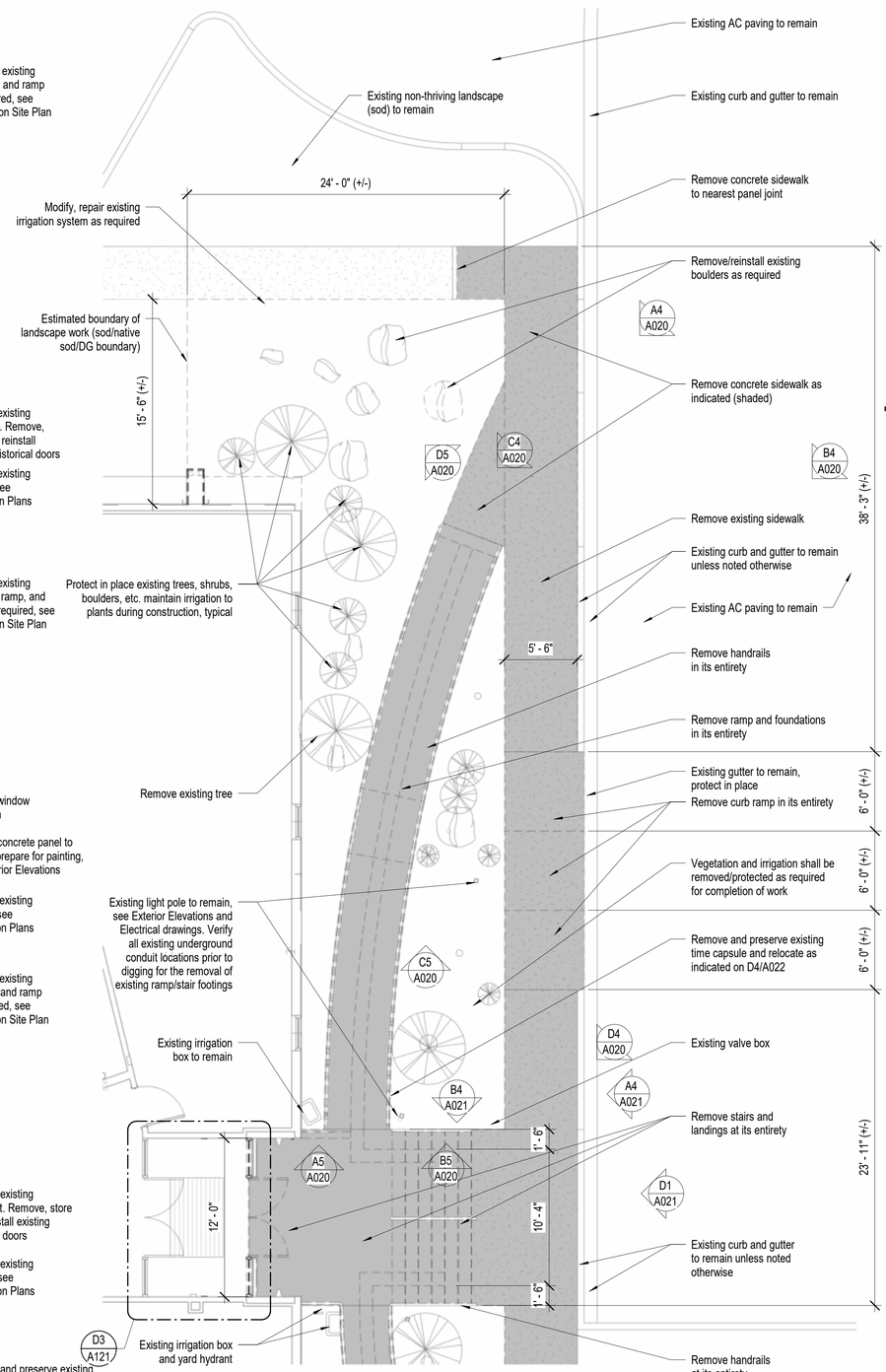
C4 Photo of Existing Site
12" = 1'-0"



D5 Existing Condition
12" = 1'-0"



D4 Photo of Existing Site
12" = 1'-0"



Contractor shall coordinate with Architect and Structural engineer which tree, shrub, plants, rocks, boulders, etc. shall be protected in place or removed/relocated in order to complete scope of work. All tree and plant roots shall be removed in its entirety when vegitation is removed.

D3 Partial Demolition Plan - South Entry Ramp - East End
3/16" = 1'-0"

North

Demolition Site Plan Notes

1. The Contractor to coordinate demolition operations, schedule and sequencing with SPWD Project Managers and Nevada Historical Society.
2. For purposes of Architectural work, all items not shown to be removed or altered on this sheet shall remain in its existing condition. Notify the Architect of any components which vary from those shown on the drawings.
3. The Contractor is to protect adjacent surfaces from damage. The Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent finishes.
4. The Contractor will be responsible for setting the exact limits of demolition required in order to perform the work.
5. Dimensions are from face of finish, unless noted otherwise. Contractor to verify all necessary dimensions in order to execute the Work.
6. See Project Manual and Specifications for additional information and requirements.
7. See Structural drawings and Specifications for additional information and requirements.
8. See Mechanical drawings and Specifications for additional information and requirements.
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10. See Electrical drawings and specifications for additional information and requirements.

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project number	23035

drawing name

Partial Demolition Plan - South Entry Ramp - East End

sheet number

A020

Conformed Documents



A5 Existing Condition
12" = 1'-0"



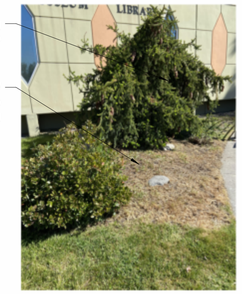
A4 Photo of Existing Site
12" = 1'-0"



B5 Existing Condition
12" = 1'-0"



B4 Photo of Existing Site
12" = 1'-0"



C5 Existing Condition
12" = 1'-0"



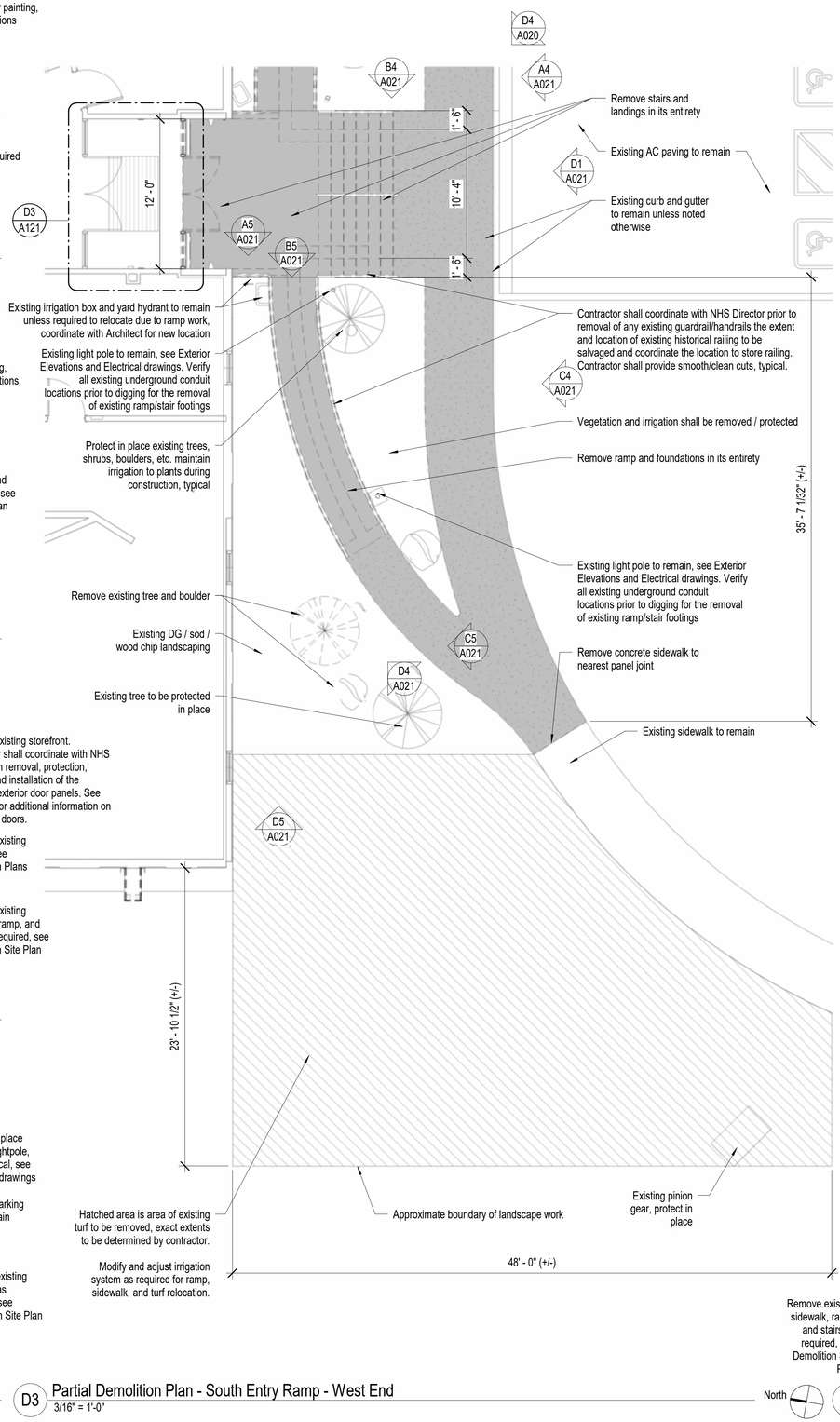
C4 Photo of Existing Site
12" = 1'-0"



D5 Existing Condition
12" = 1'-0"



D4 Photo of Existing Site
12" = 1'-0"



D3 Partial Demolition Plan - South Entry Ramp - West End
3/16" = 1'-0"

North

D1 Photo of Existing Site
12" = 1'-0"

Demolition Site Plan Notes

1. The Contractor to coordinate demolition operations, schedule and sequencing with SPWD Project Managers and Nevada Historical Society.
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4. The Contractor will be responsible for setting the exact limits of demolition required in order to perform the work.
5. Dimensions are from face of finish, unless noted otherwise. Contractor to verify all necessary dimensions in order to execute the Work.
6. See Project Manual and Specifications for additional information and requirements.
7. See Structural drawings and Specifications for additional information and requirements.
8. See Mechanical drawings and Specifications for additional information and requirements.
9. See Plumbing drawings and Specifications for additional information and requirements.
10. See Electrical drawings and specifications for additional information and requirements.

Contractor shall coordinate with Architect and Structural engineer which tree, shrub, plants, rocks, boulders, etc. shall be protected in place or removed/relocated in order to complete scope of work. All tree and plant roots shall be removed in its entirety when vegitation is removed.

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SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades
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Conformed Documents

revisions

No.	Description	Date

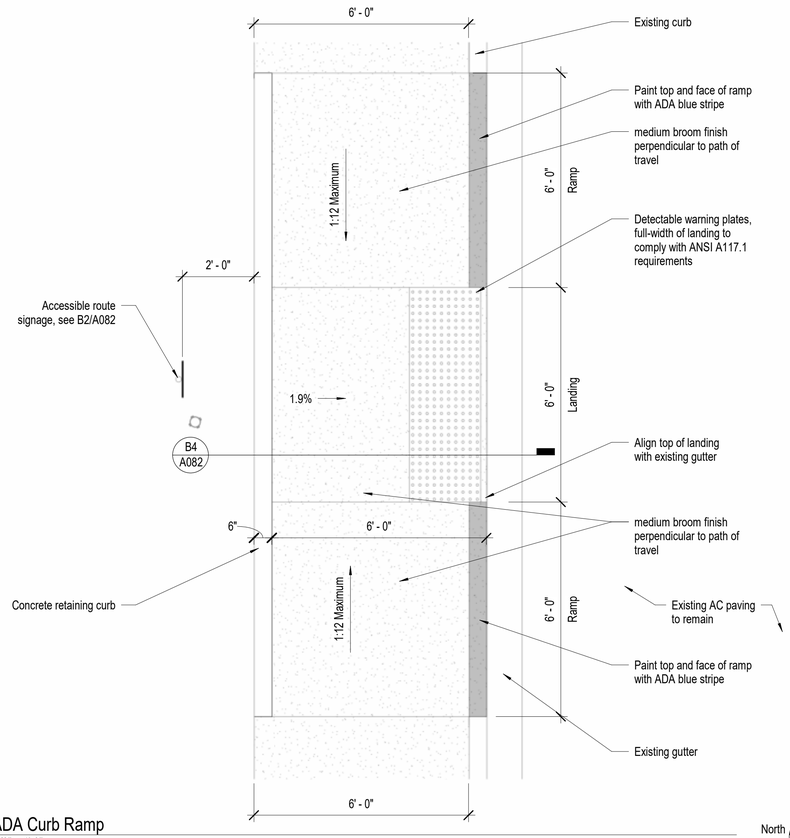
drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

drawing name

Partial Demolition Plan - South Entry Ramp - West End

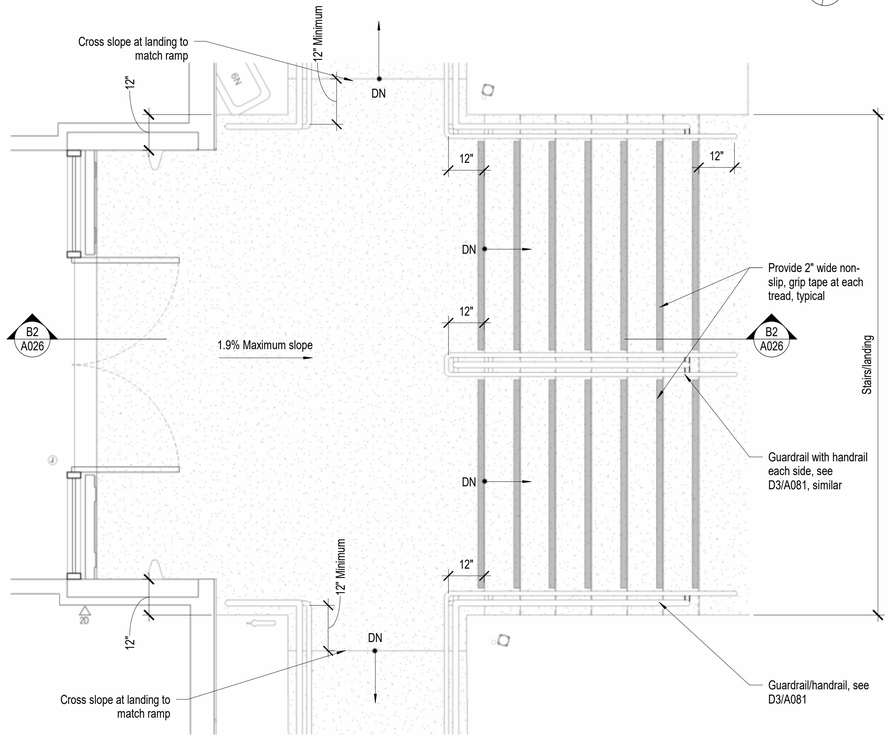
sheet number

A021



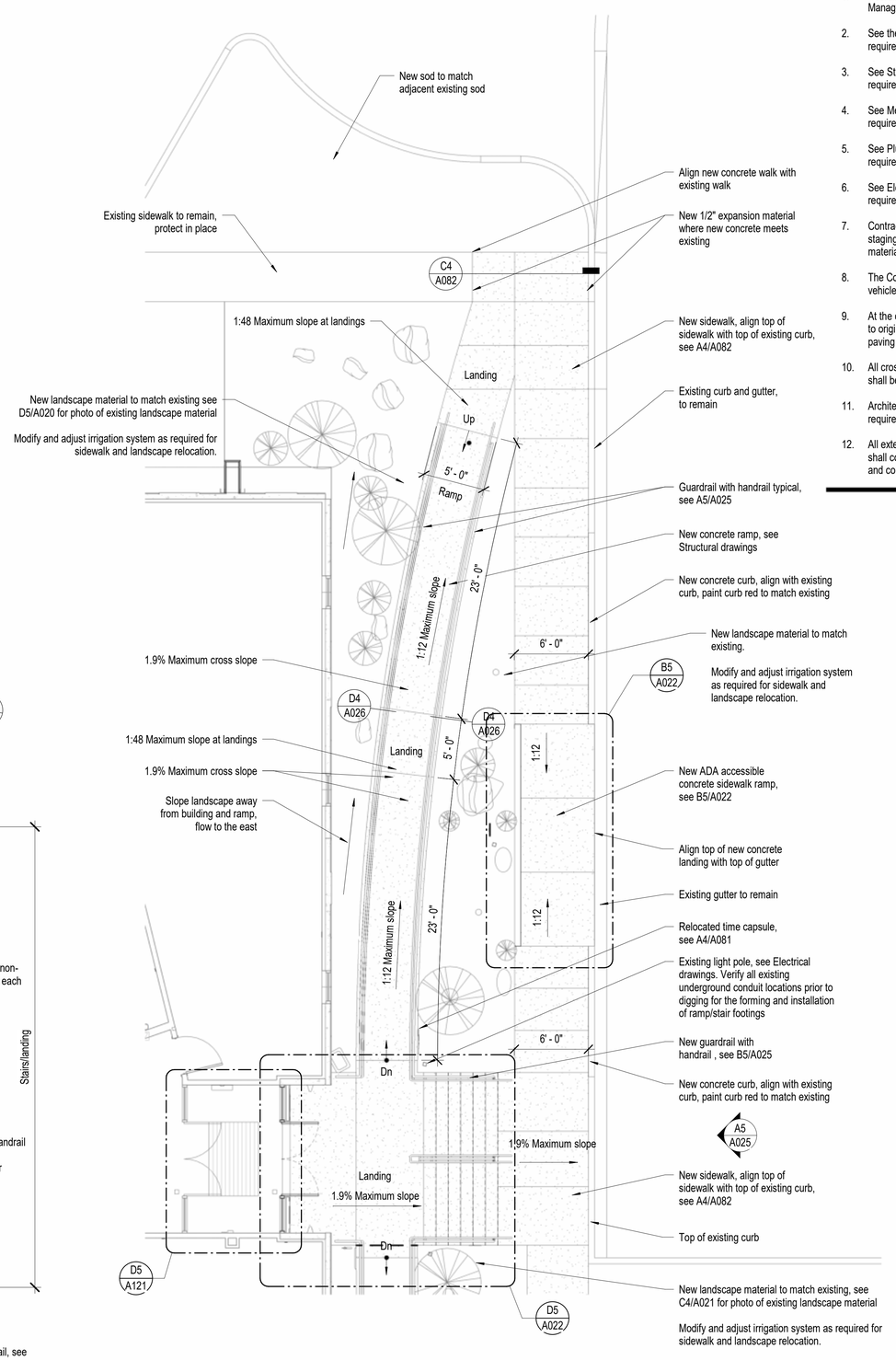
B5 ADA Curb Ramp
1/2" = 1'-0"

North



D5 Enlarged Stair Plan
1/2" = 1'-0"

North



D3 Partial Alteration Plan - South Entry Ramp - East End
3/16" = 1'-0"

North

Site Plan Notes

1. Coordinate construction operations, schedule, and sequencing with SPWD Project Managers, UNR Facilities Maintenance Services, and Nevada Historical Society.
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3. See Structural Drawings and Specifications for additional information and requirements.
4. See Mechanical Drawings and Specifications for additional information and requirements.
5. See Plumbing Drawings and Specifications for additional information and requirements.
6. See Electrical Drawings and Specifications for additional information and requirements.
7. Contractor is responsible for safety and security of the Contractor parking and staging area. Temporary fencing is recommended for securing construction materials, vehicles, equipment, etc. at the staging area.
8. The Contractor parking and staging area must maintain a clear path for emergency vehicles to circulate around the building at all times.
9. At the conclusion of the project the Contractor shall clean the site area and restore to original appearance, including but not limited to replacement of the existing AC paving if damaged beyond original condition.
10. All cross slopes on the accessible route shall be less than 2%, all running slopes shall be 5% maximum.
11. Architect to check form boards prior to pouring concrete to verify slopes meet ADA requirements.
12. All exterior work is not dependent on any interior phasing. However, contractor shall coordinate access into the building during each of the ramp/stair demolition and construction work.

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drawn by	JAP
reviewed by	PAC
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project number	23035

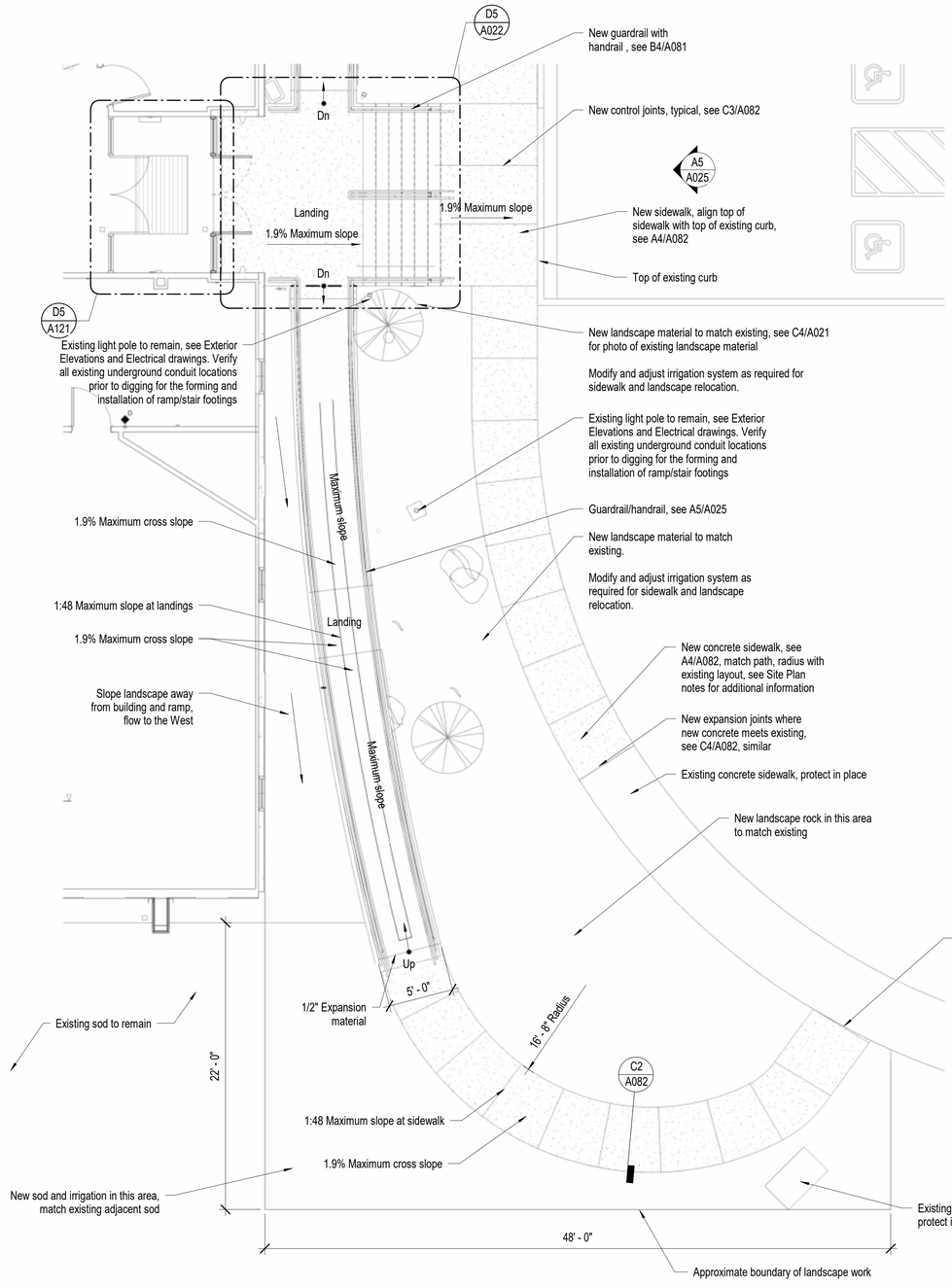
drawing name

Partial Alteration Plan - South Entry Ramp - East End

sheet number

A022

Conformed Documents



D4 Partial Alteration Plan - South Entry Ramp - West End
3/16" = 1'-0"

North

Site Plan Notes

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drawing name

Partial Alteration Plan - South Entry Ramp - West End

sheet number

A023

Conformed Documents



A5 Existing Condition
12" = 1'-0"



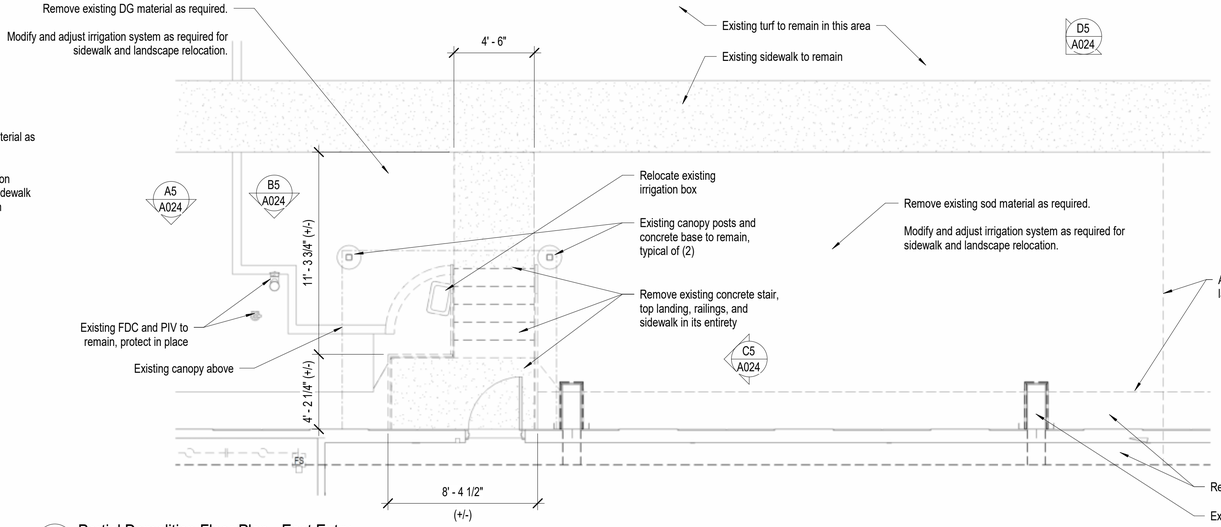
B5 Existing Condition
12" = 1'-0"



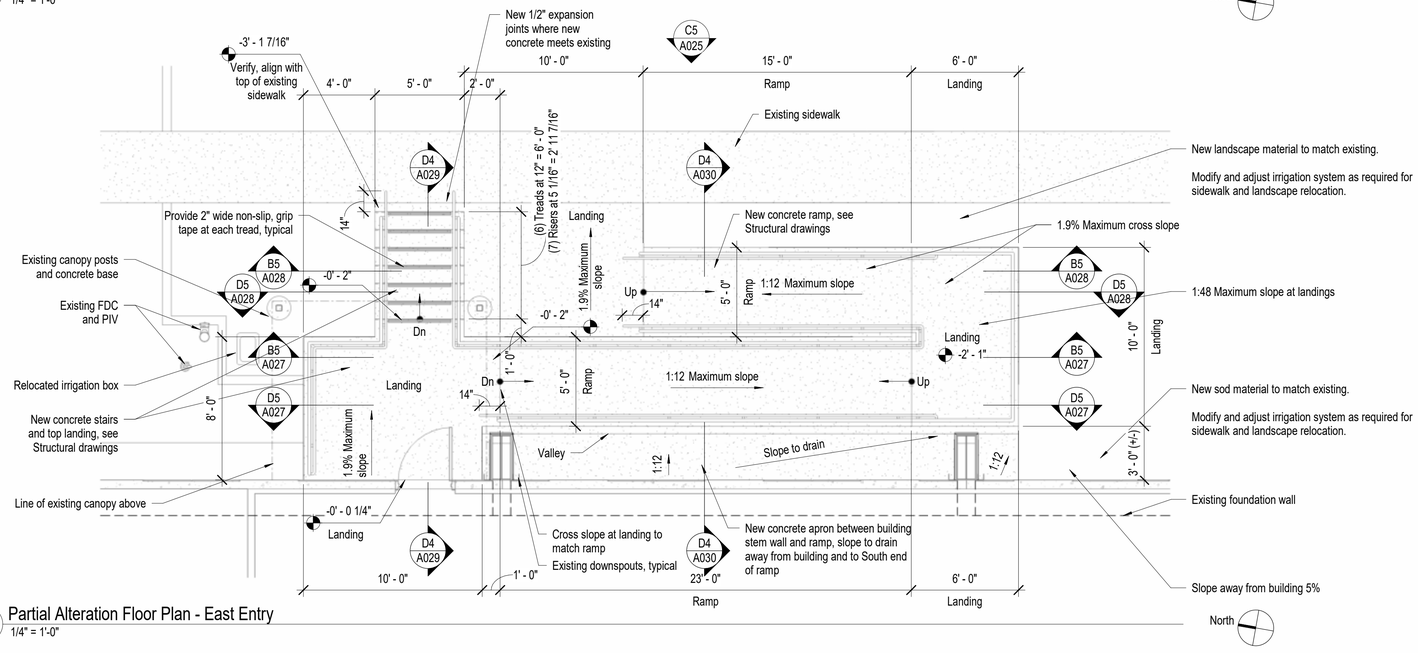
C5 Existing Condition
12" = 1'-0"



D5 Existing Condition
12" = 1'-0"



C4 Partial Demolition Floor Plan - East Entry
1/4" = 1'-0"



D4 Partial Alteration Floor Plan - East Entry
1/4" = 1'-0"

Demolition Site Plan Notes

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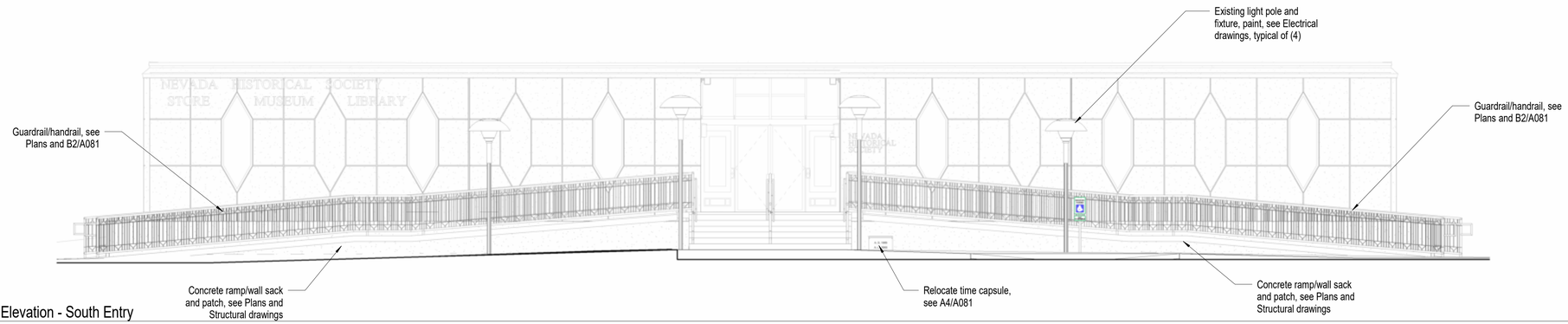
drawing name

Partial Stair and Ramp Plans - East Entry

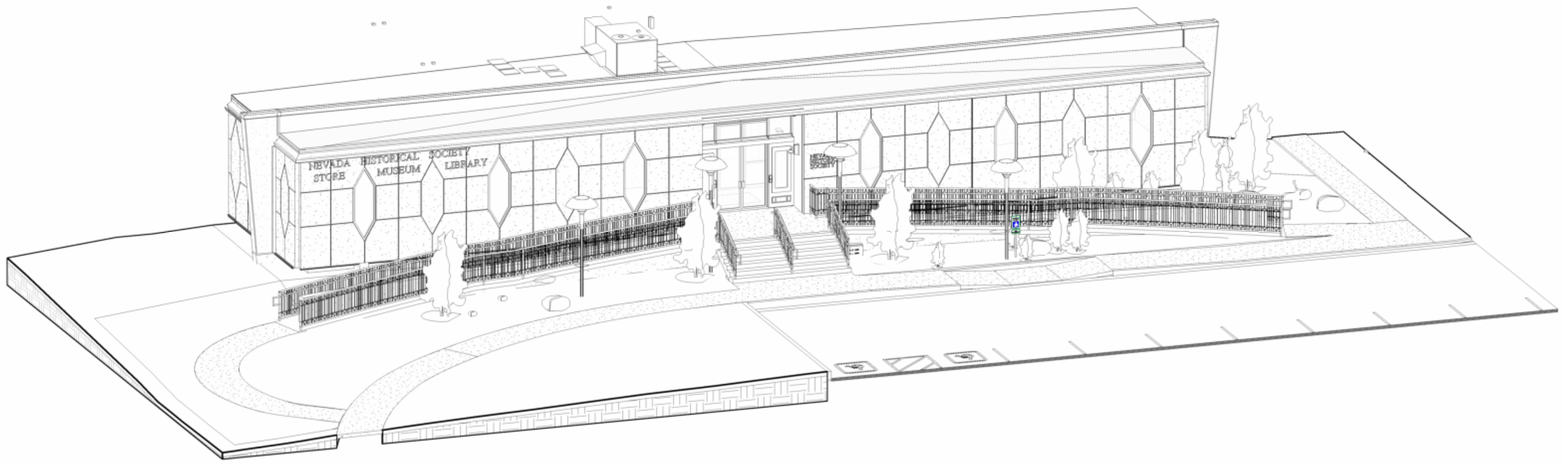
sheet number

A024

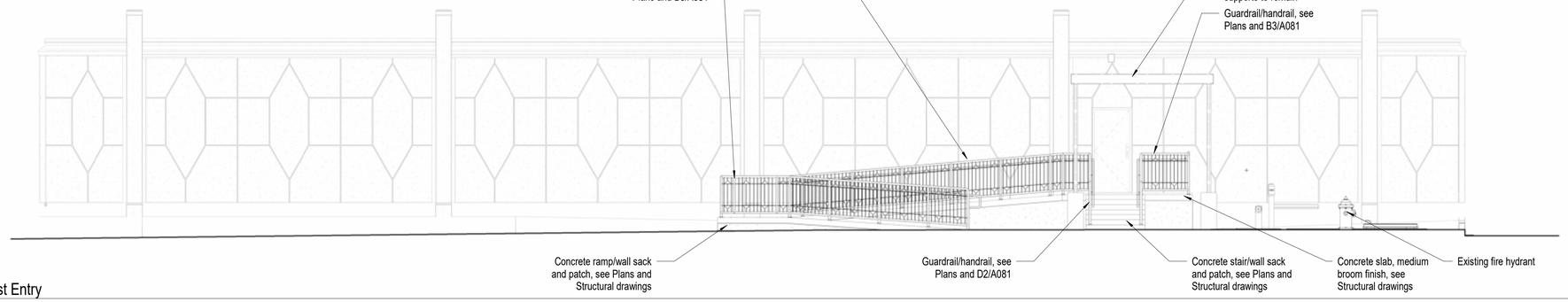
Conformed Documents



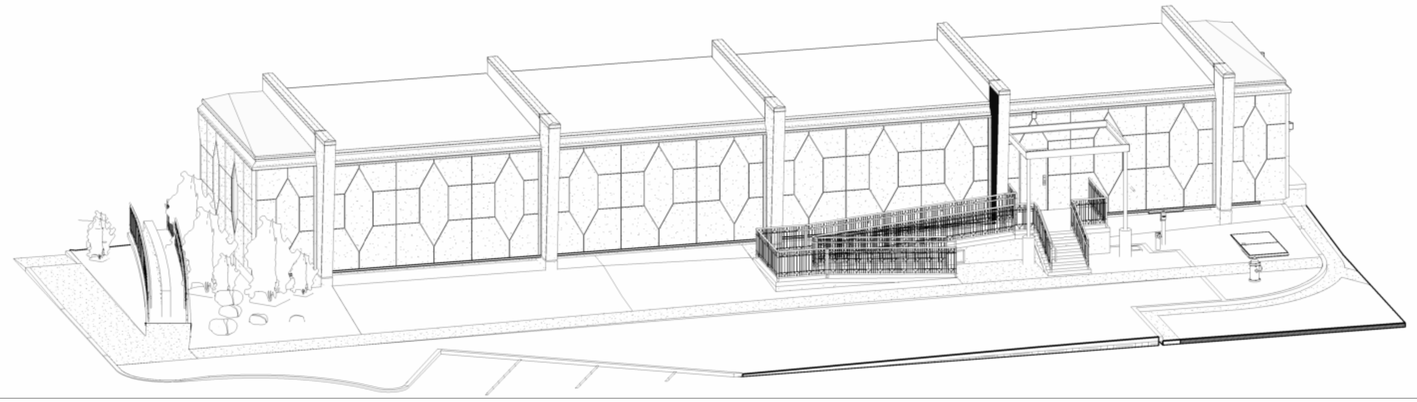
A5 Ramp/Stair Elevation - South Entry
3/16" = 1'-0"



B5 Ramp/Stair Isometric View - South Entry



C5 Ramp/Stair Elevation - East Entry
3/16" = 1'-0"



D5 Ramp/Stair Isometric View - East Entry

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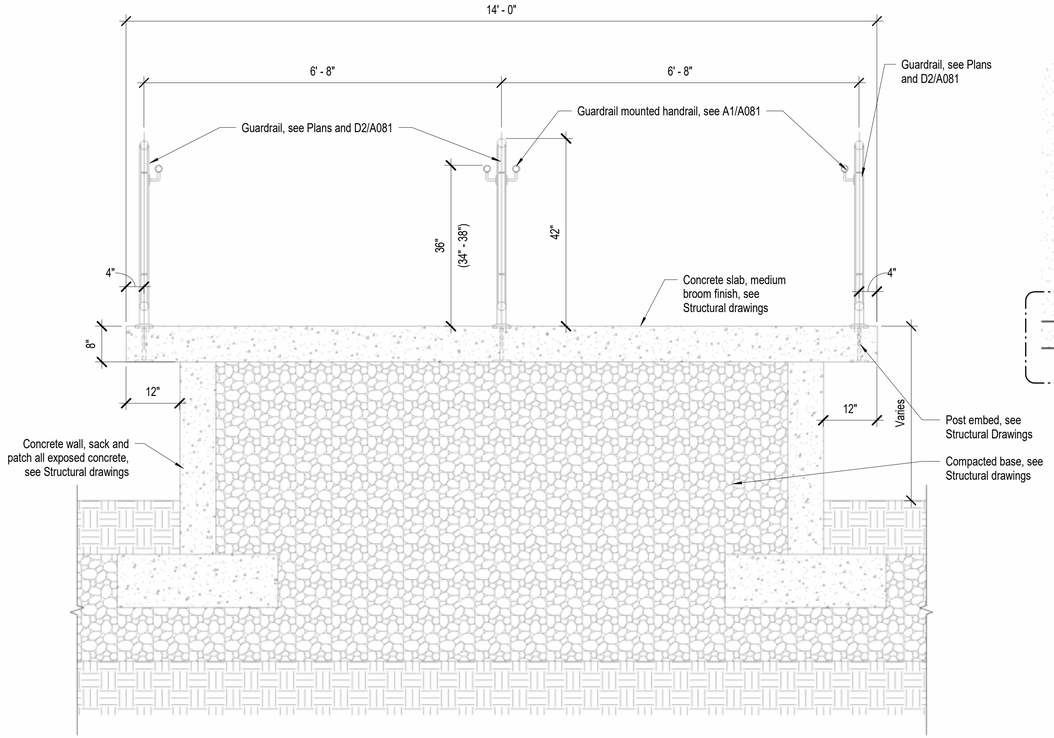
drawing name

Ramp/Stairs Elevations and Perspectives

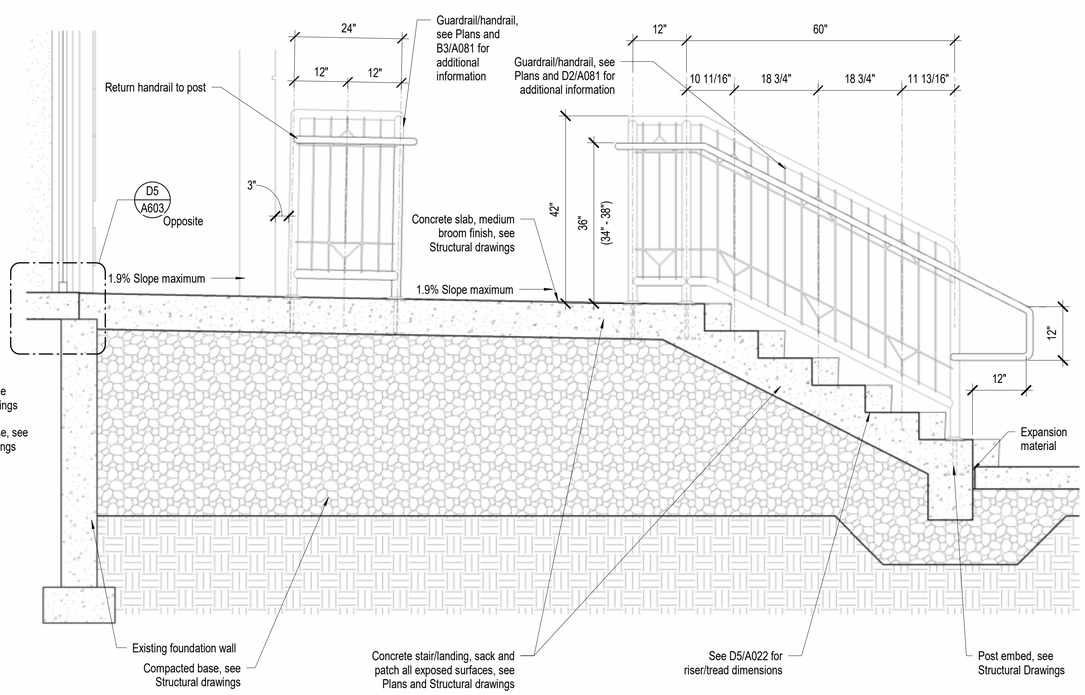
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A025

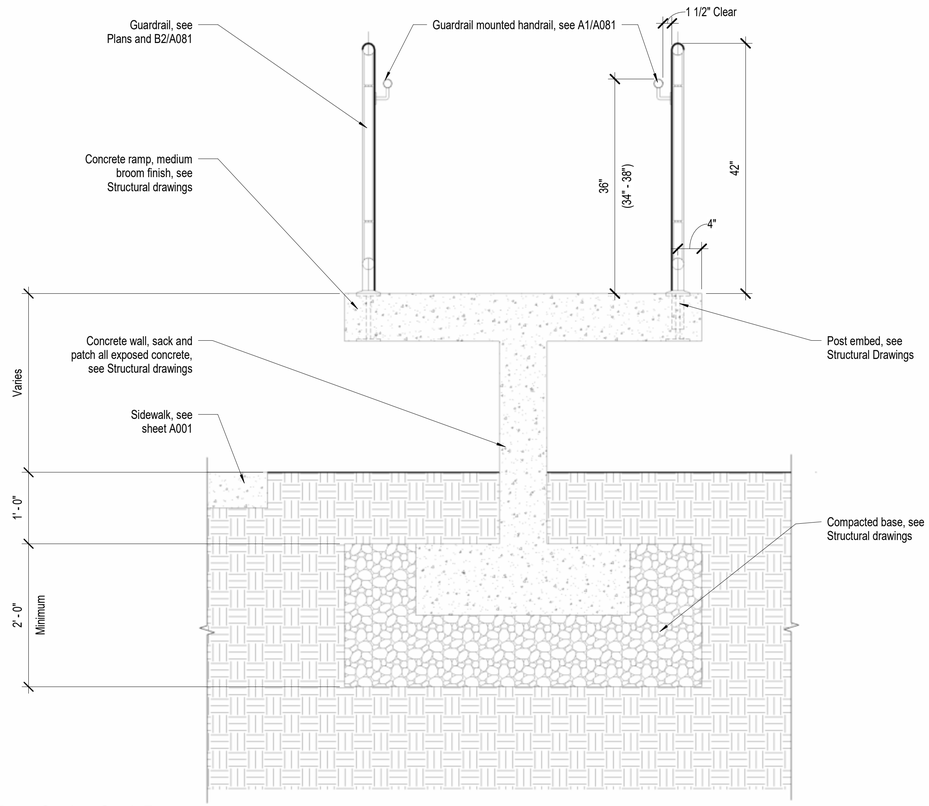
Conformed Documents



B5 Stair Section - South Entry
3/4" = 1'-0"



B2 Stair Section - South Entry
3/4" = 1'-0"



D4 ADA Accessible Ramp Section -South Entry
1" = 1'-0"

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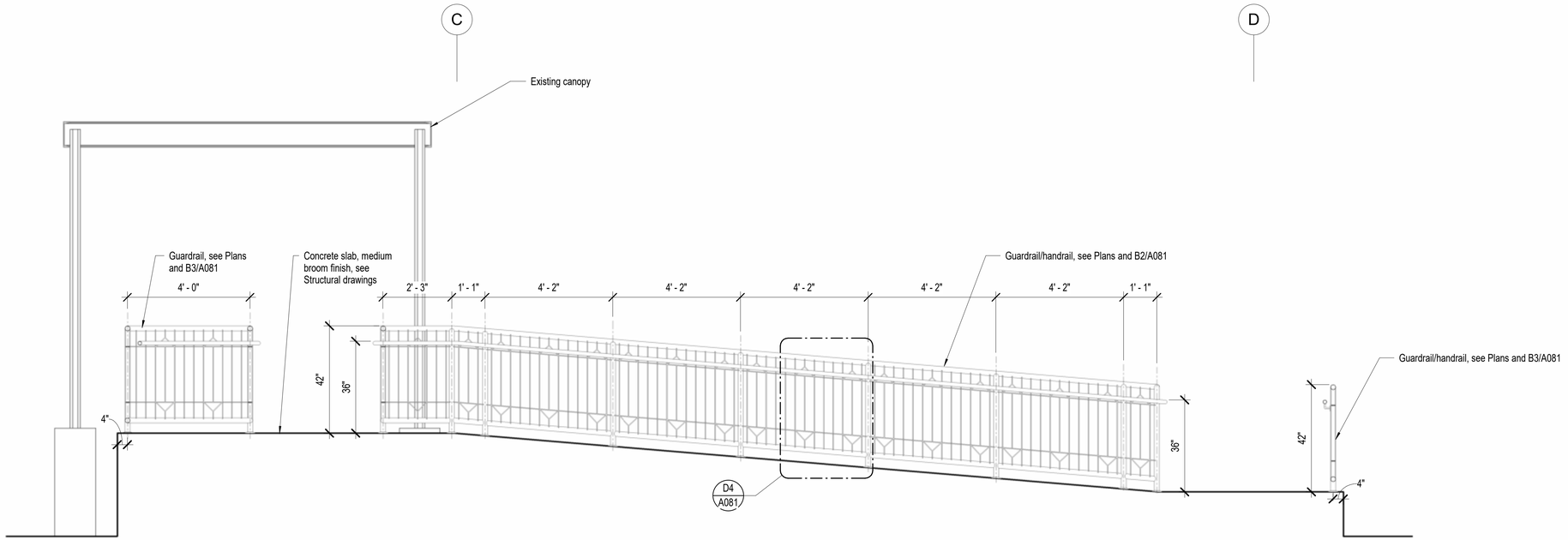
drawing name

Ramp/Stairs Sections - South Entry

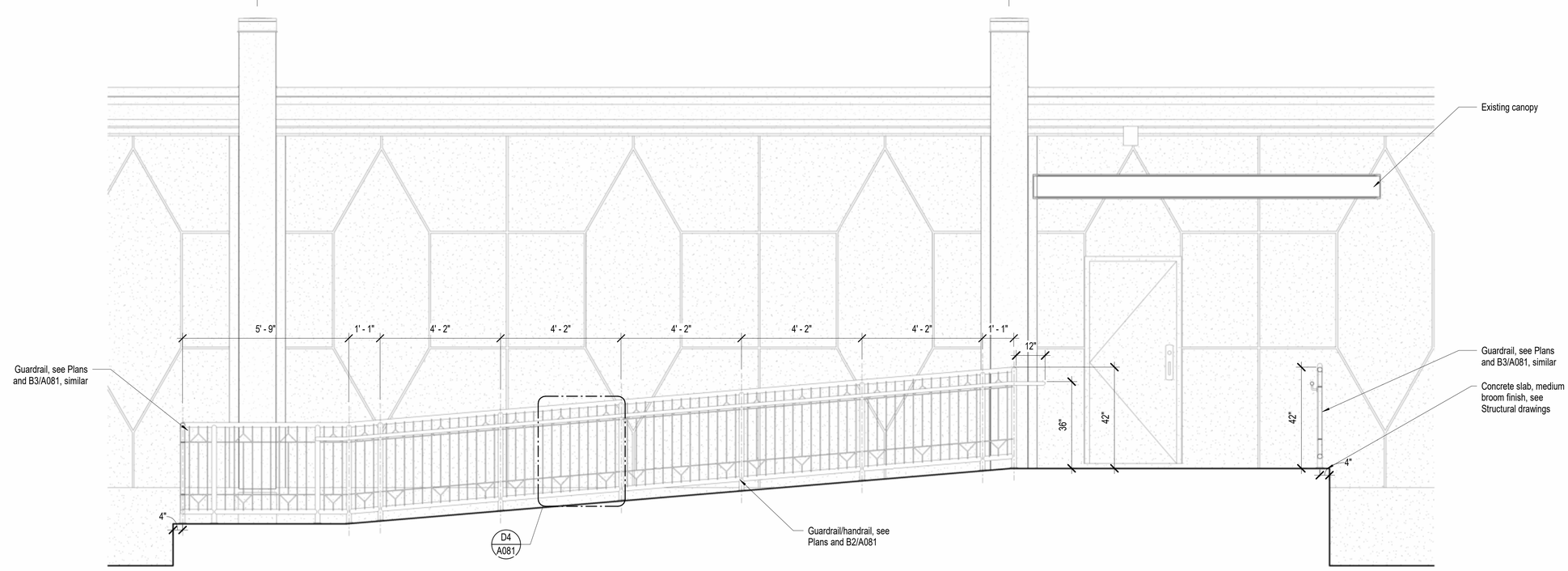
sheet number

A026

Conformed Documents



B5 ADA Accessible Ramp - Railing Elevation - East Entry - Looking East
1/2" = 1'-0"



D5 ADA Accessible Ramp - Railing Elevation - East Entry - Looking West
1/2" = 1'-0"

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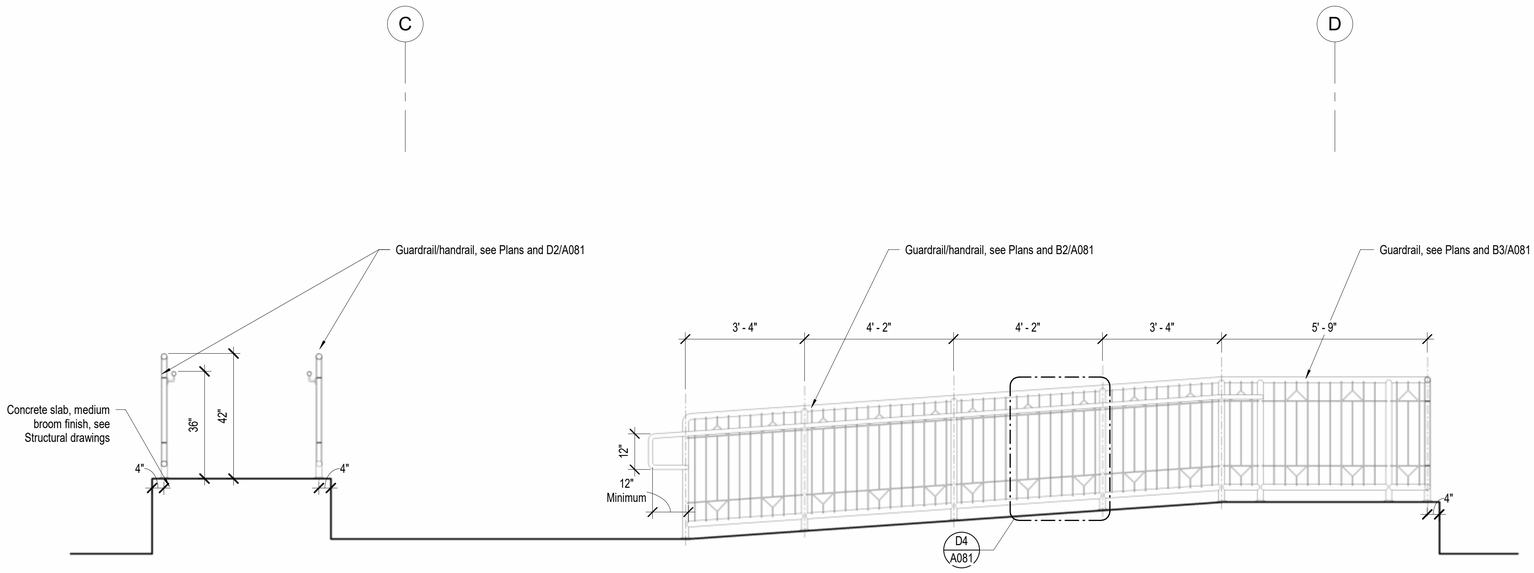
drawing name

Ramp/Stairs Railing Elevations - East Entry

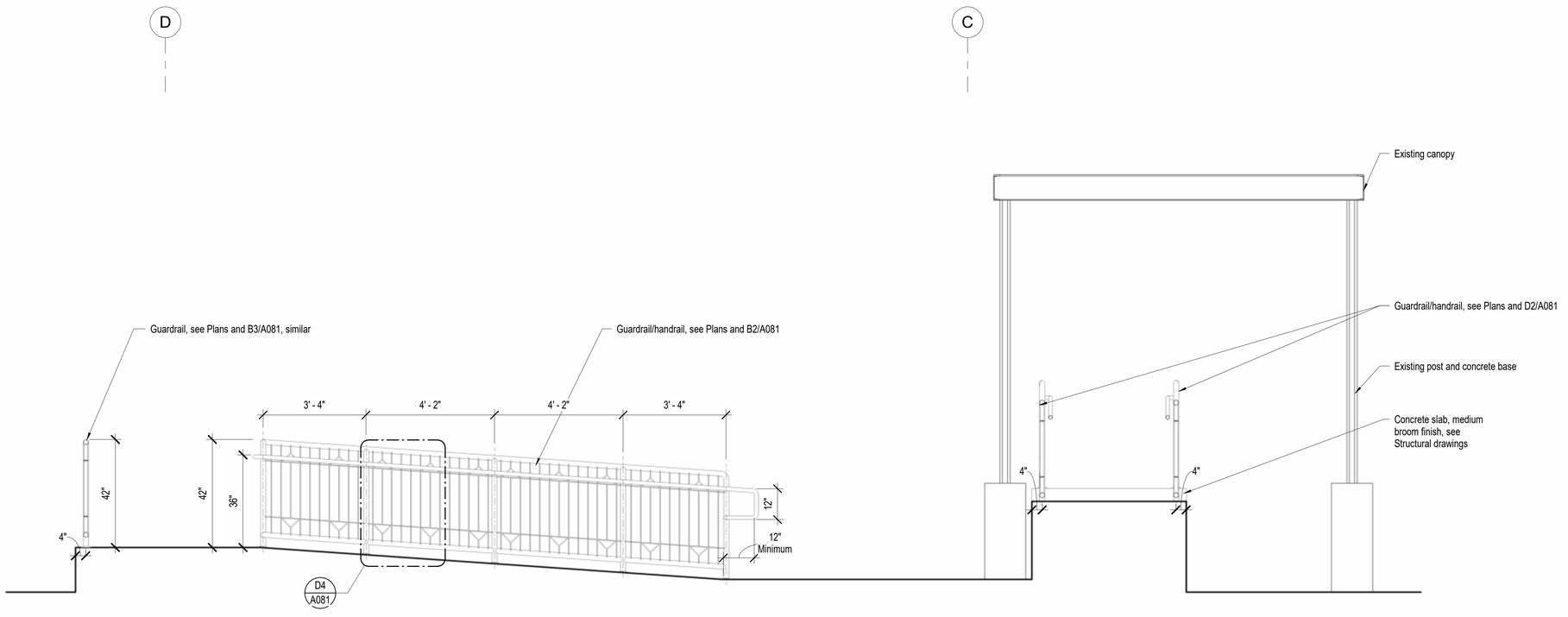
sheet number

A027

Conformed Documents



B5 ADA Accessible Ramp - Railing Elevation - East Entry - Looking East
1/2" = 1'-0"



D5 ADA Accessible Ramp - Railing Elevation - East Entry - Looking West
1/2" = 1'-0"

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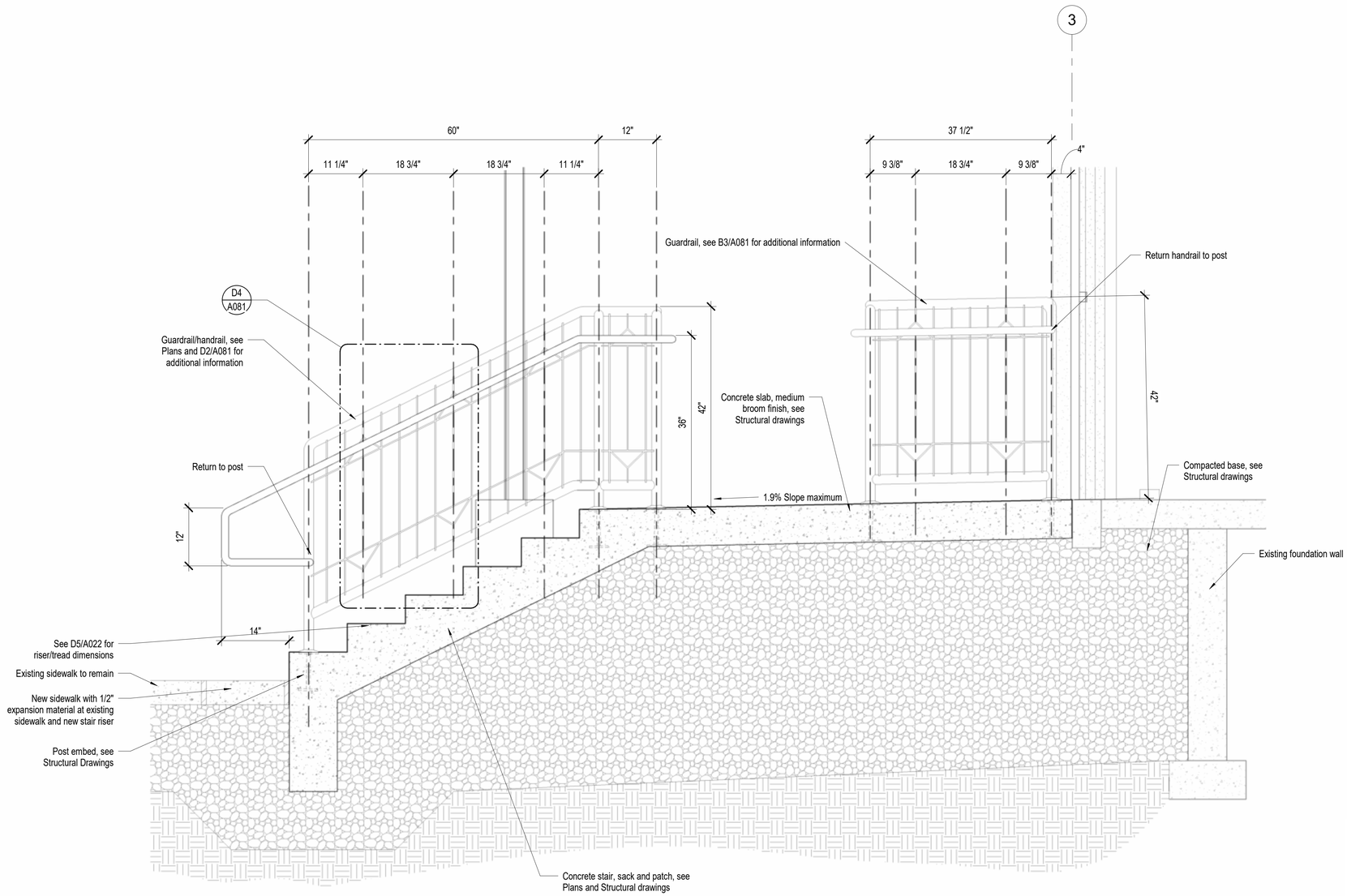
drawing name

Ramp/Stairs Railing Elevations - East Entry

sheet number

A028

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D4 Stair Section - East Entry
1" = 1'-0"

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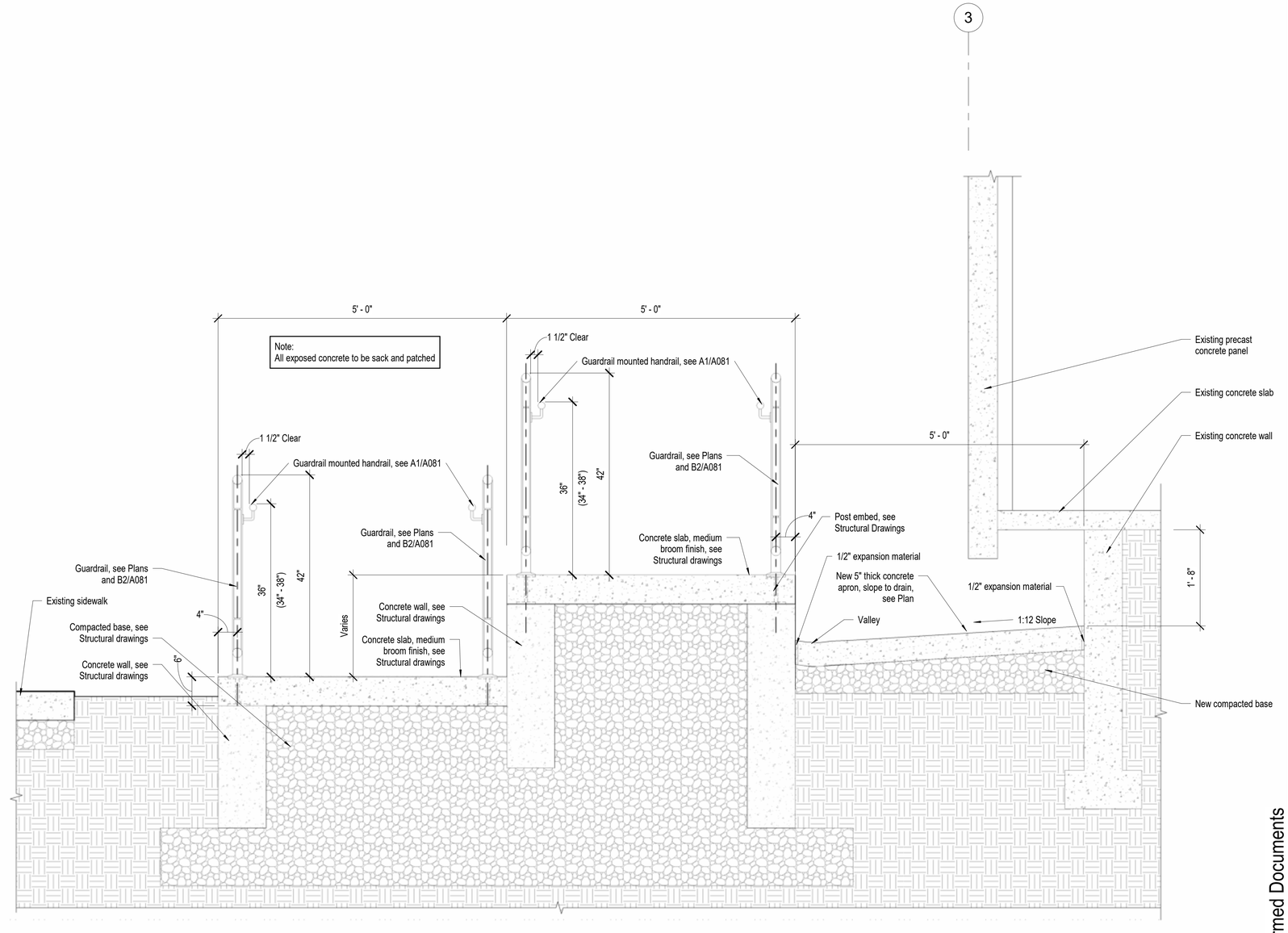
drawing name

Ramp/Stairs Sections - East Entry

sheet number

A029

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D4 Ramp Section - East Entry
1" = 1'-0"

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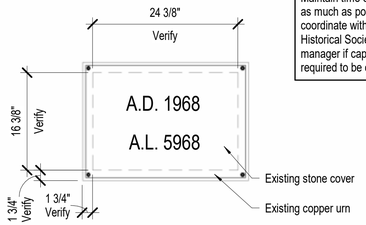
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Ramp/Stairs Sections - East Entry

sheet number

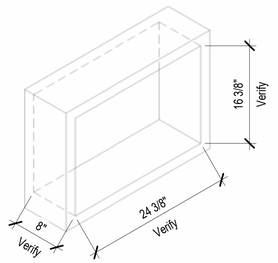
A030

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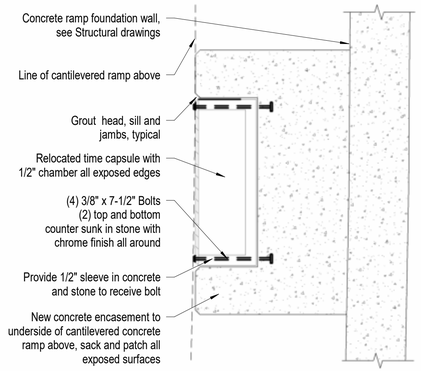
Existing Stone Cover and Copper Urn Elevation

Maintain time capsule seal as much as possible, coordinate with Nevada Historical Society project manager if capsule is required to be opened.



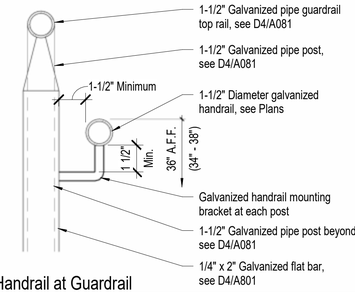
Existing Copper Urn Dimensions

Existing Copper Urn and Stone Cover:
Existing urn was fabricated of 16 of soft copper. All joints to be verified to maintain water and weather tight at all edges, repair as required. Use no acid solder. Stone cover to remain over urn during all phases of relocation.

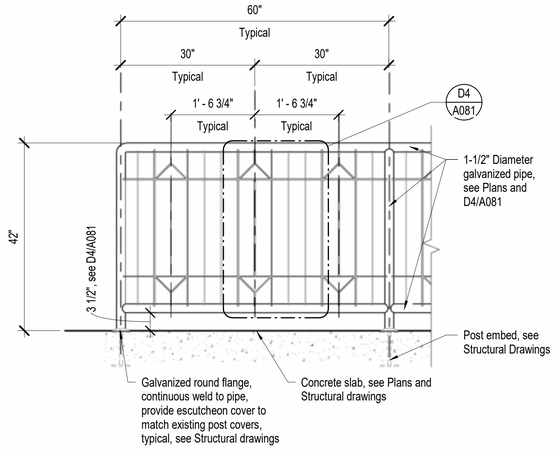


A4 Enclosure for Relocated Time Capsule
1" = 1'-0"

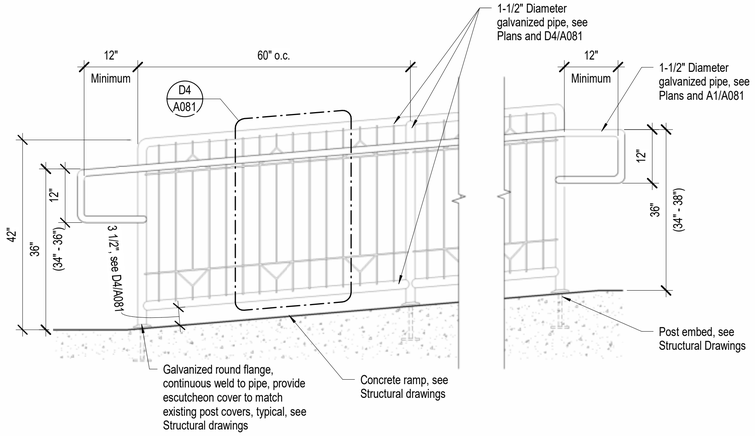
Note:
At top and bottom of stair, the handrail shall extend horizontally above the landing for 12" minimum, see plan drawings. Extensions shall return to the wall, guard or the landing surface



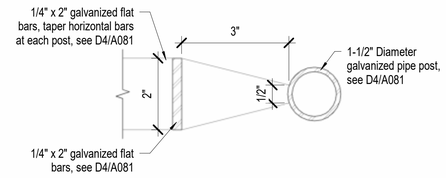
A1 Handrail at Guardrail
3" = 1'-0"



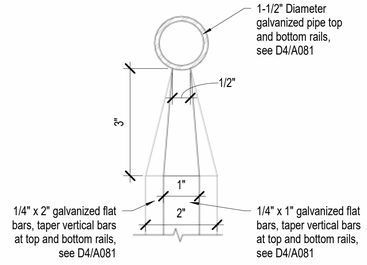
B3 Guardrail at Top Landing
3/4" = 1'-0"



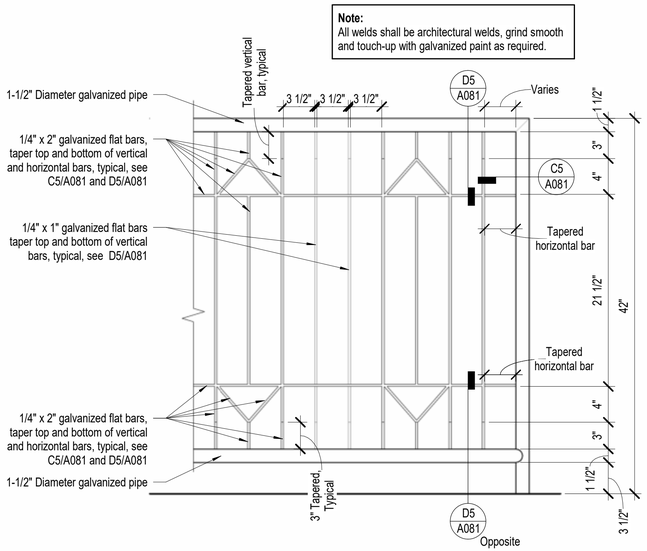
B2 Guardrail at ADA Ramp
3/4" = 1'-0"



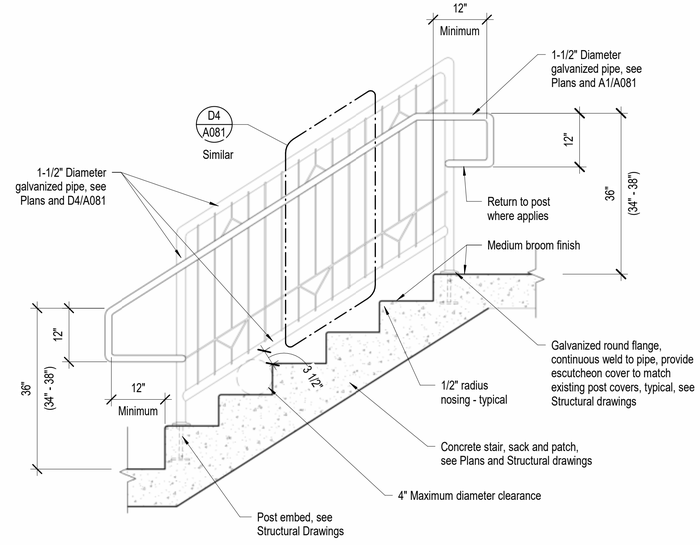
C5 Tapered Horizontal Bar Detail
6" = 1'-0"



D5 Tapered Vertical Bar Detail
6" = 1'-0"



D4 Typical Guardrail Pattern
1 1/2" = 1'-0"



D2 Handrail at Exterior Stair
3/4" = 1'-0"

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SPWD #23-S02-(2): ADA Upgrades
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Reno, Nevada 89503

revisions

No.	Description	Date

drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

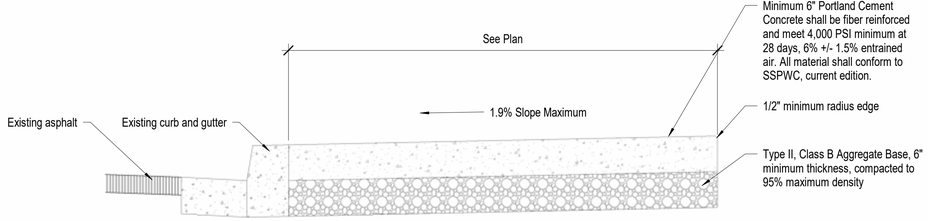
drawing name

Site Details

sheet number

A081

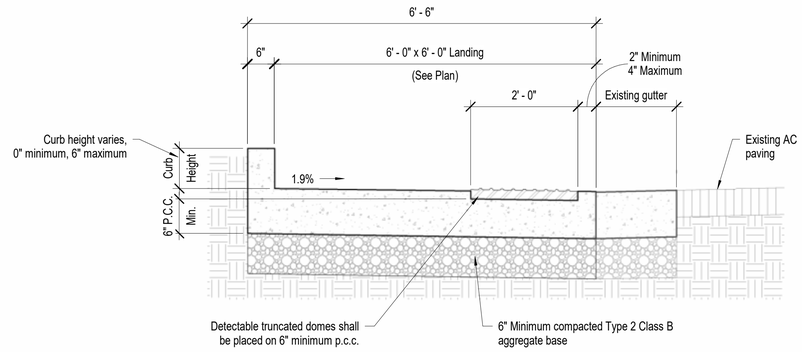
Conformed Documents



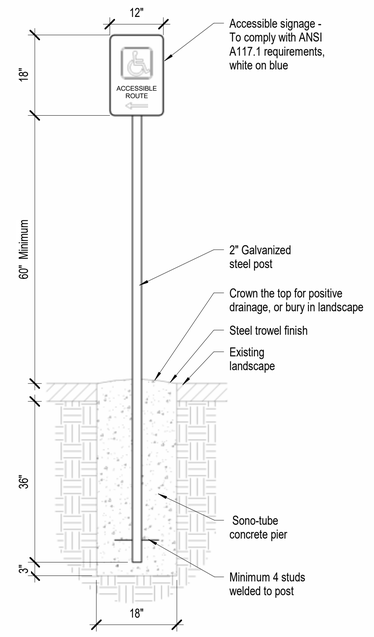
Notes:

1. Fiber-reinforced Portland Cement Concrete (P.C.C.) shall have the following characteristics: 4,000 PSI min. compressive strength at 28 days, min. 6 sacks of cement per cubic yard with max. water-cement ratio of 0.45, air entrainment 6% +/- 1.5%, slump at 1 to 4 inches. Mix design shall conform to the requirements of section 337 of standard specifications of public works construction (SSPWC). Cement shall be type II. All cement concrete shall have a coarse aggregate gradation conforming to size No. 67. Polypropylene or cellulose fibers shall be added to the P.C.C. at 1.5 lbs. per cubic yard. All materials shall conform to SSPWC.
2. Aggregate base material under sidewalks shall be Type 2, Class B crushed aggregate base. Materials shall conform to SSWPC Section 200.
3. Sidewalk width "W" shall be 4 ft min. on residential streets and 6 ft min. on collector and arterial streets. "W" per plan.
4. Weakened plane joints shall be constructed at 5 ft intervals and accordance with Section 312 of the SSWPC.
5. All adjacent concrete removal shall be to neat saw cut lines at right angles to new sidewalk. Dowel into existing adjacent concrete sidewalk with a minimum of two (2) No. 4 reinforcement bars equally spaced across width "W". Dowels shall penetrate a minimum of 4" into existing concrete.

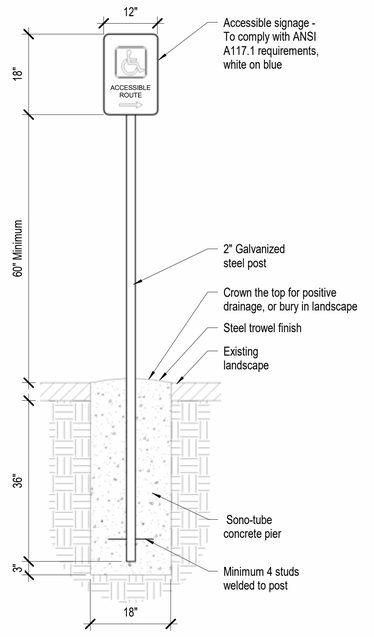
A4 Typical Sidewalk
1" = 1'-0"



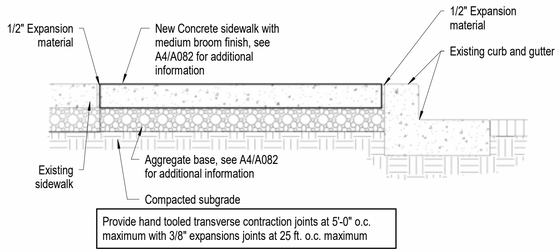
B4 Mid-Block Curb Ramp Section
3/4" = 1'-0"



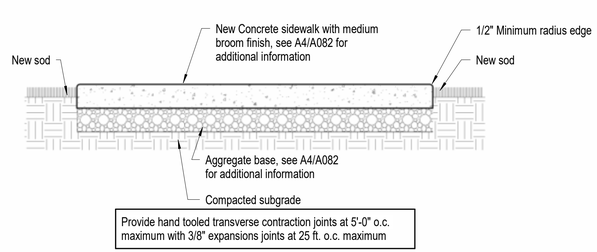
B2 Accessible Route Signage - Left
3/4" = 1'-0"



B1 Accessible Route Signage - Right
3/4" = 1'-0"



C4 Concrete Sidewalk at Existing Sidewalk
1" = 1'-0"



C2 Concrete Sidewalk
1" = 1'-0"

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reviewed by	PAC
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project number	23035

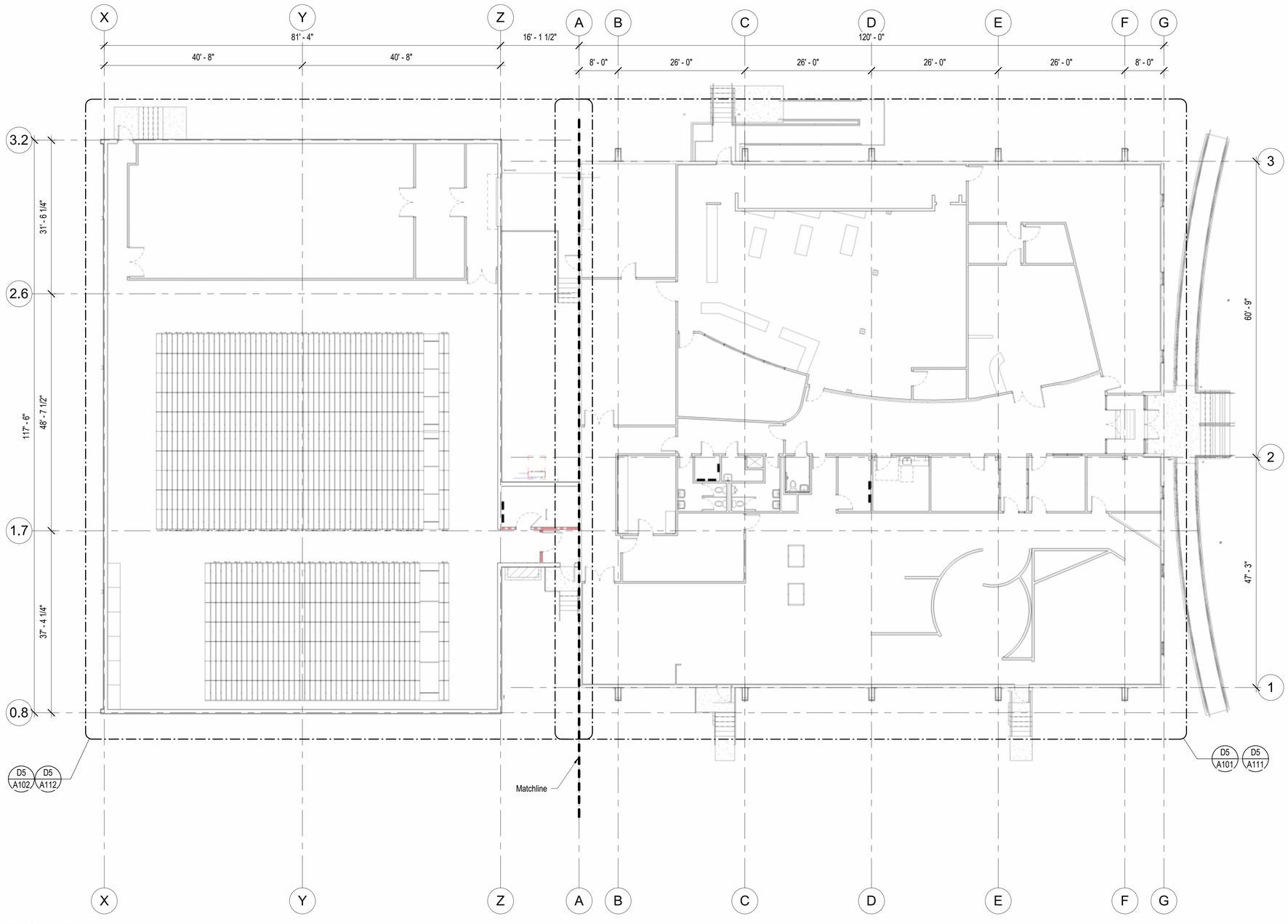
drawing name

Site Details

sheet number

A082

Conformed Documents



D5 Overall Floor Plan
3/32" = 1'-0"

North

Project Floor Plan Notes

1. Coordinate construction operations, schedule and sequencing with SPWD Project Manager and Nevada Historical Society team.
2. The Overall Floor Plan is for reference only. Refer to partial segment plans and detail drawings for additional information. Report and discrepancies found between the drawings and field conditions to the Architect prior to execution of the work.
3. Contractor shall coordinate with the Nevada Historical Society Director for all access/escorts of altrades to any part of the building at any time of work.
4. The Contractor shall be responsible for setting the exact limits of demolition required in order to perform the work.
5. The Contractor shall maintain a clean environment during all construction operations and shall conduct a final cleaning of entire area of work at the conclusion of the project.
6. The Contractor shall protect surrounding existing areas from construction traffic, cutting and all construction activities. See Demolition Plans for protect-in-place historical items.
7. The Contractor will be responsible for repairing any damage to the surrounding existing areas due to construction activities related to the project.
8. See Project Manual for additional information and requirements.
9. See Structural drawings and Specifications for any additional information and requirements.
10. See Mechanical drawings and Specifications for any additional information and requirements.
11. See Plumbing drawings and Specifications for any additional information and requirements.
12. See Electrical drawings and Specifications for any additional information and requirements.

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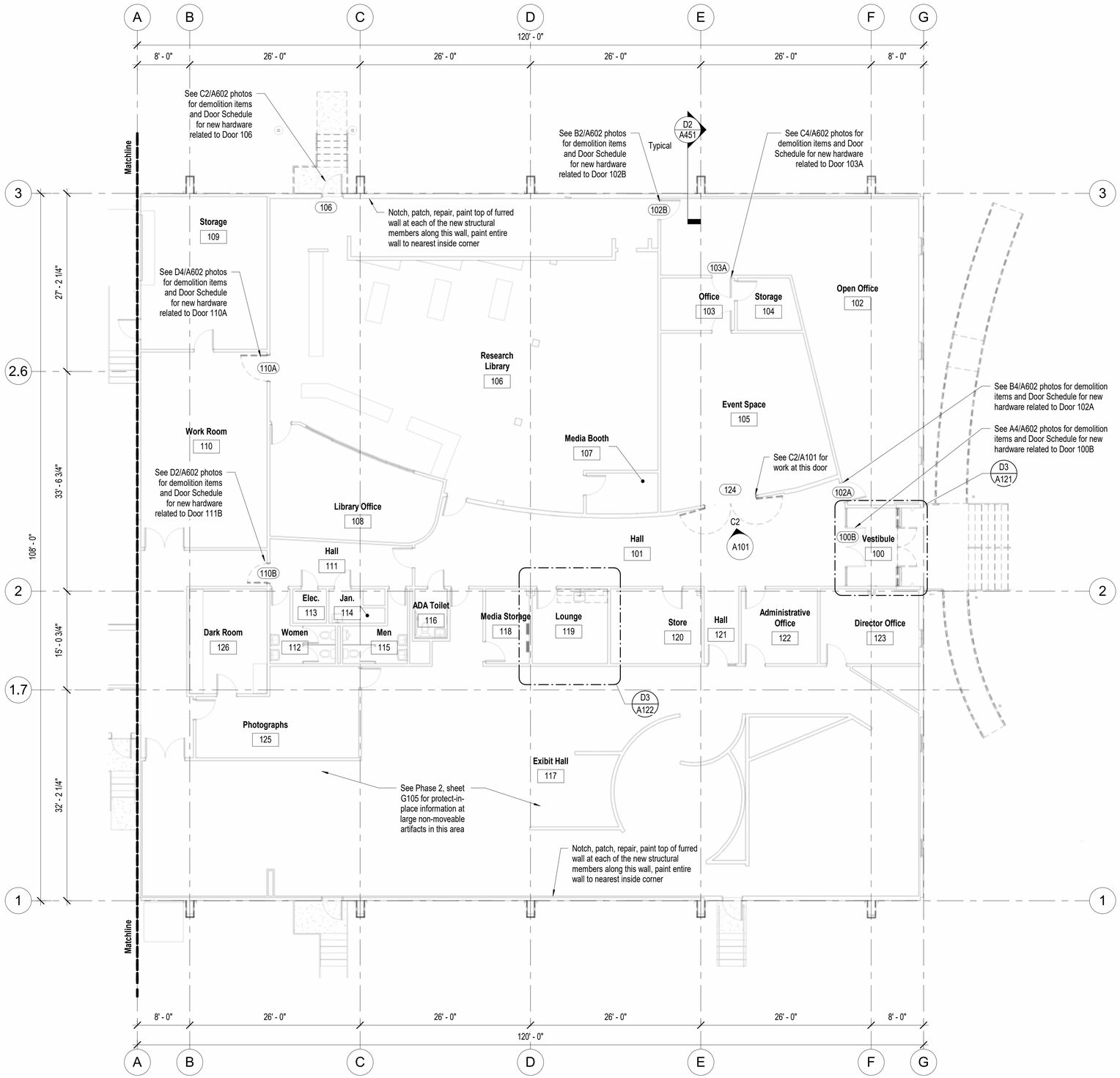
drawing name

Overall Floor Plan

sheet number

A100

Conformed Documents



D5 Partial Demolition Floor Plan-Museum
1/8" = 1'-0"

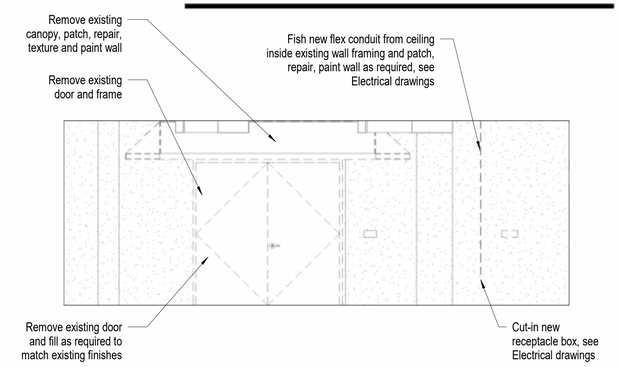
North

Demolition Floor Plan Notes

1. The Contractor to coordinate demolition operations, schedule and sequencing with SPWD Project Managers and Nevada Historical Society.
2. For purposes of Architectural work, all items not shown to be removed or altered on this sheet shall remain in its existing condition. Notify the Architect of any components which vary from those shown on the drawings.
3. The Contractor is to protect adjacent surfaces from damage. The Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent finishes.
   A. Contractor shall follow the following NHS requirements:
      a. Contractor shall only use HEPA filter vacuum for all of vacuum use.
      b. No VOC paint and primer allowed. See Specifications.
4. See Sheet G103 for Phasing Plans.
5. The Contractor will be responsible for setting the exact limits of demolition required in order to perform the work. See Phasing drawings for additional protection information.
6. Dimensions are from face of finish, unless noted otherwise. Contractor to verify all necessary dimensions in order to execute the Work.
7. Remove accessories, board, nails, panels, signs etc. on interior walls to facilitate complete patching and painting of walls.
8. See Project Manual and Specifications for additional information and requirements.
9. See Structural drawings and Specifications for additional information and requirements.
10. See Mechanical drawings and Specifications for additional information and requirements.
11. See Plumbing drawings and Specifications for additional information and requirements.
12. See Electrical drawings and specifications for additional information and requirements.
13. Existing fire alarm system and fire suppression system to remain operational during construction.
14. Remove gypsum board at walls and ceilings as needed for installation of new equipment, conduit, etc. replace, patch and repair all removed gypsum board.

Demolition Legend

- Wall, material or component to be removed
- Existing wall or material to remain
- Existing masonry or concrete wall



C2 Interior Demolition Elevation
1/4" = 1'-0"

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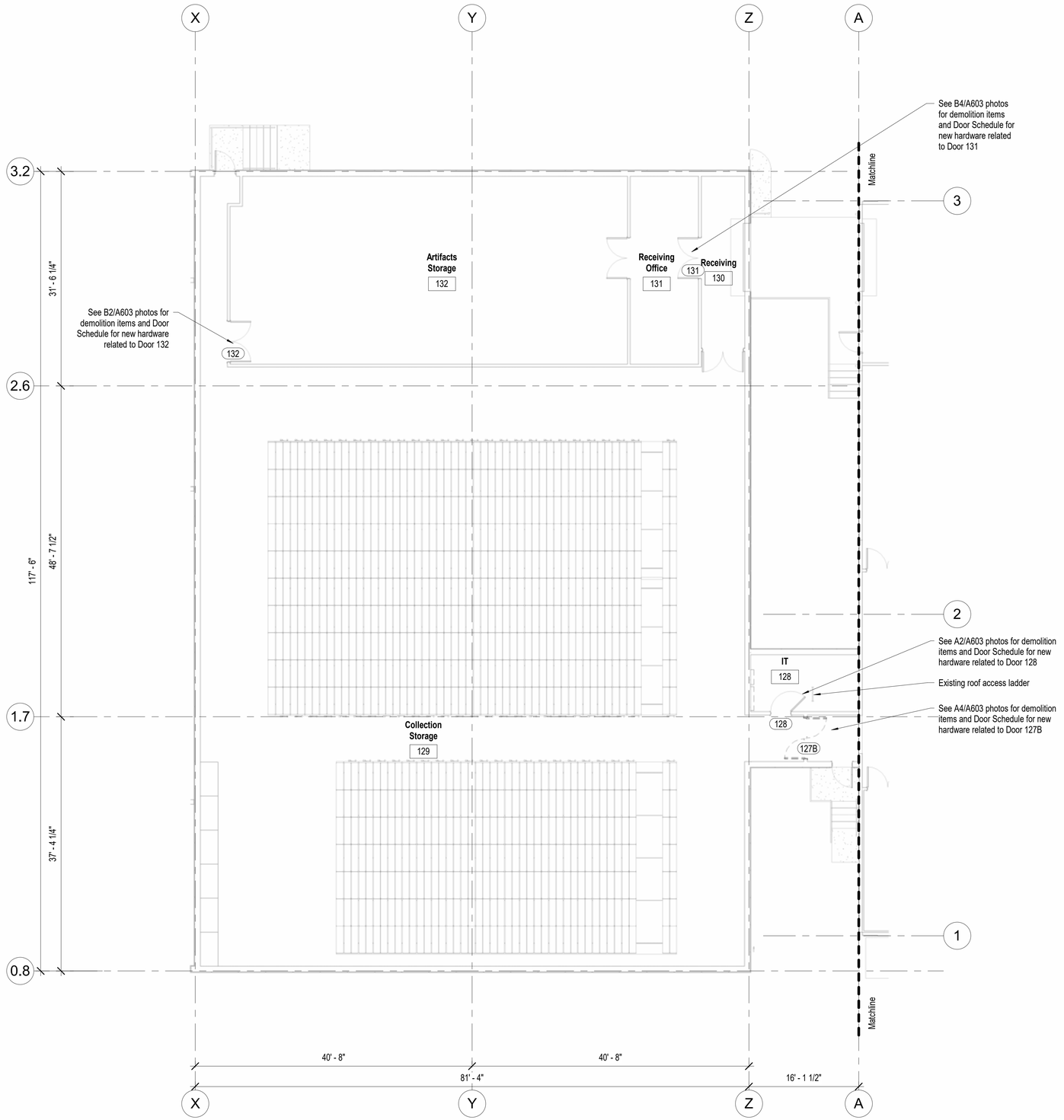
drawing name

Partial Demolition Floor Plan - Museum

sheet number

A101

Conformed Documents



D5 Partial Demolition Floor Plan - Collections
1/8" = 1'-0"

North

Demolition Floor Plan Notes

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13. Existing fire alarm system and fire suppression system to remain operational during construction.
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Demolition Legend

- Wall, material or component to be removed
- Existing wall or material to remain
- Existing masonry or concrete wall

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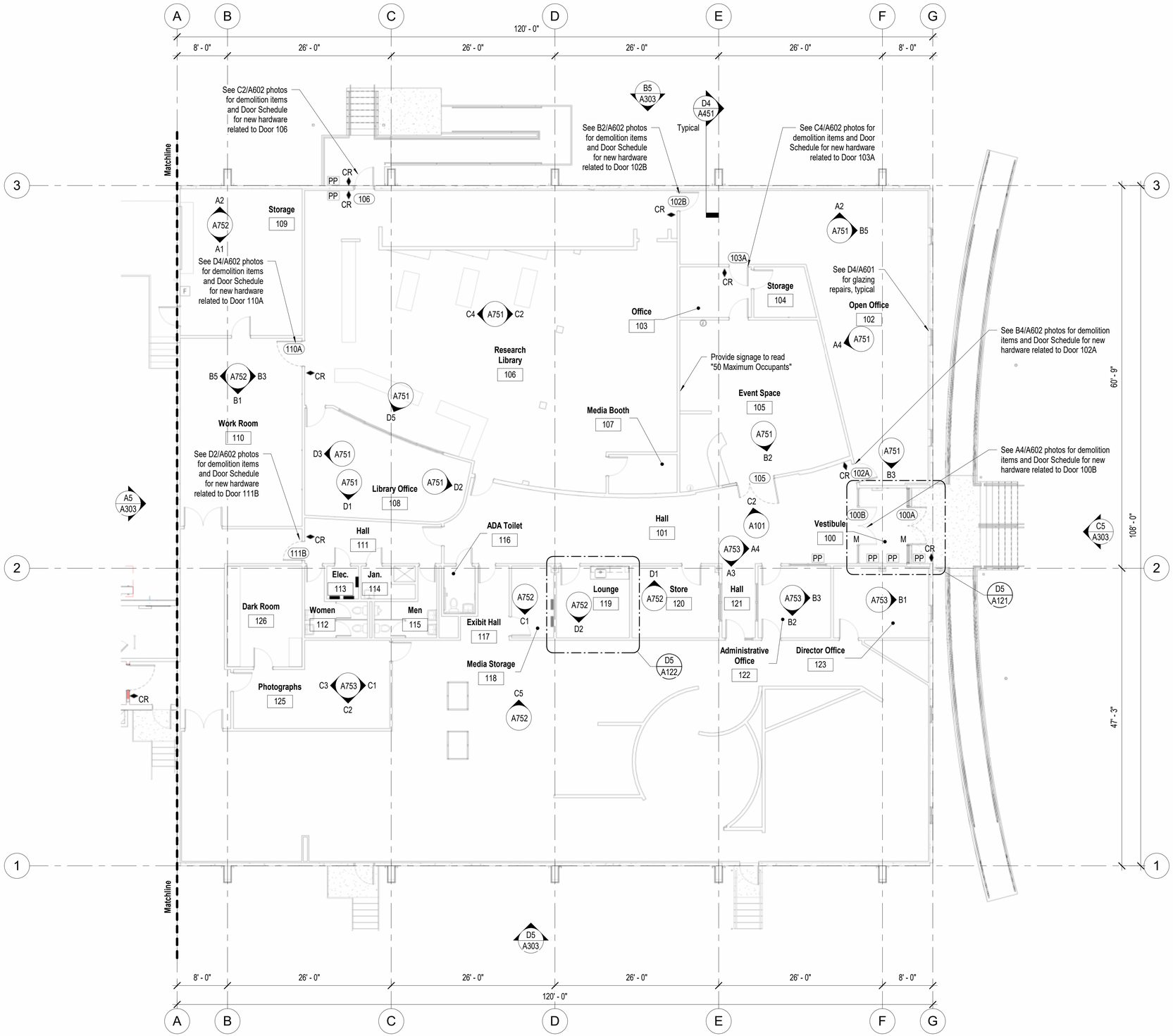
drawing name

Partial Demolition Floor Plan - Collections

sheet number

A102

Conformed Documents



D5 Partial Alteration Floor Plan-Museum
1/8" = 1'-0"

North

Alteration Floor Plan Notes

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9. See Structural drawings and specifications for additional information and requirements.
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11. See Plumbing drawings and specifications for additional information and requirements.
12. See Electrical drawings and specifications for additional information and requirements.
13. All new penetrations and existing penetrations in area of work; including but not limited to: conduit, ductwork, piping, etc. in a rated wall assembly, corridor wall, floor, and ceiling shall utilize an approved fire-stop assembly. Use 3M Fire Barrier Sealant CP 25WB+ (or equal product) when penetrating walls and floors.
14. Repaint the entire wall and/or ceiling where alteration work is performed. Paint color and texture to match existing walls and adjacent areas. Paint extents shall be from break point to break point or entire wall/ceiling.
15. All touch-up and new painting will be as follows:
    - Bottom coat: Latex primer
    - Intermediate and top coat: Acrylic Latex Enamel
    - Sheen shall match existing, adjacent surfaces. Color to match existing.

Alteration Plan Legend

PP = ADA Push Plate, see Electrical drawings

CR = Card reader, see Electrical drawings

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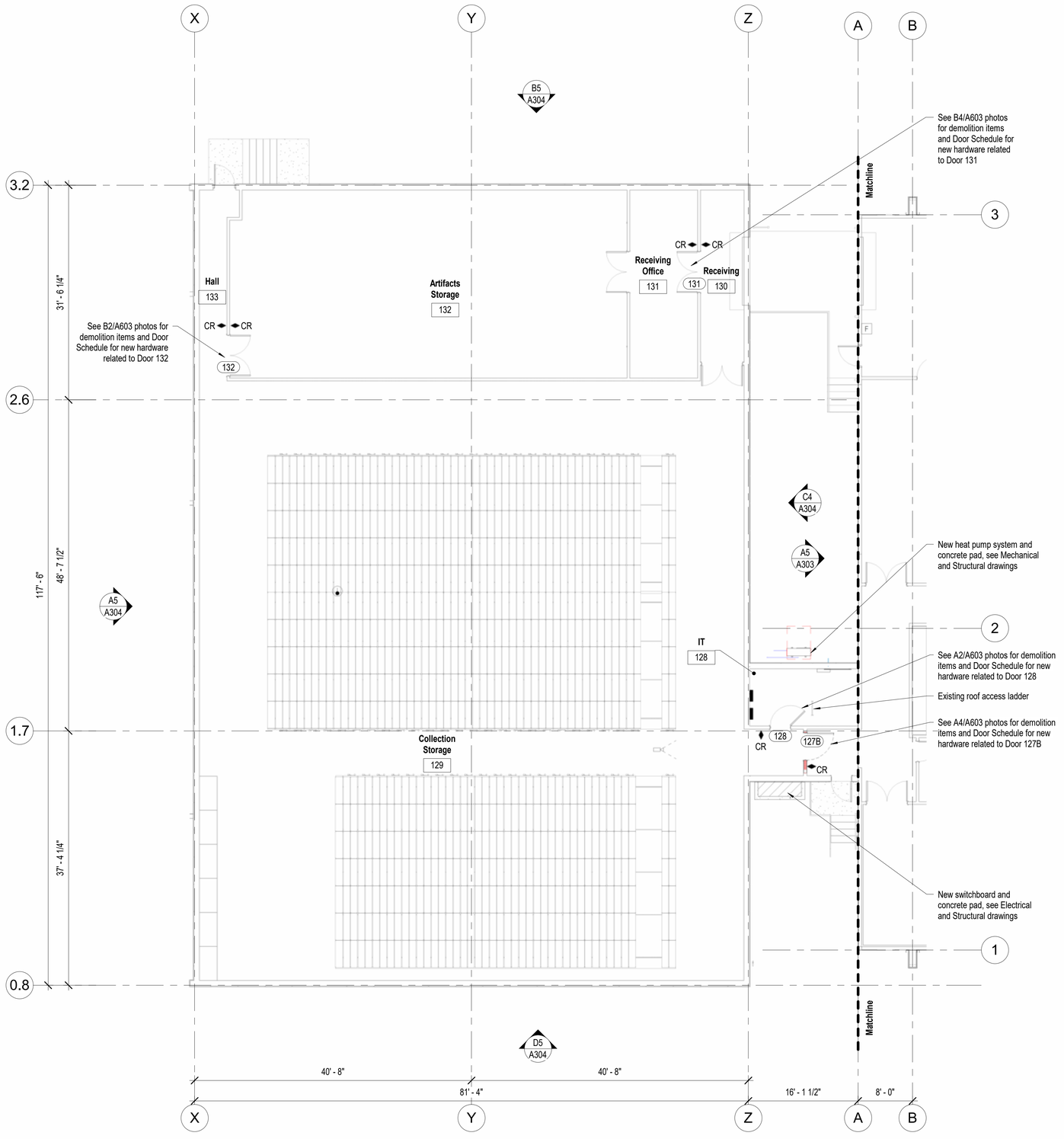
drawing name

Partial Alteration Floor Plan - Museum

sheet number

A111

Conformed Documents



D5 Partial Alteration Floor Plan - Collections
1/8" = 1'-0"

North

Alteration Floor Plan Notes

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    - Sheen shall match existing, adjacent surfaces. Color to match existing.

Alteration Plan Legend

PP = ADA Push Plate, see Electrical drawings

CR = Card reader, see Electrical drawings

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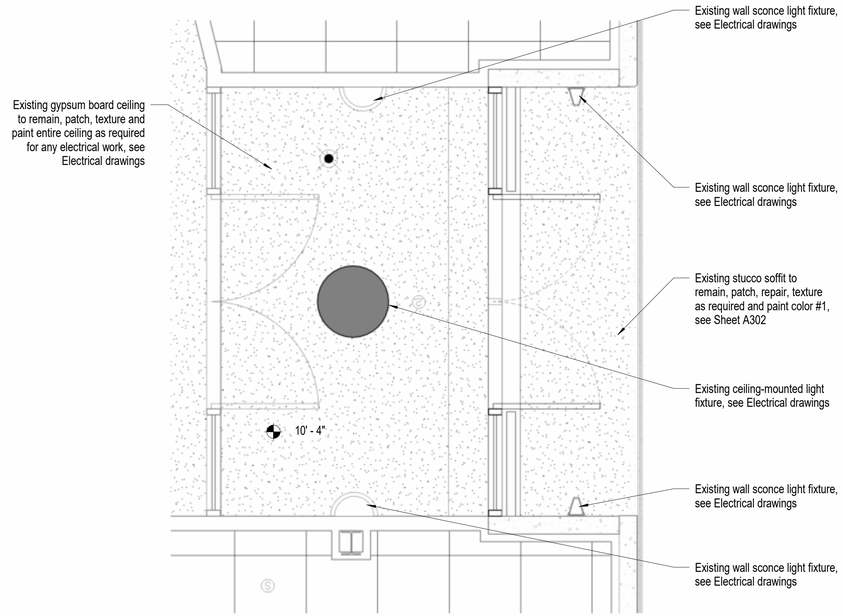
drawing name

Partial Alteration Floor Plan - Collections

sheet number

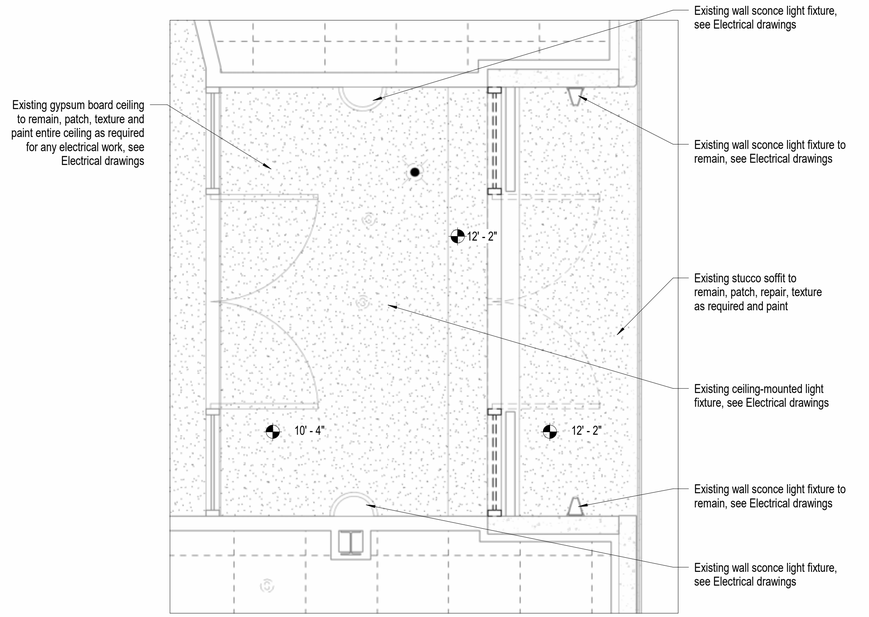
A112

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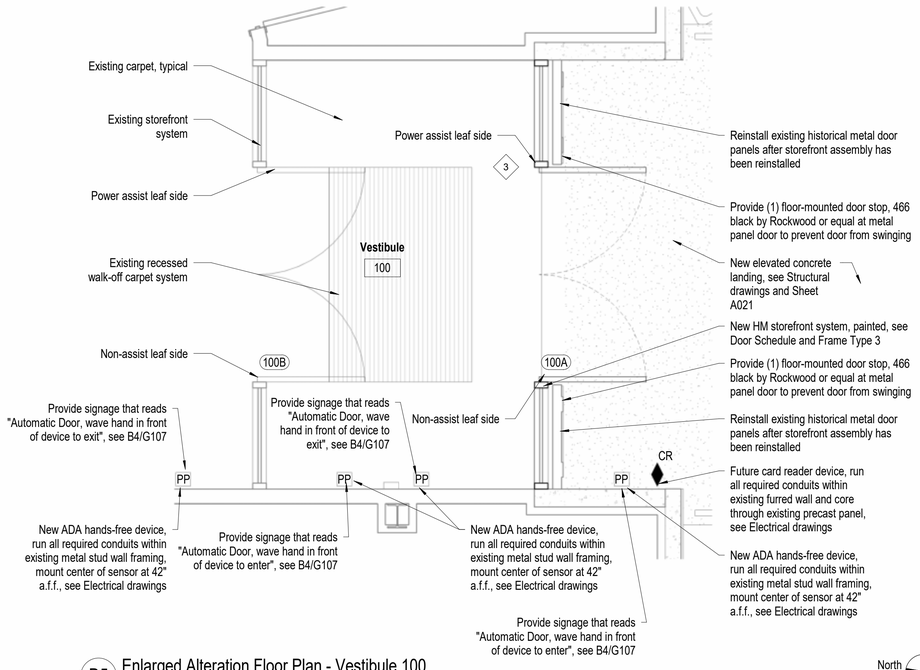
B5 Enlarged Alteration Reflected Ceiling Plan - Vestibule 100
1/2" = 1'-0"

North



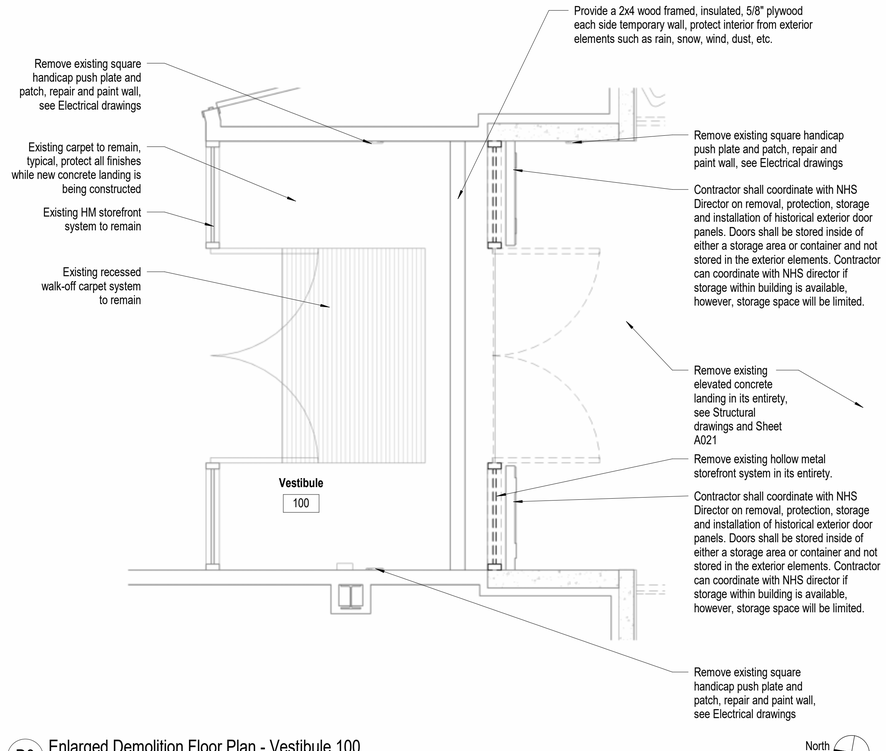
B3 Enlarged Demolition Reflected Ceiling Plan - Vestibule 100
1/2" = 1'-0"

North



D5 Enlarged Alteration Floor Plan - Vestibule 100
1/2" = 1'-0"

North



D3 Enlarged Demolition Floor Plan - Vestibule 100
1/2" = 1'-0"

North

Demolition Floor Plan Notes

1. The Contractor to coordinate demolition operations, schedule and sequencing with SPWD Project Managers and Nevada Historical Society.
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   A. Contractor shall follow the following NHS requirements:
      a. Contractor shall only use HEPA filter vacuum for all of vacuum use.
      b. No VOC paint and primer allowed. See Specifications.
4. See Sheet G103 for Phasing Plans.
5. The Contractor will be responsible for setting the exact limits of demolition required in order to perform the work. See Phasing drawings for additional protection information.
6. Dimensions are from face of finish, unless noted otherwise. Contractor to verify all necessary dimensions in order to execute the Work.
7. Remove accessories, board, nails, panels, signs etc. on interior walls to facilitate complete patching and painting of walls.
8. See Project Manual and Specifications for additional information and requirements.
9. See Structural drawings and Specifications for additional information and requirements.
10. See Mechanical drawings and Specifications for additional information and requirements.
11. See Plumbing drawings and Specifications for additional information and requirements.
12. See Electrical drawings and specifications for additional information and requirements.
13. Existing fire alarm system and fire suppression system to remain operational during construction.
14. Remove gypsum board at walls and ceilings as needed for installation of new equipment, conduit, etc. replace, patch and repair all removed gypsum board.

Demolition Legend

- Wall, material or component to be removed
- Existing wall or material to remain
- Existing masonry or concrete wall

Alteration Floor Plan Notes

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9. See Structural drawings and specifications for additional information and requirements.
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11. See Plumbing drawings and specifications for additional information and requirements.
12. See Electrical drawings and specifications for additional information and requirements.
13. All new penetrations and existing penetrations in area of work; including but not limited to: conduit, ductwork, piping, etc. in a rated wall assembly, corridor wall, floor, and ceiling shall utilize an approved fire-stop assembly. Use 3M Fire Barrier Sealant CP 25WB+ (or equal product) when penetrating walls and floors.
14. Repaint the entire wall and/or ceiling where alteration work is performed. Paint color and texture to match existing walls and adjacent areas. Paint extents shall be from break point to break point or entire wall/ceiling.
15. All touch-up and new painting will be as follows:
    - Bottom coat: Latex primer
    - Intermediate and top coat: Acrylic Latex Enamel
    - Sheen shall match existing, adjacent surfaces. Color to match existing.

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PAUL A. CAVIN REGISTERED 6284 4/22/2025 ARCHITECT STATE OF NEVADA

consultant

project

Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building, SPWD Site #9856, Building #0401
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

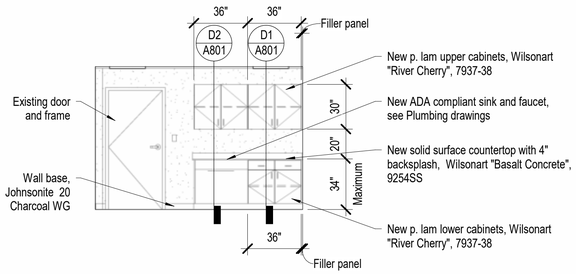
drawing name

Enlarged Floor Plan - Vestibule 100

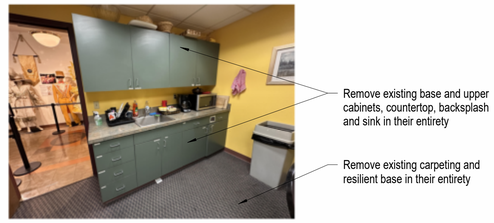
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A121

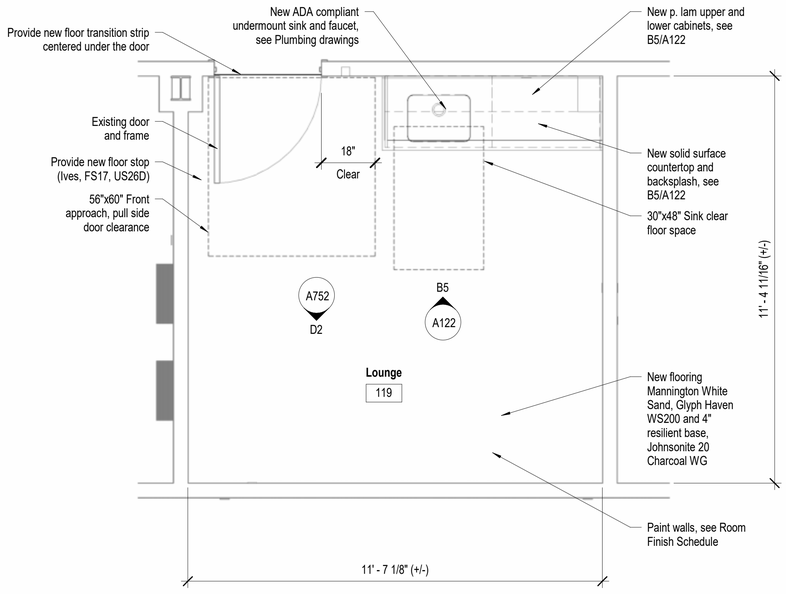
Conformed Documents



B5 Interior Elevation - Lounge 119 - East
1/4" = 1'-0"

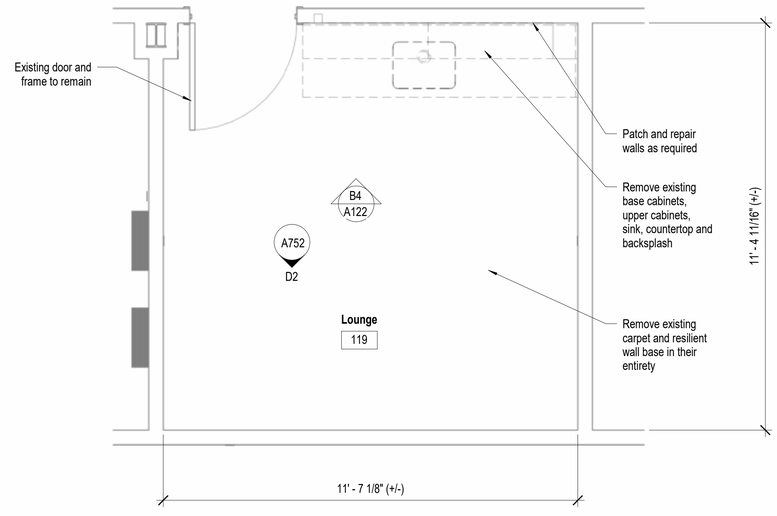


B4 Photo of Existing Lounge 119
12" = 1'-0"



D5 Enlarged Alteration Floor Plan - Lounge 119
1/2" = 1'-0"

North



D3 Enlarged Demolition Floor Plan - Lounge 119
1/2" = 1'-0"

North

Finish Schedule

Room Name	Room Number	Floor	Base	Walls				Ceiling	Notes
				North	East	South	West		
Lounge	119	F1	B1	W1	W1	W1	W1	C1	

Finish Schedule Legend

Flooring

F1 Luxury Vinyl Tile (LVT), Mannington White Sands Glyph Haven WS200 12"x24" format

Base

B1 4" Resilient base, Johnsonite 20 Charcoal

Walls

W1 5/8" Type 'X' Gypsum wallboard (tape, texture, paint) SW 7070 Site White

Ceiling

C1 Existing Acoustic Ceiling Tile System to remain unless otherwise noted

Finish Schedule Notes

1. See Project Manual and Specifications for additional information and requirements.
2. All surfaces shall be prepared to receive the specified finish.
3. Repaint the entire wall where alteration work is performed.
4. All cracks, holes, and imperfections in existing walls shall be filled with the appropriate finish to match adjoining surfaces.
5. All finish floor materials shall be located directly under the center of the door.
6. Appropriate finish drywall returns to be used at all corners and edges.
7. Appropriate flooring transition strips to be used at each condition.

Demolition Floor Plan Notes

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- Existing wall or material to remain
- Existing masonry or concrete wall

Alteration Floor Plan Notes

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project

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SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades
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Reno, Nevada 89503

revisions

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reviewed by	PAC
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project number	23035

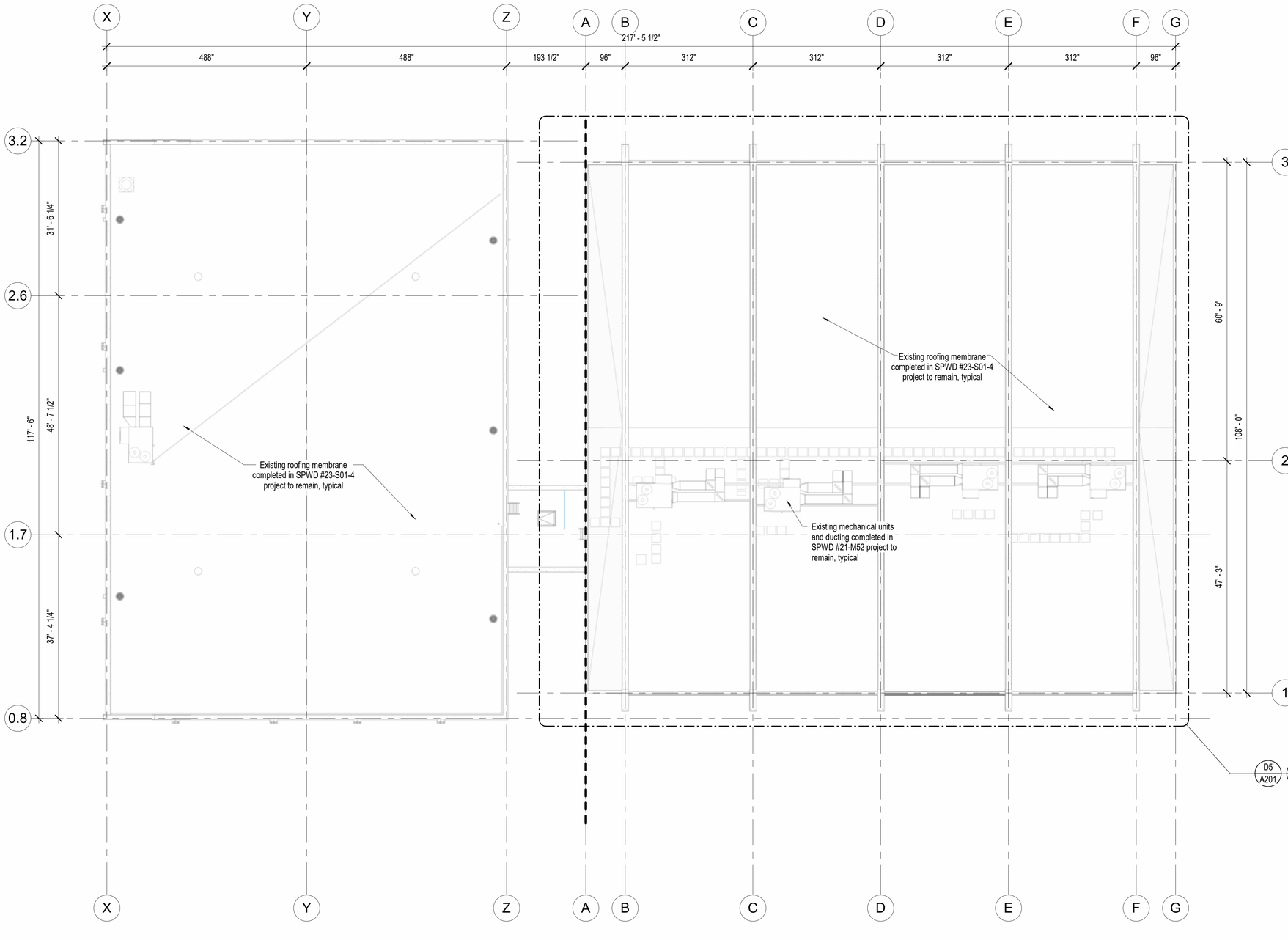
drawing name

Enlarged Floor Plan - Lounge 119

Conformed Documents

sheet number

A122



D5 Alteration Roof Plan
3/32" = 1'-0"

Alteration Roof Plan Notes

1. Coordinate construction operations, schedule, and sequencing with SPWD Project Managers, and Nevada Historical Society.
2. The roof system is as follows: Based on work completed in SPWD #23-S01-4 project:
   - A. Museum Building:
     1. Existing 60 Mil. white PVC membrane over
     2. Existing 1-1/2" polyisocyanurate insulation over
     3. Existing concrete filled metal deck
   - B. Collections Building:
     1. Existing 60 Mil. white PVC membrane over
     2. Existing 1-1/2" polyisocyanurate insulation over
     3. Existing 3/4" T&G exterior plywood sheathing over
3. In the event that roof work creates a condition where interior spaces are open to weather, the Contractor shall protect the building from the effects of exposure to exterior conditions. The building shall be weather-tight at the conclusion of work each day. At the conclusion of work in a specific area the Contractor is to replace all removed components to a weather-tight condition. In the event that the roof leaks, the Contractor shall respond and make the roofing water tight within 3 hours, at no additional cost to the Owner.
4. The Contractor shall maintain a clean environment during all constructions operations, and shall conduct a final cleaning of entire area of work at the conclusion of the project.
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9. See Electrical drawings and Specifications for additional information and requirements.
10. Where roofing and flashing requirements vary from those described on the details, Contractor shall provide roofing manufacturer's approved details as required for warranty requirements.
11. All penetrations, flashings, and roofing components are to be installed per roof manufacturer's instructions and recommendations as required for warranty.
12. Contractor shall completely protect the entire roof for the duration of construction procedures on the roof. Protection shall include covering necessary to protect the roof from foot traffic, equipment, weather, rain, and other potentially damaging sources.

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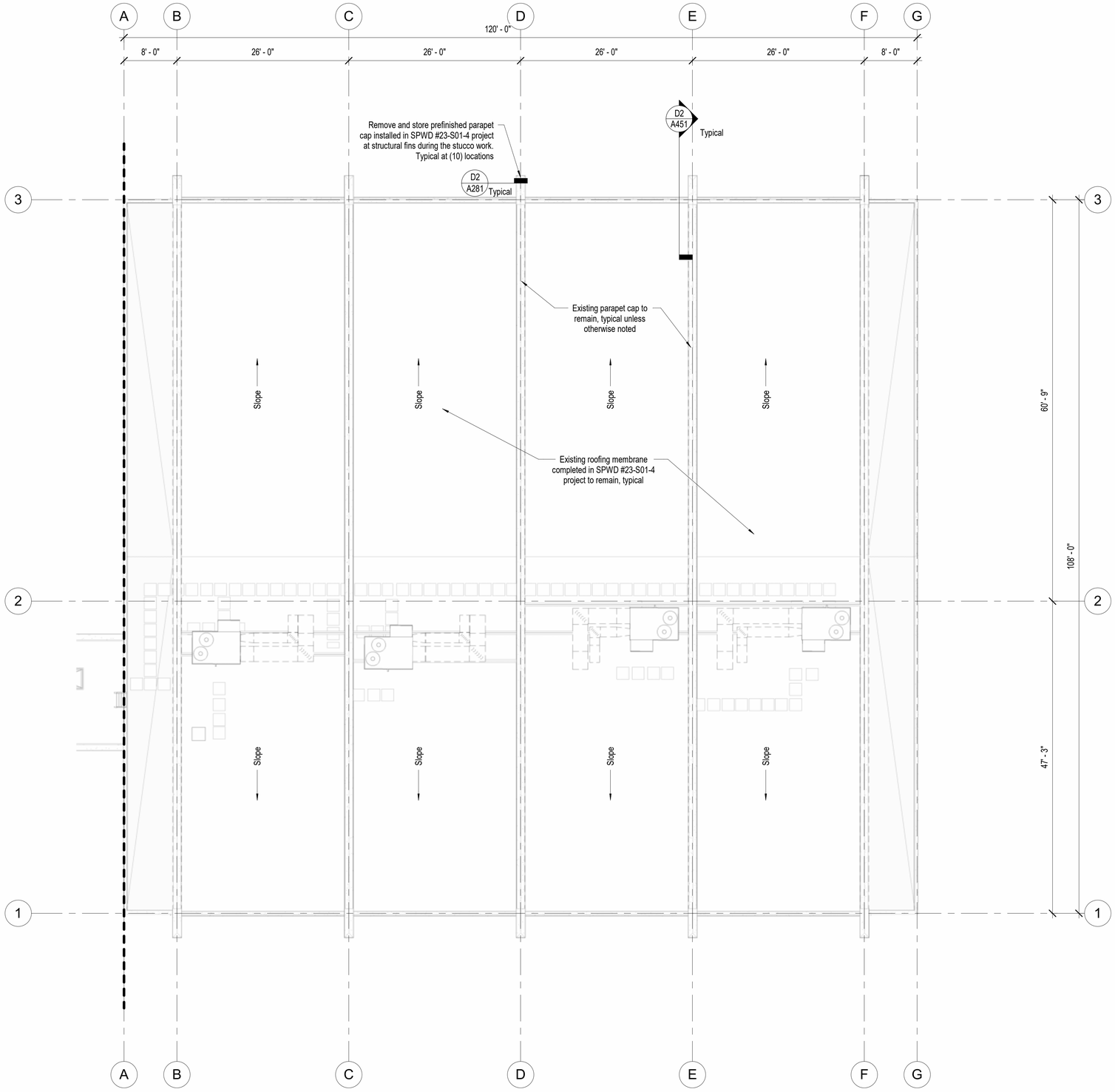
drawing name

Overall Roof Plan

sheet number

A200

Conformed Documents



D5 Partial Demolition Roof Plan - Museum
1/8" = 1'-0"

North

Demolition Roof Plan Notes

1. Coordinate construction operations, schedule, and sequencing with SPWD Project Managers, and Nevada Historical Society.
2. The roof system is as follows:
   - A. Museum Building:
     1. Existing 60 Mil. white PVC membrane over
     2. Existing 1-1/2" polyisocyanurate insulation over
     3. Existing concrete filled metal deck
   - B. Collections Building:
     1. Existing 60 Mil. white PVC membrane over
     2. Existing 1-1/2" polyisocyanurate insulation over
     3. Existing 3/4" T&G exterior plywood sheathing over
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12. Contractor shall completely protect the entire roof for the duration of construction procedures on the roof. Protection shall include covering necessary to protect the roof from foot traffic, equipment, weather, rain, and other potentially damaging sources.

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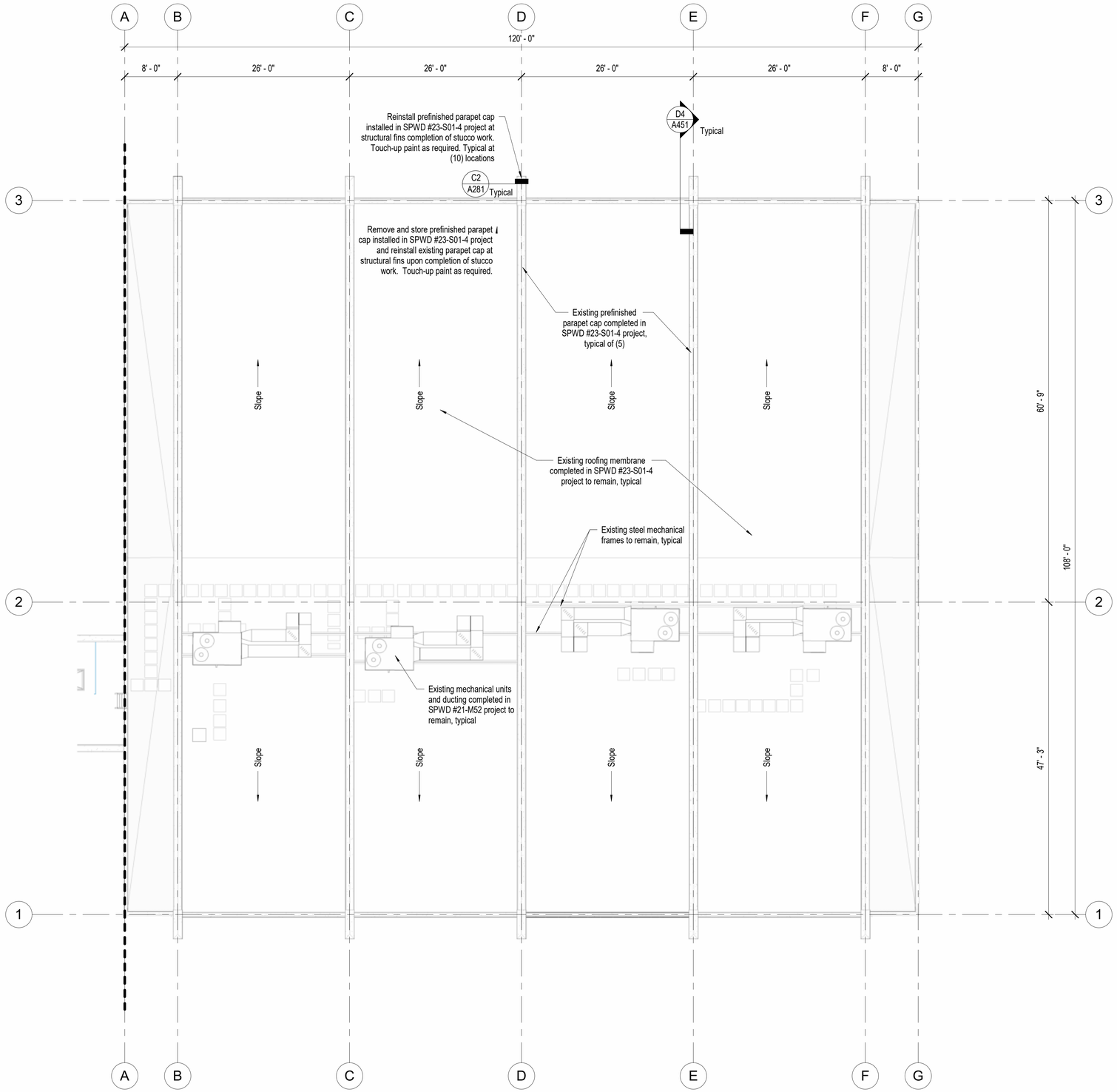
drawing name

Partial Demolition Roof Plan - Museum

sheet number

A201

Conformed Documents



D5 Partial Alteration Roof Plan - Museum
1/8" = 1'-0"

North

Alteration Roof Plan Notes

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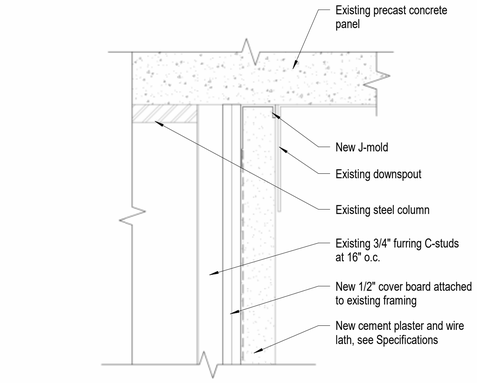
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Partial Alteration Roof Plan - Museum

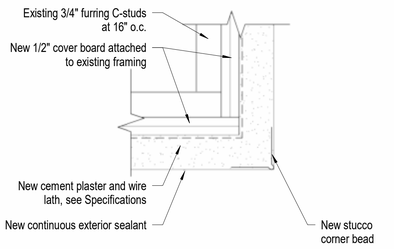
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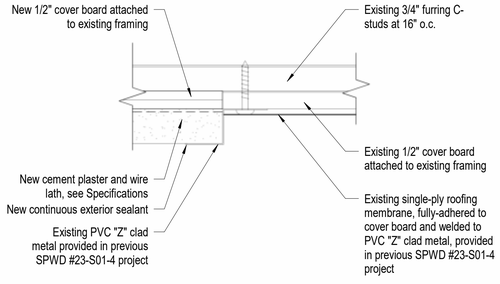
Conformed Documents



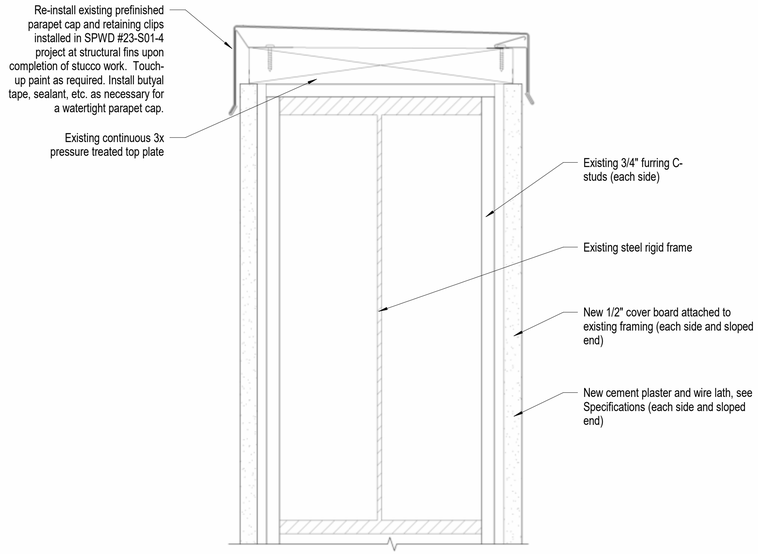
B4 Stucco at Concrete Panel Detail
6" = 1'-0"



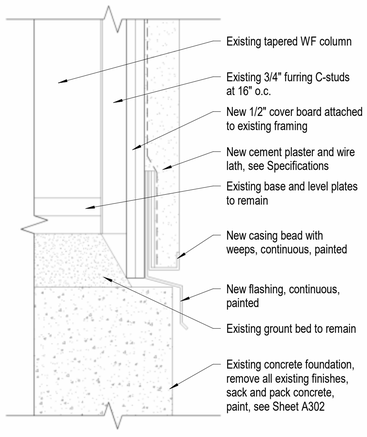
C4 Stucco Outside Corner Detail
6" = 1'-0"



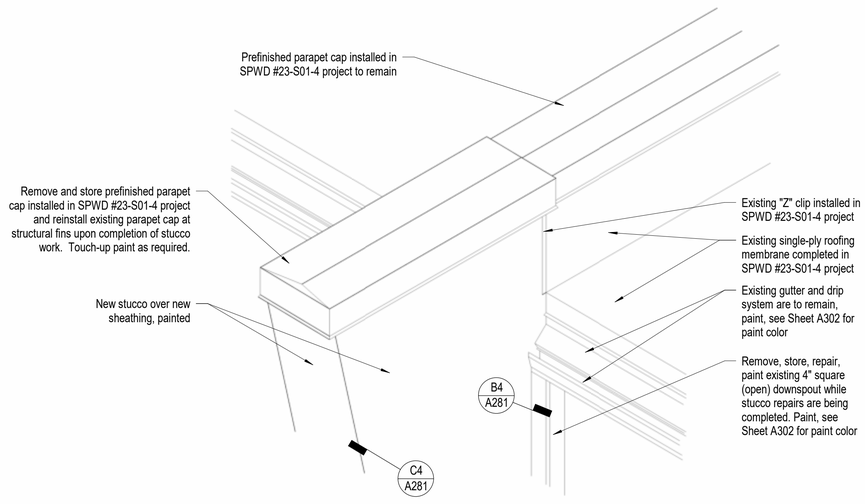
C3 Existing "Z" Metal Detail
6" = 1'-0"



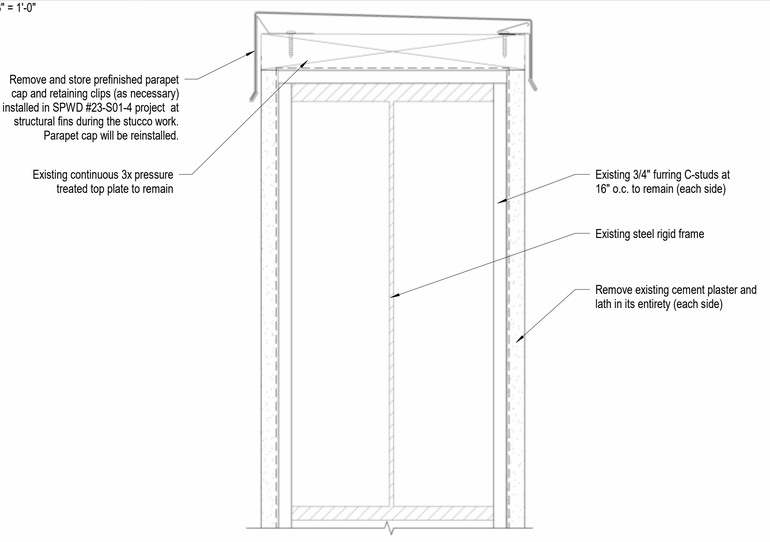
C2 Alteration at Roof Support Beam Enclosure
3" = 1'-0"



D5 Stucco Base Detail
6" = 1'-0"



D4 Roof Support Beam Isometric
3" = 1'-0"



D2 Demolition at Roof Support Beam Enclosure
3" = 1'-0"

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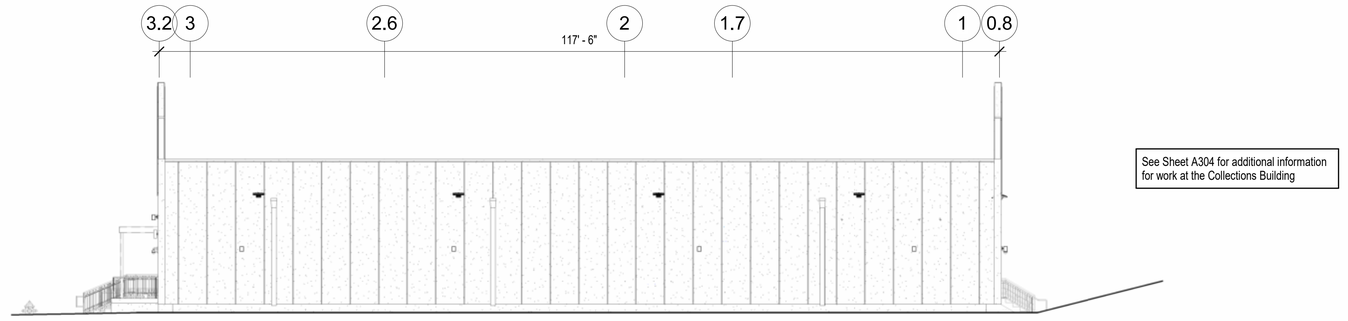
drawing name

Roof Details

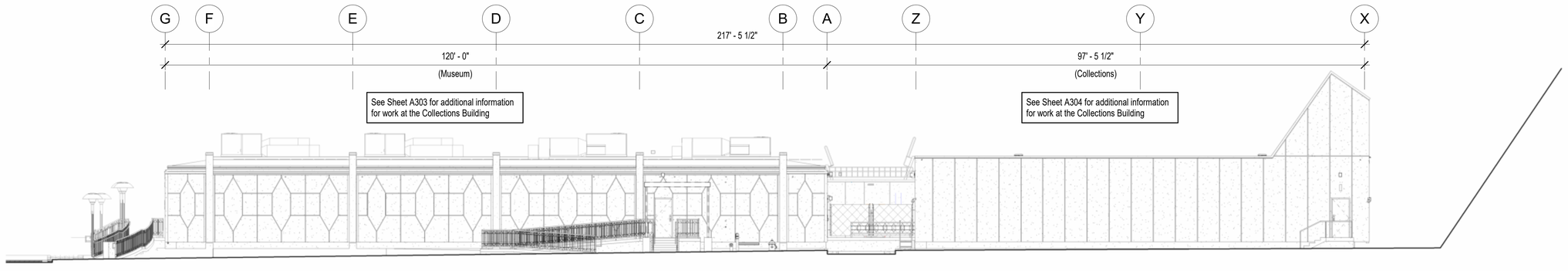
sheet number

A281

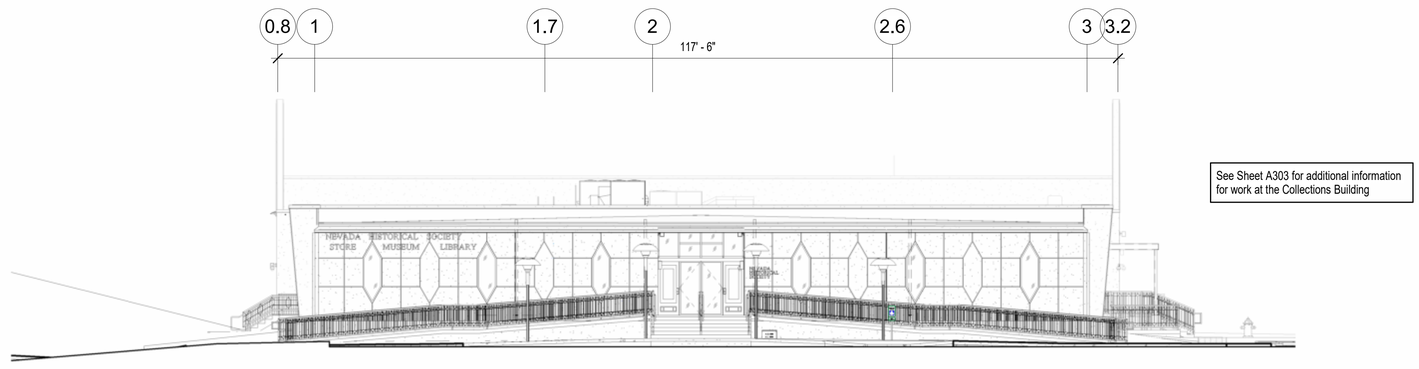
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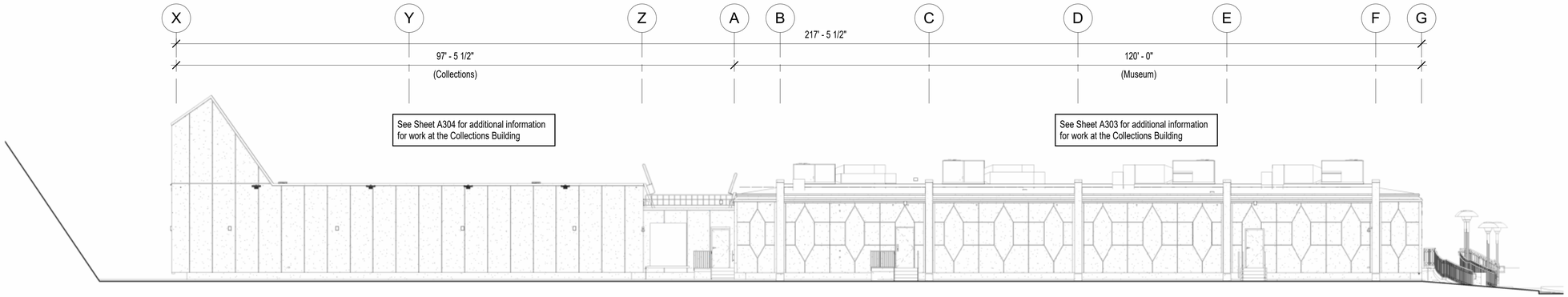
A5 Exterior Elevation - North
1" = 10'-0"



B5 Exterior Elevation - East
1" = 10'-0"



C5 Exterior Elevation - South
1" = 10'-0"



D5 Exterior Elevation - West
1" = 10'-0"

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Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades
Nevada Historical Society Building, SPWD Site #9856, Building #0401
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

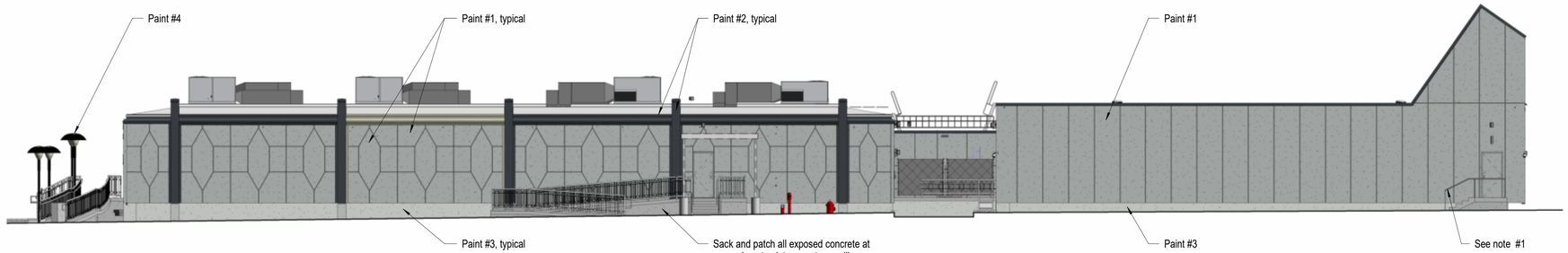
drawing name

Exterior Elevations

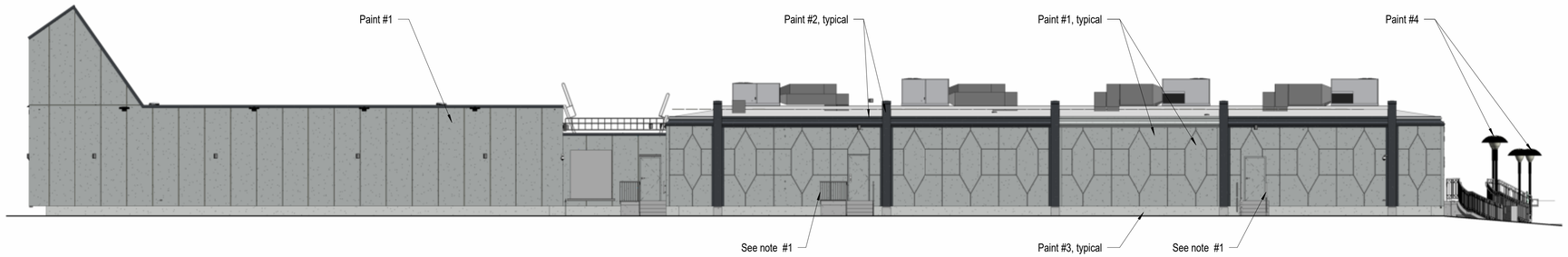
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A301

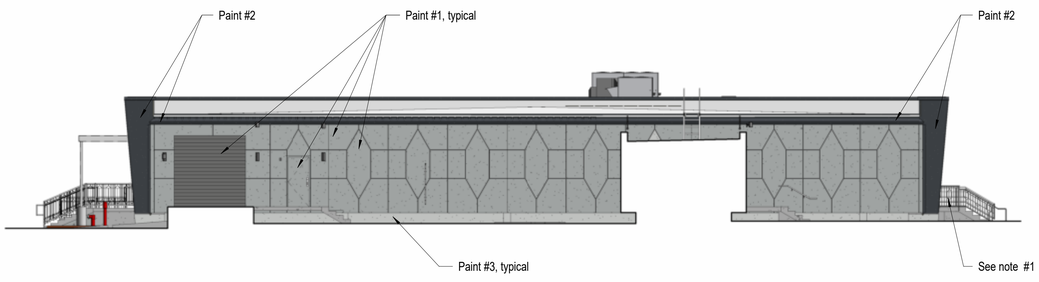
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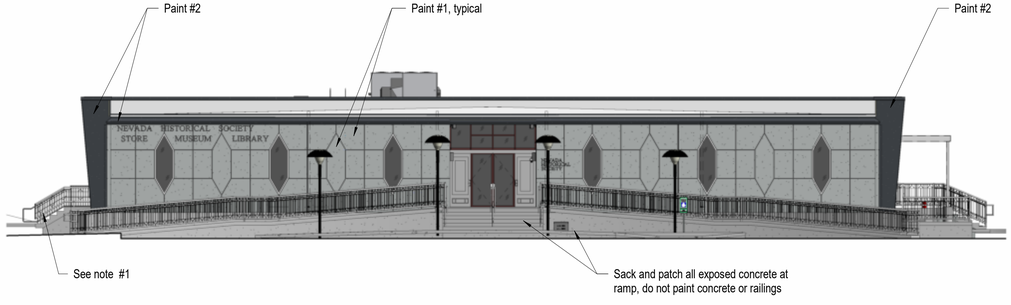
A5 Exterior Elevation - East
1" = 10'-0"



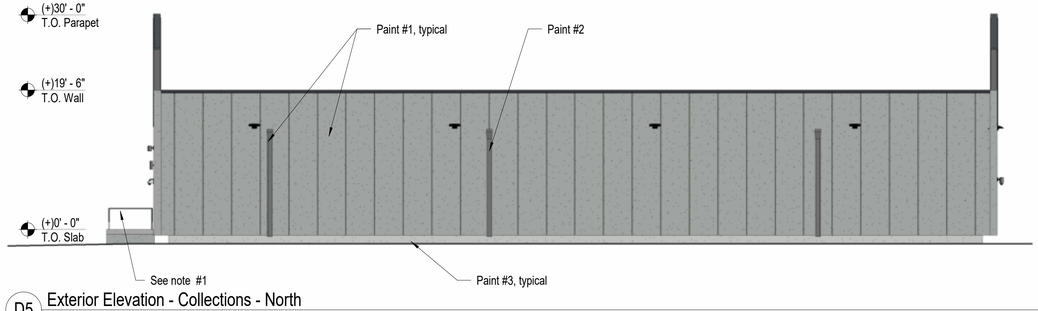
B5 Exterior Elevation - West
1" = 10'-0"



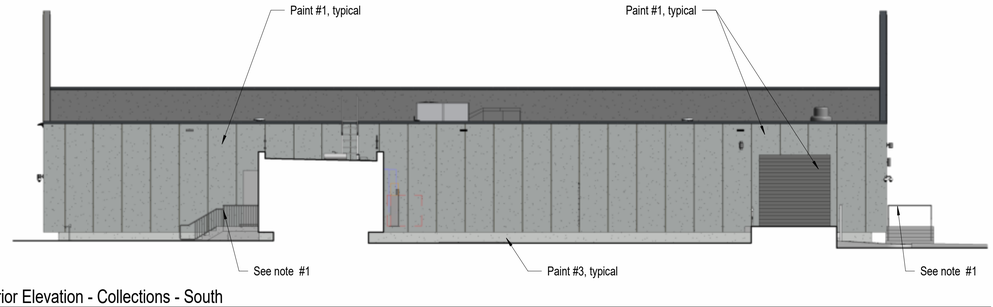
C5 Exterior Elevation - Museum - North
1" = 10'-0"



C3 Exterior Elevation - Museum - South
1" = 10'-0"



D5 Exterior Elevation - Collections - North
1" = 10'-0"



D3 Exterior Elevation - Collections - South
1" = 10'-0"

Paint Schedule

	=	Paint #1 Sherwin - Williams SW 2849 Westchester Gray (Field color)
	=	Paint #2 Sherwin - Williams SW 7076 Cyberspace (Accent color)
	=	Paint #3 Sherwin - Williams SW 7070 Site White (Foundation color)
	=	Paint #4 Sherwin - Williams SW 6994 Greenblack

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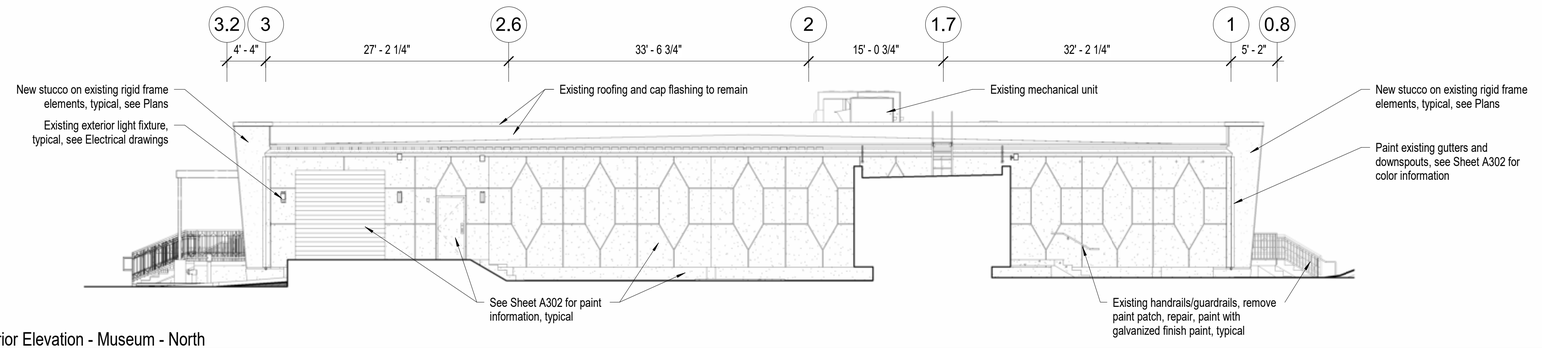
drawing name

Exterior Elevations - Colored

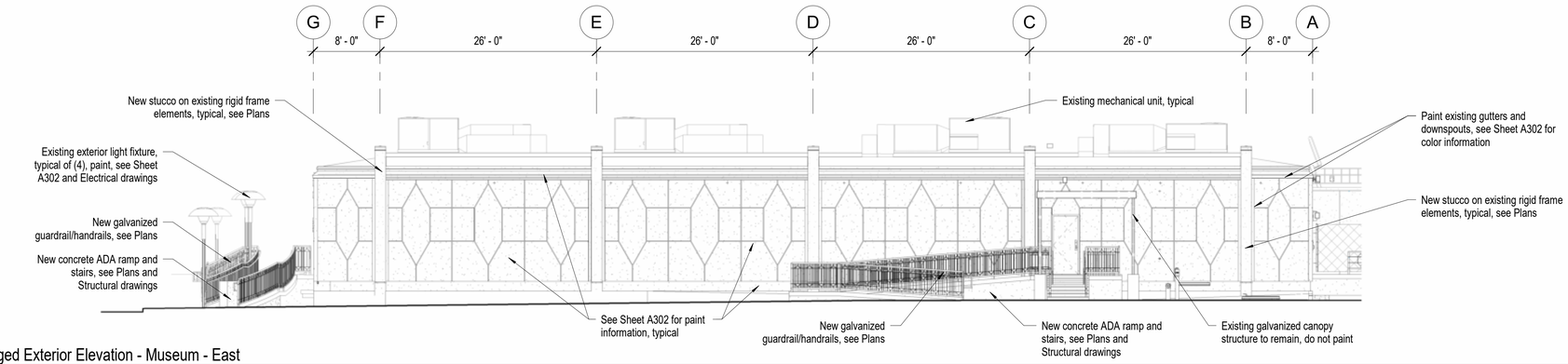
sheet number

A302

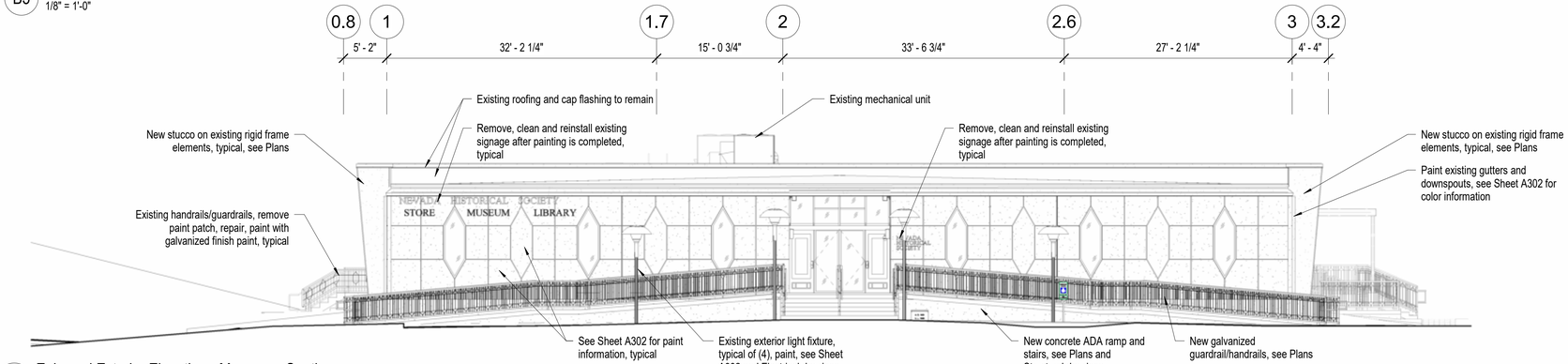
Conformed Documents



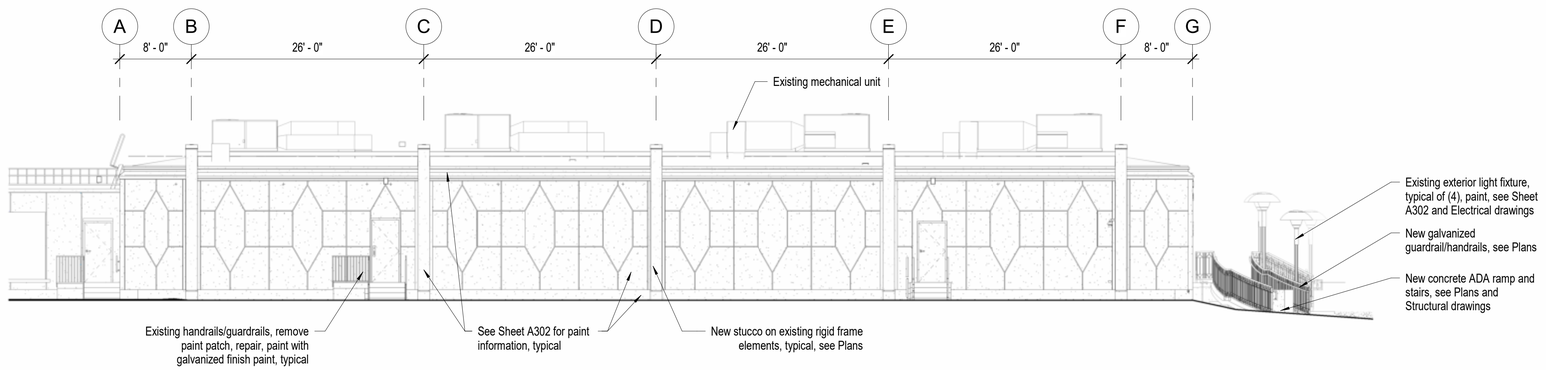
A5 Enlarged Exterior Elevation - Museum - North
1/8" = 1'-0"



B5 Enlarged Exterior Elevation - Museum - East
1/8" = 1'-0"



C5 Enlarged Exterior Elevation - Museum - South
1/8" = 1'-0"



D5 Enlarged Exterior Elevation - Museum - West
1/8" = 1'-0"

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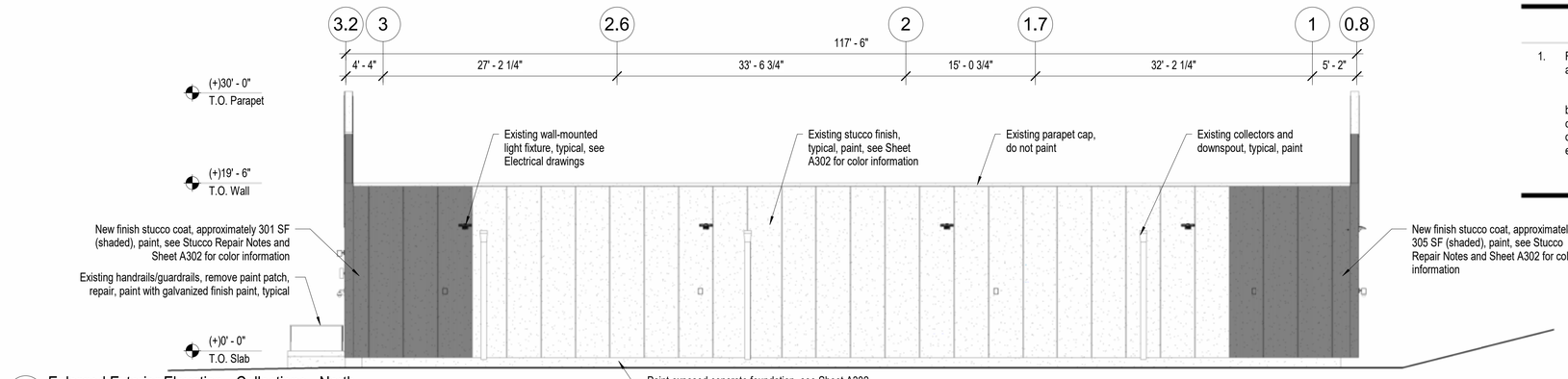
drawing name

Enlarged Exterior Elevations - Museum

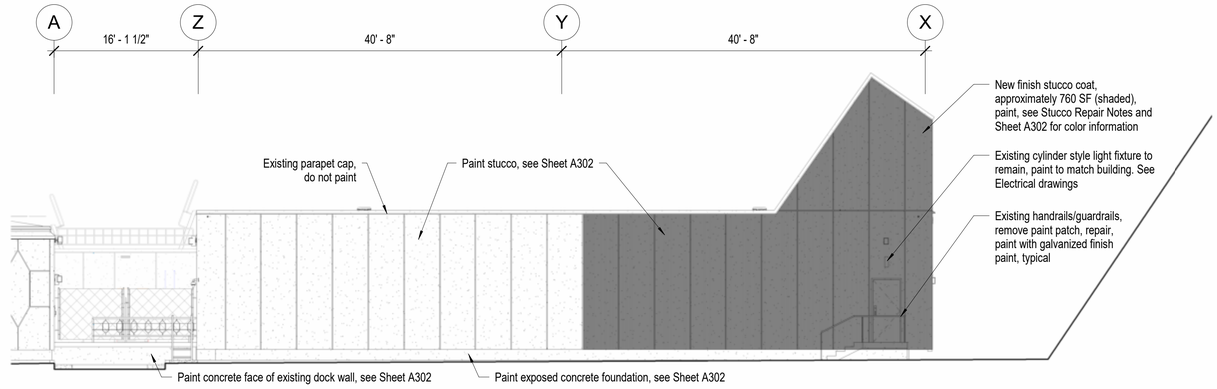
sheet number

A303

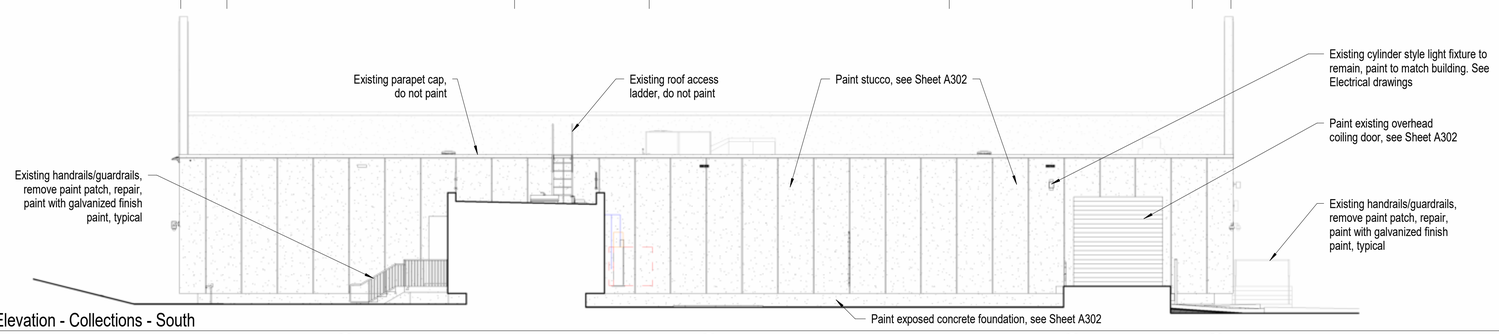
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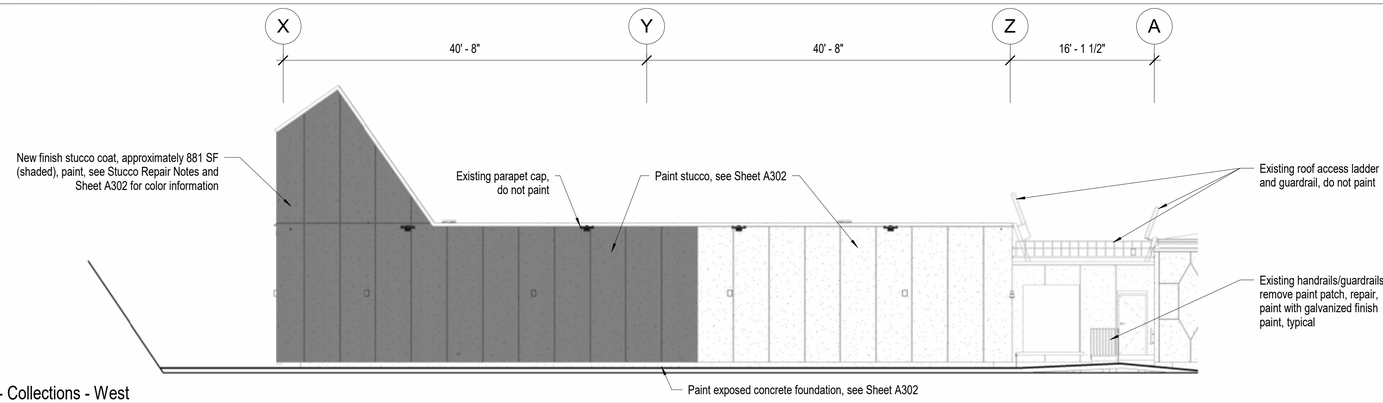
A5 Enlarged Exterior Elevation - Collections - North
1/8" = 1'-0"



B5 Enlarged Exterior Elevation - Collections - East
1/8" = 1'-0"



C4 Enlarged Exterior Elevation - Collections - South
1/8" = 1'-0"



D5 Enlarged Exterior Elevation - Collections - West
1/8" = 1'-0"

Stucco Repair Notes

1. Repair areas of stucco delamination (shaded area on elevations):
   a. Remove the existing finish coat in all areas of delamination by scraping, sanding, power washing or any other means to ensure the loose material is free from the base coat.
   b. Prepare and/or replace stucco base coat for new finish.
   c. Apply new base and mesh layer over the base coat, see Specifications.
   d. Apply new finish coat, see Specifications.
   e. Finish coat finish shall match existing, adjacent surfaces. Paint all new and existing stucco per Sheet A302.

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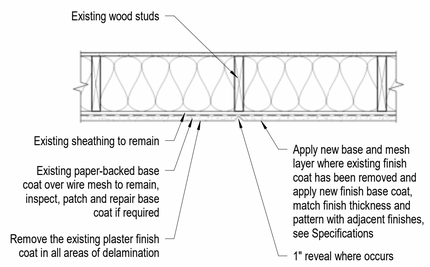
Enlarged Exterior Elevations - Collections

sheet number

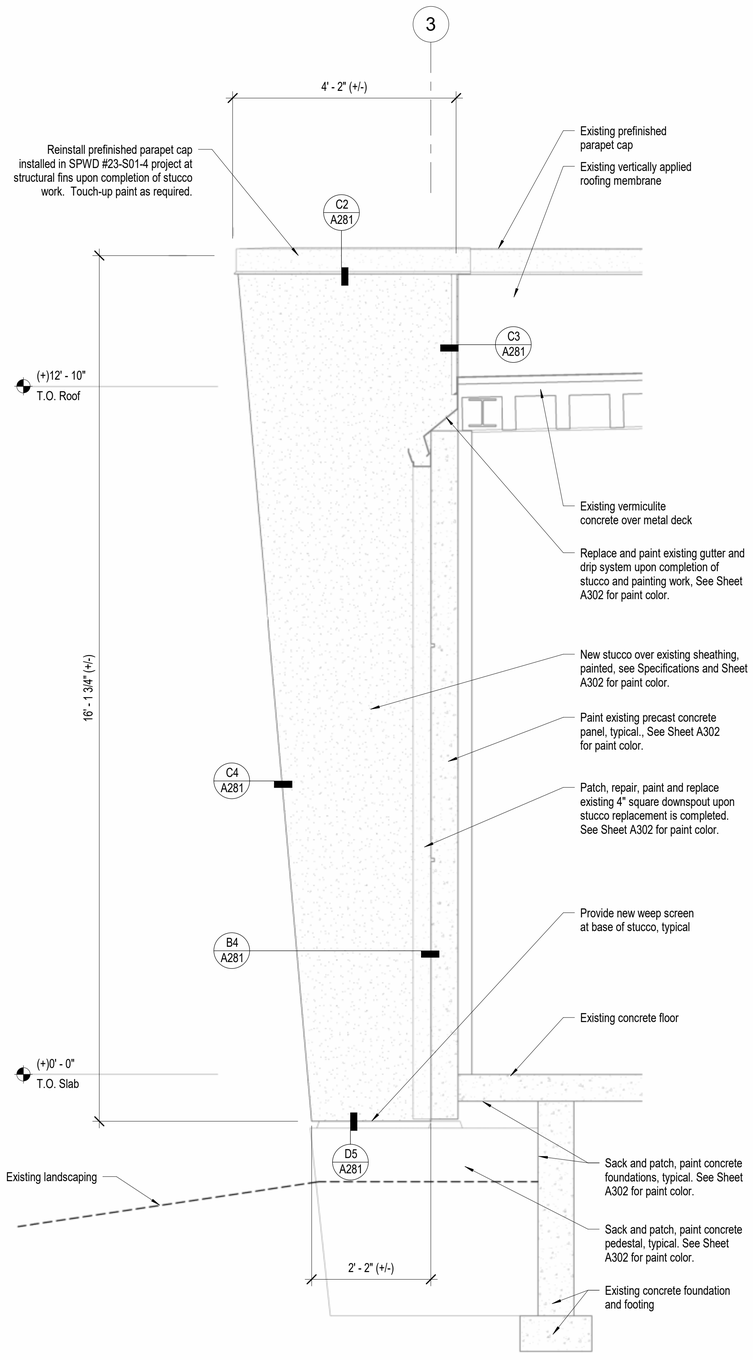
A304

Conformed Documents

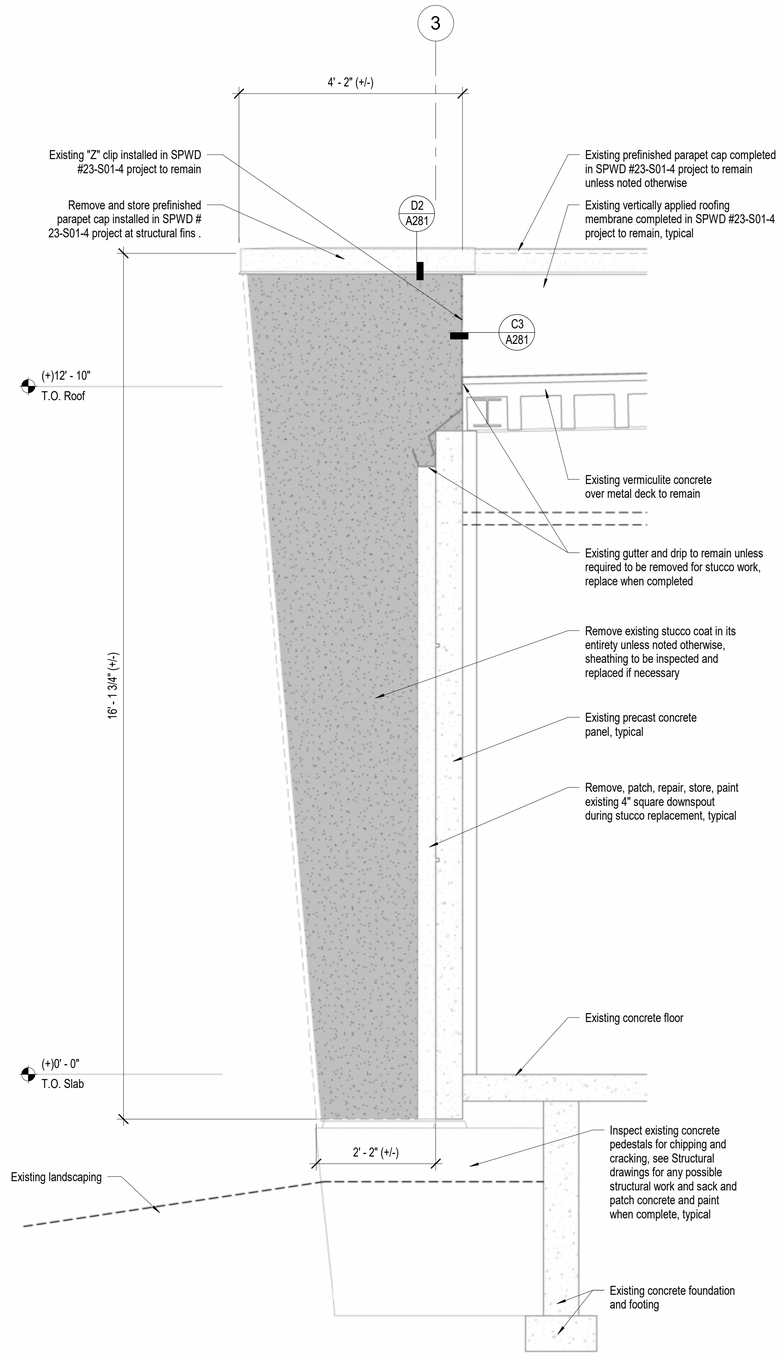
C5 Stucco Repair at North Wall
1" = 1'-0"



D5 Stucco Repair at East/West Walls
1" = 1'-0"



D4 Typical Alteration Side Wall Section
3/4" = 1'-0"



D2 Typical Demolition Side Wall Section
3/4" = 1'-0"

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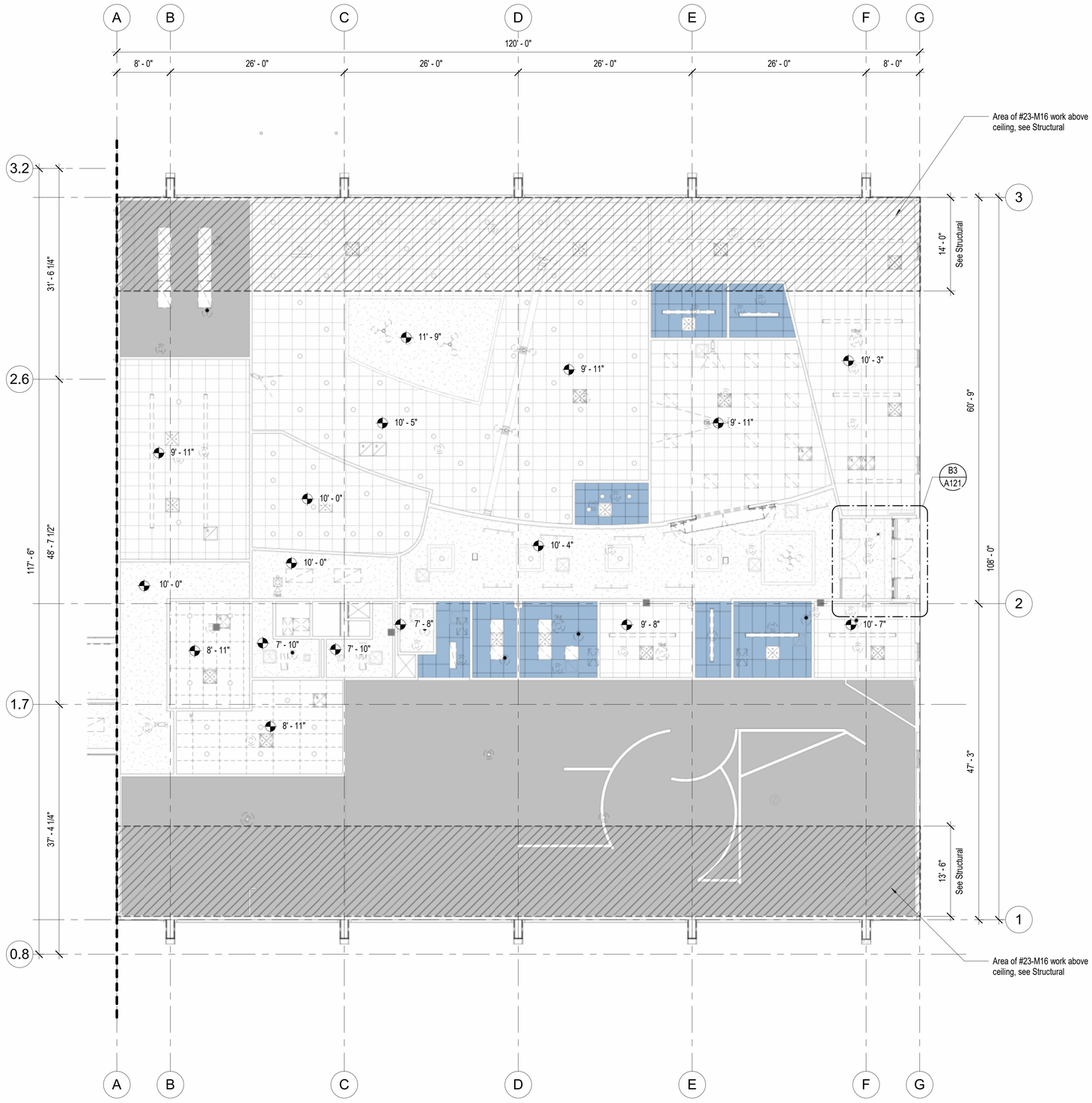
drawing name

Wall Sections

sheet number

A451

Conformed Documents



D5 Partial Demolition Reflected Ceiling Plan-Museum
1/8" = 1'-0"

North

Demolition Ceiling Plan Notes

1. The Contractor to coordinate demolition operations, schedule and sequencing with SPWD Project Managers, and Nevada Historical Society.
2. For purposes of Architectural work, all items not shown to be removed or altered on this sheet shall remain in its existing condition. Notify the Architect of any components which vary from those shown on the drawings.
3. The Contractor is to protect adjacent surfaces from damage. The Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent finishes. Contractor shall coordinate all types of protection systems with NHS Director prior to demolition work.
4. The Contractor will be responsible for setting the exact limits of demolition required in order to perform the work.
5. Dimensions are from face of finish, unless noted otherwise. Contractor to verify all necessary dimensions in order to execute the Work.
6. Remove accessories, board, nails, panels, signs etc. on interior walls to facilitate complete patching and painting of walls.
7. See Project Manual and Specifications for additional information and requirements.
8. See Structural drawings and Specifications for additional information and requirements.
9. See Mechanical drawings and Specifications for additional information and requirements.
10. See Plumbing drawings and Specifications for additional information and requirements.
11. See Electrical drawings and specifications for additional information and requirements.
12. Existing fire alarm system and fire suppression system to remain operational during construction.
13. Remove gypsum board at walls and ceilings as needed for installation of new equipment, conduit, etc. replace, patch and repair all removed gypsum board.

Demolition Ceiling Plan Legend

- Hatched area indicates #23-M16 Area of Work above, remove ceiling as indicated for work to be done, see Structural drawings.
- 2'x4' lay-in ceiling grid system to be removed in its entirety, see Mechanical and Electrical drawings for additional information
- 2'x2' lay-in ceiling grid system to be removed in its entirety, see Mechanical and Electrical drawings for additional information
- Existing insulation and paper scrim to be removed in its entirety, see Mechanical and Electrical drawings for additional information
- Existing gypsum board ceiling to remain unless otherwise noted, see Mechanical and Electrical drawings for additional information
- Remove lay-in tiles only, grid and support wires to remain, see Mechanical and Electrical drawings for additional information
- 2x4 light fixture, see Electrical drawings
- 2x2 light fixture, see Electrical drawings
- Utility strip light fixture, see Electrical drawings
- Wall sconce light fixture, see Electrical drawings
- Site pole light fixture, see Electrical drawings
- Pendant light fixture, see Electrical drawings
- Downlight light fixture, see Electrical drawings
- Light fixture track, see Electrical drawings
- Air supply register, see Mechanical drawings
- Air return grille, see Mechanical drawings
- S — Smoke detector, see Electrical drawings
- Fire sprinkler, see Fire Protection drawings

Conformed Documents

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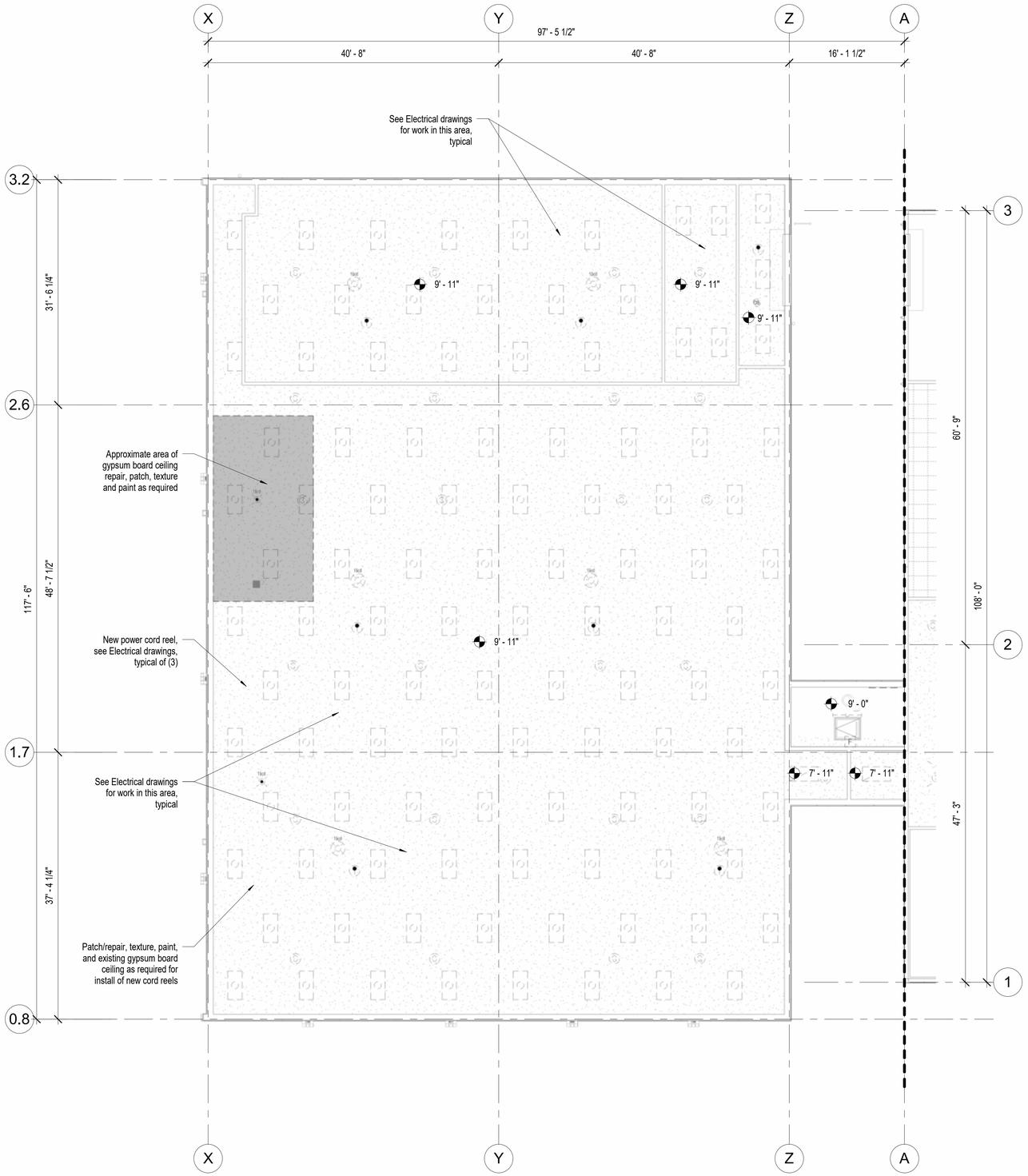
drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

drawing name

Partial Demolition Reflected Ceiling Plan - Museum

sheet number

A501



D5 Partial Demolition Reflected Ceiling Plan - Collections
1/8" = 1'-0"

North

Demolition Ceiling Plan Notes

1. The Contractor to coordinate demolition operations, schedule and sequencing with SPWD Project Managers, and Nevada Historical Society.
2. For purposes of Architectural work, all items not shown to be removed or altered on this sheet shall remain in its existing condition. Notify the Architect of any components which vary from those shown on the drawings.
3. The Contractor is to protect adjacent surfaces from damage. The Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent finishes. Contractor shall coordinate all types of protection systems with NHS Director prior to demolition work.
4. The Contractor will be responsible for setting the exact limits of demolition required in order to perform the work.
5. Dimensions are from face of finish, unless noted otherwise. Contractor to verify all necessary dimensions in order to execute the Work.
6. Remove accessories, board, nails, panels, signs etc. on interior walls to facilitate complete patching and painting of walls.
7. See Project Manual and Specifications for additional information and requirements.
8. See Structural drawings and Specifications for additional information and requirements.
9. See Mechanical drawings and Specifications for additional information and requirements.
10. See Plumbing drawings and Specifications for additional information and requirements.
11. See Electrical drawings and specifications for additional information and requirements.
12. Existing fire alarm system and fire suppression system to remain operational during construction.
13. Remove gypsum board at walls and ceilings as needed for installation of new equipment, conduit, etc. replace, patch and repair all removed gypsum board.

Demolition Ceiling Plan Legend

- Existing gypsum board ceiling to remain unless noted otherwise
- 2x4 light fixture, see Electrical drawings
- 2x2 light fixture, see Electrical drawings
- Utility strip light fixture, see Electrical drawings
- Wall sconce light fixture, see Electrical drawings
- Site pole light fixture, see Electrical drawings
- Pendant light fixture, see Electrical drawings
- Downlight light fixture, see Electrical drawings
- Light fixture track, see Electrical drawings
- Air supply register, see Mechanical drawings
- Air return grille, see Mechanical drawings
- S — Smoke detector, see Electrical drawings
- Fire sprinkler, see Fire Protection drawings

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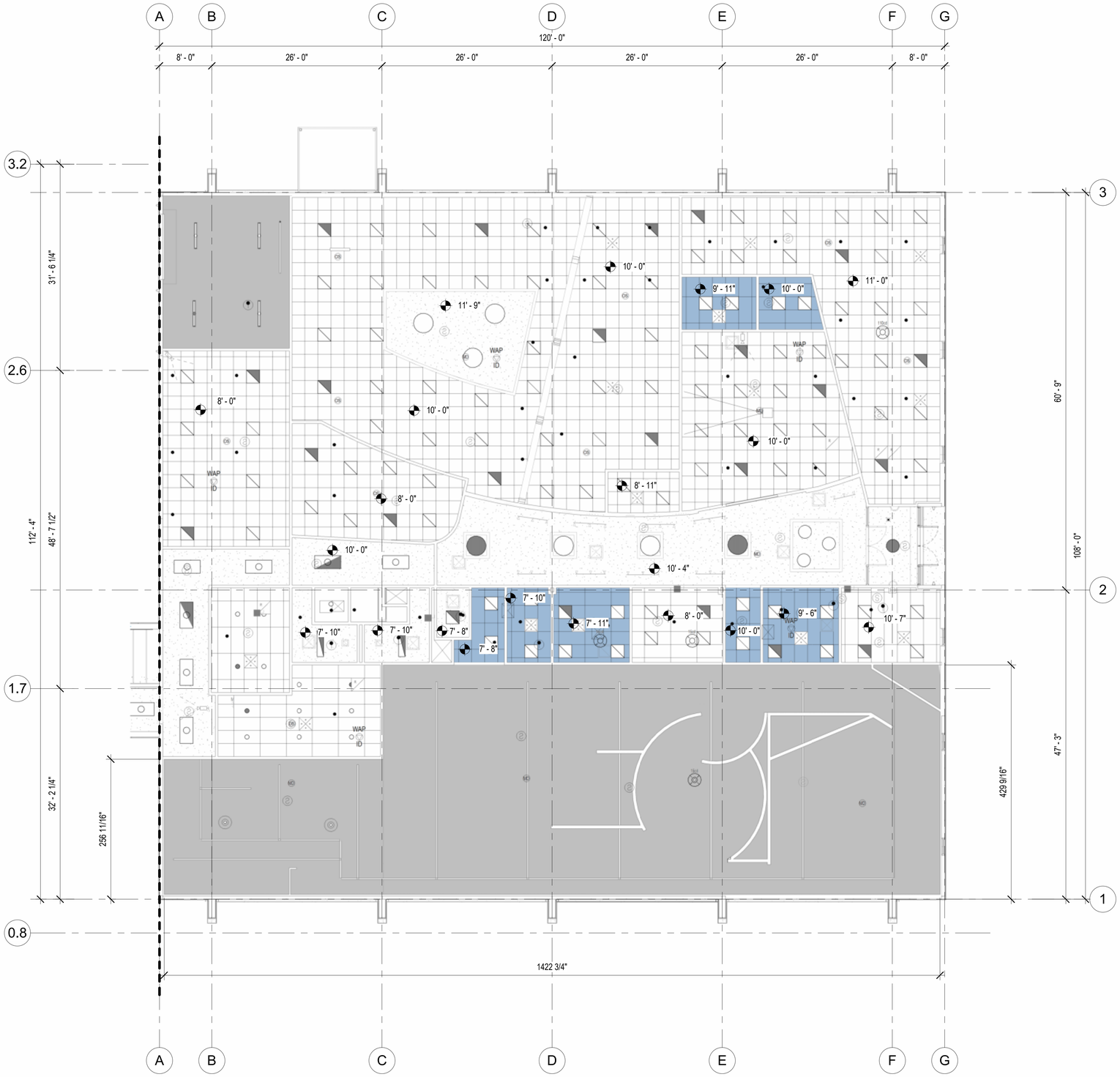
drawing name

Partial Demolition Reflected Ceiling Plan - Collections

sheet number

A502

Conformed Documents



D5 Partial Alteration Reflected Ceiling Plan-Museum
1/8" = 1'-0"

Reflected Ceiling Plan Notes

1. Contractor shall comply with IBC, local codes and manufacturers written instructions and recommendations for installation of lay-in ceiling.
2. See Project Manual and Specifications for additional information and requirements.
3. See Structural drawings and Specifications for additional information and requirements.
4. See Mechanical drawings and Specifications for additional information and requirements.
5. See Electrical drawings and Specifications for additional information and requirements.

Reflected Ceiling Plan Legend

- 8'-0" / 8'-0" — 2'x2' lay-in ceiling grid system, see Specifications, Mechanical and Electrical drawings for additional information; Ceiling Height, see Reflected Ceiling Plan; 2'x4' Second-look lay-in ceiling grid system, see Specifications, Mechanical and Electrical drawings for additional information
- 8'-0" — New OFCI acoustical tiles installed in existing lay-in grid system, see Plan for sizes and Specifications, Mechanical and Electrical drawings for additional information
- New black scrim-faced batt insulation pinned to underside of existing concrete roof assembly, see Specifications, Mechanical and Electrical drawings for additional information
- 2x4 light fixture, see Electrical drawings
- 2x2 light fixture, see Electrical drawings
- Utility strip light fixture, see Electrical drawings
- Wall sconce light fixture, see Electrical drawings
- Site pole light fixture, see Electrical drawings
- Pendant light fixture, see Electrical drawings
- Downlight light fixture, see Electrical drawings
- Light fixture track, see Electrical drawings
- R — Air supply register, see Mechanical drawings
- R — Air return grille, see Mechanical drawings
- S — Smoke detector, see Electrical drawings
- Fire sprinkler, see Fire Protection drawings

North

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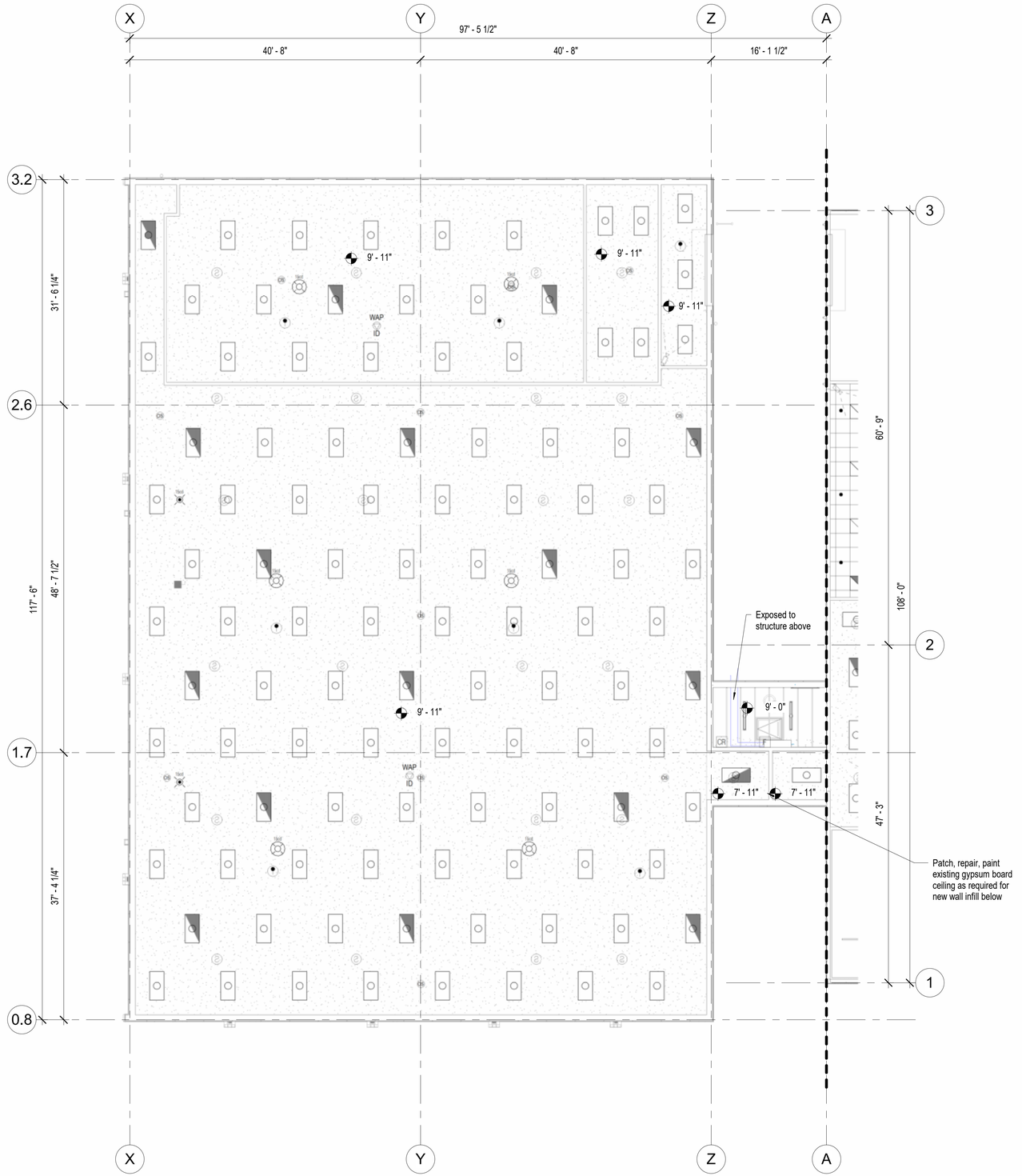
drawing name

Partial Alteration Reflected Ceiling Plan - Museum

sheet number

A511

Conformed Documents



D5 Partial Alteration Reflected Ceiling Plan - Collections
1/8" = 1'-0"

North

Reflected Ceiling Plan Notes

1. Contractor shall comply with IBC, local codes and manufacturers written instructions and recommendations for installation of lay-in ceiling.
2. See Project Manual and Specifications for additional information and requirements.
3. See Structural drawings and Specifications for additional information and requirements.
4. See Mechanical drawings and Specifications for additional information and requirements.
5. See Electrical drawings and Specifications for additional information and requirements.

Reflected Ceiling Plan Legend

- 2x4 light fixture, see Electrical drawings
- 2x2 light fixture, see Electrical drawings
- Wall sconce light fixture, see Electrical drawings
- Air supply register, see Mechanical drawings
- Air return grille, see Mechanical drawings
- S — Smoke detector, see Electrical drawings
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Nevada Historical Society Building, SPWD Site #9856, Building #0401
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

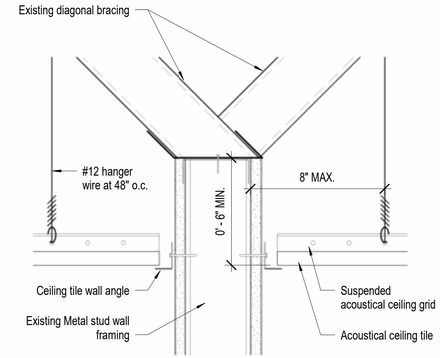
drawing name

Partial Alteration Reflected Ceiling Plan - Collections

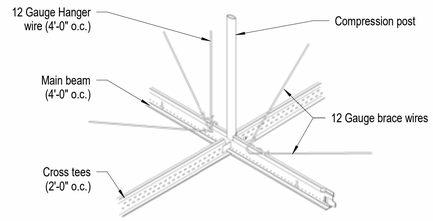
sheet number

A512

Conformed Documents



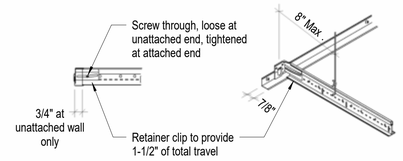
A2 Ceiling Tile at Partition
3" = 1'-0"



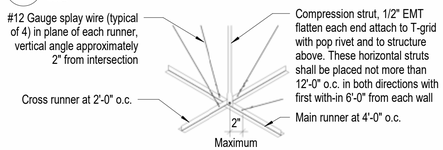
Bracing Note:
- Bracing wires to be attached a maximum of 45° to the plane of the ceiling and parallel to the components at the bracing point. Brace wires to be taut and tied both ends with (3) tight wraps

A1 Splay Wire Bracing and Compression Strut
3" = 1'-0"

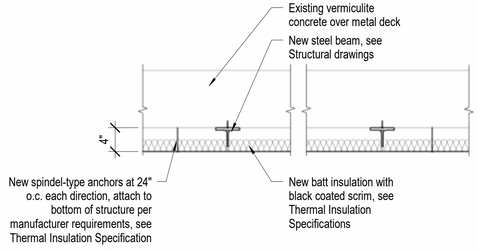
1. Wall angle shall be attached to grid at two adjoining walls of room and unattached to the opposite other two walls.
2. Terminal ends of each main beam and cross tee must be supported within 8 inches of each wall with a perimeter wire.
3. Retainer clip to be used at unattached walls. Use Armstrong Berc 2 clip or equal.
4. Retained clip can be used at attached walls or pop rivets at contractors option.



B1 Lay-In Ceiling Perimeter Trim
NTS



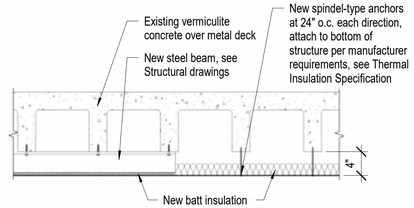
1. Ceiling area over 144 sf shall have splay wires installed at 12'-0" o.c. each way.
2. Typical splay wire to be 12 gauge steel wire attached to structure above and to grid with not less than four tight turns in 1/2".
3. Wall angle shall be attached to grid at 2 adjoining walls and unattached at other 2 walls.
4. Vertical hanger wires shall not be smaller than 12 gauge spaced at 4' o.c. Each vertical wire shall be attached to the ceiling suspension member and to the structure above with a minimum 3 turns. Suspension wires shall not hang more than 1 in 6 out of plumb unless counter-sloping wires are provided.
5. Perimeter Hangers: The terminal ends of each cross runner and main runner shall be supported independently at a maximum of 8" from each wall or ceiling discontinuity with 12 gauge wire.



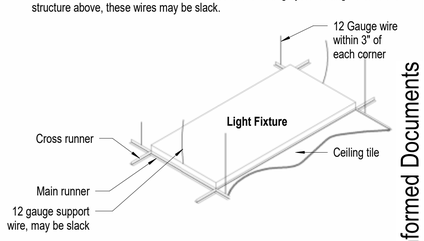
C2 Insulation at Wall Tie
1" = 1'-0"

C1 Lay-In Ceiling Seismic Requirements
NTS

1. Tandem fixtures may utilize common wires. Lighting fixtures weighing less than 56lbs shall have additional (2) 12 gauge hangers connected from the fixture to the structure above, these wires may be slack.
2. Mechanical services weighing less than 20 lbs shall be attached to the ceiling suspension main runners or to cross runners with the same carrying capacity as the main runners. Services weighing 21 to 56 lbs must have additional (2) 12 gauge wires connected from the terminal or service to the ceiling system hangers or to the structure above, these wires may be slack.



D2 Insulation at Wall Tile
1" = 1'-0"



D1 Lay-In Ceiling Lighting Seismic Requirements
NTS

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consultant

project

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drawing name

Ceiling Details

sheet number

A581

Door Hardware Groups

1. Door Hardware groups are as follows:

H1 - Uneven Double Flush Door

Qty.	Item	Description	Manufacturer	Finish
6	Hinges	BB1168 (4.5x4.5)	Hager	606
1	Exit Device (Active Leaf)	98/99	Von Duprin	606
2	Manual Flush Bolt	FB358 (T&B)	Ives	606
1	Dust Proof Strike	DP1	Ives	606
1	Astragal	357SP	Pemko	Steel, Galv.
1	Closer	4040 Parallell Arm/Stop	LCN	696 (Brass)
2	Silencer	1229A	Trimko	Black
2	Door Stop	WS402CCV	IVES	606

H2 - Card Reader at Existing HM Frame

Qty.	Item	Description	Manufacturer	Finish
1	Modify existing HM frame to accept new electric strike			
1	Lever Set	ND70PD RHO	Schlage	606
1	Electric Strike	8300	Hes	630
1	Card Reader	By others and coordinate with Electrical drawings		

H3 - Card Reader at Existing HM Frame

Qty.	Item	Description	Manufacturer	Finish
1	Modify existing HM frame to accept new electric strike			
1	Lever Set	ND70PD RHO	Schlage	606
1	Electric Strike	8300	Hes	630
1	Card Reader	By others and coordinate with Electrical drawings		
1	Closer	4040XP	LCN	696 (Brass)

H4 - Push Plate Assist at HM Frame

Qty.	Item	Description	Manufacturer	Finish
2	Hinges-Full Length Gear	FM	Pemko	(C)
2	Power Transfer	EPT-10 CON	IVE	606
1	Electric Exit Device	QEL-RX-98-L 06 CON	Von Duprin	606
1	Exit Device	98-L 06	Von Duprin	606
1	Keyed Mullion	KR4954	Von Duprin	606
2	LVIC Rim Housings	20-057	Schlage	606
1	LFIC Mortise Housing	20-061	Schlage	606
2	Permanent Cores	Furnished by Owner		
1	Card Reader	See Electrical drawings		
2	ADA Wave Operator	CM-330	Camden Door Controls	Stainless
1	Electric Strike	8300	HES	630
1	Automatic Operator	8200	record-usa	Clear Anodic
1	Closer	4040XP SCUSH	LCN	622
1	Door Seals	700ENDKB	NGP	
1	Threshold (ADA)	613DKB 72"	NGP	
2	Door Shoes	35VDKB 36"	NGP	
1	Mullion Seal	5100N 86"	NGP	

H5 - Push Plate Assist at Existing HM Frame

Qty.	Item	Description	Manufacturer	Finish
1	Automatic Operator	8200	record-usa	Clear Anodic
2	Existing Exit Devices to remain and dogged in unlocked position			
1	Closer (Non-Assist Side)	4040XP	LCN	696 (Brass)
2	ADA Wave Operator	CM-330	Camden Door Controls	Stainless

H6 - Card Reader at New HM Frame

Qty.	Item	Description	Manufacturer	Finish
3	Hinges	BB1168 NRP (4.5x4.5)	Hager	606
1	Lever Set	ND70PD RHO	Schlage	606
1	Card Reader	See Electrical drawings		
1	Electric Strike	5200	HES	630
1	Closer	4040XP	LCN	696 (Brass)
1	Door Seals	S88BL	Pemko	Black
1	Door Stop	WS402CCV	IVES	US26D

H7 - Push Plate Assist and Card Reader at Existing HM Frame

Qty.	Item	Description	Manufacturer	Finish
1	Exit Device	98CX (Chexit)	Von Duprin	606
2	Card Reader	See Electrical drawings		
2	ADA Push Plates	See Electrical drawings		
1	Electric Strike	9600	HES	630
1	Automatic Operator	M-Force	Stanley	Clear Anodic

H8 - Card Reader at Existing Pair Doors

Qty.	Item	Description	Manufacturer	Finish
3	Hinges	BB1168 (4.5x4.5)	Hager	606
3	Hinges (Active Leaf)	BB1168 ETM	Hager	606
1	Lever Set	ND82LD RHO	Schlage	606
2	Card Reader	See Electrical drawings		
1	Electric Strike	5200	HES	630
1	Closer (Active Leaf)	4040XP	LCN	696 (Brass)
2	Manual Flush Bolt	FB358 (T&B)	Ives	606
1	Dust Proof Strike	DP1	Ives	606
1	Astragal	357SP	Pemko	Steel, Galv.
1	Door Seals	S88BL	Pemko	Black
1	Door Stop	WS402CCV	IVES	US26D

2. All locksets to use cylindrical type cylinders.

3. Keying shall be coordinated with the Nevada Historical Society building maintenance staff and the SPWD Project Manager.

4. All exterior thresholds to be set in full bed of sealant.

5. Verify all metal frame dimensions and conditions in the field prior to shop drawings and submittals.

6. Repair all existing door frames to remain. Weld, bondo, clean, etc. as needed for installation of new doors and hardware.

Door Schedule

Door Number	Door: Size (width x height)	Door: Pair	Door: Material	Door: Type	Door: Glass	Frame: Material	Frame: Size	Frame: Type	Frame: Glass	Details: Head	Details: Strike	Details: Hinge	Details: Sill	Label	Hardware Group	Remarks
100A	6' - 0" x 7' - 7"	X	HM	DG	T/G1	HM	2"	3						-	H4	
100B	6' - 0" x 7' - 7"	X	(E) HM	DG	T/G1	(E) HM	-	-		-	-	-	-	-	H5	Existing frame and doors to remain, new hardware
102A	3' - 0" x 6' - 8"		(E) SC-WV	F	-	(E) HM	-	-		-	-	-	-	-	H2	Existing frame and door to remain, new hardware and card reader
102B	3' - 0" x 6' - 8"		(E) SC-WV	F	-	(E) HM	-	-		-	-	-	-	-	H2	Existing frame and door to remain, new hardware and card reader
103A	3' - 0" x 6' - 8"		(E) SC-WV	F	-	(E) HM	-	-		-	-	-	-	-	H3	Existing frame and door to remain, new hardware, closer and card reader
105	6' - 0" x 7' - 0"	X	SC-WV	UDF	-	HM	2"	2		C1/A603	C2/A603	D3/A603	D1/A603	-	H1	4'-0" Wide active leaf, 2'-0" wide inactive leaf
106	3' - 0" x 7' - 0"		(E) HM	F		(E) HM	-	-		-	-	-	-	-	H7	Existing frame and door to remain, new hardware and card reader
110A	4' - 0" x 7' - 0"		(E) SC-WV	(E)	-	(E) HM	-	-		-	-	-	-		H2	Existing frame and door to remain, new hardware and card reader
111B	3' - 0" x 6' - 8"		SC-WV	F	-	(E) HM	-	-		-	-	-	-	-	H2	Existing frame to remain, new door panel, new hardware and card reader
127B	4' - 0" x 7' - 0"		SC-WV	F	-	HM	2"	1		C1/A603	D2/A603	D3/A603	-	20	H6	New frame, door, hardware and card reader
128	3' - 0" x 6' - 8"		(E) HM	F	-	(E) HM	-	-		-	-	-	-	-	H2	Existing frame and door to remain, new hardware and card reader
131	3' - 0" x 7' - 0"	X	SC-WV	DF	-	(E) HM	-	-		-	-	-	-	-	H8	Existing frame to remain, new door panel, new hardware and card reader
132	3' - 0" x 7' - 0"	X	SC-WV	DF	-	(E) HM	-	-		-	-	-	-	-	H8	Existing frame to remain, new door panel, new hardware and card reader

Glazing and Door Schedule Legend

(e)	-	Existing	SC	-	Solid core
HM	-	Hollow metal	ST	-	Steel
P	-	Painted	WV	-	Wood veneer
T	-	Tempered	G1	-	1" Insulated glazing, Solar Ban 70

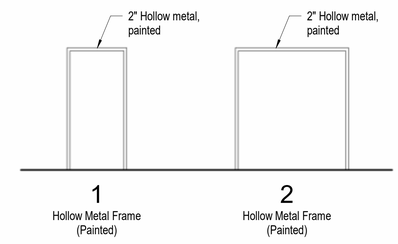
Door Notes

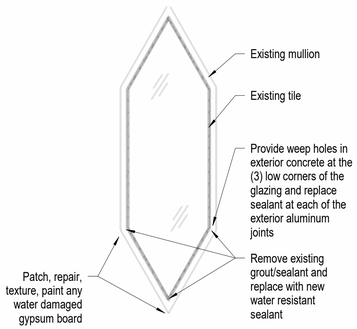
1. See Specifications for additional information and requirements.
2. The hardware supplier shall coordinate cores and keying with the client building staff.
3. All new doors and hardware shall meet current ADA and ANSI standards.

Door Types

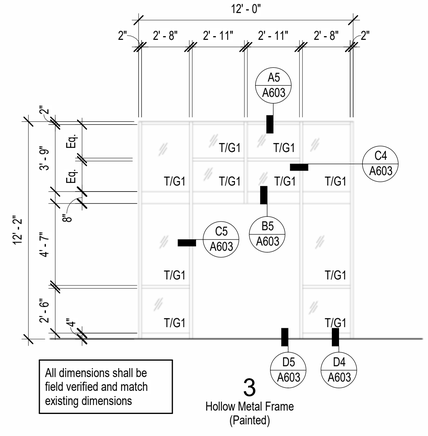


Frame Types





D4 Typical Exterior Window Elevation (View Inside)
1/2" = 1'-0"



3 Hollow Metal Frame (Painted)

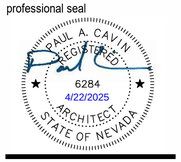
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project

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Door and Window Schedules

sheet number

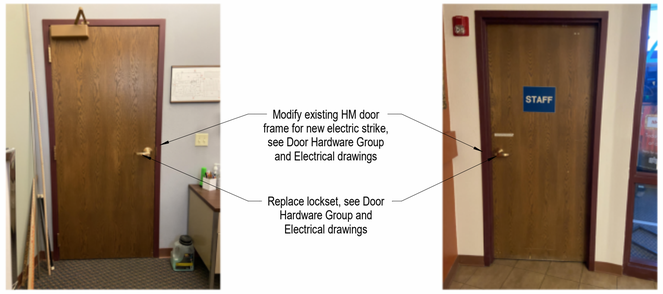
A601

Conformed Documents



A4 Door 100B
12" = 1'-0"





B4 Door 102A
12" = 1'-0"



B2 Door 102B
12" = 1'-0"



C4 Door 103A
12" = 1'-0"



C2 Door 106
12" = 1'-0"



D4 Door 110A
12" = 1'-0"



D2 Door 111B
12" = 1'-0"

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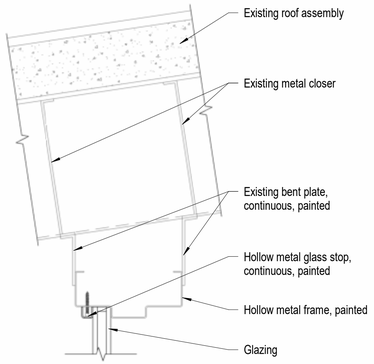
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date	4/23/25
project number	23035

drawing name

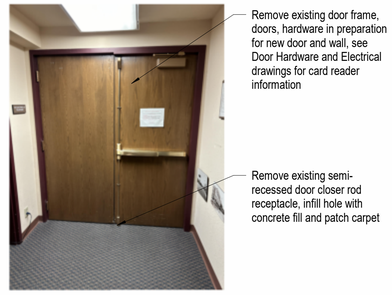
Door Existing Photos

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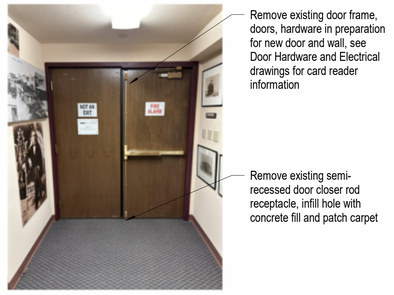
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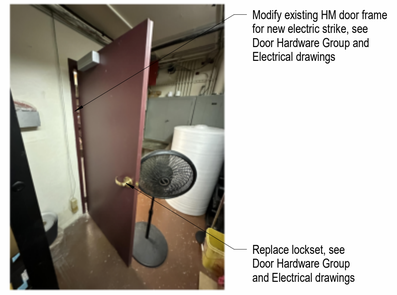


A5 Hollow Metall Frame Glazing Head
3" = 1'-0"

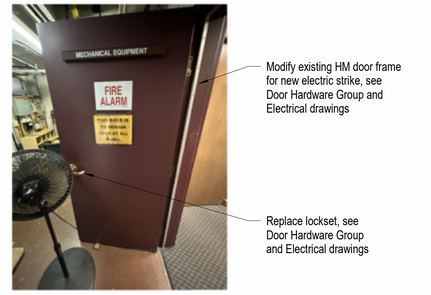


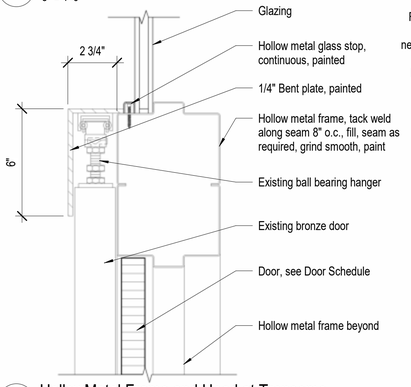
A4 Door 127B
12" = 1'-0"



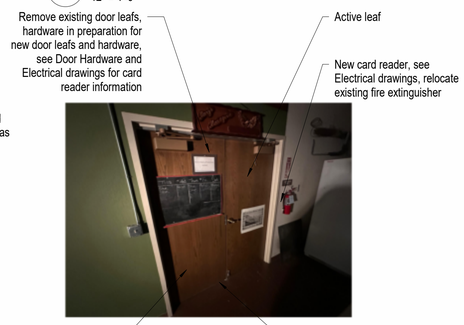


A2 Door 128
12" = 1'-0"



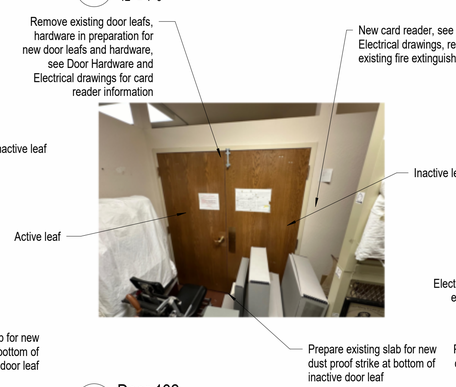


B5 HollowMetal Frame and Head at Transome
3" = 1'-0"

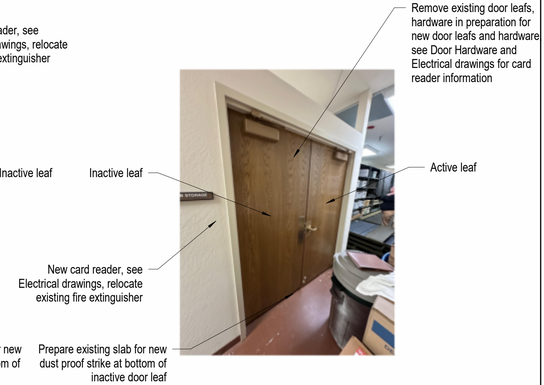


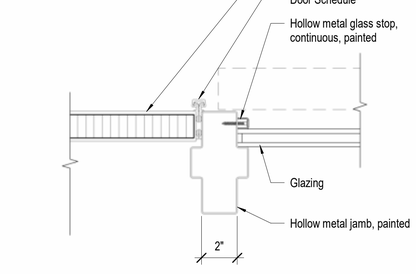
B4 Door 131
12" = 1'-0"



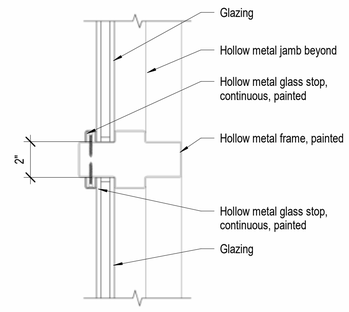


B2 Door 132
12" = 1'-0"

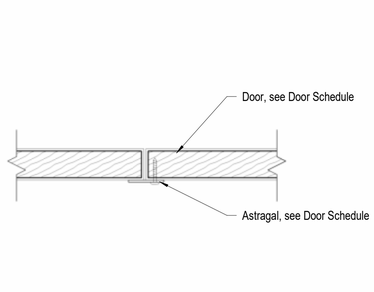




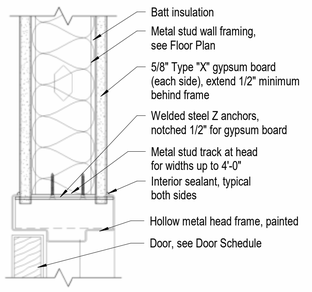
C5 Hollow Metal Frame at Sidelite
3" = 1'-0"



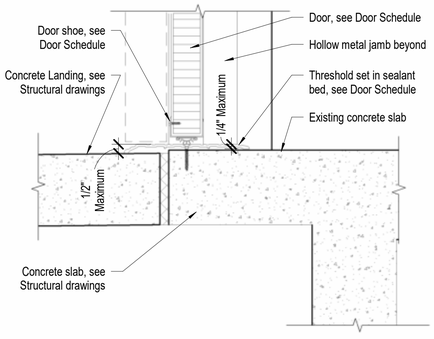
C4 Hollow Metal Frame Glazing Mullion
3" = 1'-0"



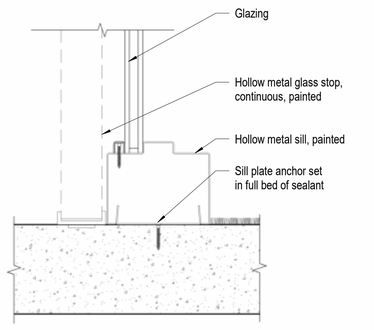
C2 Wood Door - Strike
3" = 1'-0"



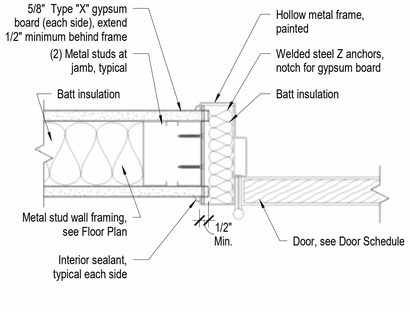
C1 Hollow Metal Door Frame - Head
3" = 1'-0"



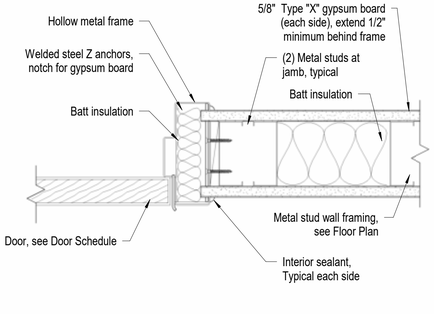
D5 Exterior Vestibule Threshold
3" = 1'-0"



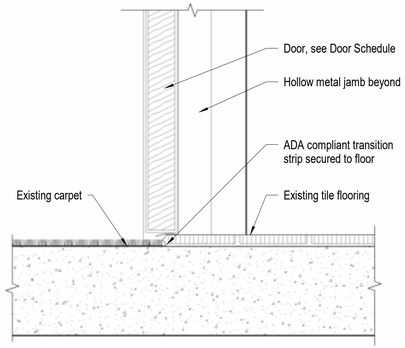
D4 Sill Detail
3" = 1'-0"



D3 Hollow Metal Door Frame - Hinge
3" = 1'-0"



D2 Hollow Metal Door Frame - Strike
3" = 1'-0"



D1 Door Threshold Tile/Carpet
3" = 1'-0"

Conformed Documents

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PAUL A. CAVIN REGISTERED 6284 4/22/2025 ARCHITECT STATE OF NEVADA

consultant

project

Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
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SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building, SPWD Site #9856, Building #0401
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

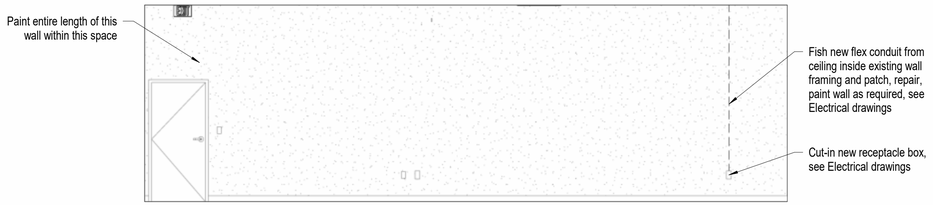
drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

drawing name

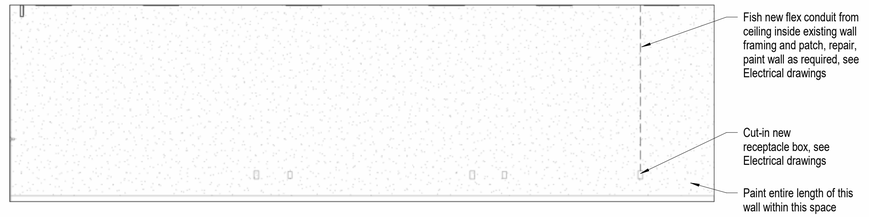
Door Existing Photos and Door Details

sheet number

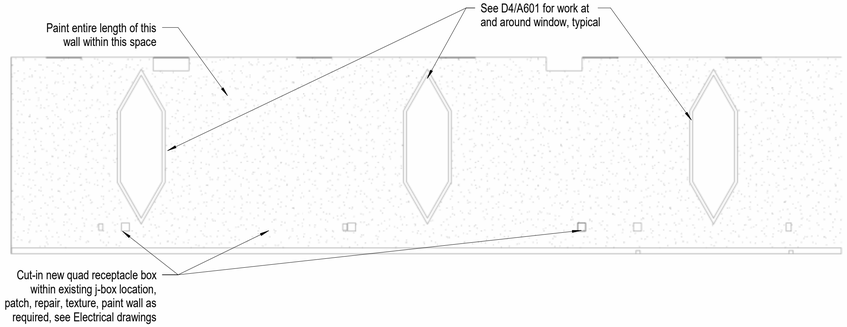
A603



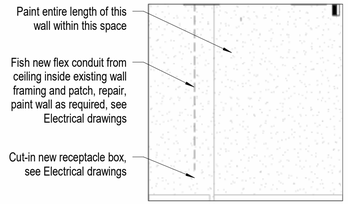
A4 Open Office - 102 - North
1/4" = 1'-0"



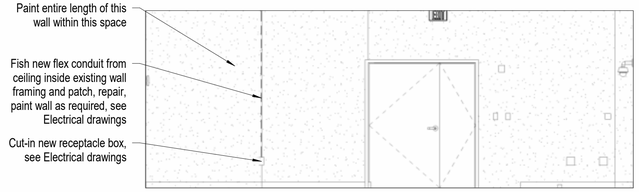
A2 Open Office - 102 - East
1/4" = 1'-0"



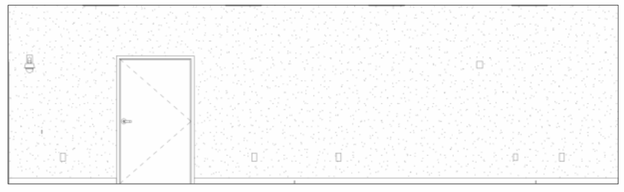
B5 Open Office - 102 - South
1/4" = 1'-0"



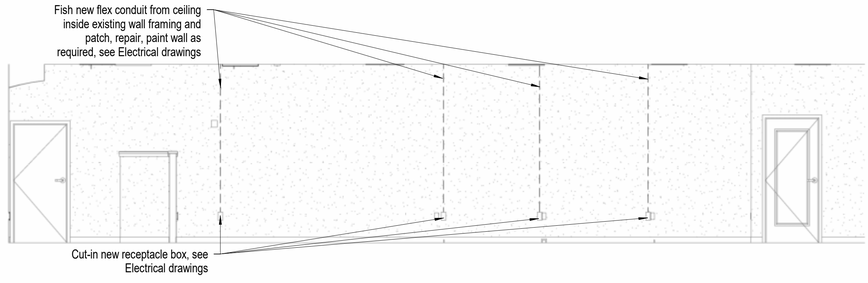
B3 Open Office - 102 - West
1/4" = 1'-0"



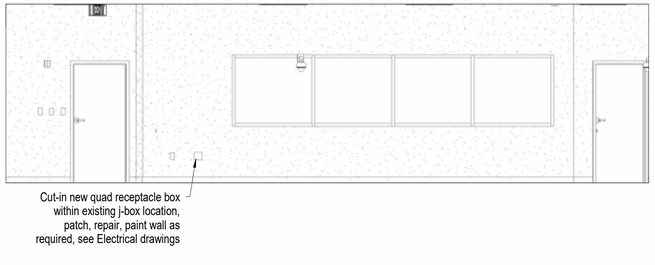
B2 Event Space - 105 - West
1/4" = 1'-0"



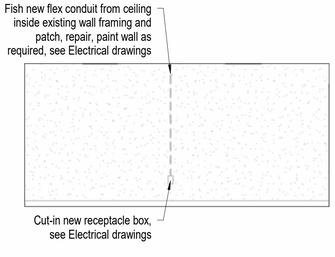
C4 Research Library - 106 - North
1/4" = 1'-0"



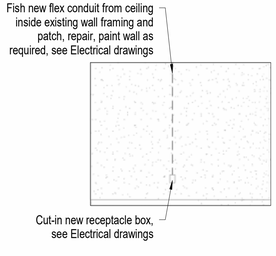
C2 Research Library - 106 - South
1/4" = 1'-0"



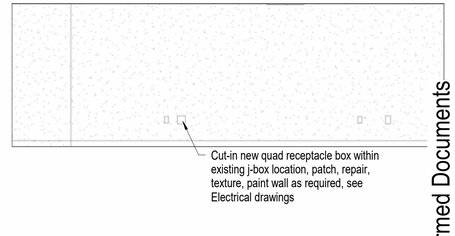
D5 Research Library - 106 - West
1/4" = 1'-0"



D3 Library Office - 108 - North
1/4" = 1'-0"



D2 Library Office - 108 - South
1/4" = 1'-0"



D1 Library Office - 108 - West
1/4" = 1'-0"

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revisions

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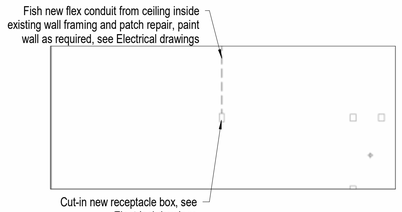
drawn by	JAP
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project number	23035

drawing name

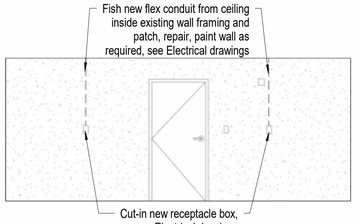
Interior Elevations

sheet number

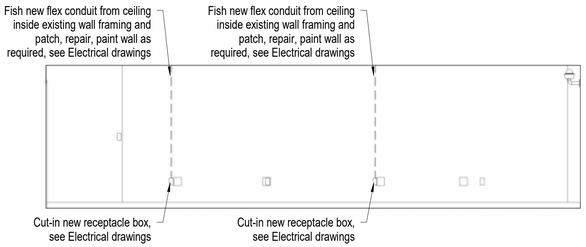
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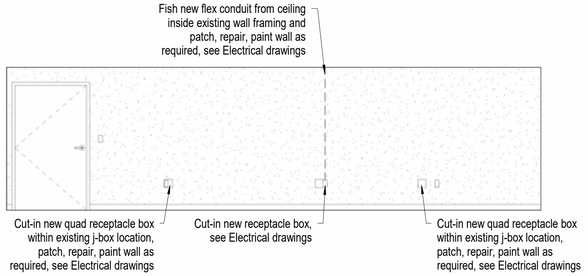
A2 Storage - 109 - East
1/4" = 1'-0"



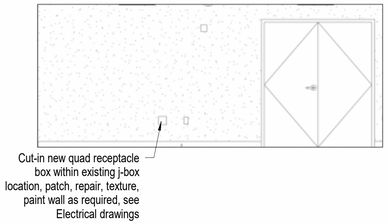
A1 Storage - 109 - West
1/4" = 1'-0"



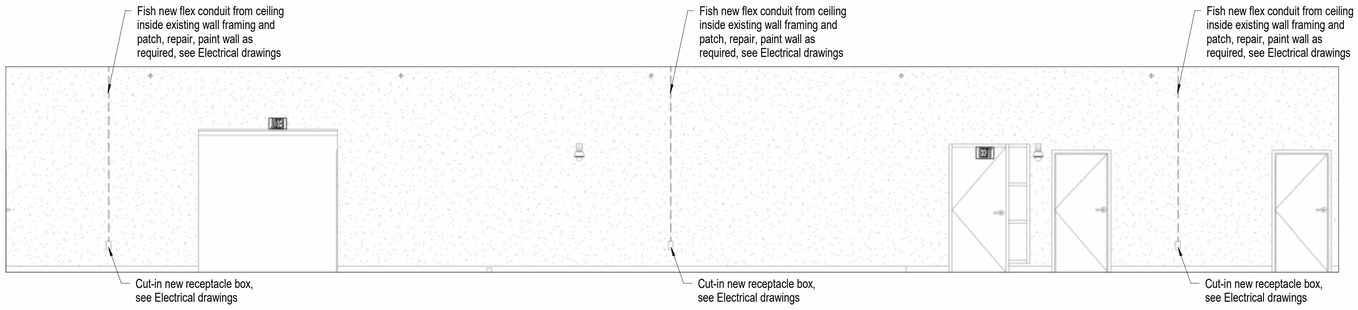
B5 Work Room - 110 - North
1/4" = 1'-0"



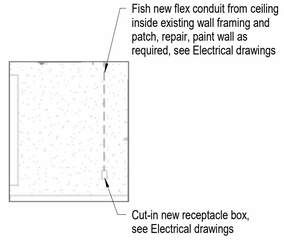
B3 Work Room - 110 - South
1/4" = 1'-0"



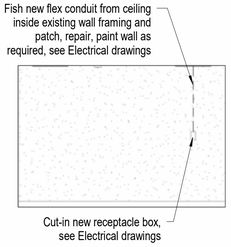
B1 Work Room - 110 - West
1/4" = 1'-0"



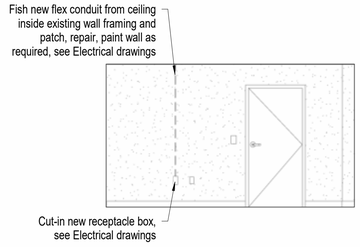
C5 Exhibit Hall - 117 - East
1/4" = 1'-0"



C1 Media Storage - 118 - West
1/4" = 1'-0"



D2 Lounge - 119 - West
1/4" = 1'-0"



D1 Store - 120 - East
1/4" = 1'-0"

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revisions

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drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

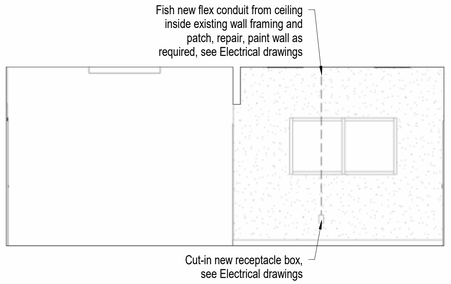
drawing name

Interior Elevations

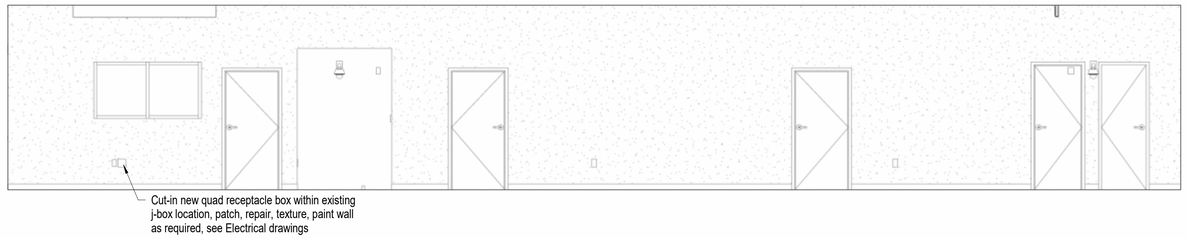
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A752

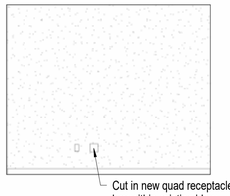
Conformed Documents



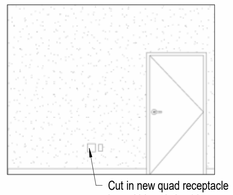
A4 Hall - 121 - South
1/4" = 1'-0"



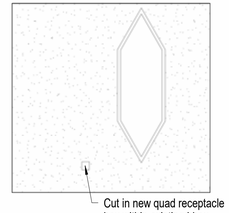
A3 Hall - 121 - West
1/4" = 1'-0"



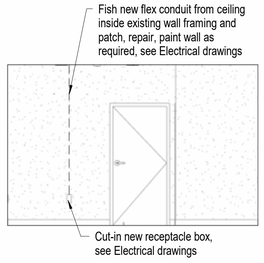
B3 Administrative Office - 122 - South
1/4" = 1'-0"



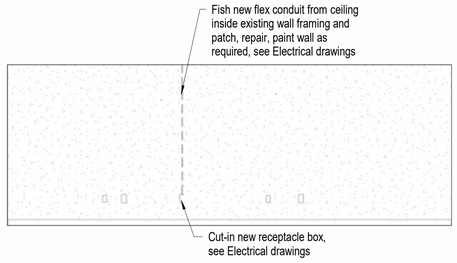
B2 Administrative Office - 122 - West
1/4" = 1'-0"



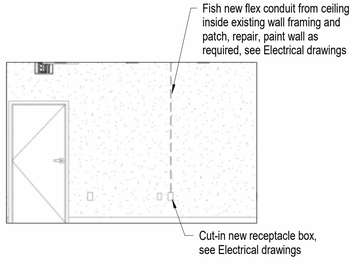
B1 Director Office - 123 - South
1/4" = 1'-0"



C3 Photographs - 125 - North
1/4" = 1'-0"



C2 Photographs - 125 - West
1/4" = 1'-0"



C1 Photographs - 125 - South
1/4" = 1'-0"

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revisions

No.	Description	Date

drawn by	JAP
reviewed by	PAC
date	4/23/25
project number	23035

drawing name

Interior Elevations

sheet number

A753

Conformed Documents

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D2 Sink Base and Upper Cabinet Section
1" = 1'-0"

D1 Base and Upper Cabinet Section
1" = 1'-0"

Conformed Documents

revisions

No.	Description	Date

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reviewed by	PAC
date	4/23/25
project number	23035

drawing name

Casework Elevations, Sections & Details

sheet number

A801

STRUCTURAL DESIGN CRITERIA

CODE:
2018 INTERNATIONAL BUILDING CODE (IBC) & INTERNATIONAL EXISTING BUILDING CODE (IEBC)
STRUCTURAL RISK CATEGORY II (NORMAL OCCUPANCY)

SEISMIC LOADS:

Ss:	1.482
S1:	0.524
SITE CLASS:	D
Sds:	1.000
Sd1:	0.621
Ie:	1.000
SEISMIC DESIGN CATEGORY:	D

SOILS:

IBC TABLE 1806.2:	CLASS 4 MATERIALS ASSUMED
SOIL BEARING PRESSURE:	1500 PSF

GENERAL

A. THESE GENERAL NOTES APPLY TO ALL WORK SHOWN IN THE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR AND ALL INVOLVED PARTIES SHALL BE DIRECTLY RESPONSIBLE FOR READING AND COMPLYING WITH ALL INFORMATION PROVIDED IN THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.

B. THE CONTRACTOR SHALL COMPLY WITH ALL GENERAL NOTES AND TYPICAL DETAILS SHOWN IN THE DRAWINGS, WHETHER OR NOT SPECIFIC FLAGGING OR REFERENCE HAS BEEN MADE TO THE APPLICABLE GENERAL NOTE OR TYPICAL DETAIL. PROJECT SPECIFIC NOTES AND DETAILS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

C. ALL WORK SHALL COMPLY WITH THE MINIMUM STANDARDS OF THE CURRENT ADOPTED BUILDING CODE, THE LATEST EDITION OF ASTM OR OTHER INDUSTRY STANDARDS REFERENCED, AND ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS AND REGULATIONS. FOR ITEMS, METHODS, AND/OR MATERIALS NOT SHOWN, ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE REGULATING AGENCIES THAT HAVE AUTHORITY OVER SUCH PORTIONS OF WORK.

D. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PREPARATION AND EXECUTION OF A SAFETY PROGRAM AND DESIGN AND INSTALLATION OF BRACING, SHORING, FORMS AND SCAFFOLDING. THE CONTRACTOR SHALL RETAIN ITS OWN ENGINEER WHERE REQUIRED FOR MEANS AND METHODS AS WELL AS ANY OTHER DELEGATED DESIGN ITEMS.

E. THE CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, ELEVATIONS, GRADES AND CONDITIONS WITH ARCHITECTURAL AND OTHER DRAWINGS (I.E. CIVIL, MECHANICAL, PLUMBING, ELECTRICAL, ETC.) PRIOR TO CONSTRUCTION. THE ARCHITECT AND ENGINEER (A/E) SHALL BE NOTIFIED OF ANY DISCREPANCIES, OMISSIONS OR INCONSISTENCIES SO REVISIONS OR CLARIFICATIONS CAN BE MADE WHERE NECESSARY.

F. IN THE EVENT EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT FROM THOSE SHOWN IN THE DRAWINGS, THE A/E SHALL BE NOTIFIED SO REVISIONS OR CLARIFICATIONS CAN BE MADE WHERE NECESSARY.

G. NO CHANGES OR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS WILL BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE A/E. ANY DESIRED CHANGES OR DEVIATIONS SHALL BE PRESENTED TO THE A/E FOR REVIEW WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.

H. DO NOT SCALE THE DRAWINGS. DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SCALE ACCURATELY. STRUCTURAL DRAWINGS AND GRAPHICS ARE INTENDED TO BE VIEWED AND PRINTED IN COLOR; PRINTING OR VIEWING IN BLACK-AND-WHITE IS NOT RECOMMENDED.

I. THE CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR COORDINATING THE FOLLOWING TYPES OF ITEMS WHICH ARE TYPICALLY SHOWN ON ARCHITECTURAL DRAWINGS: SIZES AND LOCATIONS OF WINDOW AND DOOR OPENINGS, CONCRETE CURBS, FLOOR DRAINS AND DEPRESSED SLAB AREAS, FLOOR AND INTERIOR OR EXTERIOR NON-STRUCTURAL WALLS PARTITIONS, ETC.

J. THE CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR COORDINATING THE FOLLOWING TYPES OF ITEMS WHICH ARE TYPICALLY SHOWN ON MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS: SIZES AND LOCATIONS OF MECHANICAL EQUIPMENT, DUCTWORK RUNS, CONDUIT OR CABLE TRAY RUNS, PIPE RUNS, AND ALL ASSOCIATED SLEEVES, PENETRATIONS, OPENINGS, HANGERS, INSERTS, ETC.

K. THE CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR COORDINATING THE STRUCTURE (I.E. LOWERING FOOTINGS, ETC.) TO WORK WITH GRADES WHICH ARE TYPICALLY SHOWN ON ARCHITECTURAL OR CIVIL DRAWINGS. THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR DAMAGE TO THE STRUCTURE, OR ADDITIONAL CONSTRUCTION COSTS CAUSED BY, LACK OF SUCH COORDINATION OR MISREPRESENTATIONS OF THE RELATIVE POSITION OF THE STRUCTURE WITH RESPECT TO GRADES ON THE BUILDING SITE.

DEMOLITION NOTES

A. SAFETY NOTE:
1. THE CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE AND NATIONAL CONSTRUCTION SAFETY STANDARDS AND REQUIREMENTS.
2. THE A/E AND OWNER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH ANY SUCH REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL FORMWORK, BRACING AND SHORING REQUIRED.

B. SHORE OR BRACE THE STRUCTURE (BEAMS, COLUMNS, WALLS, ETC.) AS REQUIRED TO MAINTAIN STABILITY OF THE EXISTING STRUCTURE PRIOR TO DEMOLITION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING AND BRACING FOR ALL LOADS IMPOSED DURING AND AFTER DEMOLTION AND THROUGH COMPLETION OF THE NEW CONSTRUCTION.

C. ALL DIMESIONS GIVEN TO EXISTING STRUCTURE ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. WHERE ACTUAL CONDITIONS DEVIATE FROM DETAILS SHOWN ON THE DRAWINGS, NOTIFY THE A/E FOR INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK.

D. ANY CONFLICTING ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE A/E PRIOR TO FURTHER DEMOLITION.

E. DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION SHALL BE MADE IN SUCH A MANNER AS TO AVOID DAMAGE TO ADJACENT CONSTRUCTION.

PENETRATIONS & POST-INSTALLED ANCHORS

A. OPENINGS, POCKETS, HOLES, CANS, ETC. SHALL NOT BE PLACED IN ANY SLAB, BEAM, COLUMN, WALL, OR OTHER STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR WRITTEN PERMISSION IS OBTAINED FROM THE A/E.

B. DO NOT OVERCUT AT CORNERS WHEN CUTTING A NEW OPENING IN EXISTING CONCRETE OR MASONRY; CORE DRILL, CHIP AND GRIND AS REQUIRED AT CORNERS. A LAYOUT OF ALL PROPOSED OPENINGS SHALL BE REVIEWED BY THE A/E PRIOR TO ANY PENETRATION ACTION.

C. UTILIZE CURRENT TECHNOLOGY DETECTION EQUIPMENT TO LOCATE OBSTACLES (REBAR, CONDUITS, ETC.) WITHIN CONCRETE (FLOORS, WALLS, ROOFS, ETC.) AT EVERY LOCATION WHERE CONCRETE IS TO BE PENETRATED (DRILLING, SAWING, CORING, ETC.) WHEN OBSTACLES ARE IDENTIFIED PROVIDE RESULTS TO THE A/E AT LEAST 48 HOURS PRIOR TO THE PENETRATION ACTION SO APPROPRIATE DIRECTION MAY BE PROVIDED. ANY OBSTACLES DAMAGED WITHOUT PRIOR APPROVAL OF THE A/E SHALL BE REPAIRED IN A MANNER ACCEPTABLE TO THE A/E AT THE CONTRACTOR'S EXPENSE.

D. EXPANSION ANCHORS SHALL BE AS SPECIFIED. USE SIMPSON "STRONG-BOLT 2"; HILTI "KWIK BOLT 3"; HILTI "KB-TZ"; OR APPROVED EQUAL. PERIODIC SPECIAL INSPECTION REQUIRED.

E. EPOXY/ADHESIVE ANCHORS SHALL BE AS SPECIFIED. USE SIMPSON "SET-3G"; SIMPSON "AT-3G"; HILTI "HIT-RE 500 V3"; HILTI "HIT-HY 200 V3"; OR APPROVED EQUAL. PERIODIC SPECIAL INSPECTION REQUIRED. ANCHORS SHALL BE BARE, CLEAN, ALL-THREAD ROD CONFORMING TO ASTM A36, A307 OR F1554.

F. HEAVY DUTY SCREW ANCHORS SHALL BE AS SPECIFIED. USE SIMPSON "TITEN HD"; HILTI "KWIK HUS-EZ"; OR APPROVED EQUAL. PERIODIC SPECIAL INSPECTION REQUIRED. HEAVY DUTY SCREW ANCHORS SHALL NOT BE USED IN CONDITIONS SUBJECT TO PERMANENT EXTERIOR EXPOSURE UNLESS THEY ARE STAINLESS STEEL.

G. ALL POWDER ACTUATED FASTENERS (SHOT PINS) SHALL BE HILTI OR APPROVED EQUAL. REFER TO TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

H. FASTENERS AND ANCHORS USED IN CONDITIONS SUBJECT TO PERMENANT EXTERIOR EXPOSURE SHALL BE GALVANIZED OR STAINLESS STEEL, TYP. U.N.O.

I. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ALL CURRENT EVALUATION REPORT AND MANUFACTURER RECOMMENDATIONS AND SPECIAL INSPECTION SHALL BE PROVIDED WHERE REQUIRED.

J. WHERE POST-INSTALLED ANCHORS ARE TO BE USED, IT SHALL BE THE CONTRACTOR'S DIRECT RESPONSIBILITY TO COORDINATE THE LOCATIONS OF REINFORCING STEEL OR OTHER SIMILARLY EMBEDDED ITEMS TO WORK WITH POST-INSTALLED ANCHORS AND TO AVOID CONFLICTS WHEN DRILLING HOLES, ETC.

CAST-IN-PLACE CONCRETE

A. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ACI MANUAL OF CONCRETE PRACTICE. CONCRETE MIX DESIGNS SHALL BE IN ACCORDANCE WITH ASTM C-94 AS FOLLOWS:

1. EXTERIOR CONCRETE: F'c = 4500 PSI AT 28-DAYS, 3/4" NORMAL WEIGHT AGGREGATE, 0.45 MAXIMUM W/C RATIO, 6% +/- 1% ENTRAINED AIR. EXTERIOR CONCRETE SHALL CONTAIN 1.5 LB/CY OF FIBERMESH STEALTH POLYPROPYLENE FIBERS OR APPROVED EQUAL.

B. ALL CONCRETE MIXES SHALL UTILIZE ASTM C150 TYPE II LOW ALKALI CEMENT. ASTM C618 CLASS F FLY ASH OR APPROVED NATURAL POZZOLAN MAY BE UTILIZED FOR UP TO 25% CEMENT REPLACEMENT AT THE CONTRACTOR'S OPTION.

C. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33 AND LIGHTWEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. ALL AGGREGATE SHALL BE FROM APPROVED SOURCES AND FREE OF DELETERIOUS MATERIALS.

D. CONCRETE SLUMP SHALL NOT EXCEED 3" WHEN TESTED IN ACCORDANCE WITH ASTM C143 FOR HORIZONTAL MEMBERS SUCH AS FOOTINGS, SLABS, AND BEAMS OR 4" FOR VERTICAL MEMBERS SUCH AS WALLS AND COLUMNS. CONCRETE SHALL BE PLACED AT THE MINIMUM PRACTICAL SLUMP, NOT EXCEEDING THE SPECIFIED MAXIMUM SLUMP. IF ADDITIONAL WORKABILITY AND SLUMP IS DESIRED, IT MAY BE OBTAINED WITH APPROVED ADMIXTURES THAT DO NOT INCREASE WATER CONTENT, SHRINKAGE, OR ADVERSELY AFFECT THE CONCRETE.

E. ALL NON-SHRINK GROUT AND DRYPACK SHALL BE A PREMIXED, NON-METALLIC, SHRINKAGE COMPENSATING, NON-STAINING FORMULA WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 3 DAYS AND 7000 PSI AT 28 DAYS. GROUT SHALL BE MIXED AND PLACED PER ALL MANUFACTURER REQUIREMENTS IN A FLOWABLE OR PACKABLE STATE AS REQUIRED BY THE CONDITIONS OF INSTALLATION. USE MASTER BUILDERS 'CONSTRUCTION GROUT' OR APPROVED EQUAL.

F. REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60, ALL BARS TO BE WELDED SHALL BE ASTM A706. ALL WELDING SHALL CONFORM TO AWS D1.4 AND ALL WELDING SHALL BE PERFORMED BY APPROPRIATELY CERTIFIED WELDERS. SUPPORTS AND ACCESSORIES FOR REINFORCING SHALL BE FURNISHED AS SHOWN OR REQUIRED. CHAIRS PLACED AGAINST EXPOSED SURFACES SHALL BE GALVANIZED, STAINLESS, OR PLASTIC.

G. WELDED WIRE REINFORCING WITH PLAIN WIRES (DESIGNATED W) AND/OR DEFORMED WIRES (DESIGNATED D) SHALL CONFORM TO ASTM A1064. WELDED WIRE REINFORCING SHALL HAVE WIRE SIZE AND SPACING AS INDICATED ON PLANS AND DETAILS. LAP SHEETS IN ACCORDANCE WITH ACI AND CRSI RECOMMENDATIONS, 1-1/2 MESHES MINIMUM.

H. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN CONFORMANCE WITH ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND THE CRSI MANUAL OF STANDARD PRACTICE. ALL REINFORCING BAR BENDS SHALL BE MADE COLD. ALL REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. SHALL BE ACCURATELY POSITIONED AND SECURED IN PLACE WITH CHAIRS, TIES, BOLSTERS OR DOBIES PRIOR TO PLACEMENT OF CONCRETE. NO "WET-SETTING" IS ALLOWED.

I. COVERAGE FOR REINFORCING SHALL BE THE CLEAR DISTANCE FROM FACE OF CONCRETE TO THE FACE OF NEAREST BARS AS FOLLOWS, UNLESS NOTED OTHERWISE:
1. CAST AGAINST AND IN PERMANENT CONTACT WITH GROUND (EXCEPT SLABS): 3"
2. EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
   A. #6 FOR #6 AND LARGER BARS
   B. 1-1/2" FOR #5 AND SMALLER BARS
3. NOT EXPOSED TO WEATHER OR IN CONACT WITH GROUND:
   A. SLABS, JOISTS AND WALLS: 1-1/2" FOR #14 AND #18 BARS
   B. SLABS, JOISTS AND WALLS: 3/4" FOR #11 AND SMALLER BARS
   C. BEAMS, COLUMNS, PEDESTALS AND TENSION TIES: 1-1/2"
4. SLABS-ON-GRADE: 1-1/2" CLR FROM TOP

J. REINFORCING SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS UNLESS PRIOR APPROVAL IS OBTAINED FROM THE A/E. REINFORCING BARS SHALL BE SPLICED AS FOLLWS, UNLESS NOTED OTHERWISE:
1. #6 AND SMALLER - 48 BAR DIAM. LAP MIN.
2. #7 THRU #11 - 60 BAR DIAM. LAP MIN.
3. #14 AND LARGER - TYPE 1 MECHANICAL SPLICE MIN.

K. CONSOLIDATE CONCRETE PLACED IN FORMS BY MECHANICAL VIBRATING EQUIPMENT, SUPPLEMENTED BY HAND-SPADING, RODDING OR TAMPING. USE EQUIPMENT AND PROCEDURES FOR CONSOLIDATION OF CONCRETE IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF ACI 309 TO SUIT THE TYPE CONCRETE AND PROJECT CONDITIONS. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION. IN SUCH CASES HOPPERS AND CHUTES OR TRUNKS OF VARIABLE LENGTHS SHALL BE USED TO LIMIT FREE UNCONFINED FALL OF CONCRETE TO 6 FEET.

L. ADDITIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.

M. DESIGN CONCRETE FORMS AS RECOMMENDED IN ACI 347. CONSTRUCT FORMS OF ADEQUATE STRENGTH AND STIFFNESS TO OBTAIN REQUIRED FINISHED CONCRETE SURFACE AND LINE TOLERANCES SPECIFIED IN ACI 117. FORMS SHALL BE TIGHT ENOUGH TO PREVENT LEAKAGE OF MORTAR FINES.

N. USE NEW OR PROPERLY CLEANED LIKE-NEW FORM MATERIALS. REMOVE ALL DIRT, CHIPS, SAWDUST, RUBBISH, WATER OR ICE FROM FORMS PRIOR TO PLACEMENT OF CONCRETE.

O. CLEAN AND ROUGHEN CONSTRUCTION JOINTS AND LIGHTLY MOISTEN FORMS AND SUBGRADE PRIOR TO PLACING CONCRETE. INSTALL W.R. MEADOWS "SEALTIGHT DUOSARD" CHEMICAL RELEASE AGENT OR APPROVED EQUAL PRIOR TO PLACEMENT OF CONCRETE. PLACE CONCRETE USING METHODS WHICH AVOID SEGREGATION. MECHANICALLY VIBRATE ALL CONCRETE, INCLUDING SLABS, TO CONSOLIDATE IT IN FORMS. COMPLY WITH THE REQUIREMENTS FOR CURING PRIOR TO STRIPPING OF FORMS.

P. CONCRETE FINISHES:
1. INTERIOR FLATWORK: SCREED TO AN EVEN, LEVEL PLANE, FLOAT AND STEEL TROWEL TO A SMOOTH, DENSE, HARD FINISH.
2. EXTERIOR FLATWORK: AS ABOVE EXCEPT FOLLOWED WITH A MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC.
3. FORMED SURFACES EXPOSED TO VIEW: IMMEDIATELY AFTER FORMS ARE REMOVED, REMOVE SURFACE PROJECTIONS AND SACK AND PATCH ALL SURFACE DEFECTS.
4. FORMED SURFACES NOT EXPOSED TO VIEW: STRIP FORMS AND PATCH LARGE HOLES OR DEFECTS.
5. COORDINATE AND VERIFY ALL CONCRETE FINISHES WITH THE ARCHITECT.

Q. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" OR TOOLED TO A 1/2" RADIUS.

R. CONCRETE CURING AND PROTECTION REQUIREMENTS:
1. FRESHLY DEPOSITED CONCRETE SHALL BE CURED AND PROTECTED FROM PREMATURE DRYING AND EXCESSIVE HOT OR COLD TEMPERATURES FOR A MINIMUM OF 5 DAYS IN ACCORDANCE WITH ACI 305 IN HOT WEATHER AND ACI 306 IN COLD WEATHER.
2. INTERIOR SLABS TO BE COVERED: APPLY 1 COAT OF ASTM C309 CURING COMPOUND AS SOON AS POSSIBLE AFTER FINISHING. CURING COMPOUND SHALL BE CERTIFIED TO BE COMPATIBLE WITH FLOORING COVERINGS OR THE CURING COMPOUND SHALL BE REMOVED FROM SLABS PRIOR TO APPLICATION OF FLOOR COVERINGS.
3. INTERIOR SLABS TO BE EXPOSED WITH CURE AND SEAL FINISH: APPLY AN INITIAL CURING COAT OF HIGH SOLIDS (20% MINIMUM) ASTM C1315 CURING AND SEALING COMPOUND AS SOON AS POSSIBLE AFTER FINISHING. APPLY A SECOND SEALING COAT PER MANUFACTURER RECOMMENDATIONS.
4. EXTERIOR CONCRETE: APPLY 1 COAT OF HIGH SOLIDS (20% MINIMUM) ASTM C309 CURING COMPOUND AS SOON AS POSSIBLE AFTER FINISHING.
5. REAPPLY CURING COMPOUNDS TO SAWCUT JOINTS IMMEDIATELY AFTER CUTTING IF CURING COMPOUND IS APPLIED PRIOR TO CUTTING. ALL SAW CUTTING SHALL BE TIMED TO AVOID TEARING OR DAMAGE BY THE SAW BLADE.

S. DEFECTIVE WORK:
1. ANY CONCRETE NOT FORMED AS SHOWN OR NOT MEETING THE INTENDED LINES, ELEVATIONS, FINISHES, TOLERANCES, ETC. SHALL BE DEEMED DEFECTIVE.
2. SLAB CRACKS, EDGE CURLING AND SURFACES NOT MEETING FINISH, FLATNESS OR LEVELNESS REQUIREMENTS SHALL BE DEEMED DEFECTIVE.
3. DEFECTIVE WORK SHALL BE REMOVED AND REPLACED WITH CONFORMING WORK, OR AT THE OPTION OF THE A/E, REPAIRED TO THE SATISFACTION OF THE A/E.

T. CONSTRUCTION JOINTS WILL NOT BE PERMITTED, EXCEPT WHERE SHOWN ON THE DRAWINGS, WITHOUT WRITTEN CONSENT OF THE A/E.

U. ALL CONDUITS AND UTILITIES AT SLABS ON GRADE SHALL BE PLACED IN THE BASE MATERIALS AND NOT IN THE SLAB.

V. LEAVE CONCRETE SURFACES BROOM CLEAN AND REMOVE ALL DEBRIS FROM CONCRETE WORK FROM THE SITE.

STRUCTURAL STEEL

A. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC MANUAL OF STEEL CONSTRUCTION. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND AISC 341 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS.

B. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
1. STRUCTURAL STEEL SHAPES, PLATES AND RODS: ASTM A36 (Fy = 36 KSI), TYP. U.N.O. USE ASTM 572, GR. 50 (Fy = 50 KSI) WHERE NOTED.
2. "W" STEEL SHAPES: ASTM A992.
3. RECTANGULAR HSS STEEL TUBING: ASTM A500, GR. C (Fy = 50 KSI).
4. ROUND HSS STEEL TUBING: ASTM A500, GR. C (Fy = 46 KSI).
5. STEEL PIPE: ASTM A53, GR. B (Fy = 35 KSI).
6. CONVENTIONAL HIGH-STRENGTH BOLTS (HSB): ASTM F3125 GR. A325 (GR. F1852 FOR TWIST-OFF TENSION-CONTROL), TYP. U.N.O. USE GR. A490 (GR. F2280 FOR TWIST-OFF TENSION-CONTROL) WHERE NOTED.
7. COMMON MACHINE BOLTS (MB): ASTM A307 GR. A, TYP. U.N.O.
8. ANCHOR BOLTS (AB): ASTM A36 OR F1554 GR. 36, TYP. U.N.O.
9. NUTS: ASTM 563, HEAVY HEX, TYP. U.N.O.
10. WASHERS: USE ASTM F844, TYP. U.N.O. (EXCEPT USE HARDENED F436 WHERE REQ'D AT HSB CONNECTIONS).

C. HIGH-STRENGTH BOLTS (HSB) MAY BE TYPE N (THREADS INCLUDED) TYP. U.N.O. AND MAY BE INSTALLED SNUG-TIGHT IN ACCORDANCE WITH RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS. AT THE CONTRACTOR'S OPTION, TWIST-OFF TENSION-CONTROL BOLTS MAY BE USED TO SIMPLIFY INSTALLATION.

D. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY SPECIFICATIONS FOR THE MATERIAL BEING WELDED AND ALL WELDING SHALL BE PERFORMED BY APPROPRIATELY CERTIFIED WELDERS. ALL WELDERS AND WELDING SHOPS SHALL BE APPROVED BY THE BUILDING AUTHORITY HAVING JURISDICTION. WELDING ELECTRODES SHALL BE E70XX UNLESS NOTED OTHERWISE.

E. HEADED AND THREADED STUDS SHALL BE NELSON STUD ANCHORS (NSA) OR APPROVED EQUAL, OF THE SIZES INDICATED ON THE DRAWINGS, WITH FLUXED ENDS AUTOMATICALLY END WELDED PER THE MANUFACTURER'S REQUIREMENTS.

F. ALL STRUCTURAL AND MISCELLANEOUS STEEL WORK SHALL BE SHOP PRIMED AND TOUCHED UP IN THE FIELD AFTER ERECTION EXCEPT STEEL TO BE EMBEDDED IN CONCRETE, SPRAY FIRE PROOFED, GALVANIZED, OR WHERE REQUIRED FOR SPECIAL CONNECTIONS LIKE FIELD WELDS OR AT CONTACT FACES OF CONNECTIONS USING HIGH STRENGTH BOLTS. COORDINATE PRIMER WITH FINISH REQUIREMENTS TO ENSURE PRIMER IS COMPATIBLE WITH TOPCOATS. PROVIDE 3" MINIMUM CONCRETE COVER FOR ALL STEEL EXPOSED TO EARTH.

EARTHWORK

A. EARTHWORK REQUIREMENTS AND FOUNDATIONS DESIGNS ARE BASED ON COMMON LOCAL PRESUMPTIVE SOIL DESIGN VALUES AND ASSUME THE PRESENCE OF ADEQUATE NATIVE SOILS.

B. WHERE REQUIRED, A SOILS ENGINEER SHALL BE RETAINED TO REVIEW AND APPROVE ALL EARTHWORK MATERIALS PRIOR TO PLACEMENT. OBSERVE EARTHWORK OPERATIONS TO VERIFY COMPLIANCE WITH EARTHWORK REQUIREMENTS, AND PROVIDE DIRECTION WHERE UNEXPECTED CONDITIONS ARISE.

C. STRIP SITE, CLEAR ALL DEBRIS, PAVING AND ORGANICS, AND EXCAVATE AS REQUIRED TO CONSTRUCT IMPROVEMENTS, ALLOWING ADEQUATE SPACE WHERE NECESSARY TO CONSTRUCT AND REMOVE FORMS.

D. THIS PROJECT REQUIRES OVER-EXCAVATION OF EXISTING MATERIALS AND PLACEMENT OF ENGINEERED / STRUCTURAL FILL.

E. AFTER EXCAVATIONS ARE COMPLETE AND PRIOR TO PLACEMENT OF ANY FILL OR FOUNDATIONS, SCARIFY, MOISTURE CONDITION AND RE-COMPACT SUBGRADES TO 90% RELATIVE COMPACTION, UNLESS OTHERWISE DIRECTED BY THE SOILS ENGINEER. WHERE SOIL STABILIZATION MEASURES ARE REQUIRED, THEY SHALL BE AS DIRECTED BY THE SOILS ENGINEER.

F. AGGREGATE BASE CONFORMING TO NEVADA HIGHWAY DEPARTMENT SPECIFICATIONS FOR TYPE 2, CLASS B AGGREGATE BASE (95% COMPACTION) SHALL BE USED AS FILL.

G. PLACE FILL AND BACKFILL IN UNIFORM HORIZONTAL LIFTS OF 8" MAXIMUM LOOSE THICKNESS AND COMPACT TO 95% RELATIVE COMPACTION UNLESS OTHERWISE DIRECTED BY THE SOILS ENGINEER.

H. ALL CONCRETE SLABS-ON-GRADE, STEPS AND FLATWORK SHALL BE UNDERLAIN WITH AGGREGATE BASE CONFORMING TO NEVADA HIGHWAY DEPARTMENT SPECIFICATIONS FOR TYPE 2, CLASS B AGGREGATE BASE. COMPACT AGGREGATE BASE TO 95% RELATIVE COMPACTION.

I. TRENCHING AND BACKFILL FOR UTILITIES SHALL COMPLY WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND WITH ALL BEST INDUSTRY PRACTICES.

J. BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL. CHANGES IN BOTTOM OF FOUNDATION ELEVATION SHALL BE MADE ACCORDING TO TYPICAL STEPPED FOOTING DETAILS PROVIDED IN THE DRAWINGS.

K. CONTRACTOR SHALL PROVIDE DESIGN AND INSTALLATION OF ANY AND ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN EARTH BANKS WHERE REQUIRED.

L. CONTRACTOR SHALL COMPLY WITH LOCAL ORDINANCES FOR DUST CONTROL AND SHALL MAINTAIN TEMPORARY DRAINAGE ROUTES TO KEEP SURFACE WATER OUT OF EXCAVATIONS. PUMP FOOTING EXCAVATIONS IF WATER ACCUMULATES. CONTRACTOR SHALL PROVIDE FOR PROPER DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.

M. ALL FOOTINGS SHALL BE FOUNDED BELOW ADJACENT EXTERIOR FINISHED GRADE TO PROVIDE BURY FOR FROST DEPTH. FOOTINGS MAY BE POURED IN NEAT EXCAVATION WHERE POSSIBLE, PROVIDED AN EXTRA 1" WIDTH OF FOOTING IS PROVIDED ON EACH SIDE. FOOTING EXCAVATIONS SHALL BE HAND CLEANED PRIOR TO PLACEMENT OF CONCRETE.

STANDARD ABBREVIATIONS

AB	ANCHOR BOLT	JG	STEEL JOIST GIRDER
A/E	ARCHITECT / ENGINEER	JT	JOINT
AFF	ABOVE FIN FLR	K	KING STUD, KIPS
AGG	AGGREGATE	KSI	KIPS PER SQUARE INCH
ALT	ALTERNATE	KSF	KIPS PER SQUARE FOOT
ALUM	ALUMINUM	L	ANGLE
APPROX	APPROXIMATELY	LBS	POUNDS
ARCH	ARCHITECT	LLV	LONG LEG VERTICAL
BFF	BELOW FIN FLR	LLH	LONG LEG HORIZONTAL
BLDG	BUILDING	LT WT	LIGHT WEIGHT
BLKG	BLOCKING	MAX	MAXIMUM
BM	BEAM	MB	MACHINE BOLT
BN	BOUNDARY NAIL	MECH	MECHANICAL
BO	BOTTOM OF	MFR	MANUFACTURER
BOT	BOTTOM	MISC	MISCELLANEOUS
B/S	BOTH SIDES	MIN	MINIMUM
CIP	CAST IN PLACE	MTL	METAL
CJ	CONTROL JOINT	(N)	NEW
CJP	COMPLETE JOINT PENETRATION	NA	NOT APPLICABLE
CL	CENTERLINE	NS	NEAR SIDE
CLG	CEILING	NSA	NELSON STUD ANCHOR
CLR	CLEAR	NTS	NOT TO SCALE
CMU	CONC MASONRY UNIT	OC	ON CENTER
COL	COLUMN	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OH	OPPOSITE HAND
CONN	CONNECTION	OWJ	OPEN WEB STEEL JOIST
CONST	CONSTRUCTION	PERP	PERPENDICULAR
CONT	CONTINUOUS	PL	PLATE
CTSK	COUNTERSUNK	PLF	POUNDS PER FOOT
CY	CUBIC YARDS	PSF	POUNDS PER SQUARE FOOT
DBL	DOUBLE	PT	PRESSURE TREATED, POST TENSIONED
DF	DOUGLAS FIR		
DIA	DIAMETER	REINF	REINFORCING
DJ	DOWELED JOINT	REQD	REQUIRED
DNG	DRAWING	SCH	SCHEDULE
EA	EACH	SHTG	SHEATHING
EF (E/F)	EACH FACE	SIM	SIMILAR
ELEV	ELEVATION	SOG	SLAB ON GRADE
ELEC	ELECTRICAL	SS	STAINLESS STEEL
EN	EDGE NAIL	STAGG	STAGGERED
EOR	ENGINEER OF RECORD	STD	STANDARD
ES	EACH SIDE	STIFF	STIFFENER
EW (E/W)	EACH WAY	STL	STEEL
(E)	EXISTING	STRUC	STRUCTURAL
EXT	EXTERIOR	SYM	SYMMETRICAL
FF	FINISHED FLOOR	T	TRIMMER
FN	FINISH	TN	TOENAIL
FLR	FLOOR	TO	TOP OF
FN	FACE NAIL	TYP	TYPICAL
FO	FACE OF	T&G	TONGUE & GROOVE
FS	FAR SIDE	T&B	TOP & BOTTOM
FT	FEET	UNO	UNLESS NOTED OTHERWISE
FTG	FOOTING	VERT	VERTICAL
GA	GAGE, GUAGE	VIF	VERIFY IN FIELD
GALV	GALVANIZED	WF	WIDE FLANGE
GLB	GLULAM BEAM	WWF	WELDED WIRE FABRIC
HDR	HEADER	W/	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HSB	HIGH STRENGTH BOLT	@	AT
ID	INSIDE DIAMETER	#	NUMBER, POUNDS
IN	INCHES	&	AND
INT	INTERIOR	+/-	PLUS OR MINUS

SHEET INDEX

Sheet Number	Sheet Name	Sheet Issue Date
S001	Structural General Notes	4.23.2025
S002	Quality Assurance	4.23.2025
S003	Typical Details	4.23.2025
S101	North Entrance Foundation Demolition Plan	4.23.2025
S102	North Entrance Foundation Plan	4.23.2025
S103	East Entrance Foundation Demolition Plan	4.23.2025
S104	East Entrance Foundation Plan	4.23.2025
S201

QUALITY ASSURANCE (STATEMENT OF SPECIAL INSPECTIONS)

A. QUALITY ASSURANCE WILL BE ACCOMPLISHED THROUGH THE USE OF SPECIAL INSPECTION & MATERIALS TESTING IN ACCORDANCE WITH THE BUILDING CODE.

B. WHERE REQUIRED BY THE BUILDING AUTHORITY HAVING JURISDICTION (AHJ), THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AHJ AND OWNER IN ACCORDANCE WITH THE BUILDING CODE.

C. SPECIAL INSPECTION AND ASSOCIATED MATERIALS TESTING SHALL BE PERFORMED FOR THE PROCESSES AND MATERIALS REQUIRED FOR CONSTRUCTION. THE TYPE AND FREQUENCY OF INSPECTIONS AND TESTS AS WELL AS THE FREQUENCY AND DISTRIBUTION OF RELATED REPORTS SHALL BE AS INDICATED IN THE CONTRACT DOCUMENTS AND AS REQUIRED BY ALL APPLICABLE CODES AND STANDARDS.

D. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL FURNISH REPORTS TO THE A/E, OWNER AND AHJ. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE A/E, OWNER AND AHJ. AT THE CONCLUSION OF WORK THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT TO THE A/E, OWNER AND AHJ INDICATING THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.

E. SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT ACCEPTED BUILDING CODE SHALL BE REQUIRED FOR THE FOLLOWING ITEMS:

1. SPECIAL CASES: POST INSTALLED ANCHORS IN ACCORDANCE WITH EVALUATION REPORTS AND MANUFACTURER RECOMMENDATIONS. PERIODIC SPECIAL INSPECTION.
2. CONCRETE CONSTRUCTION PER BUILDING CODE TABLE 1705.3.
3. SOILS PER BUILDING CODE TABLE 1705.6.

F. THE SPECIAL INSPECTIONS LISTED ABOVE ARE NOT INTENDED TO BE ALL INCLUSIVE AND ONLY REPRESENT SPECIAL INSPECTIONS FOR THE WORK SHOWN ON STRUCTURAL DRAWINGS. ADDITIONAL SPECIAL INSPECTIONS OF ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS MAY BE REQUIRED. REFER TO THE APPROPRIATE DESIGN DISCIPLINES FOR ADDITIONAL INFORMATION.

2018 IBC TABLE 1705.3
REQUIRED SPECIAL INSPECTION AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD [a]	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		⊗	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECT ALL OTHER WELDS	⊗	⊗ ⊗	AWS D1.4 ACI 318: 26.6.4	
3. INSPECT ANCHORS CAST IN CONCRETE.		⊗	ACI 318: 17.8.2	
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS [b]. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	⊗	 ⊗	ACI 318: 17.8.2.4 ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX.		⊗	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.3, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	⊗		ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	⊗		ACI 318: 5.9, 5.10	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		⊗	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS	× ×		ACI 318: 26.10	
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.		⊗	ACI 318: Ch. 16	
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		⊗	ACI 318: 26.11.2	
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		⊗	ACI 318: 26.11.1.2(b)	

[a]. WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

[b]. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

◯ - INDICATES INSPECTIONS REQUIRED FOR THIS PROJECT.

2018 IBC TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASKS	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		⊗
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		⊗
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		⊗
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	⊗	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		⊗

◯ - INDICATES INSPECTIONS REQUIRED FOR THIS PROJECT.

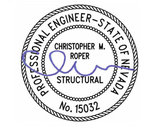
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Nevada Historical Society Improvements (UNR Location)
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SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building
1650 North Virginia Street
Reno, Nevada 89503

revisions △

No.	Description	Date

drawn by	TJG
reviewed by	CMR
date	4/23/25
project number	23_126

drawing name

Quality Assurance

sheet number

S002

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NOTES:

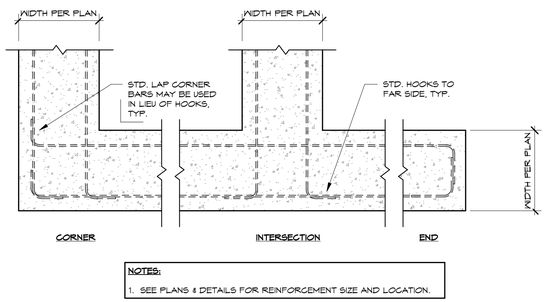
1. COORD. PAD THICKNESSES, SIZES AND LOCATIONS W/ MECH.

2. COORD. EQUIPMENT ANCHORAGE REQUIREMENTS W/ MECH. AND THE EQUIPMENT MFR.

7 Typ. Exterior Equipment Pad
1" = 1'-0"

6 Typ. Sawcut Opening
1/2" = 1'-0"

5 Typ. Doweling of New to Existing
3/4" = 1'-0"



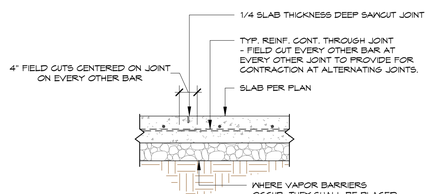
NOTES:

1. SEE PLANS & DETAILS FOR REINFORCEMENT SIZE AND LOCATION.

4 Typ. Continuous Footing Reinforcing
3/4" = 1'-0"



3 Typ. Concrete Chamfer
3/4" = 1'-0"



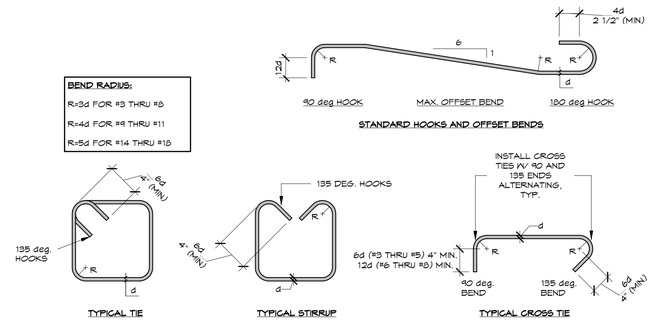
2 Typ. Slab Joints
3/4" = 1'-0"

BEND RADIUS:

R=3d FOR #3 THRU #5

R=4d FOR #6 THRU #11

R=5d FOR #14 THRU #18



1 Typ. Rebar Hooks and Bends
3/4" = 1'-0"

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revisions

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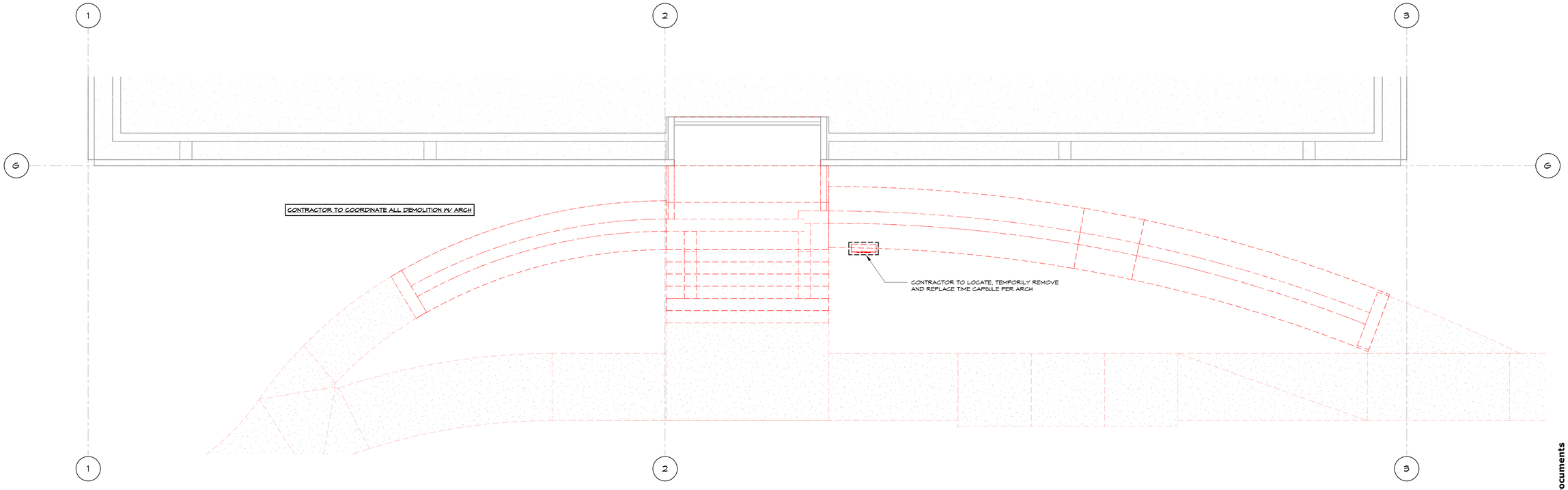
drawn by	TJG
reviewed by	CMR
date	4/23/25
project number	23_126

drawing name

Typical Details

sheet number

S003



N

1 NORTH ENTRANCE FOUNDATION DEMO PLAN
1/4" = 1'-0"

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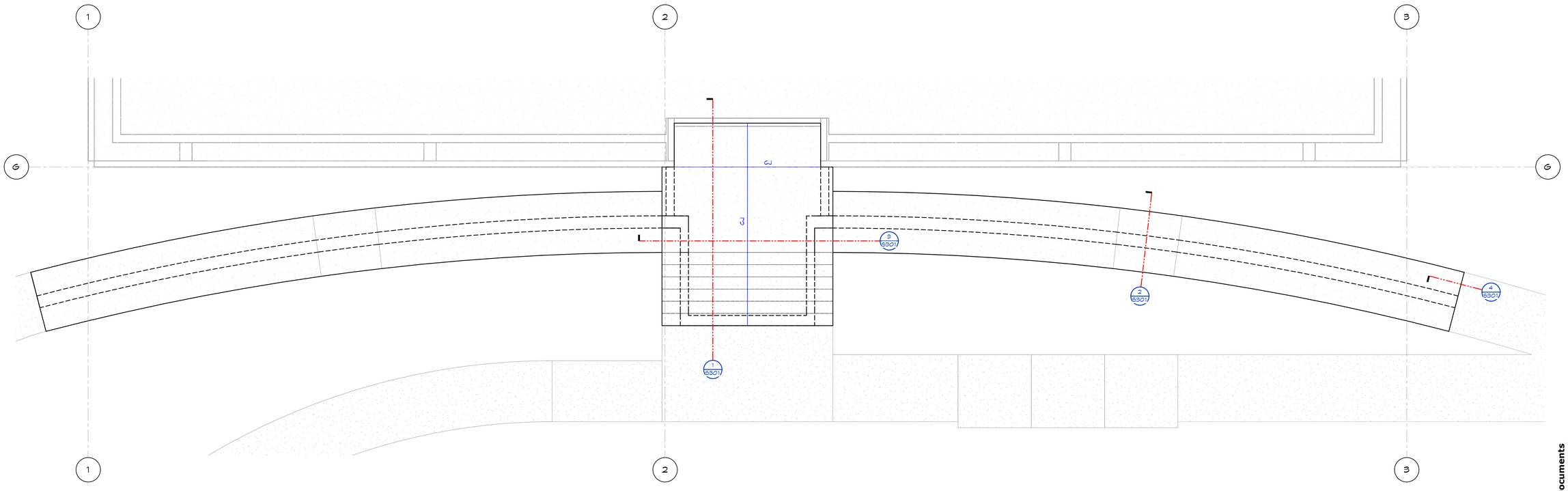
drawing name

North Entrance Foundation Demolition Plan

sheet number

S101

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N

1 NORTH ENTRANCE FOUNDATION PLAN
1/4" = 1'-0"

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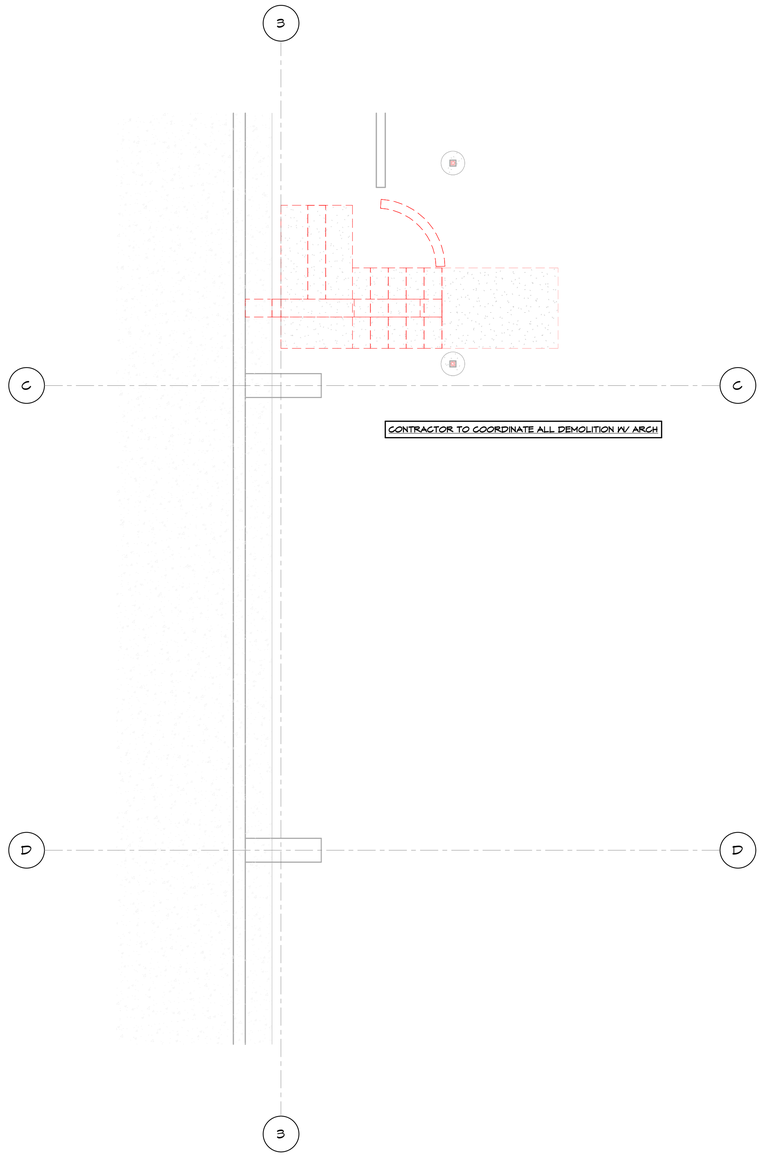
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North Entrance Foundation Plan

sheet number

S102

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N

1 EAST ENTRANCE FOUNDATION DEMO PLAN
1/4" = 1'-0"

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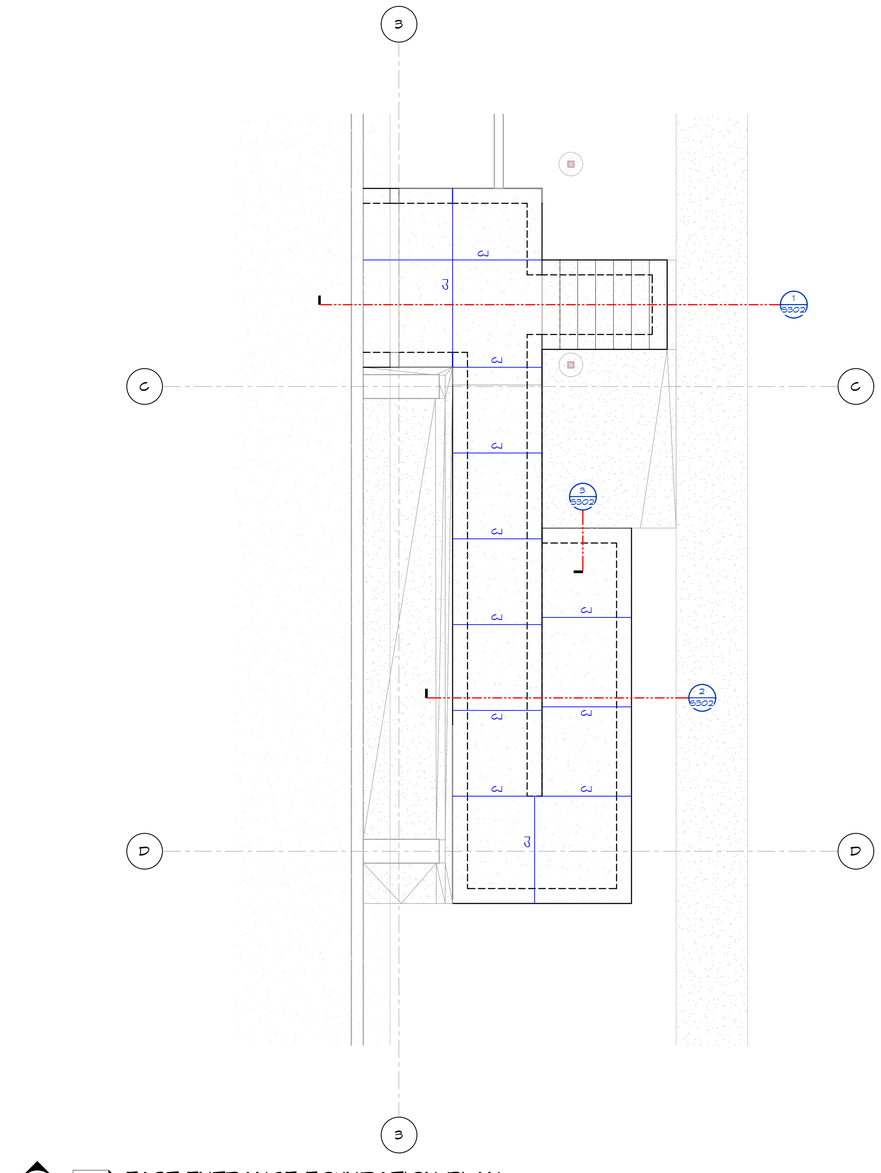
drawing name

East Entrance Foundation Demolition Plan

sheet number

S103

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N

1 EAST ENTRANCE FOUNDATION PLAN
1/4" = 1'-0"

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project number	23_126

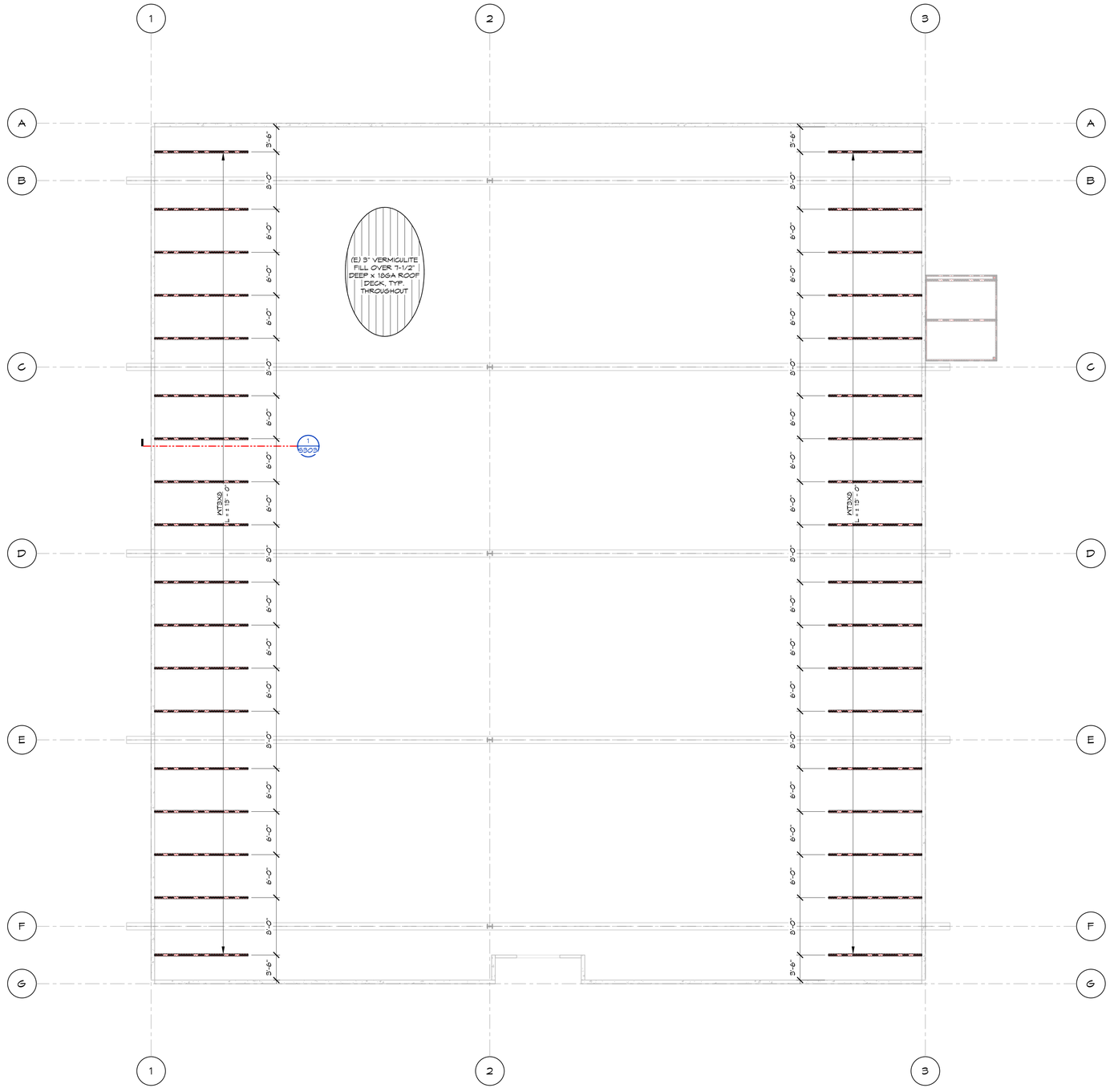
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East Entrance Foundation Plan

sheet number

S104

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N

1 CEILING / ROOF FRAMING PLAN
1/8" = 1'-0"

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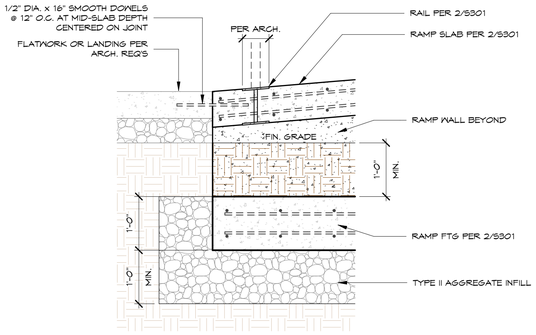
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Ceiling / Roof Framing Plan

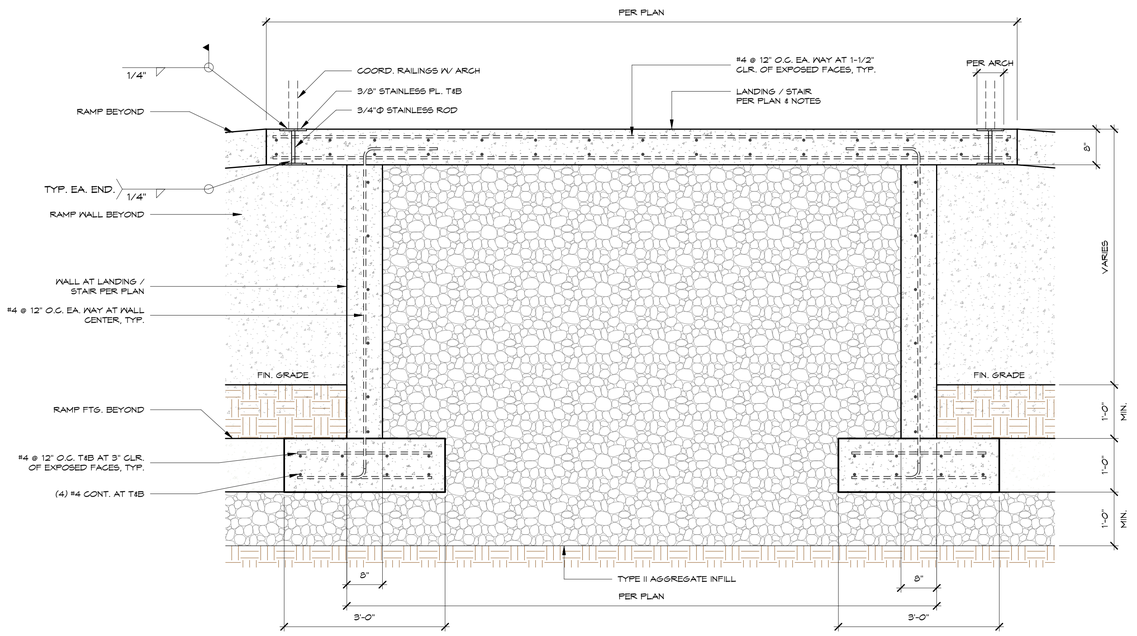
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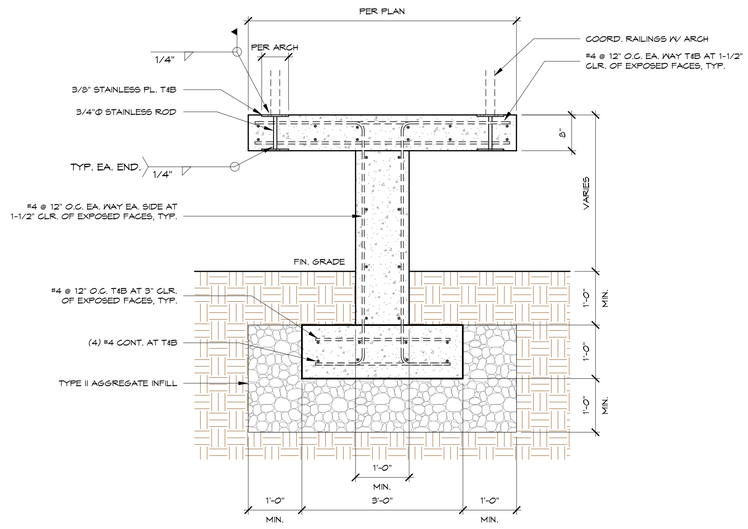
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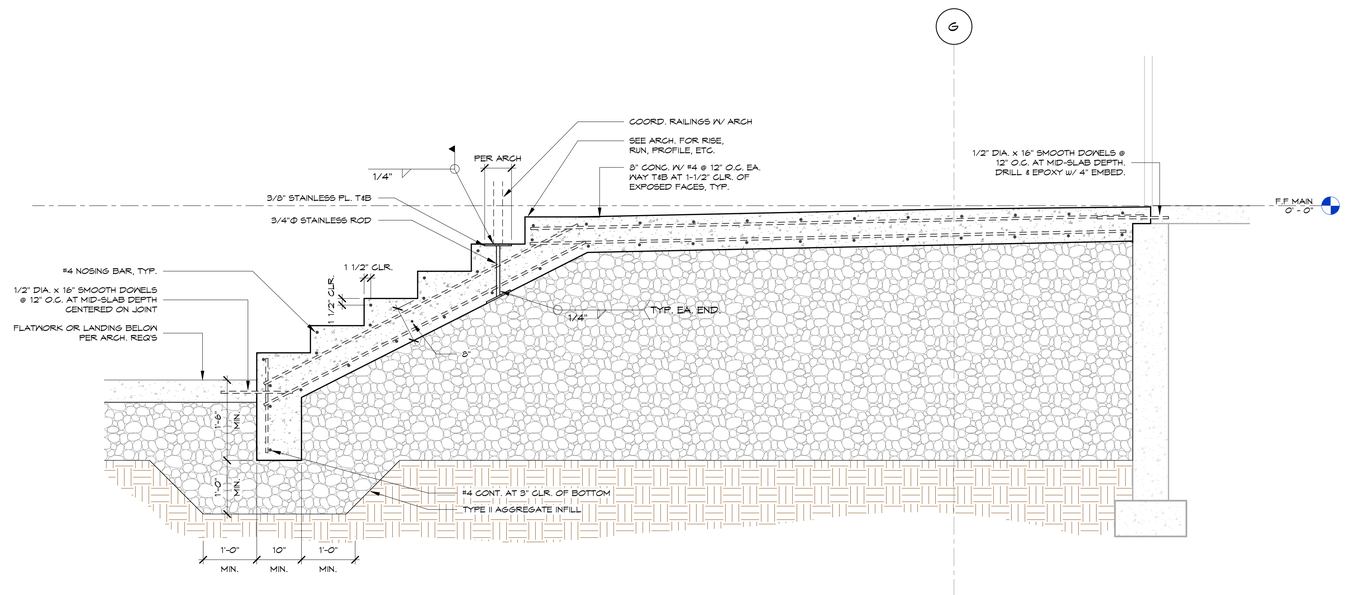
4 NORTH ENTRANCE RAMP AND FOUNDATION DETAIL
3/4" = 1'-0"



3 NORTH ENTRANCE STAIR AND LANDING FOUNDATION DETAIL
3/4" = 1'-0"



2 NORTH ENTRANCE RAMP AND FOUNDATION DETAIL
3/4" = 1'-0"



1 NORTH ENTRANCE STAIR AND LANDING FOUNDATION DETAIL
3/4" = 1'-0"

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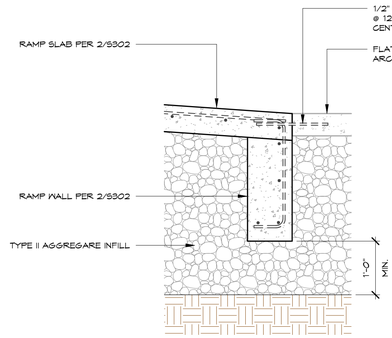
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Foundation Details

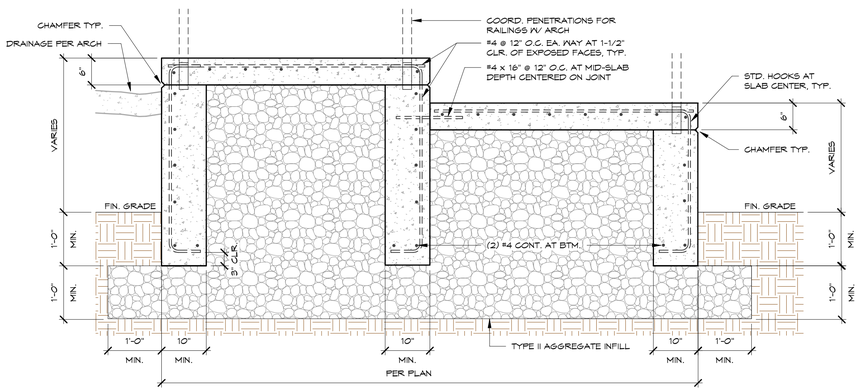
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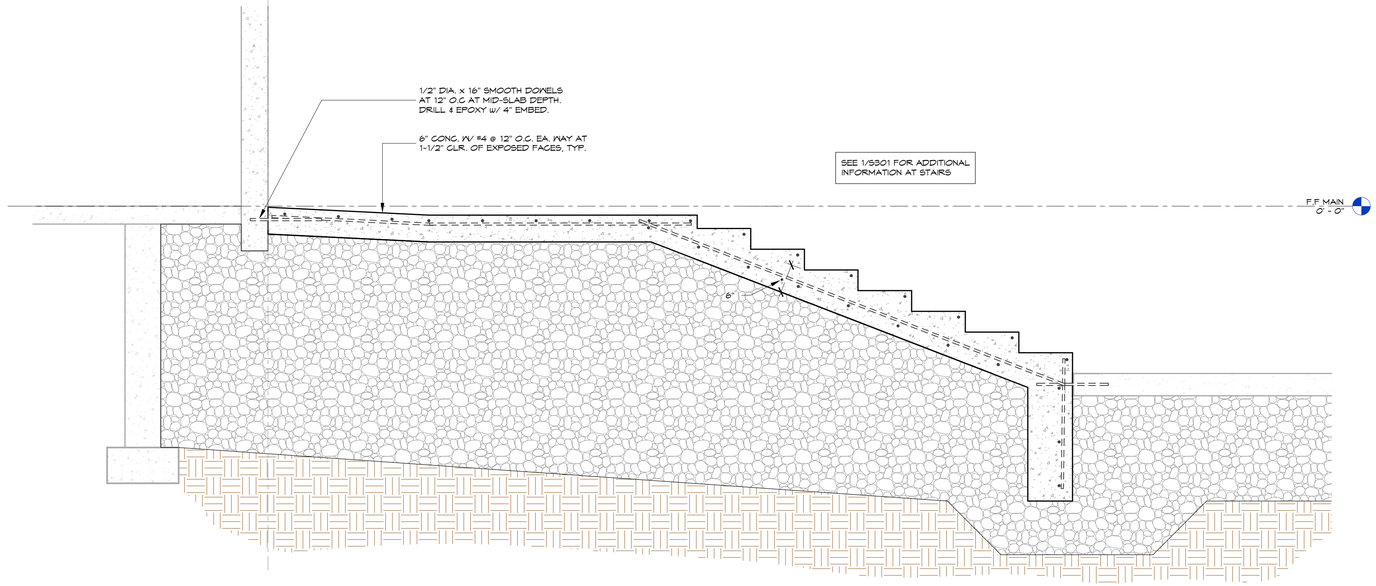


3 EAST ENTRANCE RAMP AND FOUNDATION DETAIL
3/4" = 1'-0"



2 EAST ENTRANCE RAMP AND FOUNDATION DETAIL
3/4" = 1'-0"

3



1 EAST ENTRANCE STAIR AND FOUNDATION DETAIL
3/4" = 1'-0"

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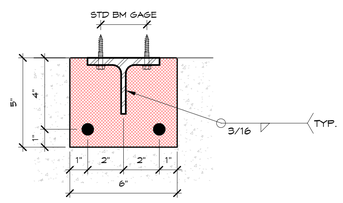
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Foundation Details

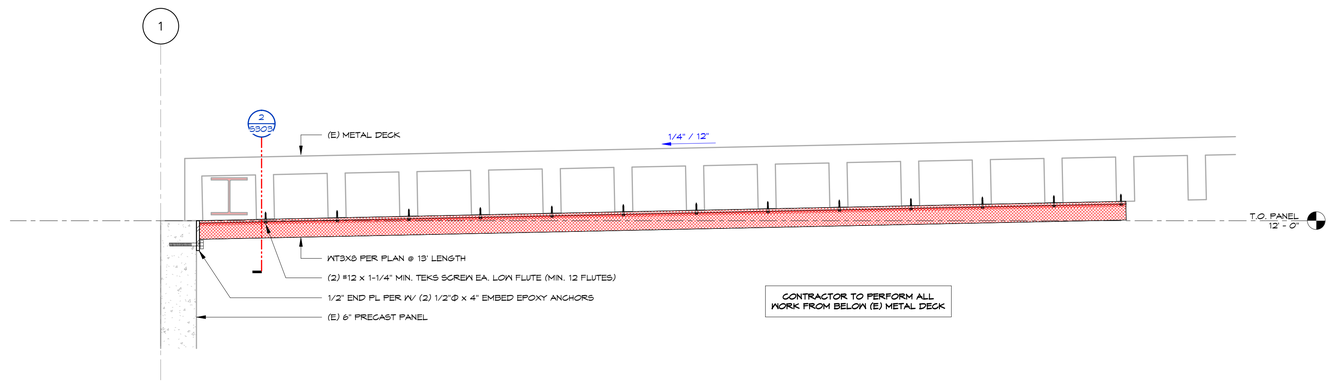
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S302

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2 WELDED END PLATE
3" = 1'-0"



1 WALL TIE DETAIL
1" = 1'-0"

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sheet number

S303

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GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE IBC, UMC, UPC, NEC, NFPA, NEVADA STATE FIRE MARSHAL REGULATIONS, LOCAL AND STATE ORDINANCES, AND INDUSTRY STANDARDS.
2. THE INFORMATION REGARDING EXISTING CONDITIONS SHOWN ON THE DRAWINGS IS BELIEVED TO BE CORRECT, BUT IS NOT GUARANTEED. THE CONTRACTOR SHALL RELY ON SITE VISITS AND NECESSARY INVESTIGATION TO ENSURE THAT HIS BID IS CORRECT AND COMPLETE AS REQUIRED TO PROVIDE THE SCOPE OF WORK DESCRIBED ON THE DRAWINGS. EXTRA COST WILL NOT BE ALLOWED TO THE CONTRACTOR FOR FAILURE TO PERFORM THIS TASK.
3. SUBMIT FOR REVIEW AND APPROVAL ELECTRONIC COPIES OF SUBMITTALS FOR ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION, PLUMBING FIXTURES, INSULATION, VALVES, AND PIPING MATERIALS.
4. AS-BUILT DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL UPON COMPLETION OF THE WORK, AND PRIOR TO FINAL PAYMENT. AS-BUILT DRAWINGS SHALL BE MAINTAINED ON SITE AS THE WORK PROGRESSES AND SHALL BE AVAILABLE FOR REVIEW BY THE OWNER AND/OR ARCHITECT/ENGINEER AT ALL TIMES.
5. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
6. THE WORK AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER.
7. COORDINATE THE ACTUAL LOCATION OF ROOFTOP UNITS, VENTS THROUGH THE ROOF, ETC. WITH THE ROOF PLANS.
8. COORDINATE THE EXACT LOCATION OF EQUIPMENT AND OF PENETRATIONS THROUGH THE ROOF, FLOORS, AND WALLS WITH STRUCTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.
9. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE FULL EXTENT OF DEMOLITION AND NEW WORK TO BE PERFORMED.
10. SEISMIC BRACING FOR MECHANICAL SYSTEMS (EQUIPMENT, DUCTWORK, PIPING, AND CONDUIT) SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) INCLUDING ALL APPLICABLE PROVISIONS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) MINIMUM DESIGN LOADS FOR BUILDINGS (ASCE STANDARD 7-16 SECTION 13.1.3).
11. PIPING SHALL BE INSTALLED SUCH THAT IT DOES NOT OBSTRUCT ACCESS OR REMOVAL OF MECHANICAL EQUIPMENT.
12. PIPING AND/OR DUCTWORK SHALL NOT BE ROUTED IN THE DEDICATED ELECTRICAL SPACE AT OR ABOVE ELECTRICAL SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, ETC. (AS PROHIBITED BY 2017 NATIONAL ELECTRICAL CODE SECTION 110.26F). THIS ISSUE IS PARTICULARLY APPLICABLE IN CHILLER ROOMS, BOILER ROOMS, ELECTRICAL ROOMS, AND DATA/SERVER ROOMS.
13. DASHED OUTLINES DENOTE THE REQUIRED SERVICE CLEARANCE SPACE (SEE DUCTWORK PLANS). NO PIPING, DUCTWORK, CONDUIT, AND/OR CEILING HANGERS SHALL BE INSTALLED IN THE DESIGNATED SERVICE/ACCESS CLEARANCE AREA.
14. SEE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR HOLE CORING REQUIREMENTS.
15. SEE REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL DIFFUSERS AND GRILLES LOCATED IN CEILINGS.
16. COORDINATE ROUTING OF DUCTWORK WITH PIPING, PLUMBING, FIRE SPRINKLER, AND ELECTRICAL TRADES PRIOR TO BEGINNING WORK.
17. ALL EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL BE SUPPORTED AS REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.
18. ALL ROOF PENETRATIONS SHALL BE FLASHED AND COUNTER-FLASHED WATERTIGHT.
19. CONSTRUCT ALL DUCTWORK LOCATED BETWEEN AIR HANDLING UNITS AND VARIABLE AIR VOLUME BOXES FOR 4 INCH W.G. PRESSURE CLASS PER SMACNA REQUIREMENTS. CONSTRUCT ALL OTHER DUCTWORK FOR 2 INCH W.G. PRESSURE CLASS, EXCEPT WHERE NOTED OTHERWISE, PER SMACNA REQUIREMENTS.
20. ALL DUCT BRANCH SIZES TO CEILING DIFFUSERS SHALL BE CEILING DIFFUSER NECK SIZE, EXCEPT WHERE NOTED OTHERWISE.
21. PROVIDE FLEXIBLE DUCT CONNECTIONS WHEN CONNECTING DUCTWORK TO EQUIPMENT.
22. CEILING DIFFUSER DESIGNATION '824 CD-4' INDICATES 8" ROUND DUCT CONNECTION IN A 24/24 PANEL WITH A 4-WAY PATTERN FOR ROUND NECK, (2C INDICATES A 2-WAY CORNER THROW PATTERN). GRILLE DESIGNATION '10/10 G' INDICATES A GRILLE WITH A NECK SIZE OF 10/10.
23. TESTING AND BALANCING SHALL BE CONDUCTED BY AN AABC CERTIFIED TEST AND BALANCE CONTRACTOR. TEST AND BALANCE ALL AIR AND WATER SYSTEMS TO ACHIEVE THE LISTED VOLUMES. SET ALL VOLUME DAMPERS AND TEST/BALANCE SYSTEMS SUCH THAT THE VOLUME INDICATED ON THE DRAWINGS IS BEING DELIVERED. PROVIDE A WRITTEN REPORT SHOWING 'KA' FACTORS, FPM, AND CFM FOR EACH DIFFUSER, REGISTER, AND GRILLE, AND THE TOTAL AIR VOLUME FOR EACH TESTED SYSTEM. THE FINALIZED REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL UPON COMPLETION OF THE TESTING AND BALANCING AND BEFORE SCHEDULING THE FINAL OBSERVATION.
24. PROVIDE MANUAL VOLUME DAMPERS AT EACH SUPPLY AND EXHAUST DUCT BRANCH. MANUAL VOLUME DAMPERS SHALL BE LOCATED AS FAR AWAY FROM THE DIFFUSER/GRILLE AS POSSIBLE.
25. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 5'-0" (INSTALL IN CONCEALED LOCATIONS ONLY).
26. PROVIDE A MINIMUM OF 12" BELOW DUCTWORK TO CEILING FOR REMOVAL OF LIGHT FIXTURES.
27. COORDINATE THE EXACT SIZE AND LOCATION OF DUCTWORK WITH ALL OTHER TRADES.
28. VERIFY FINAL THERMOSTAT LOCATIONS WITH BUILT-IN CABINETS, DOOR SWINGS, ETC.
29. THERMOSTATS MOUNTED ON EXTERIOR WALLS SHALL HAVE AN INSULATED BASE.
30. DO NOT ROUTE ANY PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT, SWITCHBOARDS, DISTRIBUTION PANELS, MCC'S, ETC. AS PROHIBITED BY THE 2017 NATIONAL ELECTRICAL CODE.
31. DO NOT FABRICATE PIPING FROM THE DRAWINGS. SPACE ALLOCATION SHALL BE DETERMINED IN THE FIELD AND COORDINATED WITH OTHER TRADES PRIOR TO FABRICATION.
32. VERIFY THE EXACT LOCATION, INVERT ELEVATION, SIZE, AND POINT OF CONNECTION OF ALL NEW AND EXISTING UTILITIES PRIOR TO ROUGH-IN OF ANY PLUMBING PIPING.
33. COORDINATE THE ROUTING OF PLUMBING PIPING WITH EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
34. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES AS REQUIRED TO COMPLY WITH ADA REQUIREMENTS.
35. INSULATE DOMESTIC HOT AND COLD WATER PIPING AND WASTE PIPING BELOW ADA PLUMBING FIXTURES WITH 'TRUEBRO' LAV GUARD 2 PROTECTIVE MOLDED CLOSED-CELL VINYL PIPE COVERS WITH VANDAL-RESISTANT SNAP-CLIP FASTENERS, WITH AN ASTM E84 FLAME AND SMOKE SPREAD RATING OF 25/50 OR LESS.
36. INSTALL A RIGID CAP ON ALL ABANDONED WATER, WASTE, AND VENT PIPING.
37. PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.
38. SLOPE ALL SEWER, WASTE, AND RAINWATER PIPING AT A MINIMUM OF 1/4" PER FOOT.
39. SLOPE ALL CONDENSATE DRAIN PIPING AT A MINIMUM OF 1/8" PER FOOT.
40. PROVIDE A 1/8" X 6" STEEL BACKING PLATE BOLTED TO A MINIMUM OF 4 STUDS FOR ALL WALL-HUNG FIXTURES. PROVIDE CONCEALED ARMS FOR LAVATORIES BOLTING TO A BACKING PLATE.
41. THE OWNER SHALL HAVE SALVAGE RIGHTS TO ALL PLUMBING FIXTURES BEING REMOVED.
42. IN ADDITION TO WHERE SHOWN ON THE DRAWINGS, PROVIDE CLEANOUTS FOR ALL SINKS, URINALS, & LAVATORIES.

APPLICABLE CODES AND REGULATIONS

2018 INTERNATIONAL BUILDING CODE
2018 UNIFORM MECHANICAL CODE
2018 UNIFORM PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
NEVADA STATE FIRE MARSHAL
NEVADA OCCUPATIONAL SAFETY AND HEALTH
NATIONAL FIRE PROTECTION ASSOCIATION
UNDERWRITERS LABORATORIES
ALL OTHER APPLICABLE STATE AND LOCAL CODES, RULES, AND REGULATIONS

PLUMBING LEGEND

	SOIL OR WASTE LINE BELOW GRADE
	SOIL OR WASTE LINE ABOVE GRADE
IW	INDIRECT WASTE LINE
AW	ACID WASTE LINE
GW	GREASE WASTE LINE
	VENT LINE
RWL	RAINWATER LEADER LINE
ORWL	OVERFLOW RAINWATER LEADER LINE
D	DRAIN LINE
	COLD WATER LINE
	HOT WATER LINE
	HOT WATER RETURN LINE
G	NATURAL GAS LINE (8"WC)
MPG	MEDIUM PRESURE NATURAL GAS LINE (2-5PSI)
HPG	HIGH PRESSURE NATURAL GAS LINE (5+PSI)
LPG	LIQUID PROPANE GAS LINE (11"WC)
CA	COMPRESSED AIR
LV	LAB VACUUM
LA	LAB AIR
O	MEDICAL OXYGEN
MV	MEDICAL VACUUM
MA	MEDICAL AIR
WAGD	WASTE ANESTHESIA GAS DISPOSAL
N	NITROGEN
N2O	NITROUS OXIDE
IA	MEDICAL INSTRUMENT AIR
F	FIRE PIPE
GV	GATE VALVE
BLV	BALL VALVE
BV	BALANCE VALVE
CKV	CHECK VALVE
	GAS VALVE WITH HANDLE
	PRESSURE REDUCING VALVE
	THERMOMETER
	PIPE POD/POC
	UNION
	FLEXIBLE CONNECTION
T & P	TEMPERATURE AND PRESSURE RELIEF LINE
	EXISTING ITEM TO BE REMOVED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CI	CAST IRON
CO, WCO	CLEANOUT, WALL CLEANOUT
COTF	CLEANOUT TO FLOOR
COTG	CLEANOUT TO GRADE
CP	CHROMIUM PLATED
CW (D)(R)	COLD WATER (DROP) (RISER)
DD	DECK DRAIN
Ø	DIAMETER
(E), (N)	EXISTING, NEW
FA, TB	FROM ABOVE, TO BELOW
FB, TA	FROM BELOW, TO ABOVE
FD	FLOOR DRAIN
FU	FIXTURE UNITS
GPM	GALLONS PER MINUTE
HW (D)(R)	HOT WATER (DROP) (RISER)
IE	INVERT ELEVATION
NC	NORMALLY CLOSED
OC	ON CENTER
ORD	OVERFLOW ROOF DRAIN
ORWL	OVERFLOW RAINWATER LEADER
RIO	ROUGH IN ONLY
RD	ROOF DRAIN
RWL	RAINWATER LEADER
SS	STAINLESS STEEL
TYP	TYPICAL
UC	UNDER COUNTER
UF	UNDER FLOOR
UNO	UNLESS NOTED OTHERWISE
V, VR, VTR	VENT, VENT RISER, VENT THRU ROOF
W, WD	WASTE, WASTE DROP

MECHANICAL LEGEND

HR	HEATING HOT WATER RETURN PIPE
HS	HEATING HOT WATER SUPPLY PIPE
CHR	CHILLED WATER RETURN PIPE
CHS	CHILLED WATER SUPPLY PIPE
RSL	REFRIGERANT SUCTION LINE
RLL	REFRIGERANT LIQUID LINE
D	CONDENSATE DRAIN PIPE
	EXISTING ITEM TO BE REMOVED
	FLEXIBLE CONNECTION
GV	GATE VALVE
BLV	BALL VALVE
BFV	BUTTERFLY VALVE
BV	BALANCE VALVE
CKV	CHECK VALVE
	GAS VALVE WITH HANDLE
	PRESSURE REDUCING VALVE
T&P	T&P TEST PORT
	THERMOMETER, PRESSURE GAUGE
	RETURN/EXHAUST AIR
	SUPPLY/OUTSIDE AIR
	OUTSIDE AIR DUCT SECTION
	RETURN OR EXHAUST AIR DUCT SECTION
	SUPPLY AIR DUCT SECTION
(E) (N)	DUCT POD/ POC
12x10	DUCT (FIRST FIGURE SIDE SHOWN SECOND FIGURE SIDE NOT SHOWN)
	TURNING VANES
	FLEXIBLE DUCTWORK
MVD	MANUAL VOLUME DAMPER
SLOPE	SLOPE DOWN IN DIRECTION OF ARROW
T	ROOM THERMOSTAT
S	ROOM SENSOR
Ø	DIAMETER
H	HUMIDIFIER
H	HUMIDISTAT
AC	AIR CONDITIONING
AD / AP	ACCESS DOOR, ACCESS PANEL
AFF	ABOVE FINISHED FLOOR
CC	CENTER TO CENTER
CFM / f	CUBIC FEET PER MINUTE
E	EXTRACTOR
(E) / (N)	EXISTING / NEW
EAD, OAD, RAD	EXHAUST AIR, OUTSIDE AIR & RETURN AIR DAMPER
EF	EXHAUST FAN
°F	DEGREES FAHRENHEIT
FA, TB	FROM ABOVE, TO BELOW
FB, TA	FROM BELOW, TO ABOVE
FD / FSD	FIRE DAMPER / COMBINATION FIRE-SMOKE DAMPER
GA	GAUGE
AAV / MAV	AUTOMATIC / MANUAL AIR VENT
MAX/MIN	MAXIMUM, MINIMUM
OC	ON CENTER
PD	PITCH DOWN IN DIRECTION OF ARROW
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECT
PRV	PRESSURE REDUCING VALVE
RA, EA	RETURN AIR, EXHAUST AIR
SA, OA	SUPPLY AIR, OUTSIDE AIR
TCV	TEMPERATURE CONTROL VALVE
TCP	TEMPERATURE CONTROL PANEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

DRAWING SHEET INDEX

MP001	Mechanical & Plumbing Legends, General Notes
MP002	Mechanical & Plumbing Schedules & Details
MP101	Mechanical & Plumbing Overall Floor Plan
MP102	Mechanical & Plumbing Enlarged Plans
FP101	Fire Protection Floor Plan

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JOB: 2023-064

project

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Nevada Historical Society Building

State Public Works Division
515 East Musser Street, Suite 102
Carson City, Nevada 89701

revisions

No.	Description	Date

drawn by	JB
reviewed by	AH
date	4/23/25
project number	23035

drawing name

Mechanical & Plumbing Legends, General Notes

sheet number

MP001

Conformed Documents

COMcheck Software Version 4.1.4.3

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: 2023-064 NSPWD 23-S02-2 NEVADA HISTORICAL SOCIETY ELECTRICAL UPGRADES
Location: Reno, Nevada
Climate Zone: 5b
Project Type: Alteration

Construction Site:
1650 N VIRGINIA ST.
RENO, NV 89503

Owner/Agent:
PAUL CAVIN ARCHITECT LLC
STATE PUBLIC WORKS DIVISON 515
EAST MUSSER STREET, SUITE 102,
CARSON CITY
RENO, NV 89701
775-284-7084
PAUL@PAULCAVVINDESIGN.COM

Designer/Contractor:
AINSWORTH ASSOCIATES &
MECHANICAL ENGINEERS
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RENO, NV 89502
775-329-9100

Mechanical Systems List

Quantity **System Type & Description**

1 HVAC System 1 (Single Zone):
Cooling: 1 each - Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None
Proposed Efficiency = 18.80 SEER, Required Efficiency: 13.00 SEER
Fan System: None

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.4.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

John Bigda, PE — Name - Title
Signature
10/18/24 — Date

PLUMBING FIXTURE SCHEDULE

S-1	SINK ELKAY MODEL ULUHAD211545 SINGLE COMPARTMENT 18 GAUGE 21"X15-3/4"X4-3/8" DEEP BOWL SIZE STAINLESS STEEL UNDERMOUNT SINK. FURNISH WITH CHICAGO MODEL 786-GN2FCXKABCP FAUCET (1.5GPM) WITH WRIST BLADE HANDLES, LKPD1 DRAIN STRAINER, 17 GAUGE CHROME PLATED P-TRAP, BRASSCRAFT STOPS AND RISERS.

MAXIMUM FIXTURE UNIT LOADING FOR WATER PIPE

NOMINAL PIPE SIZE (INCHES)	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
FIXTURE UNITS (WITHOUT FLUSH VALVES)	6	10	21	34	127	245	431	875	3150
FIXTURE UNITS (WITH ONE OR MORE FLUSH VALVES)	-	5	10	20	48	124	295	850	3150

NOTES
1. USE ABOVE DATA ONLY WHEN PIPE SIZES ARE NOT OTHERWISE NOTED ON THE DRAWINGS.
2. FIXTURE UNITS ARE AS LISTED FOR PUBLIC USE IN THE UNIFORM PLUMBING CODE.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	SYMBOL	WASTE		VENT	COLD WATER		HOT WATER	
		BRANCH	OUTLET		BRANCH	OUTLET	BRANCH	OUTLET
SINK	S	2"	1 1/2"	1 1/2"	3/4"	1/2"	3/4"	1/2"

NOTES 1. WATER BRANCH LINES WHERE LESS THAN 10'-0" LONG MAY BE SAME SIZE AS OUTLETS SCHEDULED ABOVE.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

SYMBOL	AREA SERVED	MANUFACTURER AND MODEL NO.	TYPE	COOLING				HEATING				LIQUID / SUCTION (IN)	PEAK AIRFLOW (CFM)	VOLTAGE/ PHASE	FLA	MCA	OPERATING WEIGHT (LBS)	NOTES / ACCESSORIES
				NOMINAL CAPACITY (MBH)	DESIGN OUTDOOR TEMP (°F)	CORRECTED CAPACITY (MBH)	LAT (°F)	NOMINAL CAPACITY (MBH)	DESIGN OUTDOOR TEMP (°F)	CORRECTED CAPACITY (MBH)	LAT (°F)							
ACI 1	ROOM 128	MITSUBISHI PKA-A36KA7	WALL-MOUNTED	36	95	32.0	55.0	-	-	-	-	3/8 / 5/8	920	208V/1PH	0.57	1	55	NOTES: 1, 2, 3, 4 ACCESSORIES: 1, 2, 3, 4

ACCESSORIES:
1. FACTORY DISCONNECT
2. WIRED CONTROLLER
3. BACNET INTERFACE
4. MINI CONDENSATE PUMP (208 VOLTS)

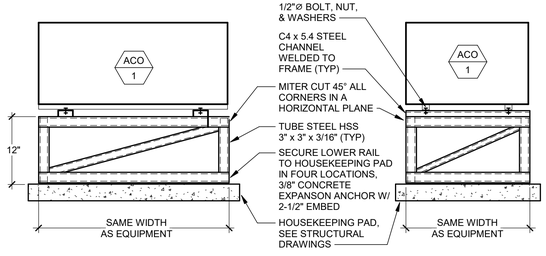
NOTES:
1. DATA HEREIN HAS BEEN ADJUSTED FOR 4,500 FT ELEVATION.
2. INDOOR UNIT POWERED BY OUTDOOR UNIT.
3. SEE SPECIFICATION SECTION 232300 FOR REFRIGERANT PIPING PRESSURE TESTING, EVACUATION, AND CHARGING REQUIREMENTS.
4. MOUNT BOTTOM OF UNIT @ +7-6" AFF.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

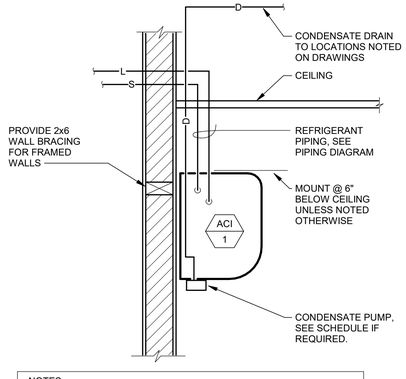
SYMBOL	MANUFACTURER AND MODEL NO.	SEER	COOLING			HEATING			ELECTRICAL			OPERATING WEIGHT (LBS)	NOTES / ACCESSORIES
			NOMINAL CAPACITY (MBH)	DESIGN OUTDOOR TEMP (°F)	CORRECTED CAPACITY (MBH)	NOMINAL CAPACITY (MBH)	DESIGN OUTDOOR TEMP (°F)	CORRECTED CAPACITY (MBH)	VOLTAGE/ PHASE	MCA	MOCP		
ACO 1	MITSUBISHI PUY-A36NKA7	18.8	36	95	32.0	-	-	-	208V/1PH	25.0	31	250	NOTES: 1, 2 ACCESSORIES: 1, 2, 3, 4

ACCESSORIES:
1. FACTORY DISCONNECT
2. WIND BAFFLE
3. COOLING ONLY UNIT
4. HAIL GUARD

NOTES:
1. DATA HEREIN HAS BEEN ADJUSTED FOR 4,500 FT ELEVATION.
2. UNITS SELECTED WITH R-410A REFRIGERANT.

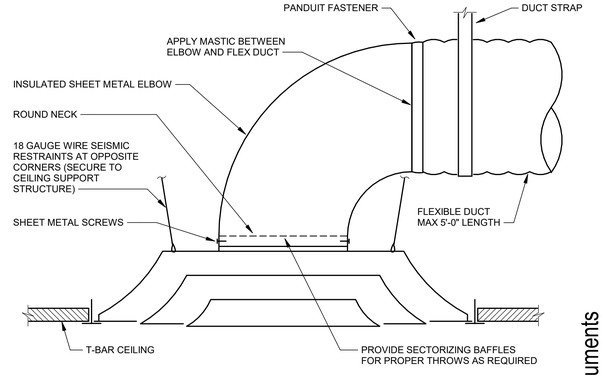


GROUND MOUNTED HEAT PUMP SUPPORT STAND — 1 MP002
SCALE: NONE



NOTES:
1. INSTALL UNIT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. SEE SPECIFICATION SECTION 232400 (REFRIGERANT PIPING AND ACCESSORIES) FOR ADDITIONAL REQUIREMENTS.

ACI (WALL MOUNTED) — 2 MP002
SCALE: NONE



CEILING DIFFUSER (T-BAR CEILING) — 3 MP002
SCALE: NONE

Conformed Documents

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JOB: 2023-064

project

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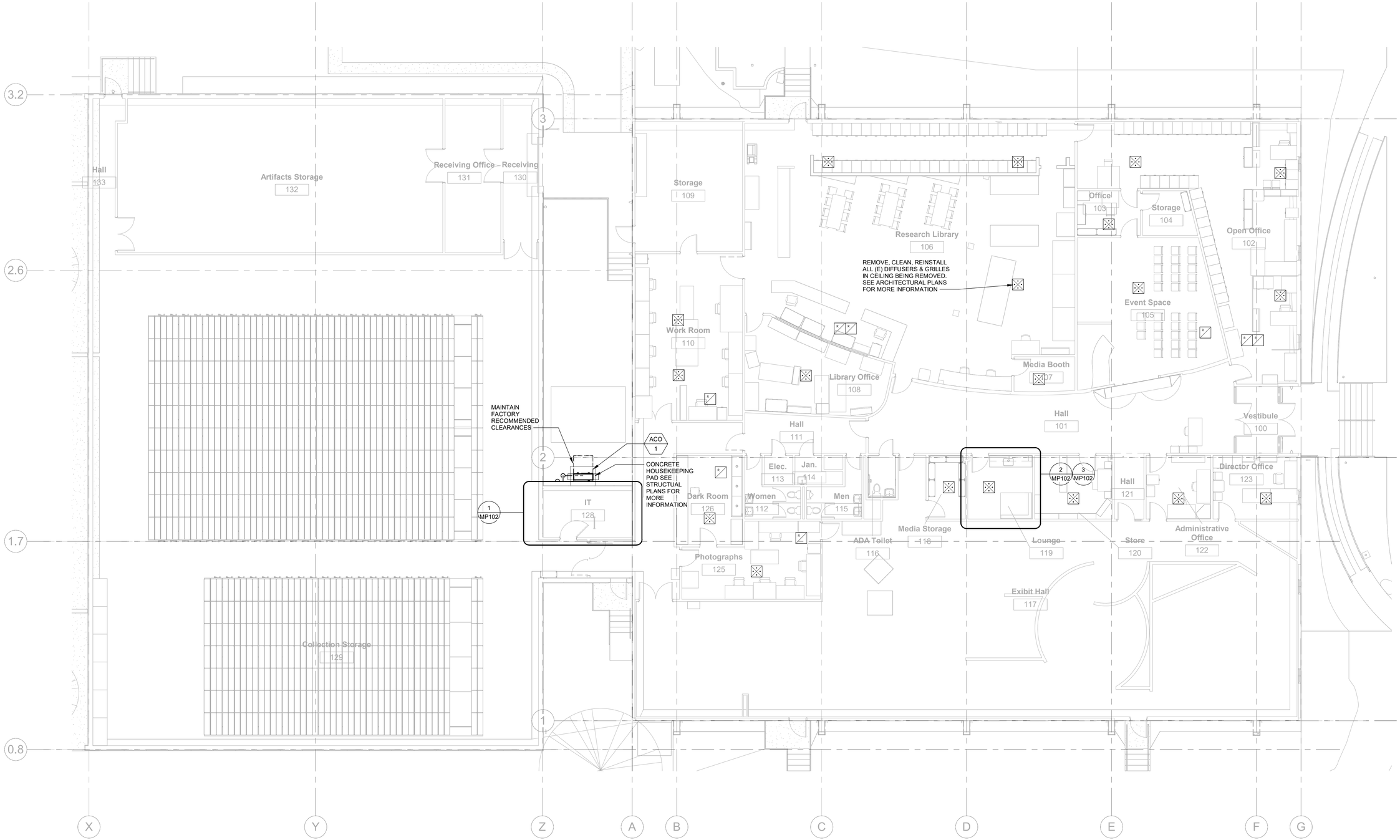
drawn by	JB
reviewed by	AH
date	4/23/25
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Mechanical & Plumbing Schedules & Details

sheet number

MP002



Mechanical & Plumbing Overall Floor Plan

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

1 / MP101

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ALISON D. HALL — No. 06-30-25 — MECHANICAL — No. 21194 — STATE OF NEVADA — PROFESSIONAL ENGINEER

04/03/2025

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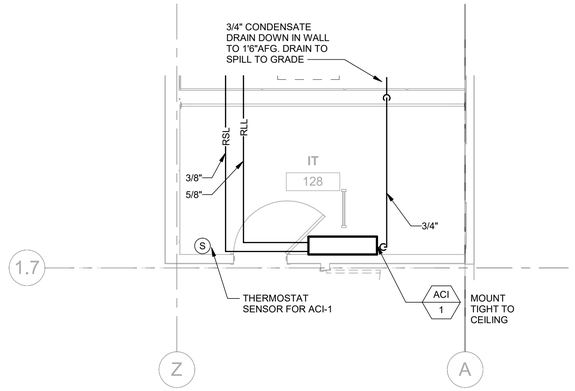
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Mechanical & Plumbing Overall Floor Plan

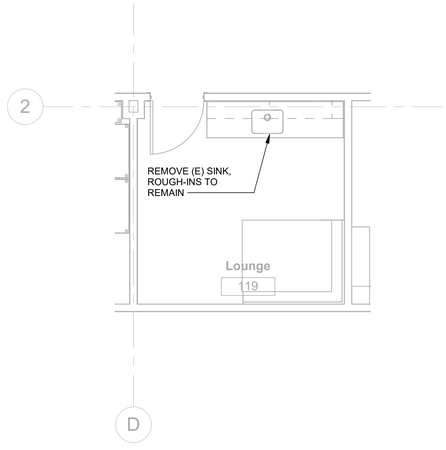
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MP101

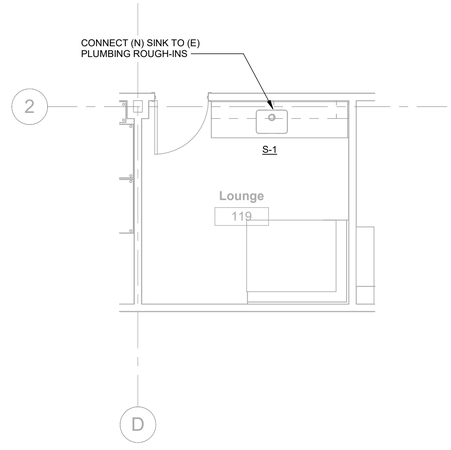
Conformed Documents



Mechanical Enlarged Plan - Room 128 (1 / MP102)
SCALE: 1/4" = 1'-0"



Plumbing Demolition Enlarged Plan - Lounge 119 (2 / MP102)
SCALE: 1/4" = 1'-0"



Plumbing Alterations Enlarged Plan - Lounge 119 (3 / MP102)
SCALE: 1/4" = 1'-0"

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drawing name

Mechanical & Plumbing Enlarged Plans

sheet number

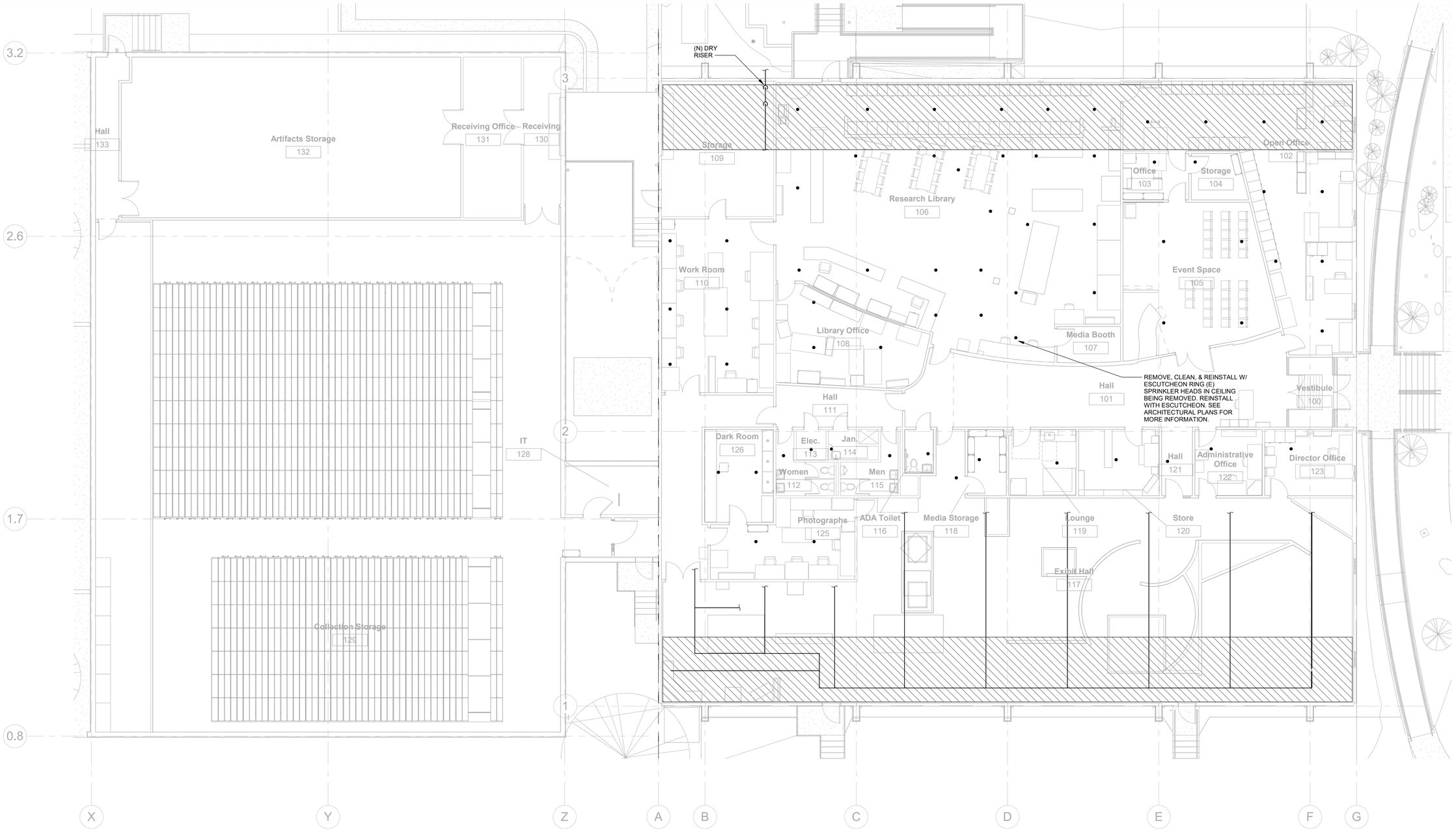
MP102

Conformed Documents

GENERAL NOTES

1. THIS DRAWING IS INFORMATIONAL ONLY AND IS INTENDED TO AID IN THE PREPARATION OF CONTRACTOR BIDS.
2. HATCHED REGION REPRESENTS AREA TO BE FIRE PROTECTED.
3. EXISTING FIRE SPRINKLER SYSTEM SHALL BE UTILIZED AND MODIFIED FOR NEW CONDITIONS. DESIGN OF THE FIRE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13, LOCAL AND STATE AUTHORITIES BY A NEVADA LICENSED FIRE PROTECTION PROFESSIONAL. WORK INCLUDES INSTALLATION OF NEW PIPING AND HEADS AS REQUIRED TO ACCOMMODATE NEW FLOOR PLAN, DUCTWORK, PIPING AND CONDUITS. SEE SPECIFICATIONS AND DRAWINGS FOR PROJECT REQUIREMENTS. ANY DEMOLISHED ITEMS INCLUDING PIPING, VALVES, SUPPORTS, ETC MAY NOT BE REUSED.
4. FIRE SPRINKLER CONTRACTOR SHALL PERFORM A HYDRAULIC ANALYSIS TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMANCE OF WORK.
5. EXACT LOCATIONS OF NEW HEADS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT.
6. THE EXISTING SPRINKLER SYSTEM OUTSIDE OF THE PROJECT BOUNDARY SHALL EXPERIENCE A SINGLE COORDINATED SERVICE INTERRUPTION AS REQUIRED TO MODIFY THE SYSTEM WITHIN THE PROJECT BOUNDARY.
7. ALL SPRINKLER HEADS WITHIN THE PROJECT BOUNDARY SHALL MATCH THE OTHER FLOOR'S HEAD TYPES.
8. THE FIRE SPRINKLER CONTRACTOR/DESIGNER SHALL OBTAIN WATER SUPPLY INFORMATION FROM THE CITY OF RENO FIRE DEPARTMENT AND/OR THE TRUCKEE MEADOWS WATER AUTHORITY.
9. CONTRACTOR SHALL PROVIDE PIPING COMPONENTS TO ALLOW FOR PIPE MOVEMENT AT SEISMIC JOINTS. REVIEW STRUCTURAL DRAWINGS FOR EXPANSION JOINT INFORMATION.
10. SEE CENTRAL UTILITY PLANT AND REGIONAL MATERIALS MANAGEMENT BUILDING DRAWING SHEETS FOR AVAILABLE FIRE PROTECTION SYSTEMS
11. DO NOT ROUTE ANY PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT OR PANELS.
12. 5 YEAR INTERNAL PIPE OBSTRUCTION INSPCECTION & FDC HYDROSTATIC TESTING TO BE PREFORMED AS PART OF THE PROJECT SCOPE.
13. ALL NEW PIPING IS TO BE STEEL WITH SCREWED FITTINGS FOR PIPING 2" AND SMALLER AND WELDED, GROOVED OR MECHANICAL T OUTLETS FOR PIPING 2.5" AND LARGER. PLAIN END PIPING CONNECTIONS WILL NOT BE ACCEPTABLE. PLASTIC PIPING WILL NOT BE ACCEPTABLE. ALL PIPING TO BE CONCEALED ABOVE CEILINGS UNLESS OTHERWISE NOTED PIPING IS TO BE INSTALLED TO DRAIN IN STRICT ACCORDANCE WITH NFPA 13. PIPING SHALL RUN STRAIGHT AND TRUE WITH BUILDING FEATURES.
14. SYSTEM SHALL BE HYDRAULICALLY DESIGNED. CONTRACTOR SHALL OBTAIN WATER SUPPLY INFORMATION AND DETERMINE SPRINKLER HEAD SPACING AND DESIGN DENSITIES FOR HYDRAULIC CALCULATIONS.
15. CONTRACTOR SHALL HOLD A VALID NEVADA CONTRACTORS LICENSE FOR THE TYPE OF WORK BEING PERFORMED.
16. ALL PIPING SHALL BE SUSPENDED AND BRACED IN STRICT ACCORDANCE WITH NFPA 13 AND FACTORY MUTUAL.
17. AIR COMPRESSOR FOR DRY SPRINKLER SYSTEM SHALL BE REPLACED WITH A LARGER UL LISTED COMPRESSOR PER INSPECTION REPORT DATED 11/13/2023.
18. SPRINKLER HEAD ESCUTCHEON RINGS SHALL BE REPLACED THROUGH FACILITY PER FIRE INSPECTION REPORT DATED 11/13/2023.
19. THIS IS A PERFORMANCE SPECIFICATION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PERMITS, FEES, DESIGN, MATERIAL, FABRICATION, STORAGE, INSTALLATION, TESTING AND CLEANUP FOR A COMPLETE AND OPERABLE SYSTEM. SYSTEM SHALL MEET THE REQUIREMENTS NFPA 13, 24, NEC, LOCAL AND STATE BUILDING OFFICIALS, AND HEALTH DEPARTMENT. SCOPE OF WORK INCLUDES A COMPLETE AND OPERABLE WET FIRE SPRINKLER AND STANDPIPE SYSTEM THROUGHOUT.
    A. ALARM DEVICES WITH WIRING CONNECTIONS FOR ELECTRICAL/ALARM CONTRACTOR.
    B. SUBMIT COMPLETE SET OF DRAWINGS, CALCULATIONS AND CATALOG CUTS OF MATERIALS TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL. OBTAIN APPROVAL PRIOR TO INSTALLATION. DRAWINGS AND CALCULATIONS SHALL BE SIGNED BY A NICET CERTIFIED LEVEL III FIRE SYSTEMS TECHNICIAN.

HATCHED REGIONS REPRESENT AREAS OF STRUCTURAL RECONFIGURATION. THE EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE REMODELED TO SUIT THE NEW CONDITIONS IN ACCORDANCE WITH NFPA 13, LOCAL AND STATE AUTHORITIES.



Fire Protection Overall Floor Plan
SCALE: 1/8" = 1'-0"
1 / FP101

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JOB: 2023-064

project

Paul Cavin Architect LLC
Nevada Historical Society Building

State Public Works Division
515 East Musser Street, Suite 102
Carson City, Nevada 89701

revisions

No.	Description	Date

drawn by	JB
reviewed by	AH
date	4/23/25
project number	23035

drawing name

Fire Protection Floor Plan

sheet number

FP101

Conformed Documents

FIRE ALARM LEGEND & GENERAL NOTES

	FIRE ALARM CONTROL PANEL (FACP) OR REMOTE ANNUNCIATOR PANEL (FAAP): FLUSH MOUNTED, 60" TO CL OF LCD DISPLAY		HORN: CEILING MOUNT
	FIRE ALARM CONTROL PANEL (FACP) / REMOTE ANNUNCIATOR PANEL (FAAP) / VOICE EVAC PANEL (FAVP): SURFACE MOUNTED, 60" TO CL OF LCD DISPLAY.	cd	HORN/STROBE: WALL MOUNT 80" AFF TO BOTTOM OF LENS NOTE CANDELA
	BOOSTER POWER SUPPLY (BPS): SURFACE MOUNTED	cd	HORN/STROBE: CEILING MOUNT NOTE CANDELA
F	MANUAL PULL STATION: MOUNT AT 48" TO CENTER LINE UNO	w	SPEAKER: WALL MOUNT 90" AFF TO TOP OF DEVICE AND NOT LESS THAN 6" BELOW CEILING
(S)P I (S)P I	SMOKE DETECTOR: (P) PHOTOELECTRIC, (I) IONIZATION, (M) MULTI TECHNOLOGY, (H) HORN (LO) LOCAL-ONLY 120V WINTEGRAL BATTERY: CEILING MOUNT / WALL MOUNT	w cd w	SPEAKER: CEILING MOUNT SPEAKER/STROBE: WALL MOUNT 80" AFF TO BOTTOM OF LENS NOTE CANDELA
(S)H LO (S)H LO	LOCAL-ONLY SMOKE DETECTOR: 120V, INTEGRAL BATTERY, WITH HORN & STROBE, CEILING MOUNT OR WALL MOUNT AT 12" BELOW CEILING.	cd w	SPEAKER/STROBE: CEILING MOUNT NOTE CANDELA
(S) BT (S) BR	BEAM DETECTOR: (BT) TRANSMITTER, (BR) RECEIVER WALL MOUNT PER MANUFACTURERS SPECIFICATIONS	15cd	STROBE: WALL MOUNT 80" AFF TO BOTTOM OF LENS NOTE CANDELA
	HEAT DETECTOR: (ROR) RATE OF RISE, (F) FIXED, TEMP 135° OR 190° CEILING MOUNT / WALL MOUNT	cd	STROBE: CEILING MOUNT NOTE CANDELA
MM	MONITOR MODULE: AT OR NEAR DEVICE	F	FIRE BELL: MOUNTED PER LOCAL CODE
CR	CONTROL RELAY MODULE: AT OR NEAR DEVICE	J	FIRE ALARM JUNCTION BOX, W/RED COVER & FA CKT LABEL
IM	ISOLATOR MODULE: AT OR NEAR DEVICE	KH	HOOD FIRE SUPPRESSION SYSTEM CONNECTION
PM	MULTI-VOLTAGE RELAY: AT OR NEAR DEVICE	AL	REMOTE ALARM LAMP
SM	SINGLE INPUT MODULE: AT OR NEAR DEVICE	FS	FIRE SPRINKLER FLOW SWITCH
DM	DUAL INPUT MODULE: AT OR NEAR DEVICE	TS	FIRE SPRINKLER TAMPER SWITCH
DH	MAGNETIC DOOR HOLDER: SYSTEM POWERED AND CONTROLLED UNO, MOUNTING PER PLANS	FSD	FIRE/SMOKE DAMPER: COORDINATE INSTALLATION AND MOTOR DE-ENERGIZE PROCEDURES WITH MECHANICAL CONTRACTOR. ELECTRICQAL CONTRACTOR SHALL PROVIDE RACEWAY, POWER, AND CONTROL WIRE AS NECESSARY.
J/H	FIREMAN'S PHONE: MOUNTED AT +48" TO TOP UNO, JACK OR HANDSET		
EOLR	END OF LINE RESISTOR	(S) D	DUCT SMOKE DETECTOR: 1 EA AT SUPPLY (2000 CFM) 1 EA RETURN & SUPPLY (15,000 CFM)
	HORN: WALL MOUNT 90" AFF TO TOP OF DEVICE AND NOT LESS THAN 6" BELOW CEILING		

NOTES:

1. THE CONTRACTOR SHALL SERVE AS THE CITY/STATE LICENSED DESIGNER AND INSTALLER FOR THE FIRE ALARM SYSTEM. A COMPLETE TURN-KEY SYSTEM SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR INCLUDING, BUT NOT LIMITED TO THE CONTROL PANEL, DEVICES, MODULES, EQUIPMENT ETC. REQUIRED FOR A COMPLETE SYSTEM. INSTALL AN APPROVED MANUAL, AUTOMATIC, OR MANUAL AND AUTOMATIC FIRE ALARM SYSTEM IN ACCORDANCE WITH THE PROVISIONS OF THE IFC, IBC, NFPA-70, NFPA-72, NFPA-101, NEC 760, ADA AND LOCAL AHJ REQUIREMENTS.
2. THE CONTRACTOR'S DESIGN AND BID SHALL BE BASED ON ALL PROJECT DRAWINGS AND SPECIFICATIONS FOR ALL DISCIPLINES, INCLUDING BUT NOT LIMITED TO MECHANICAL, FIRE SPRINKLER, KITCHEN, ARCHITECTURAL, SECURITY, BUILDING AUTOMATION, AND STRUCTURAL SYSTEMS. FIRE ALARM DEVICES AS SHOWN ON PLANS ARE SHOWN DIAGRAMMATICALLY FOR BIDDING PURPOSES ONLY AND IS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS AS MINIMUM CRITERIA. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL AHJ AND COMPLY WITH APPLICABLE CODES FOR ANY ADDITIONAL DEVICES OR EQUIPMENT THAT MAY BE REQUIRED.
3. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE LOCAL AHJ AND THE ENGINEER OF RECORD.
4. FIRE ALARM SYSTEM SHALL BE CLASS 1 CIRCUITING AS REQUIRED BY LOCAL AHJ AND NFPA-70.
5. ALL FIRE ALARM WIRING TO BE RUN IN 3/4" CONDUIT.
6. BATTERY BACKUP SYSTEM SHALL BE CALCULATED TO PROVIDE A MINIMUM OF 24 HOURS OF STANDBY AND A MINIMUM OF 5 MINUTES OF ALARM OR PER AHJ REQUIREMENTS.
7. CENTRAL STATION MONITORING SHALL BE BY A CELLULAR DIALER. LOCATE ADJACENT TO FACP. DIALER SHALL COMMUNICATE BY POINT-ID TO MONITORING STATION.
8. FIRE ALARM NOTIFICATION APPLIANCE CANDELA VALUE SHALL MEET THE REQUIREMENTS OF NFPA 72, BASED ON ROOM SIZE. IT IS THE CONTRACTORS RESPONSIBILITY TO ADD ADDITIONAL NOTIFICATION APPLIANCES AS REQUIRED TO COMPLY WITH THE REQUIREMENTS OF NFPA 72.
9. MANUAL PULL STATIONS SHALL BE MOUNTED 48" TO CENTER OF DEVICE.
10. DETECTORS ARE NOT TO BE LOCATED IN A DIRECT AIRFLOW OR CLOSER THAN 3' FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING IN ACCORDANCE WITH NFPA-72 A.17.7.4.1.
11. DETECTOR LOCATION FOR DOOR HOLD ACTIVATION SHALL BE PER NFPA-72, 17.7.5.6.6.1, (1-3), WHEN REQUIRED.
12. AREA SMOKE DETECTION AND DUCT DETECTORS SHALL SHUT DOWN ALL MECHANICAL UNITS.
13. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A FINAL INSPECTION AND TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE LOCAL AHJ. A COPY OF THE RECORD OF COMPLETION AND CERTIFICATE OF OCCUPANCY SHALL BE SUBMITTED TO THE ENGINEER OF RECORD.

ELECTRICAL LEGEND

- PANELBOARD: SURFACE MOUNTED
- PANELBOARD: FLUSH MOUNTED
- SWITCHBOARD OR DISTRIBUTION PANEL
- XF TRANSFORMER
- PULLBOX / VAULT
- MOTOR STARTER
- COMBINATION MOTOR STARTER
- COMBINATION MOTOR STARTER PROVIDED BY OTHERS (COORDINATE WITHSTAND RATINGS WITH EQUIPMENT SUPPLIER)
- F DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE)
- N DISCONNECT SWITCH - NON-FUSIBLE
- DISCONNECT SWITCH PROVIDED BY OTHERS (COORDINATE WITHSTAND RATINGS WITH EQUIPMENT SUPPLIER)
- VARIABLE FREQUENCY DRIVE
- VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS (COORDINATE WITHSTAND RATINGS WITH EQUIPMENT SUPPLIER)
- CB ENCLOSED CIRCUIT BREAKER
- GROUND ROD
- SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON
- M REMOTE METER

- $ SINGLE POLE SWITCH 48" AFF
- $3 THREE WAY SWITCH 48" AFF
- $4 FOUR WAY SWITCH 48" AFF
- $K KEY OPERATED SWITCH 48"
- $L SWITCH WITH LIGHTED HANDLE
- $M MANUAL MOTOR STARTER
- $P SWITCH WITH PILOT LIGHT 48" AFF
- $T TIME WALL SWITCH EQUAL TO HUBBELL DT2000W 48" AFF
- DIMMER OPERATED SWITCH 48" AFF
- OCCUPANCY SENSOR - WALL MOUNTED 48" AFF
- D 0-10V DIMMING OCCUPANCY SENSOR - WALL MOUNTED 48" AFF EQUAL TO SENSOR SWITCH WSX-D
- OS OCCUPANCY SENSOR - CEILING MOUNTED. PROVIDE WITH POWER PACK PER MFG REQUIREMENTS.
- OS OCCUPANCY SENSOR - CORNER MOUNTED, PROVIDE WITH POWER PACK PER MFG REQUIREMENTS.
- CONTROL STATION
- CONTACTOR OR RELAY
- PC PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO)
- TC TIMECLOCK

- CONDUIT/RACEWAY IN WALL OR ABOVE CEILING
- CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR
- BREAK OR RUN CONTINUES
- OH OVERHEAD SERVICE
- P PRIMARY
- S SECONDARY
- C COMMUNICATIONS OR SIGNAL
- T TELEPHONE
- TV TELEVISION
- LOW VOLTAGE AND/OR CONTROL WIRING
- EMERGENCY CIRCUIT
- CONDUIT/RACEWAY STUB OUT: MARK AND CAP (SITE)
- CONDUIT/RACEWAY SLEEVE

E = EQUIPMENT
H = ELECTRIC HEAT
K = KITCHEN EQUIP
L = LIGHTING
M = MOTOR
M1 = LARGEST MOTOR
R = RECEPTACLES

- SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF
- DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF
- DUPLEX RECEPTACLE: HALF SWITCHED, +18" AFF
- DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI +18" AFF
- QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF
- ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE), 20A, 125V, NEMA 5-20IG, +18" AFF
- COMBO DUAL USB CHARGER / DUPLEX RECEPTACLE, 5,1A, (1) TYPE A & (1) TYPE C USB (3.1, 3.0, 2.0 AND 1,1 COMPATIBLE), 20A, 125V, NEMA 5-20R, +18AFF
- QUAD USB CHARGER, 5.1A, (2) TYPE A & (2) TYPE C USB (3.1, 3.0, 2.0 AND 1,1 COMPATIBLE), +18AFF
- SPECIAL PURPOSE RECEPTACLE: SEE DWGS FOR NEMA CONFIGURATION
- DUPLEX RECEPTACLE: FLOOR MOUNTED
- QUAD RECEPTACLE: FLOOR MOUNTED
- DUPLEX RECEPTACLE: CEILING MOUNTED
- QUAD RECEPTACLE: CEILING MOUNTED
- BLANK GFCI PROTECTIVE DEVICE IN READILY ACCESSIBLE LOCATION (LABEL PROTECTED DEVICES)
- DUPLEX "CLOCK" RECEPTACLE: 125V, NEMA 5-20R, +60" AFF
- X" DEVICE MOUNTED AT NON-STANDARD HEIGHT. IF NO HEIGHT SHOWN VERIFY HEIGHT WITH ARCHITECT
- MULTI-OUTLET ASSEMBLY: SPACING PER DWGS

- DATA / VOICE OUTLET: 18" AFF - 1 VOICE, 1 DATA JACK, 2 BLANKS
- DATA / VOICE OUTLET: FLOOR MOUNTED
- MULTI-OUTLET ASSEMBLY: SPACING PER DWGS
- TELEPHONE OUTLET: 18" AFF
- DATA OUTLET: 18" AFF
- DEVICE MOUNTED AT NON-STANDARD HEIGHT. IF NO HEIGHT SHOWN VERIFY HEIGHT WITH ARCHITECT
- S SPEAKER
- TV TELEVISION OUTLET: 18" AFF (UNO)
- TELEPHONE TERMINAL BOARD (TTB)
- VC VOLUME CONTROL
- GROUNDING BAR

* FIXTURE SCHEDULE HAS PRECEDENCE *

- LENSED TROFFER
- VOLUMETRIC TROFFER
- FLANGED TROFFER
- SURFACE MOUNT TROFFER
- STRIP FIXTURE
- DOWNLIGHT
- WALL PACK
- POLE MOUNT
- EMERGENCY LIGHTING UNIT
- EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS INDICATE DIRECTION
- SHADING INDICATES EGRESS FIXTURE

- T THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO)
- J JUNCTION BOX (SIZE AS REQUIRED UNO)
- 3 SHEET NOTE DESIGNATION
- F1 FIXTURE DESIGNATION: F1=TYPE (SEE FIXTURE SCH.)
- 3 REVISION DELTA: NUMBER REPRESENTS REVISION
- 1253 FEEDER DESIGNATION
- AHU / 2 EQUIPMENT CONNECTION

- GFI GROUND FAULT INTERRUPTER DEVICE
- M METERING DEVICE
- IM REMOTE METER
- ST SHUNT TRIP DEVICE
- TRANSFORMER
- CURRENT TRANSFORMER
- G GENERATOR
- # MOTOR - # INDICATES HP
- INTERRUPTER SWITCH
- GFI GROUND FAULT RELAY W/ CT OR SENSOR
- FUSE
- CIRCUIT BREAKER
- DRAWOUT CIRCUIT BREAKER
- A / 3 TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) # FOR POLES 2, 3 OR 4
- SPD SURGE PROTECTION DEVICE

- NORMALLY OPEN (NO) CONTACT
- NORMALLY CLOSED (NC) CONTACT
- C COIL - VOLTAGE PER CONTROL DIAGRAMS
- R PILOT LIGHT (LED) PUSH-TO-TEST, LETTER INDICATES COLOR (R=RED, G=GREEN, A=AMBER, Y=YELLOW)
- PILOT LIGHT (LED) NON PUSH-TO-TEST
- THERMAL OVERLOAD
- MAGNETIC OVERLOAD
- PUSH BUTTON NORMALLY OPEN (NO)
- PUSH BUTTON NORMALLY CLOSED (NC)
- H O A HAND-OFF-AUTO (HOA) SELECTOR SWITCH
- LIMIT SWITCH NORMALLY OPEN (NO)
- LIMIT SWITCH NORMALLY CLOSED (NC)
- R PUSH BUTTON ILLUMINATED (LED)

TICS = NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING CONDUCTOR (NOT SHOWN) ALWAYS REQUIRED.

ISOLATED GROUNDING CONDUCTOR
NEUTRAL CONDUCTOR
PHASE CONDUCTOR(S)

BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR

HOMERUN TO PANELBOARD OR DEVICE

HA-[1,3,5,3N]G HOMERUN CIRCUIT DESIGNATION
GROUNDING CONDUCTOR
NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS)
PHASE CONDUCTOR(S)
PANELBOARD DESIGNATION

HA-(1,3,5)G HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN)
GROUNDING CONDUCTOR
PHASE CONDUCTOR(S)
PANELBOARD DESIGNATION

NOTE: "(E)" IN HOMERUN INDICATES NEW HOMERUN TO EXISTING PANEL

A	AMPS
ADA	AMERICANS WITH DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFCI	ARC-FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMP INTERRUPTING CAPACITY
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BKR	BREAKER
C	CONDUIT/RACEWAY
CEC	CALIFORNIA ENERGY COMMISSION
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT/RACEWAY ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DISTRIBUTION BOARD
DDC	DIRECT DIGITAL CONTROLLER
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING
(E)	EXISTING TO REMAIN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
(F)	FUTURE
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT (STEEL)
FPEN	FUSE PER EQUIP. NAMEPLATE
GFI	GROUND FAULT INTERRUPT
GFR	GROUND FAULT RELAY
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO SWITCH
HP	HORSEPOWER
HSKP	HOUSEKEEPING
IMC	INTERMEDIATE METAL CONDUIT
J-BOX	JUNCTION BOX
K	kcmil (300K = 300 kcmil)
KVA	KILOVOLT AMPS
KW	KILOWATT
LTG	LIGHTING
IG	ISOLATED GROUND
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MFG	MANUFACTURER
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTS	MANUAL TRANSFER SWITCH
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NVE	NV ENERGY
P	POLE
PH/Ø	PHASE
PV	PHOTOVOLTAIC
PNL	PANEL
PTC	PV USA TEST CONDITIONS
PWR	POWER
(R)	RELOCATE/RELOCATED
(RR)	REMOVE AND REPLACE
RAC	RIGID ALUMINUM CONDUIT
RFC	RIGID FIBERGLASS CONDUIT
RSC	RIGID STEEL CONDUIT
SE	SERVICE ENTRANCE
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
STC	STANDARD TEST CONDITIONS
SW	SWITCH
TE	TELECOM
TTB	TELEPHONE TERMINATION BOARD
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UNSW	UNSWITCHED
UPS	UNINTERRUPTED POWER SUPPLY
V	VOLTS
VA	VOLT AMPS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WP	WEATHER PROOF
(X)	EXISTING TO BE REMOVED
XFMR OR XF	TRANSFORMER

NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS. HEIGHTS GIVEN ARE TO TOP OF BOX.

DRAWING SCHEDULE

SHEET	DESCRIPTION	
E001	Legends & Drawing Schedule	●
E002	Fixture Schedule and IECC	●
E003	Oneline Diagrams	●
E004	Details	●
E005	Panel Schedules	●
E006	Panel Schedules and Calculations	●
E101	Demolition Electrical Site Plan	●
E102	New Electrical Site Plan	●
E201	Electrical Demolition Plan - Museum	●
E202	Electrical Demolition Plan - Collections	●
E203	Electrical Demolition Plan - Roof	●
E301	Lighting Plan - Museum	●
E302	Lighting Plan - Collections	●
E401	Power Plan - Museum	●
E402	Power Plan - Collections	●
E403	Roof Electrical Plan	●
E501	Fire Alarm Plan - Museum	●
E502	Fire Alarm Plan - Collections	●
E503	Roof Fire Alarm Plan	●
	TOTAL SHEETS IN ISSUE:	19

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project

Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

drawing name

Legends & Drawing Schedule

sheet number

E001

Conformed Documents

COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: NV Historical Society Renovations
Project Type: Alteration

Construction Site:
1650 North Virginia Street
Reno, NV 89503

Owner/Agent:
NV Historical Society
1650 North Virginia Street
Reno, NV 89503

Designer/Contractor:
PK Electrical Inc.
681 Sierra Rose Dr. Ste. B
Reno, NV 89511

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Museum & Archives (Museum)	22000	1.06	23320
		Total Allowed Watts =	23320

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)
Museum & Archives (Museum 22000 sq ft)				
LED 1: L1: 2X2 LAY-IN: Other:	1	105	25	2625
LED 2: L2: 2X2 LAY-IN: Other:	1	4	36	144
LED 3: L3: 2X2 LAY-IN: Other:	1	8	46	368
LED 4: L4: 6" DOWNLIGHT: Other:	1	18	19	342
LED 5: L5: 6" DOWNLIGHT: Other:	1	2	14	28
LED 6: L6: 4' STRIP: Other:	1	6	33	198
LED 7: L7: 2X4 SURFACE: Other:	1	219	38	8322
LED 8: L8: 3' ROUND SUSPENDED: Other:	1	7	102	714
LED 9: L9: 2' ROUND SUSPENDED: Other:	1	3	61	183
LED 10: L10: 2' ROUND SURFACE MOUNT: Other:	1	1	46	46
LED 11: L11: 2' VANITY: Other:	1	2	10	20
LED 12: L13: 1X4 RECESSED: Other:	1	2	30	60
		Total Proposed Watts =		13050

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 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Karen D. Purcell, PE — Name - Title
Signature
4/23/25 — Date

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: NV Historical Society Renovations
Project Type: Alteration
Exterior Lighting Zone: 4 (High activity metropolitan commercial district (LZ4))

Construction Site:
1650 North Virginia Street
Reno, NV 89503

Owner/Agent:
NV Historical Society
1650 North Virginia Street
Reno, NV 89503

Designer/Contractor:
PK Electrical Inc.
681 Sierra Rose Dr. Ste. B
Reno, NV 89511

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Exit Doors & Under Bldg Lighting (Walkway >= 10 feet wide)	3500 ft2	0.14	Yes	490
			Total Tradable Watts (a) =	490
			Total Allowed Watts =	490
			Total Allowed Supplemental Watts (b) =	900

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 900 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)
Exit Doors & Under Bldg Lighting (Walkway >= 10 feet wide 3500 ft2): Tradable Wattage				
LED 2: L12: SURFACE MOUNT LINEAR: Other:	1	1	320	320
			Total Tradable Proposed Watts =	320

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 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Karen D. Purcell, PE — Name - Title
Signature
4/23/25 — Date

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.

LIGHTING SYSTEM FOOTCANDLE LEVELS ARE BASED ON THE UTILIZATION OF STANDARD REFLECTANCES OF 80-50-20 (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 INLINE WITH THE REFLECTANCES MENTIONED ABOVE.

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.

L1	25 VA	2X2, LAY-IN FIXTURE WITH CONCAVE CURVED LENS AND 0-10V DIMMING CAPABILITIES. SOURCE: LED, 3000 LUMEN, 4000K, 80CRI VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS AP-22-L30/840-DIM-UNV SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L2	36 VA	2X2, LAY-IN FIXTURE WITH CONCAVE CURVED LENS AND 0-10V DIMMING CAPABILITIES. SOURCE: LED, 4000 LUMEN, 4000K, 80CRI VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS AP-22-L40/840-DIM-UNV SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L3	46 VA	2X2, LAY-IN FIXTURE WITH CONCAVE CURVED LENS AND 0-10V DIMMING CAPABILITIES. SOURCE: LED, 5000 LUMEN, 4000K, 80CRI VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS AP-22-L50/840-DIM-UNV SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L4	19 VA	6" DOWNLIGHT WITH FLUSH LENS, WIDE OPTICS AND 0-10V DIMMING CAPABILITIES. SOURCE: LED, 2000 LUMENS, 4000K, 80CRI VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS 6DR-TL-L20/840-DIM-UNV-L-W-OF-WH-N-F1 SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L5	27 VA	6" DOWNLIGHT WITH FLUSH LENS, WIDE OPTICS AND 0-10V DIMMING CAPABILITIES. SOURCE: LED, 3000 LUMENS, 4000K, 80CRI VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS 6DR-TL-L30/840-DIM-UNV-L-W-OF-WH-N-F1 SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L6	33 VA	4', SURFACE AND/OR SUSPENDED MOUNT STRIP FIXTURE WITH ROUND LENS AND 0-10V DIMMING CAPABILITIES. SOURCE: LED, 5000 LUMENS, 4000K, 80CRI VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS 75R-4-L50/840-DIM-UNV SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L7	38 VA	2X4, SURFACE MOUNT FIXTURE WITH FLAT PANEL LENS AND 0-10V DIMMING CAPABILITIES WITH SELECTABLE LUMEN AND COLOR TEMPERATURE. CONTRACTOR SHALL SET FIXTURE TO 40W, 4000K COLOR TEMPERATURE UPON INSTALLATION. SOURCE: LED, MULTI SELECT LUMEN, 80CRI VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS BP-24-LS/8CS-DIM-UNV SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L8	102 VA	3' DIAMETER SUSPENDED PENDANT MOUNT CIRCLE LUMINAIRE WITH SEAMLESS FINISH, DIRECT/INDIRECT OUTPUT AND 0-10V DIMMING CAPABILITIES. SOURCE: LED, 10661 LUMENS, 4000K, 90CRI VOLTAGE: 120 V MANUFACTURER: FINELITE HP-4C-P-ID-3'-S-H-940-TG-F-96-120-SC-FC-10%-FA50-C4-SW SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L9	61 VA	2' DIAMETER SUSPENDED PENDANT MOUNT CIRCLE LUMINAIRE WITH SEAMLESS FINISH, DIRECT/INDIRECT OUTPUT AND 0-10V DIMMING CAPABILITIES. SOURCE: LED, 10661 LUMENS, 4000K, 90CRI VOLTAGE: 120 V MANUFACTURER: FINELITE HP-4C-P-ID-2'-S-H-940-TG-F-96-120-SC-FC-10%-FA50-C4-SW SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L10	46 VA	2', ROUND SURFACE MOUNT FIXTURE WITH 0-10V DIMMING CAPABILITIES. SOURCE: LED, 4500 LUMENS, 4000K, 80CRI VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS RNDS-2-L45/840-FXA-DIM-UNV SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L11	10 VA	2', VANITY STRIP FIXTURE WITH FROSTED HIGH-IMPACT ARCRYLIC LENS AND 0-10V DIMMING CAPABILITIES. SOURCE: LED, 1300 LUMENS, 4000K, 80CRI VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS SLF-2-L13/840-HIA-DIM-UNV SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L12	4 VA/PER FT	EXTERIOR MOUNTED LINEAR COVE FIXTURE WITH DIFFUSED CURVED LENS, 45 DEGREE ANGLED, 130 DEGREE BEAM ANGLE AND RGBW COLOR TUNING CAPABILITIES. PROVIDE ALL POWER SUPPLIES, STAINLESS STEEL MOUNTING HARDWARE AND CABLING FOR A COMPLETE SYSTEM. LENGTH AS INDICATED ON DRAWINGS. SOURCE: LED, LUMENS/LF, 4000K VOLTAGE: 120 V MANUFACTURER: QTRAN RGBW-HE24/4.0-IP67-RGBW40-X-X-ARKA-WO-ST-SST-X-X SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L13	30 VA	1X4, RECESSED, HARD LID MOUNT FIXTURE WITH FLAT PANEL LENS AND 0-10V DIMMING CAPABILITIES WITH SELECTABLE LUMEN AND COLOR TEMPERATURE. CONTRACTOR SHALL SET FIXTURE TO 30W, 4000K COLOR TEMPERATURE UPON INSTALLATION. SOURCE: LED, 3396LUMENS, 4000K, 80CRI VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS BP-14-LS/8CS-DIM-UNV-DFK-1248W SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
X1	1 VA	EMERGENCY EXIT EGRESS FIXTURE WITH INTEGRAL LIGHT BAR AND 90 MINUTE EMERGENCY BATTERY BACKUP. SOURCE: LED VOLTAGE: 120 V MANUFACTURER: HE WILLIAMS EXIT/EM/LP-G-WH-SDT-D SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL

Conformed Documents

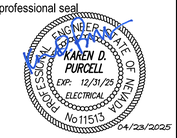
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project

Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

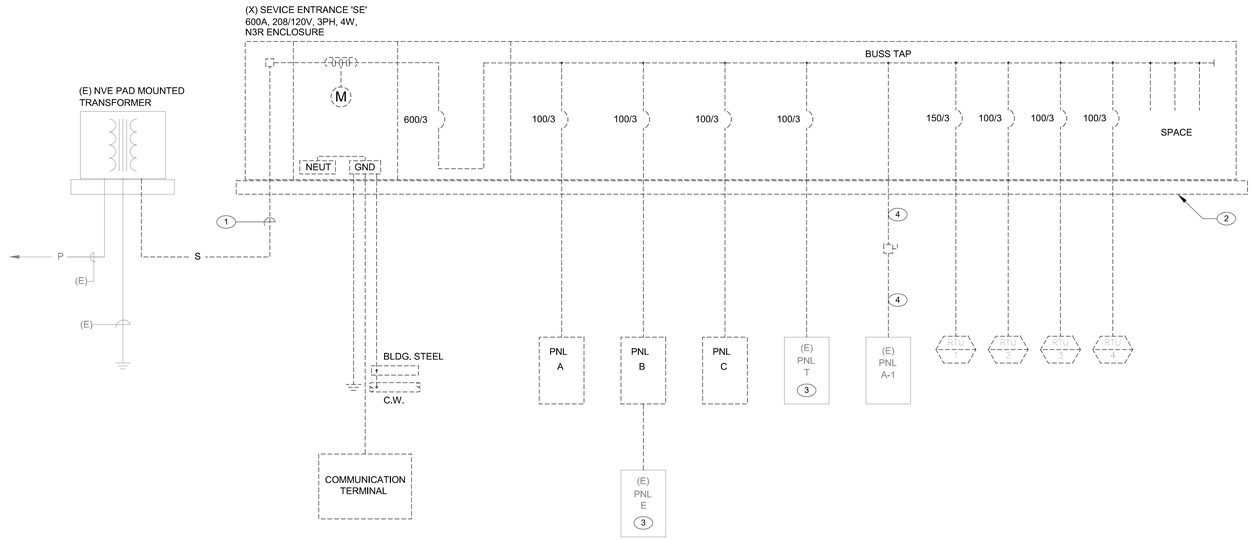
drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

drawing name

Fixture Schedule and IECC

sheet number

E002



2
E003

DEMOLITION ONELINE DIAGRAM

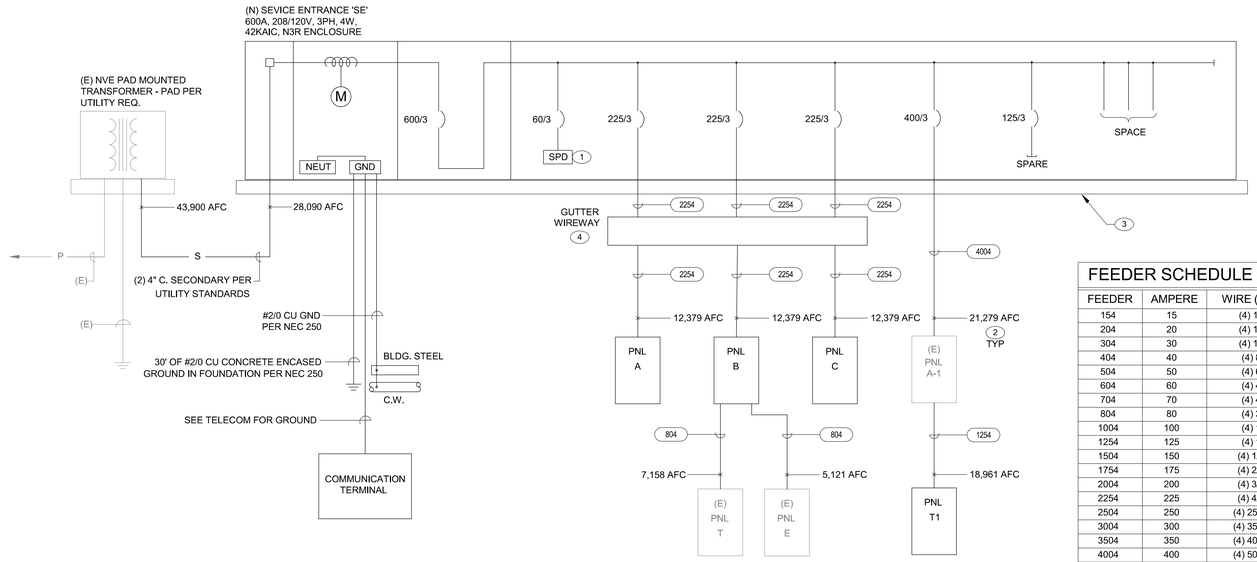
SCALE: NONE

DEMOLITION GENERAL NOTES

1. (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (R) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE RELOCATED, (E) AND/OR HALFTONE LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
2. SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
3. THE CONTRACTOR SHALL 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.
4. 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.

DEMOLITION SHEET NOTES

1. COORDINATE ALL POWER OUTAGES WITH NVE AND NV HISTORICAL SOCIETY FACILITIES PRIOR TO COMMENCING WORK.
2. COORDINATE THE REMOVAL OF EXISTING EQUIPMENT CONCRETE PAD WITH NV HISTORICAL SOCIETY FACILITY PRIOR TO COMMENCING DEMOLITION.
3. MAINTAIN INTEGRITY OF EXISTING PANEL. PROVIDE NEW CONDUIT AND CONDUCTORS. SEE NEW WORK ONE LINE DIAGRAM FOR FURTHER INFORMATION.
4. CONTRACTOR SHALL DISCONNECT EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE AND REROUTE FROM NEW ELECTRICAL UTILITY SERVICE. SEE NEW WORK ONE LINE DIAGRAM FOR FURTHER INFORMATION.



1
E003

NEW WORK ONELINE DIAGRAM

SCALE: NONE

FEEDER SCHEDULE (600V, 3PH, 4W)

FEEDER	AMPERE	WIRE (CU)	BOND (CU)	CONDUIT
154	15	(4) 12	12	3/4"
204	20	(4) 12	12	3/4"
304	30	(4) 10	10	3/4"
404	40	(4) 8	10	1"
504	50	(4) 6	10	1"
604	60	(4) 4	10	1 1/4"
704	70	(4) 4	8	1 1/4"
804	80	(4) 3	8	1 1/4"
1004	100	(4) 1	8	1 1/2"
1254	125	(4) 1	6	2"
1504	150	(4) 1/0	6	2"
1754	175	(4) 2/0	6	2"
2004	200	(4) 3/0	6	2"
2254	225	(4) 4/0	4	2 1/2"
2504	250	(4) 250K	4	2 1/2"
3004	300	(4) 350K	3	3"
3504	350	(4) 400K	3	3"
4004	400	(4) 500K	3	4"
5004	500	(8) 250K	(2) 2	(2) 2 1/2"
6004	600	(8) 350K	(2) 1	(2) 3"
8004	800	(8) 500K	(2) 1/0	(2) 4"
10004	1000	(12) 400K	(3) 2/0	(3) 3"
12004	1200	(12) 600K	(3) 3/0	(3) 4"
16004	1600	(16) 600K	(4) 4/0	(4) 4"
20004	2000	(20) 600K	(5) 250K	(5) 4"
25004	2500	(24) 600K	(6) 350K	(6) 4"
30004	3000	(32) 600K	(8) 400K	(8) 4"
40004	4000	(40) 600K	(10) 500K	(10) 4"

NEW WORK GENERAL NOTES

1. (E) AND/OR HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. PROVIDE ENGRAVED NAMEPLATES (SCREW ATTACHED) ON ALL PANELS SIMILAR TO THE FOLLOWING. MINIMUM SIZE 1 1/2"x3". REFER TO "REVISED SWITCHBOARD/PANEL DESIGNATION" SCHEDULE.

   PANEL MSB
   208/120V 3Ø 4W
   FED FROM DIST. PNL MDP

3. ALL CONDUCTOR SIZES ARE BASED ON COPPER. ALUMINUM IS NOT PERMITTED.
4. PANELBOARD AND BREAKER INTERRUPTING CAPACITIES (AIC) SHALL BE FULLY RATED AS AN ASSEMBLY. SERIES RATING OF BREAKER DEVICES AND EQUIPMENT IS NOT PERMITTED.
5. DO NOT SPLICE FEEDER CONDUCTORS UNLESS OTHERWISE NOTED OR PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER.
6. CONTRACTOR SHALL PREPARE THE SHORT CIRCUIT AND COORDINATION STUDY PRIOR TO ORDERING DISTRIBUTION EQUIPMENT TO VERIFY ALL EQUIPMENT RATINGS, BREAKER TYPES, AND SETTINGS REQUIRED. THE SCOPE OF THE STUDY MUST INCLUDE ALL UPSTREAM BRANCHES OF THE DISTRIBUTION SYSTEM BACK TO THE SERVICE ENTRANCE, EVEN IF NOT BEING MODIFIED BY THIS PROJECT. ANY CHANGES TO EQUIPMENT RATINGS OR BREAKER TYPES IN ORDER TO PROVIDE A CODE REQUIRED SELECTIVELY COORDINATED SYSTEM SHALL NOT RESULT IN ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL PROVIDE ARC FLASH STUDY IN ACCORDANCE WITH NFPA 90E AND INSTALL LABELS FOR ALL EQUIPMENT PER NEC 110.6. PERFORM STUDY WITH AID OF COMPUTER SOFTWARE PROGRAM AND BY A NEVADA LICENSED ELECTRICAL ENGINEER. OBTAIN ACTUAL FAULT DUTY AT NV ENERGY TRANSFORMERS.
8. CONTRACTOR SHALL PROVIDE FIELD MARKING AT EACH SERVICE ENTRANCE AND ALL ELECTRICAL EQUIPMENT THROUGHOUT IN COMPLIANCE WITH NEC 110.16 (A)(B) AND 110.24 (A).

NEW WORK SHEET NOTES

1. INTERNALLY MOUNTED SURGE PROTECTIVE DEVICE WITH INTEGRAL DISCONNECT: 200kA PER PHASE, 125kA PER MODE, WITH STATUS INDICATOR LIGHT ON EACH PHASE, AUDIBLE ALARM, TRANSIENT COUNTER AND PUSH-TO-TEST. INSTALL SPD WITHIN MANUFACTURER'S SPECIFIED MAXIMUM LEAD LENGTH.
2. REPRESENTS AVAILABLE SHORT CIRCUIT CURRENT AT SPECIFIC POINT IN SYSTEM.
3. PROVIDE HOUSEKEEPING PAD UNDER ELECTRICAL EQUIPMENT. PROVIDE / INSTALL CONCRETE HOUSEKEEPING PAD IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS. COORDINATE WITH MANUFACTURER AND STRUCTURAL FOR ALL REQUIREMENTS.
4. PROVIDE 8X8X8 GUTTER WIREWAY AROUND CEILING PERIMETER OF EXISTING ELECTRICAL CLOSET FOR CONNECTION OF EXISTING BRANCH CIRCUIT CONDUIT SYSTEMS TO NEW PANELBOARDS. COORDINATE WITH NV HISTORICAL SOCIETY FACILITY PRIOR TO ROUGH-IN.

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project

Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
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1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date
1	Review Comments	10/4/24

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

drawing name

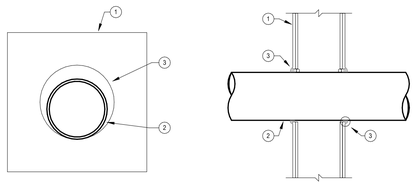
Oneline Diagrams

sheet number

E003

Conformed Documents

1 OR 2 HOUR RATED FIRESTOP FOR METALLIC PIPING THROUGH GYPSUM BOARD WALLS USING SPECSEAL SERIES 100 SEALANT



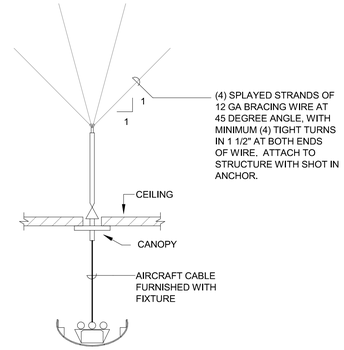
1. RATED GYPSUM WALLBOARD ASSEMBLY.
2. MAX. 24" STEEL OR IRON PIPE, 6" COPPER PIPE OR TUBE, 6" STEEL CONDUIT, 4" EMT OR 1" FLEXIBLE METALLIC CONDUIT. THE ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM SHALL RANGE FROM POINT CONTACT TO 1-3/4" MAX.
3. SPECSEAL SERIES 100 SEALANT INSTALLED WITHIN ANNULUS TO 5/8" DEPTH. AT POINT CONTACT, INSTALL A 3/8" BEAD AT PENETRANT/GYPSUM WALLBOARD INTERFACE.

NOTE: THE PRODUCTS USED IN THIS DESIGN SYSTEM HAVE BEEN TESTED AS FOLLOWS:

- ASTM E814 (UL1479). REFER TO SYSTEM NO. WL-104
- ASTM E119 (TIME/TEMPERATURE EXPOSURE) (COTTON WASTE IGNITION)
- ANNULAR SPACE REQUIREMENTS

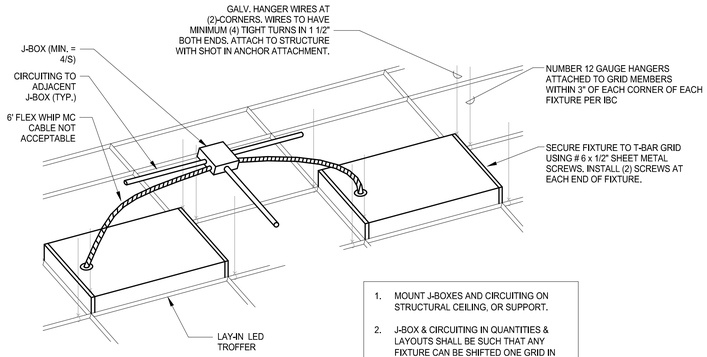
CONDUIT PENETRATION- GYPSUM BOARD

7 / E004 SCALE: NONE



SUSPENDED FIXTURE MOUNTING DETAIL

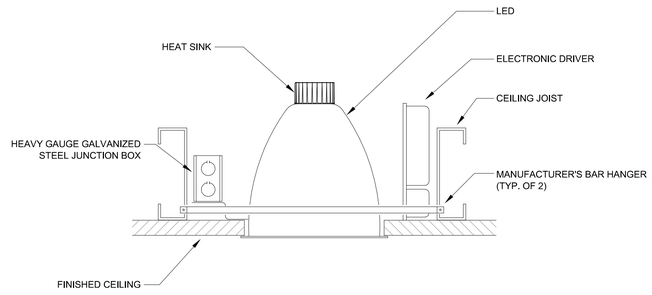
5 / E004 SCALE: NONE



1. MOUNT J-BOXES AND CIRCUITING ON STRUCTURAL CEILING, OR SUPPORT.
2. J-BOX & CIRCUITING IN QUANTITIES & LAYOUTS SHALL BE SUCH THAT ANY FIXTURE CAN BE SHIFTED ONE GRID IN ANY DIRECTION WITHOUT ADDED CIRCUITING.

FIXTURE MOUNTING DETAIL @ T-BAR CEILING

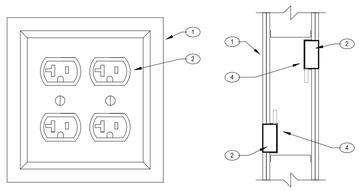
2 / E004 SCALE: NONE



DOWNLIGHT MOUNTING DETAIL

4 / E004 SCALE: NONE

1 OR 2 HOUR RATED FIRESTOP FOR METALLIC ELECTRICAL BOXES USING SPECSEAL PUTTY PADS



1. RATED GYPSUM WALL BOARD ASSEMBLY.
2. NOMINAL 4"x4" SQUARE FLUSH DEVICE U.L. LISTED METALLIC OUTLET BOX.
3. CONDUIT LEADING TO ELECTRICAL BOX.
4. SPECSEAL PUTTY PAD, COMPLETELY COVER EXTERIOR SURFACES OF BOTH BOXES WITHIN THE STUD CAVITY WITH AN ADDITIONAL 1/4" OF PUTTY FORMED AROUND THE END OF EACH ELECTRICAL METALLIC TUBE OR CONDUIT AT ITS CONNECTION TO THE BOXES. WHEN MOLDABLE PUTTY PAD OUTLET BOX PROTECTIVE MATERIAL IS USED AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN OUTLET BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24" PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK-TO-BACK.

NOTES:

THE PRODUCTS USED IN THIS DESIGN SYSTEM HAVE BEEN TESTED AS FOLLOWS:

ASTM E814 (UL1479). REFER TO U.L. CATEGORY CLIV (PAGE 946, VOLUME ONE 1997 DIR.)

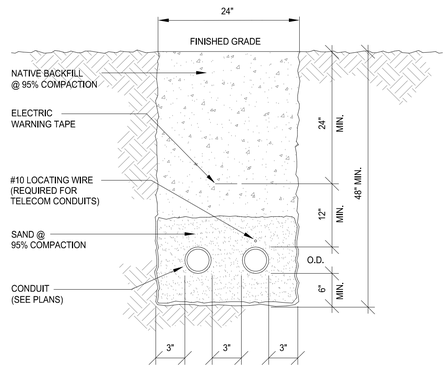
ASTM C919 & E90 FOR SOUND ATTENUATION PROPERTIES

UL 263 (ASTM E119, NFPA 251)

RECEPTACLE TYPE AND INSTALLATION CONFIGURATION ARE FOR REFERENCE ONLY.

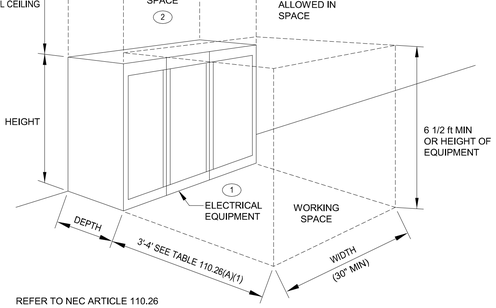
FIRE STOP FOR ELECTRICAL BOXES

6 / E004 SCALE: NONE



TYPICAL 2 CONDUIT TRENCH DETAIL

3 / E004 SCALE: NONE



REFER TO NEC ARTICLE 110.26

DETAIL NOTES

1. ELECTRICAL EQUIPMENT INCLUDES SWITCHGEAR, SWITCHBOARDS, DISTRIBUTION BOARDS, PANEL BOARDS, MOTOR CONTROL CENTER OR SIMILAR EQUIPMENT.
2. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.
3. THE AREA ABOVE THE DEDICATED SPACE REQUIRED BY 110.26(E)(1)(a) SHALL BE PERMITTED TO CONTAIN FOREIGN SYSTEMS, PROVIDED PROTECTION IS INSTALLED TO AVOID DAMAGE TO THE ELECTRICAL EQUIPMENT FROM CONDENSATION, LEAKS, OR BREAKS IN SUCH FOREIGN SYSTEM.

NEC-ARTICLE 110.26 WORKING SPACE & DEDICATED ELECTRICAL SPACE REQUIREMENTS

1 / E004 Scale: NONE

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revisions

No.	Description	Date

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

drawing name

Details

sheet number

E004

Conformed Documents

Panel: PNL A-1 — Location: IT 128

Type	Description	Trip	Poles	#	A		B		C		#	Poles	Trip	Description	Type
R	COLLECTION STORAGE...	20	1	1	720	1330					2	1	20	COLLECTION AREA...	L
R	COLLECTION STORAGE...	20	1	3			720	1254			4	1	20	COLLECTION AREA...	L
R	COLLECTION CORD REEL...	20	1	5					720	798	6	1	20	COLLECTION AREA...	L
R	RECEIVING OFFICE REC.	20	1	7	900	200					8	1	20	N. & W. EXTERIOR...	L
R	ARTIFACTS STORAGE REC.	20	1	9			720	1842			10	1	30	INVERTER	L; Spare
R	RECEIVING REFER	20	1	11					500	1600	12	1	20	FACP	E
R	RECEIVING REFER	20	1	13	500	360					14	1	20	IRRIGATION CONTROLLER	E
--	SPARE	20	1	15			0	0			16	1	20	SPARE	--
--	SPARE	20	1	17					0	0	18	1	20	SPARE	--
--	SPARE	20	1	19	0	0					20	1	20	SPARE	--
--	SPARE	20	1	21			0	0			22	1	20	SPARE	--
--	SPARE	20	1	23					0	0	24	1	20	SPARE	--
--	SPARE	20	1	25	0	0					26	1	20	SPARE	--
--	SPARE	20	1	27			0	0			28	1	20	SPARE	--
--	SPARE	20	1	29					0	0	30	1	20	SPARE	--
--	SPARE	20	1	31	0	0					32	1	20	SPARE	--
--	SPARE	20	1	33			0	0			34	1	20	SPARE	--
--	SPARE	20	1	35					0	0	36	1	20	SPARE	--
--	SPARE	20	1	37	0	0					38	1	20	SPARE	--
--	SPARE	20	1	39			0	0			40	1	20	SPARE	--
--	SPARE	20	1	41					0	0	42	1	20	SPARE	--
M	RTU-5	60	3	43	6000	250					44	1	20	RTU ECONOMIZERS	E
				45			6000	250			46	1	20	RTU DUCT DETECTOR	E
				47					6000	384	48	1	20	HUM-1	E
M	RTU-2	60	3	49	6000	2004					50				
				51			6000	2004			52	3	25	HUM-2	H
				53					6000	2004	54				
--	SPACE	--	1	55	--	3064					56				
--	SPACE	--	1	57			--	760			58	3	125	PNL T1	L; R; H; E; Spare
--	SPACE	--	1	59					--	3440	60				
					Total Load:		21,328 VA		19,550 VA		21,446 VA				
					Total Amps:		180 A		163 A		181 A				

Load Classification		NEC Reference	Connected Load	Demand Factor	Est. Demand
L	Lighting	NEC 220.42	5,488 VA	100.00%	5,488 VA
R	Receptacle	NEC 220.44	5,680 VA	100.00%	5680 VA
E	Equipment		3,744 VA	100.00%	3,744 VA
M	Motor	NEC 430.24	36,000 VA	112.50%	40,500 VA
K	Kitchen	NEC 220.56			
H	Heating	NEC 220.51	11,412 VA	100.00%	11,412 VA

Load Totals
Total Connected Load: 62,324 VA
Total Demand Load: 66,824 VA
120/208 Wye System Current
Connected Amps: 173 A
Demand Amps: 185 A

Copper Bus Size	400	**Ground**	Standard
Voltage	120/208 Wye	**Mounting**	Surface
Phase	3	**Enclosure**	NEMA 1
Wire	4	**# of 1-Pole Circuits**	60
Lugs	MLO	**Neutral**	100.00%
Breaker AIC Rating	22KAIC	**Feeder OCPD Size**	400

Notes: EXISTING GE PANELBOARD - BOLD INDICATES NEW AND/OR MODIFIED LOAD

Panel: PNL T1 — Location: IT 128

Type	Description	Trip	Poles	#	A		B		C		#	Poles	Trip	Description	Type
L	TELECOM RM LTG	20	1	1	64	100					2	2	20	TELECOM ROOM ACI/1	H
E	ACCESS CONTROL PANEL	20	1	3			300	100			4				
E	CCTV CABINET	20	1	5					300	2600	6	2	40	TELECOM ROOM ACO/1	H
E	INTRUSION CABINET	20	1	7	300	2600					8				
R	TELECOM LADDER RACK...	20	1	9			360	0			10	1	20	SPARE	--
R	CONV. RECEPTS.	20	1	11					540	0	12	1	20	SPARE	--
--	SPACE	--	1	13	--	--					14	1	--	SPACE	--
--	SPACE	--	1	15			--	--			16	1	--	SPACE	--
--	SPACE	--	1	17					--	--	18	1	--	SPACE	--
--	SPACE	--	1	19	--	--					20	1	--	SPACE	--
--	SPACE	--	1	21			--	--			22	1	--	SPACE	--
--	SPACE	--	1	23					--	--	24	1	--	SPACE	--
--	SPACE	--	1	25	--	--					26	1	--	SPACE	--
--	SPACE	--	1	27			--	--			28	1	--	SPACE	--
--	SPACE	--	1	29					--	--	30	1	--	SPACE	--
					Total Load:		3,064 VA		760 VA		3,440 VA				
					Total Amps:		28 A		6 A		32 A				

Load Classification		NEC Reference	Connected Load	Demand Factor	Est. Demand
L	Lighting	NEC 220.42	64 VA	100.00%	64 VA
R	Receptacle	NEC 220.44	900 VA	100.00%	900 VA
E	Equipment		900 VA	100.00%	900 VA
M	Motor	NEC 430.24			
K	Kitchen	NEC 220.56			
H	Heating	NEC 220.51	5,400 VA	100.00%	5,400 VA

Load Totals
Total Connected Load: 7,264 VA
Total Demand Load: 7,264 VA
120/208 Wye System Current
Connected Amps: 20 A
Demand Amps: 20 A

Copper Bus Size	125	**Ground**	Standard
Voltage	120/208 Wye	**Mounting**	Surface
Phase	3	**Enclosure**	NEMA 1
Wire	4	**# of 1-Pole Circuits**	30
Lugs	MLO	**Neutral**	100.00%
Breaker AIC Rating	22KAIC	**Feeder OCPD Size**	125

Notes: NEW PANELBOARD

Panel: PNL T — Location: Media Storage 118

Type	Description	Trip	Poles	#	A		B		C		#	Poles	Trip	Description	Type
L	**EXTERIOR PERIMETER DOO...**	**20**	**1**	**1**	75	120					**2**	**1**	**20**	**MUSEUM TRACK 1**	**E**
L	**ENTRY LIGHTING**	**20**	**1**	**3**			96	120			**4**	**1**	**20**	**MUSEUM TRACK 1**	**E**
E	**LCP**	**20**	**1**	**5**					180	120	**6**	**1**	**20**	**MUSEUM TRACK 1**	**E**
L	**FRONT POLE LIGHTS**	**20**	**1**	**7**	100	120					**8**	**1**	**20**	**MUSEUM TRACK 1**	**E**
--	SPARE	20	1	9			0	0			10	1	20	SPARE	--
--	SPARE	20	1	11					0	0	12	1	20	SPARE	--
--	SPACE	--	1	13	--	--					14	1	--	SPACE	--
--	SPACE	--	1	15			--	--			16	1	--	SPACE	--
--	SPACE	--	1	17					--	--	18	1	--	SPACE	--
					Total Load:		415 VA		216 VA		300 VA				
					Total Amps:		4 A		2 A		3 A				

Load Classification		NEC Reference	Connected Load	Demand Factor	Est. Demand
L	Lighting	NEC 220.42	271 VA	100.00%	271 VA
R	Receptacle	NEC 220.44			
E	Equipment		660 VA	100.00%	660 VA
M	Motor	NEC 430.24			
K	Kitchen	NEC 220.56			
H	Heating	NEC 220.51			

Load Totals
Total Connected Load: 931 VA
Total Demand Load: 931 VA
120/208 Wye System Current
Connected Amps: 3 A
Demand Amps: 3 A

Copper Bus Size	125	**Ground**	Standard
Voltage	120/208 Wye	**Mounting**	Surface
Phase	3	**Enclosure**	NEMA 1
Wire	4	**# of 1-Pole Circuits**	18
Lugs	MLO	**Neutral**	100.00%
Breaker AIC Rating	10KAIC	**Feeder OCPD Size**	80

Notes: EXISTING EATON PANELBOARD - BOLD INDICATES NEW AND/OR MODIFIED LOAD

Panel: PNL E — Location: Media Storage 118

Type	Description	Trip	Poles	#	A		B		C		#	Poles	Trip	Description	Type
E	MUSEUM TRACK 3	20	1	1	120	120					2	1	20	MUSEUM TRACK 2	E
E	MUSEUM TRACK 3	20	1	3			120	120			4	1	20	MUSEUM TRACK 2	E
E	MUSEUM TRACK 3	20	1	5					120	120	6	1	20	MUSEUM TRACK 2	E
E	MUSEUM TRACK 3	20	1	7	120	120					8	1	20	MUSEUM TRACK 2	E
E	MUSEUM TRACK 4	20	1	9			120	180			10	1	20	LARGE NEON SIGN POWER	R
E	MUSEUM TRACK 4	20	1	11					120	120	**12**	**1**	**20**	**MUSEUM TRACK 5**	**E**
E	MUSEUM TRACK 4	20	1	13	120	120					**14**	**1**	**20**	**MUSEUM TRACK 5**	**E**
E	MUSEUM TRACK 4	20	1	15			120	120			**16**	**1**	**20**	**MUSEUM TRACK 5**	**E**
E	**LCP**	**20**	**1**	**17**					180	120	**18**	**1**	**20**	**MUSEUM TRACK 5**	**E**
					Total Load:		720 VA		780 VA		780 VA				
					Total Amps:		6 A		7 A		7 A				

Load Classification		NEC Reference	Connected Load	Demand Factor	Est. Demand
L	Lighting	NEC 220.42			
R	Receptacle	NEC 220.44	180 VA	100.00%	180 VA
E	Equipment		2,100 VA	100.00%	2,100 VA
M	Motor	NEC 430.24			
K	Kitchen	NEC 220.56			
H	Heating	NEC 220.51			

Load Totals
Total Connected Load: 2,280 VA
Total Demand Load: 2,280 VA
120/208 Wye System Current
Connected Amps: 6 A
Demand Amps: 6 A

Copper Bus Size	125	**Ground**	Standard
Voltage	120/208 Wye	**Mounting**	Surface
Phase	3	**Enclosure**	NEMA 1
Wire	4	**# of 1-Pole Circuits**	18
Lugs	MLO	**Neutral**	100.00%
Breaker AIC Rating	10KAIC	**Feeder OCPD Size**	80

Notes: EXISTING GE PANELBOARD - BOLD INDICATES NEW AND/OR MODIFIED LOAD

Inverter: INV-1

Location	IT 128	**Voltage**	120 SINGLE	**# of 1-Pole Circuits**	6
Supply From	PNL A-1	**Phase**	1	**Mains Type**	MLO
Mounting	SURFACE	**Wire**	2	**Copper Bus Size**	30
Enclosure	NEMA 1	**AIC Rating**	10KAIC	**MCB Rating:**	30 A

#	Description	Type	Trip	Poles	Load	Remarks
1	COLLECTIONS AREA	L	20 A	1	702 VA	
2	OPEN OFFICE/EVENT SPACE/LIBRARY/WOR...	L	20 A	1	610 VA	
3	MAIN CORRIDOR/ADMIN. OFFICES/MUSEUM	L	20 A	1	530 VA	
4	SPARE	--	20 A	1	0 VA	
5	SPARE	--	20 A	1	0 VA	
6	SPARE	--	20 A	1	0 VA	
			Total Conn. Load:		1842 VA	

Notes:
MYERS EM-3, 2200VA OR EQUAL - INVERTER SHALL BE UL924 COMPLIANT

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project

Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

drawing name

Panel Schedules

sheet number

E005

Conformed Documents

Panel: PNL A — Location: Elec. 113

Type	Description	Trip	Poles	#	A		B		C		#	Poles	Trip	Description	Type
R	WORK ROOM WORK...	20	1	1	360	1200					2	1	20	EXHIBIT HALL CEILING REC.	R; E
R	EVENT SPACE QUAD REC.	20	1	3			360	1260			4	1	20	OPEN OFFICE WORK...	R
R	WORK ROOM WORK...	20	1	5					540	900	6	1	20	EXHIBIT HALL CEILING REC.	R
R	LIBRARY OFFICE REC.	20	1	7	1260	1000					8	1	20	LOUNGE REFRIGERATOR	R
R	PHOTOGRAPHS WORK...	20	1	9			1260	360			10	1	20	IRRIGATION CONTROLLER	E
E	EXHIBIT HALL CEILING POWER	20	1	11					1440	500	12	1	20	RESEARCH LIB. PRINTER	R
R	EXHIBIT HALL CONV. REC.	20	1	13	540	720					14	1	20	EXHIBIT HALL CEILING REC.	R
R	COLLECTION STORAGE REC.	20	1	15			540	1080			16	1	20	FLOOR BOX REC.	R
R	LOUNGE REC.	20	1	17					540	720	18	1	20	HALLS 101 & 111 CONV. REC.	R
R	RESEARCH LIB. CONV. REC.	20	1	19	720	900					20	1	20	RESEARCH LIB. CONV. REC.	R
R	VESTIBULE/RECEPTION REC.	20	1	21			720	900			22	1	20	EVENT SPACE CONV. REC.	R
R	STORE REC.	20	1	23					720	900	24	1	20	STORAGE 109 REC.	R
R	DARK ROOM & HALL REC.	20	1	25	900	1080					26	1	20	RESTROOM GFCI & MEDIA...	R
R	EXHIBIT HALL CONV. REC.	20	1	27			900	1080			28	1	20	COLLECTION STORAGE REC.	R
R	RESEARCH LIB. & MEDIA REC.	20	1	29					900	1080	30	1	20	OPEN OFFICE 102 CONV. REC.	R
R	RESEARCH LIB. WORK...	20	1	31	1080	1080					32	1	20	RESEARCH LIB. TABLE QUADS	R
R	OFFICE 103/STORAGE 104...	20	1	33			1080	1080			34	1	20	DIRECTOR OFFICE REC.	R
R	WORK ROOM WORK...	20	1	35					1080	1260	36	1	20	ADMIN. OFFICE REC.	R
--	SPARE	20	1	37	0	0					38	1	20	SPARE	--
--	SPARE	20	1	39			0	0			40	1	20	SPARE	--
--	SPARE	20	1	41					0	0	42	1	20	SPARE	--
				Total Load:	10,840 VA		10,620 VA		10,580 VA						
				Total Amps:	90 A		89 A		88 A						

Load Classification		NEC Reference	Connected Load	Demand Factor	Est. Demand
L	Lighting	NEC 220.42			
R	Receptacle	NEC 220.44	30,120 VA	66.60%	20060 VA
E	Equipment		1,920 VA	100.00%	1,920 VA
M	Motor	NEC 430.24			
K	Kitchen	NEC 220.56			
H	Heating	NEC 220.51			

Load Totals
Total Connected Load: 32,040 VA
Total Demand Load: 21,980 VA
120/208 Wye System Current
Connected Amps: 89 A
Demand Amps: **61 A**

Copper Bus Size	225	**Ground**	Standard	**Notes:**
Voltage	120/208 Wye	**Mounting**	Surface	NEW PANELBOARD
Phase	3	**Enclosure**	NEMA 1	
Wire	4	**# of 1-Pole Circuits**	42	
Lugs	MCB	**Neutral**	100.00%	
Breaker AIC Rating	22KAIC	**Feeder OCPD Size**	225	

Panel: PNL B — Location: Elec. 113

Type	Description	Trip	Poles	#	A		B		C		#	Poles	Trip	Description	Type
L	OPEN OFFICE/EVENT SPACE...	20	1	1	875	720					2				
L	LIBRARY & LIBRARY OFFICE...	20	1	3			1206	780			4	3	80	(E) PNL E	R; E
L	ENTRY CORRIDOR LTG	20	1	5					837	780	6				
L	WORK RM / STOR. / HALL LTG	20	1	7	638	415					8				
L	PHOTO/DARK RM/R.ROOMS...	20	1	9			239	216			10	3	80	(E) PNL T	L; E; Spare
L	DIR./ADMIN./STORE/LOUNGE...	20	1	11					458	300	12				
L	EXTERIOR LTG POWER...	20	1	13	500	0					14	1	20	SPARE	--
L	EXTERIOR LTG POWER...	20	1	15			500	0			16	1	20	SPARE	--
--	SPARE	20	1	17					0	0	18	1	20	SPARE	--
--	SPARE	20	1	19	0	0					20	1	20	SPARE	--
--	SPARE	20	1	21			0	0			22	1	20	SPARE	--
--	SPARE	20	1	23					0	0	24	1	20	SPARE	--
--	SPARE	20	1	25	0	0					26	1	20	SPARE	--
--	SPARE	20	1	27			0	0			28	1	20	SPARE	--
--	SPARE	20	1	29					0	0	30	1	20	SPARE	--
--	SPACE	--	1	31	--	--					32	1	--	SPACE	--
--	SPACE	--	1	33			--	--			34	1	--	SPACE	--
--	SPACE	--	1	35					--	--	36	1	--	SPACE	--
--	SPACE	--	1	37	--	--					38	1	--	SPACE	--
--	SPACE	--	1	39			--	--			40	1	--	SPACE	--
--	SPACE	--	1	41					--	--	42	1	--	SPACE	--
				Total Load:	3,148 VA		2,941 VA		2,375 VA						
				Total Amps:	27 A		25 A		20 A						

Load Classification		NEC Reference	Connected Load	Demand Factor	Est. Demand
L	Lighting	NEC 220.42	5,524 VA	100.00%	5,524 VA
R	Receptacle	NEC 220.44	180 VA	100.00%	180 VA
E	Equipment		2,760 VA	100.00%	2,760 VA
M	Motor	NEC 430.24			
K	Kitchen	NEC 220.56			
H	Heating	NEC 220.51			

Load Totals
Total Connected Load: 8,464 VA
Total Demand Load: 8,464 VA
120/208 Wye System Current
Connected Amps: 23 A
Demand Amps: **23 A**

Copper Bus Size	225	**Ground**	Standard	**Notes:**
Voltage	120/208 Wye	**Mounting**	Surface	NEW PANELBOARD
Phase	3	**Enclosure**	NEMA 1	
Wire	4	**# of 1-Pole Circuits**	42	
Lugs	MCB	**Neutral**	100.00%	
Breaker AIC Rating	22KAIC	**Feeder OCPD Size**	225	

Panel: PNL C — Location: Elec. 113

Type	Description	Trip	Poles	#	A		B		C		#	Poles	Trip	Description	Type
M	ROOF EF-1	20	1	1	500	600					2	1	20	RESTROOM EF-2,3 & 4	M
H	WATER HEATER	30	2	3			2250	5280			4				
				5					2250	5280	6	3	50	RTU-4	M
M	FIRE SPRINKLER PUMP	20	2	7	60	5280					8				
				9			60	6000			10				
M	RTU-3	60	3	11					6000	6000	12	3	60	RTU-1	M
				13	6000	6000					14				
				15			6000	720			16	1	20	ENTRY POWER DOORS	E
--	SPARE	20	1	17					0	360	18	1	20	EAST LIBRARY POWER DOOR	E
--	SPARE	20	1	19	0	0					20	1	20	SPARE	--
--	SPARE	20	1	21			0	0			22	1	20	SPARE	--
--	SPARE	20	1	23					0	0	24	1	20	SPARE	--
--	SPARE	20	1	25	0	0					26	1	20	SPARE	--
--	SPARE	20	1	27			0	0			28	1	20	SPARE	--
--	SPARE	20	1	29					0	0	30	1	20	SPARE	--
--	SPACE	--	1	31	--	--					32	1	--	SPACE	--
--	SPACE	--	1	33			--	--			34	1	--	SPACE	--
--	SPACE	--	1	35					--	--	36	1	--	SPACE	--
--	SPACE	--	1	37	--	--					38	1	--	SPACE	--
--	SPACE	--	1	39			--	--			40	1	--	SPACE	--
--	SPACE	--	1	41					--	--	42	1	--	SPACE	--
				Total Load:	18,440 VA		20,310 VA		19,890 VA						
				Total Amps:	154 A		171 A		168 A						

Load Classification		NEC Reference	Connected Load	Demand Factor	Est. Demand
L	Lighting	NEC 220.42			
R	Receptacle	NEC 220.44			
E	Equipment		1,080 VA	100.00%	1,080 VA
M	Motor	NEC 430.24	53,060 VA	108.48%	57,560 VA
K	Kitchen	NEC 220.56			
H	Heating	NEC 220.51	4,500 VA	100.00%	4,500 VA

Load Totals
Total Connected Load: 58,640 VA
Total Demand Load: 63,140 VA
120/208 Wye System Current
Connected Amps: 163 A
Demand Amps: **175 A**

Copper Bus Size	225	**Ground**	Standard	**Notes:**
Voltage	120/208 Wye	**Mounting**	Surface	NEW PANELBOARD
Phase	3	**Enclosure**	NEMA 1	
Wire	4	**# of 1-Pole Circuits**	42	
Lugs	MCB	**Neutral**	100.00%	
Breaker AIC Rating	22KAIC	**Feeder OCPD Size**	225	

Load Calculation: Distribution Board SERVICE...

Description	Lighting	Receptacle	Equipment	Motor	Kitchen	Heating	Remarks
PNL A		30,120	1,920				
PNL B	5,524	180	2,760				
PNL C			1,080	53,060 VA		4,500	
PNL A-1	5,488	5,680	3,744	36,000 VA		11,412	
Total Connected Loads:	11,012 VA	35,980 VA	9,504 VA	89,060 VA		15,912 VA	161,468 VA

Load Classification		NEC Reference	Connected Load	Demand Factor	Est. Demand
L	Lighting	NEC 220.42	11012 VA	100.00%	11012 VA
R	Receptacle	NEC 220.44	35980 VA	63.90%	22990 VA
E	Equipment		9504 VA	100.00%	9504 VA
M	Motor	NEC 430.24	89060 VA	105.05%	93560 VA
K	Kitchen	NEC 220.56	0 VA	0.00%	0 VA
H	Heating	NEC 220.51	15912 VA	100.00%	15912 VA

Load Totals
Total Connected Load: 161,468 VA
Total Demand Load: 152,978 VA
120/208 Wye System Current
Connected Amps: 448 A
Demand Amps: **425 A**

Notes:

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project

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SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

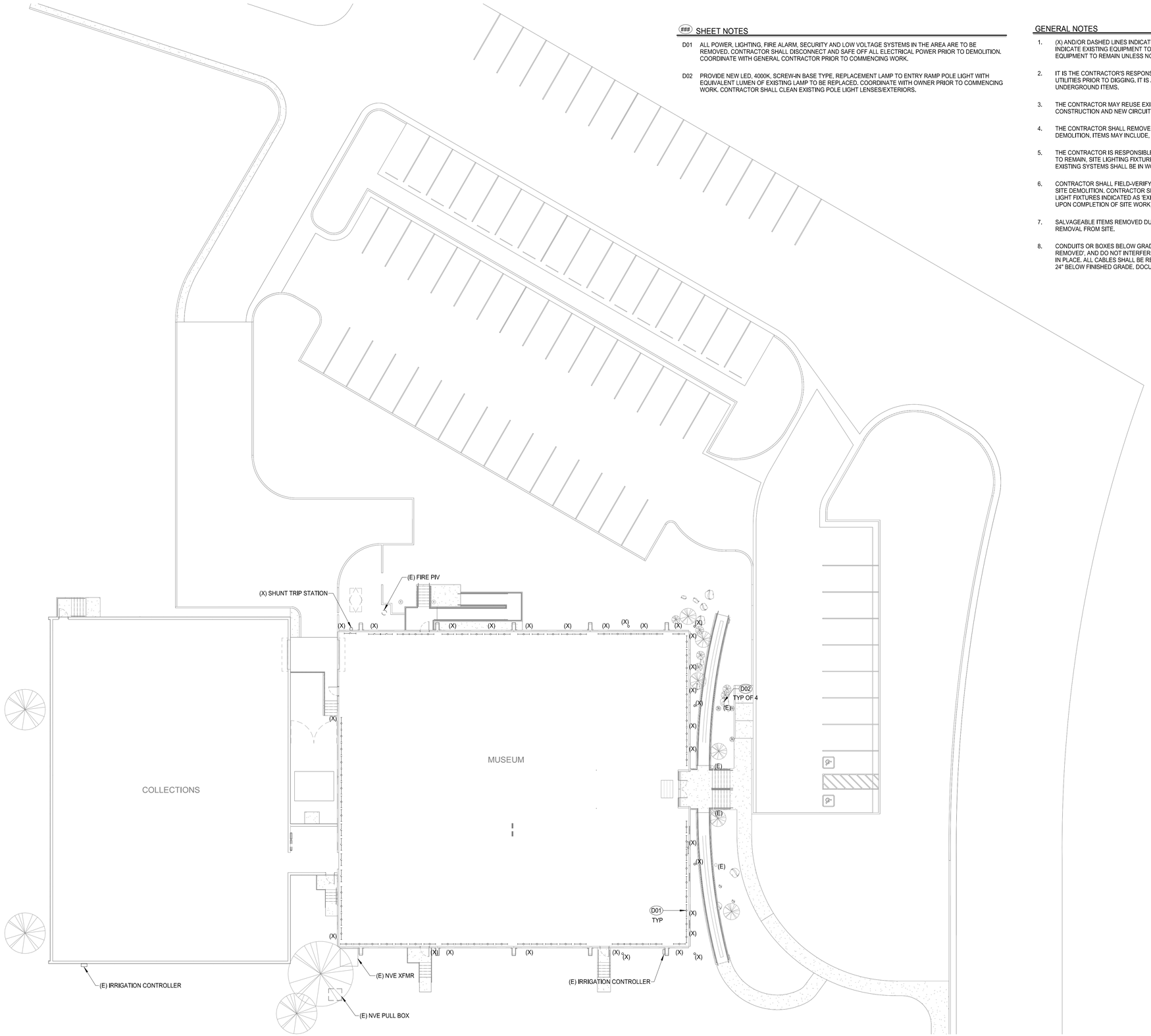
Nevada Historical Society Building
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035
drawing name	Panel Schedules and Calculations
sheet number	E006

Conformed Documents



DEMOLITION ELECTRICAL SITE PLAN

1 / E101 — Scale: 1/16" = 1'-0"

SHEET NOTES

D01 ALL POWER, LIGHTING, FIRE ALARM, SECURITY AND LOW VOLTAGE SYSTEMS IN THE AREA ARE TO BE REMOVED. CONTRACTOR SHALL DISCONNECT AND SAFE OFF ALL ELECTRICAL POWER PRIOR TO DEMOLITION. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO COMMENCING WORK.

D02 PROVIDE NEW LED, 4000K, SCREW-IN BASE TYPE, REPLACEMENT LAMP TO ENTRY RAMP POLE LIGHT WITH EQUIVALENT LUMEN OF EXISTING LAMP TO BE REPLACED. COORDINATE WITH OWNER PRIOR TO COMMENCING WORK. CONTRACTOR SHALL CLEAN EXISTING POLE LIGHT LENSES/EXTERIORS.

GENERAL NOTES

1. (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (R) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE RELOCATED, (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL 1-800-227-2600 FOR LOCATING EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
3. THE CONTRACTOR MAY REUSE EXISTING BOXES, CONDUIT AND WIRING WHERE APPLICABLE TO THE NEW CONSTRUCTION AND NEW CIRCUITING INDICATED ON THE DRAWINGS.
4. THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL ABANDONED MATERIALS LEFT OVER FROM DEMOLITION, ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES.
5. THE CONTRACTOR IS RESPONSIBLE FOR RECONNECTING AND MAINTAINING CIRCUIT INTEGRITY OF EXISTING, TO REMAIN, SITE LIGHTING FIXTURES, RECEPTACLES, ETC. WHERE DISCONNECTED DURING DEMOLITION. ALL EXISTING SYSTEMS SHALL BE IN WORKING CONDITION UPON COMPLETION OF NEW CONSTRUCTION.
6. CONTRACTOR SHALL FIELD-VERIFY EXISTING CIRCUITS FEEDING EXISTING SITE LIGHTING FIXTURES PRIOR TO SITE DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CIRCUIT INTEGRITY FOR ALL LIGHT FIXTURES INDICATED AS 'EXISTING TO REMAIN' (ALL SITE FIXTURES SHALL BE IN OPERABLE CONDITION UPON COMPLETION OF SITE WORK).
7. SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
8. CONDUITS OR BOXES BELOW GRADE OR EMBEDDED IN CONCRETE THAT ARE INDICATED AS 'EXISTING TO BE REMOVED', AND DO NOT INTERFERE WITH NEW WORK (FOOTINGS, VAULTS, PIPING, ETC.) MAY BE ABANDONED IN PLACE. ALL CABLES SHALL BE REMOVED FROM CONDUITS AND CONDUITS SHALL BE CAPPED A MINIMUM OF 24" BELOW FINISHED GRADE. DOCUMENT ABANDONED CONDUITS ON RECORD AS-BUILT DRAWINGS.

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project

Nevada Historical Society Improvements (UNR Location)
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SPWD #23-S02-(2): ADA Upgrades

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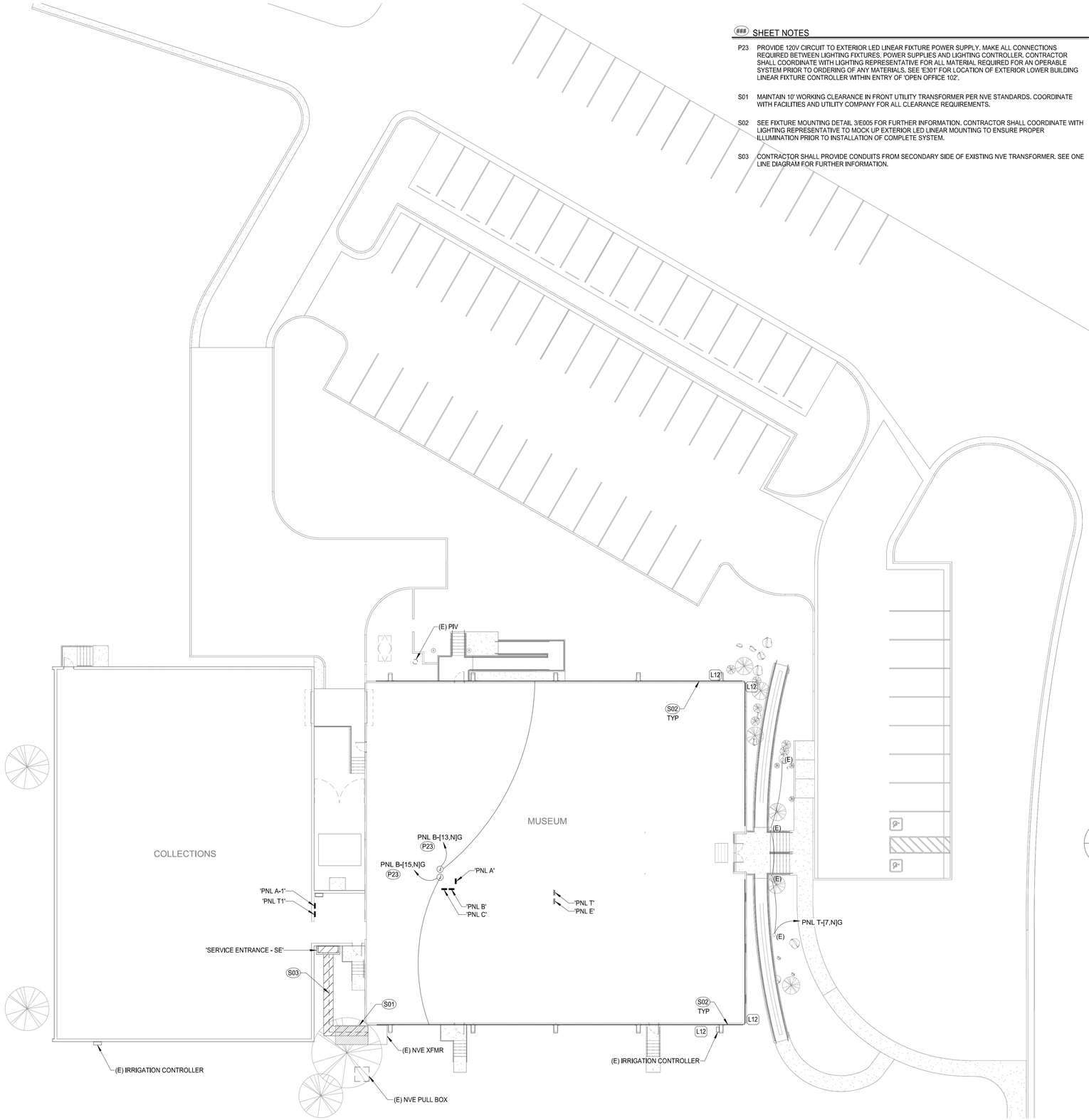
drawing name

Demolition
Electrical Site Plan

sheet number

E101

Conformed Documents



1 E102 NEW ELECTRICAL SITE PLAN
Scale: 1/16" = 1'-0"

SHEET NOTES

P23 PROVIDE 120V CIRCUIT TO EXTERIOR LED LINEAR FIXTURE POWER SUPPLY. MAKE ALL CONNECTIONS REQUIRED BETWEEN LIGHTING FIXTURES, POWER SUPPLIES AND LIGHTING CONTROLLER. CONTRACTOR SHALL COORDINATE WITH LIGHTING REPRESENTATIVE FOR ALL MATERIAL REQUIRED FOR AN OPERABLE SYSTEM PRIOR TO ORDERING OF ANY MATERIALS. SEE 'E301' FOR LOCATION OF EXTERIOR LOWER BUILDING LINEAR FIXTURE CONTROLLER WITHIN ENTRY OF 'OPEN OFFICE 102'.

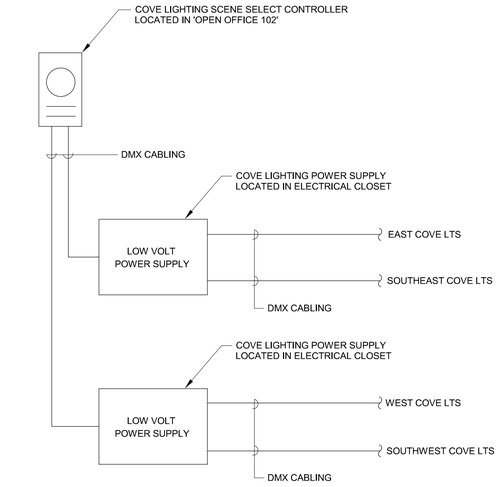
S01 MAINTAIN 10' WORKING CLEARANCE IN FRONT UTILITY TRANSFORMER PER NVE STANDARDS. COORDINATE WITH FACILITIES AND UTILITY COMPANY FOR ALL CLEARANCE REQUIREMENTS.

S02 SEE FIXTURE MOUNTING DETAIL 3/E005 FOR FURTHER INFORMATION. CONTRACTOR SHALL COORDINATE WITH LIGHTING REPRESENTATIVE TO MOCK UP EXTERIOR LED LINEAR MOUNTING TO ENSURE PROPER ILLUMINATION PRIOR TO INSTALLATION OF COMPLETE SYSTEM.

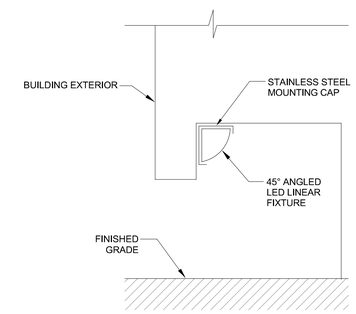
S03 CONTRACTOR SHALL PROVIDE CONDUITS FROM SECONDARY SIDE OF EXISTING NVE TRANSFORMER. SEE ONE LINE DIAGRAM FOR FURTHER INFORMATION.

GENERAL NOTES

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. SEE ONELINE DIAGRAM(S) FOR CONDUIT, WIRE SIZES AND EQUIPMENT REQUIREMENTS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPLICABLE UTILITY COMPANY'S DRAWINGS AND REPRESENTATIVES FOR DETERMINING THE EXACT RESPONSIBILITY OF EACH PARTY.
4. SEE UTILITY DRAWINGS FOR ALL UTILITY WORK WORK REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING ALL WORK REQUIRED IN BID. COORDINATE WITH EACH SITE UTILITY.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL 1-800-227-2600 FOR LOCATES PRIOR TO DIGGING. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
6. THE MAXIMUM NUMBER OF CONDUIT BENDS SHOULD NOT BE GREATER THAN 270 DEGREES BETWEEN PULLING STRUCTURES. THIS INCLUDES THE AGGREGATE OF ALL HORIZONTAL AND VERTICAL CHANGES.
7. ALL CONDUIT, INNERDUCT, PULLBOXES AND VAULTS SHALL BE LABELED PER THE SPECIFICATIONS.
8. PROVIDE #10 CU CONDUCTORS IN 3/4" CONDUIT MINIMUM, UNLESS NOTED OTHERWISE, FOR ALL SITE LIGHTING AND SITE RECEPTACLE CIRCUITS.
9. ALL RECEPTACLES WITH WEATHER PROOF DESIGNATION SHALL BE PROVIDED WITH 'WHILE IN USE' COVERS.
10. ALL CONDUIT, INNERDUCT, PULLBOXES AND VAULTS SHALL BE LABELED PER THE SPECIFICATIONS.
11. EACH CONDUIT AND INNERDUCT SHALL BE PROVIDED WITH A 1250 LBS. PULL ROPE.
12. COORDINATE LOCATION OF BELOW-GRADE CONDUITS, DUCT BANKS, ETC. WITH CIVIL ENGINEER AND OTHER TRADES PRIOR TO ROUGH-IN.
13. REFER TO SPECIFICATION SECTION 26 05 19 FOR VOLTAGE DROP REQUIREMENTS AND MAXIMUM ONE-WAY CIRCUIT LENGTH FOR ALL BRANCH WIRING AND HOMERUNS. INCREASE WIRE SIZE ACCORDINGLY.



3 E102 EXTERIOR LOWER BUILDING COVE LINEAR FIXTURE CONTROL DIAGRAM
SCALE: NONE



2 E102 EXTERIOR LOWER BUILDING COVE LINEAR FIXTURE MOUNTING DETAIL
SCALE: NONE

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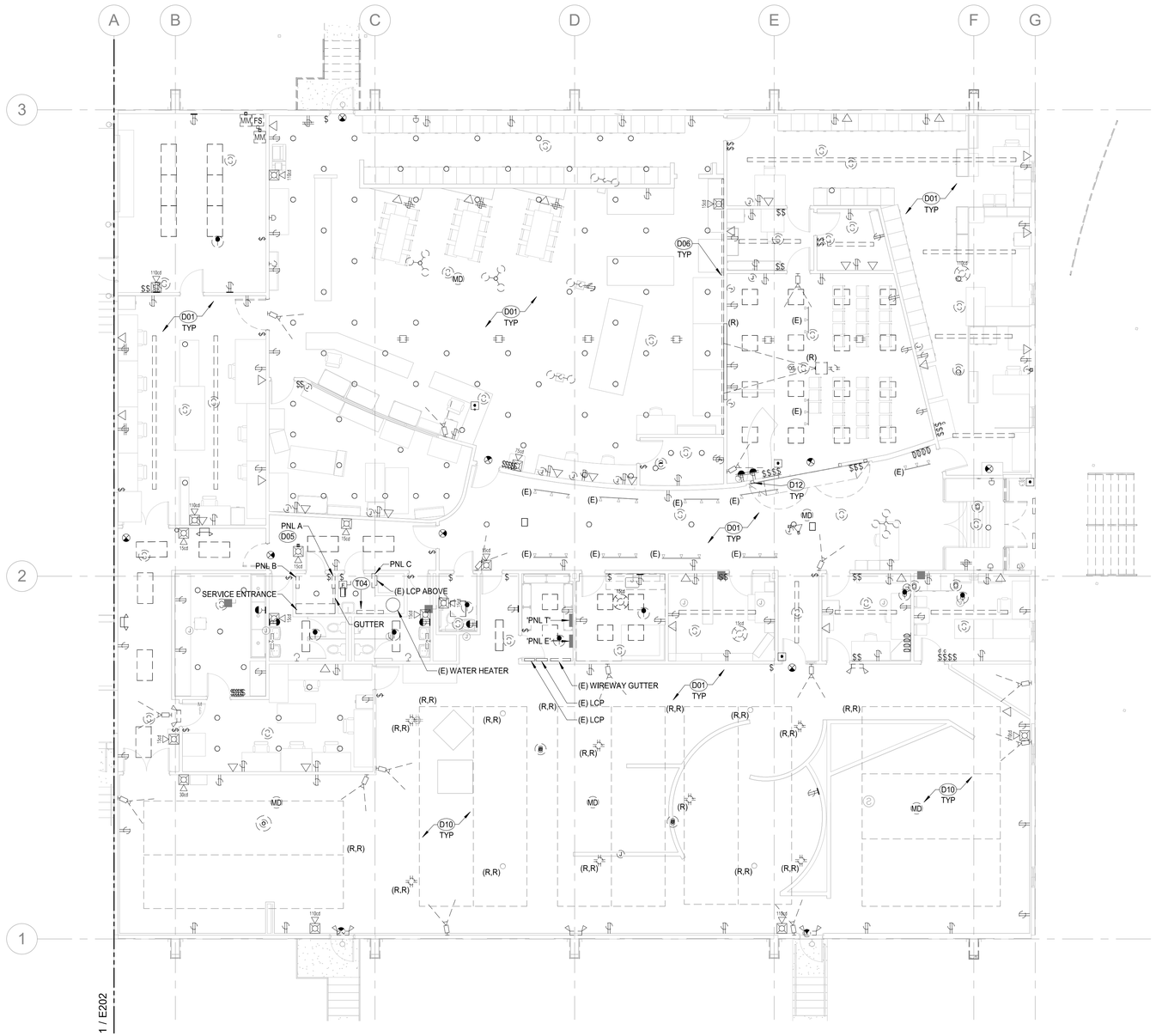
drawing name

New Electrical Site Plan

sheet number

E102

Conformed Documents



ELECTRICAL DEMOLITION PLAN - MUSEUM

1 / E201

Scale: 1/8" = 1'-0"

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, (R) 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.
7. CONTRACTOR SHALL MAINTAIN INTEGRITY OF ALL EXISTING DEVICE BACK BOXES AND CONDUIT STUBS FOR INSTALLATION OF NEW DEVICES AND FACEPLATES WHERE APPLICABLE. COORDINATE WITH NV HISTORICAL FACILITY PERSONNEL AND ARCHITECT PRIOR TO COMMENCING WORK.

(###) SHEET NOTES

D01 ALL POWER, LIGHTING, FIRE ALARM, SECURITY AND LOW VOLTAGE SYSTEMS IN THE AREA ARE TO BE REMOVED. CONTRACTOR SHALL DISCONNECT AND SAFE OFF ALL ELECTRICAL POWER PRIOR TO DEMOLITION. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO COMMENCING WORK.

D05 MAINTAIN INTEGRITY OF EXISTING SITE LIGHTING CONDUIT STUBS IN ELECTRICAL CLOSET BELOW PNL A FOR REUSE UPON COMPLETION OF THE RENOVATION.

D06 DISCONNECT AND REMOVE SURFACE RACEWAY IN IT'S ENTIRETY. PULL BACK CIRCUIT CONDUCTORS AND TELECOM CABLING BACK TO SOURCE.

D10 CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING EMERGENCY AND TRACK LIGHTING, ALONG WITH ALL CEILING MOUNTED RECEPTACLES FOR STRUCTURAL WORK TO BE CONDUCTED WITHIN MUSEUM AREA. COORDINATE THE STORAGE OF ALL EQUIPMENT REMOVED WITH NV HISTORICAL SOCIETY FACILITIES FOR REINSTALLMENT UPON COMPLETION OF STRUCTURAL CEILING WORK RENOVATIONS.

D12 DISCONNECT AND REMOVE EXISTING MAGNETIC DOOR HOLDERS, REMOVE BACK BOX AND PULL BACK CONDUCTORS/CABLING BACK TO SOURCE. CONTRACTOR SHALL PATCH AND PAINT WALL UPON COMPLETION OF RENOVATION.

T04 DEMO ADT INTRUSION PANEL AND ASSOCIATED CABLING.

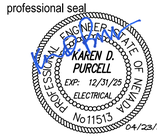
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SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

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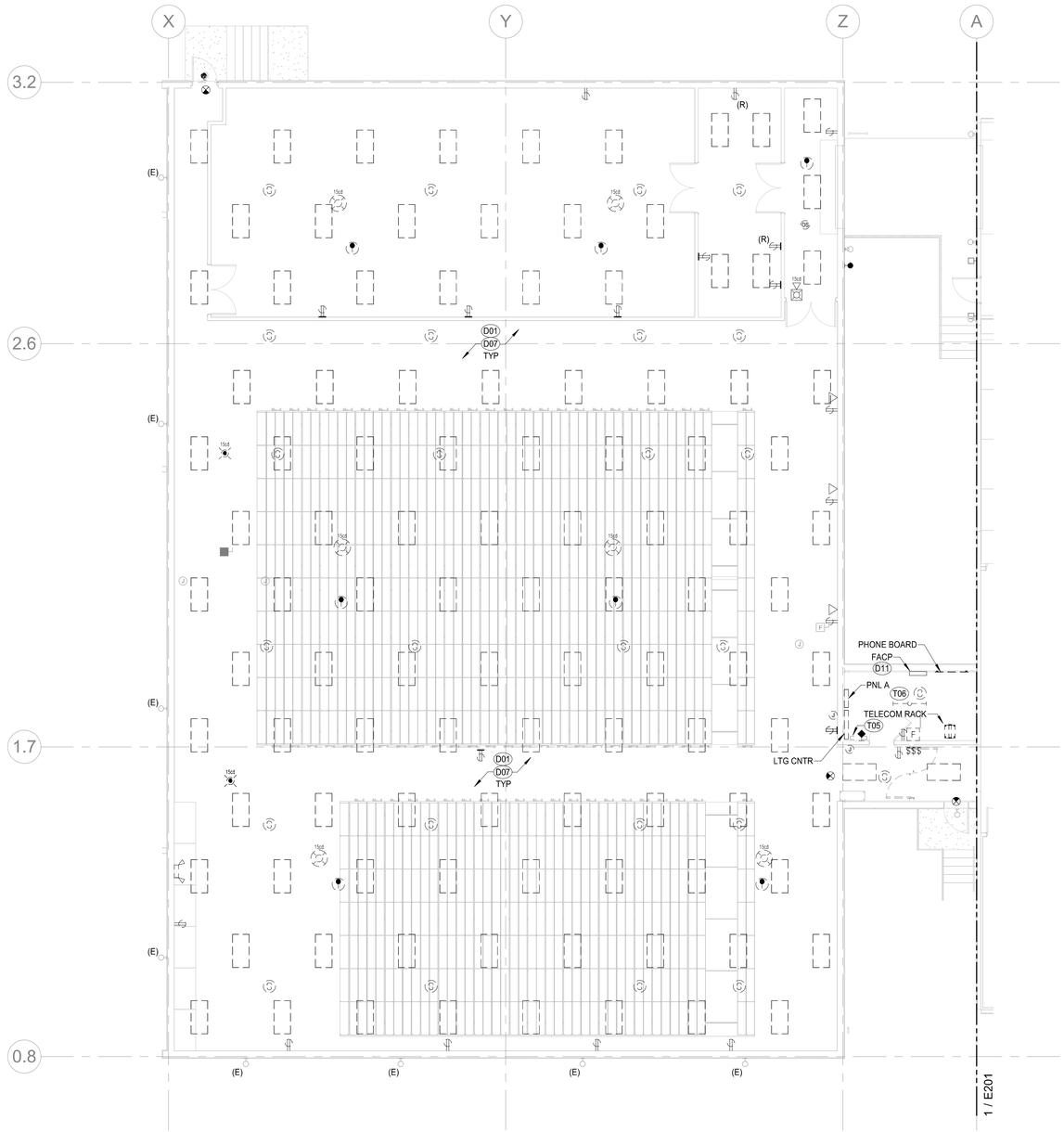
drawing name

Electrical Demolition Plan - Museum

sheet number

E201

Conformed Documents



1 E202 ELECTRICAL DEMOLITION PLAN - COLLECTIONS

Scale: 1/8" = 1'-0"

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.
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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.
7. CONTRACTOR SHALL MAINTAIN INTEGRITY OF ALL EXISTING DEVICE BACK BOXES AND CONDUIT STUBS FOR INSTALLATION OF NEW DEVICES AND FACEPLATES WHERE APPLICABLE. COORDINATE WITH NV HISTORICAL FACILITY PERSONNEL AND ARCHITECT PRIOR TO COMMENCING WORK.

(###) SHEET NOTES

D01 ALL POWER, LIGHTING, FIRE ALARM, SECURITY AND LOW VOLTAGE SYSTEMS IN THE AREA ARE TO BE REMOVED. CONTRACTOR SHALL DISCONNECT AND SAFE OFF ALL ELECTRICAL POWER PRIOR TO DEMOLITION. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO COMMENCING WORK.

D07 DISCONNECT AND REMOVE ALL LIGHT FIXTURES AND CONDUCTORS BACK TO SOURCE. MAINTAIN INTEGRITY OF EXISTING LIGHT FIXTURE BACK BOXES FOR RECONNECTION OF NEW LIGHTING FIXTURES, SEE NEW LIGHTING PLAN FOR FURTHER INFORMATION.

D11 FIRE ALARM CONTROL PANEL HAS NOT REACHED THE END OF IT'S LIFE CYCLE EXPECTANCY AND SHALL REMAIN AS IS AND BE REUSED. ALL NEW FIRE ALARM DEVICES INSTALLED SHALL BE CONNECTED BACK TO IT.

T05 DEMO EXISTING RADIONICS (DETECTION SYSTEMS DS7400XI) INTRUSION DETECTION SYSTEM PANEL AND ASSOCIATED CABLING.

T06 SEE TELECOM DEMO PLAN 1/T004 AND DETAIL 4/T004 FOR TELECOM AND SECURITY DEMO REQUIREMENTS IN IT ROOM 128.

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revisions

No.	Description	Date

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

drawing name

Electrical Demolition Plan - Collections

sheet number

E202

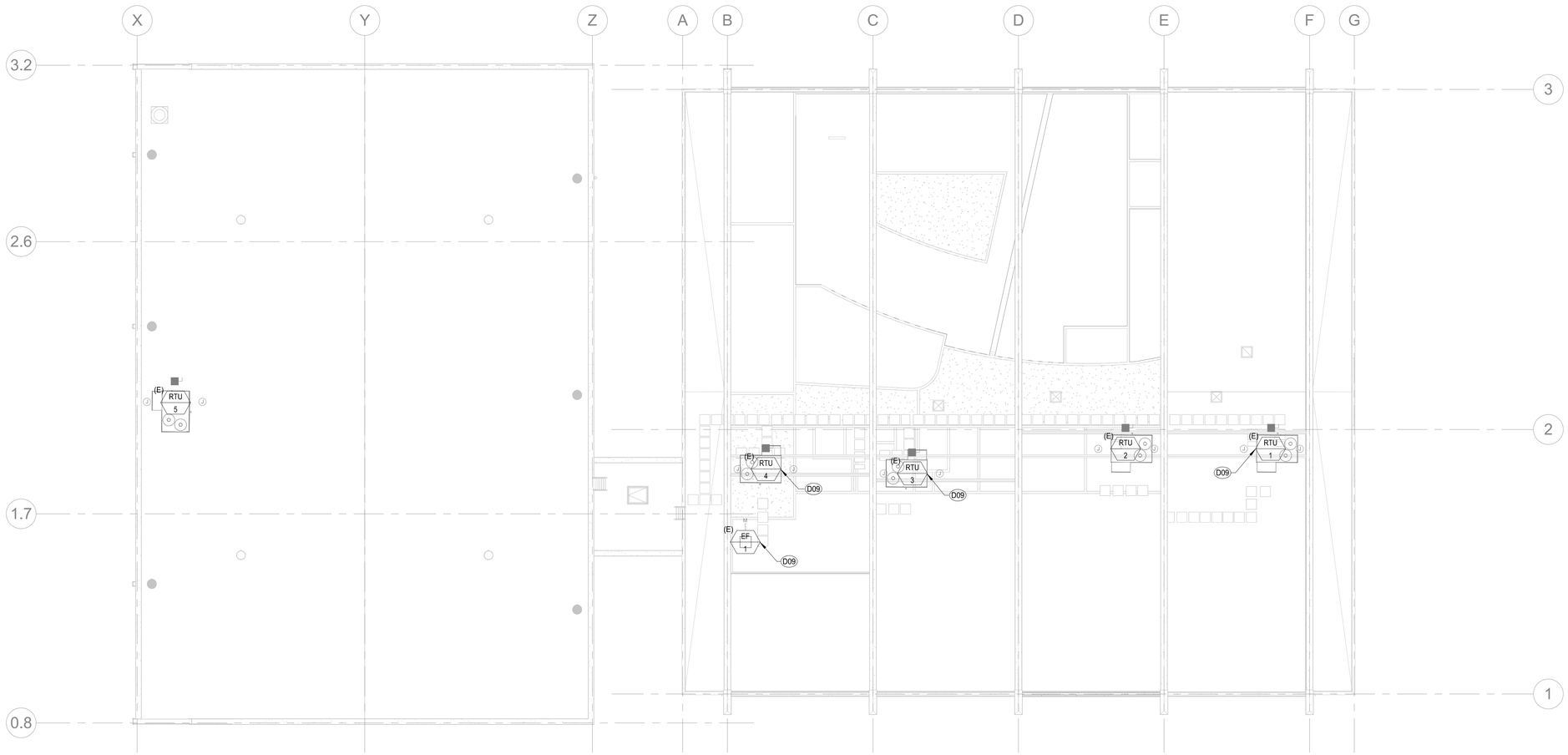
Conformed Documents

SHEET NOTES

D09 CONTRACTOR SHALL DISCONNECT RTU AND EXHAUST FAN POWER FROM EXISTING MAIN DISTRIBUTION BOARD AND RECONNECT TO NEW PANEL SOURCE. SEE NEW ROOF ELECTRICAL PLAN FOR FURTHER INFORMATION.

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.
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7. CONTRACTOR SHALL MAINTAIN INTEGRITY OF ALL EXISTING DEVICE BACK BOXES AND CONDUIT STUBS FOR INSTALLATION OF NEW DEVICES AND FACEPLATES WHERE APPLICABLE. COORDINATE WITH NV HISTORICAL FACILITY PERSONNEL AND ARCHITECT PRIOR TO COMMENCING WORK.



1 E203 Electrical Demolition Plan - Roof
Scale: 3/32" = 1'-0"

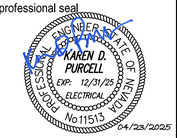
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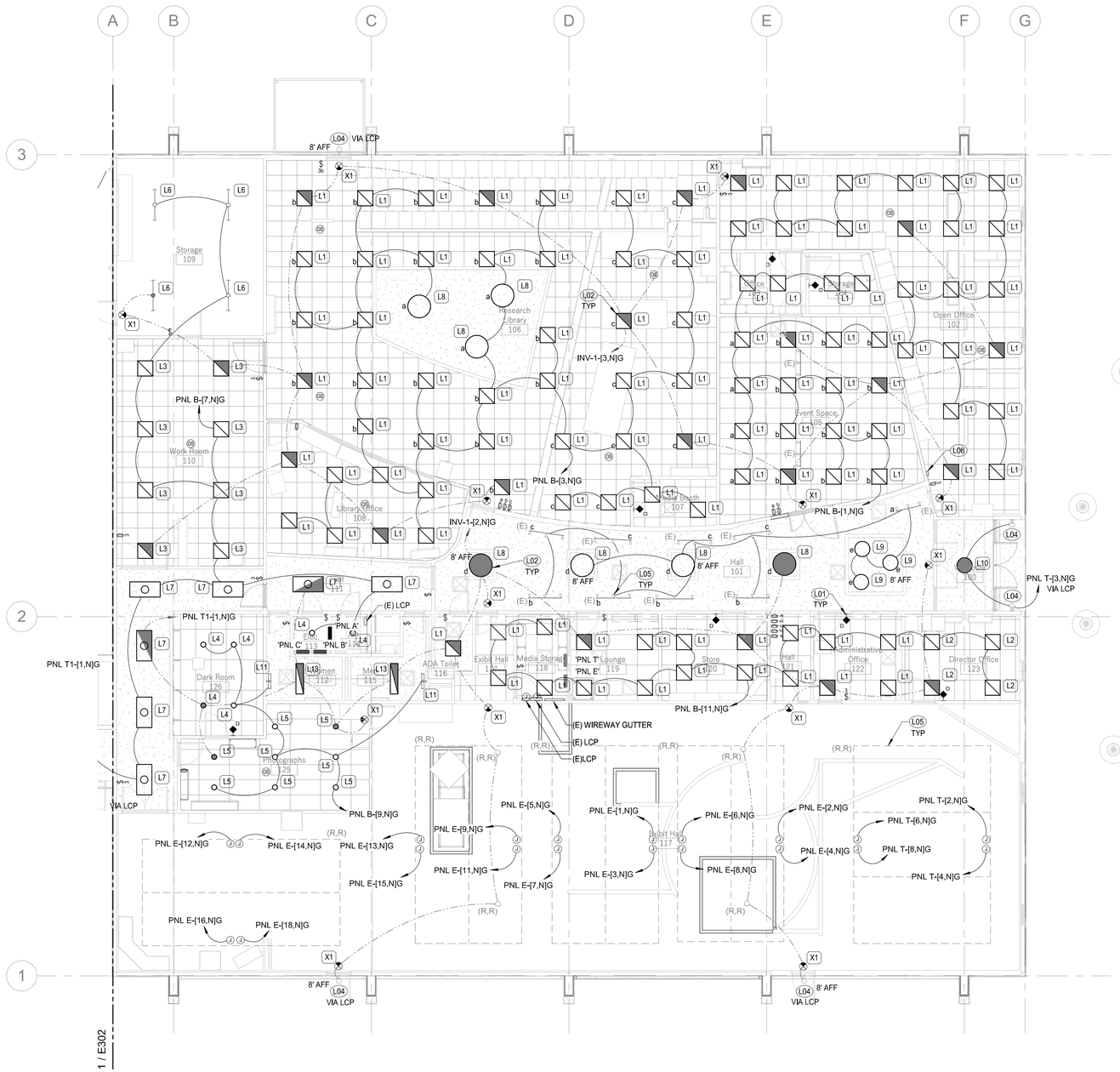
drawing name

Electrical Demolition Plan - Roof

sheet number

E203

Conformed Documents



1 E301 LIGHTING PLAN - MUSEUM

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. LIGHTING FIXTURES DESIGNATED AS 'EMERGENCY' SHALL BE WIRED TO OPERATE WITH LOCAL SWITCHING UNDER NORMAL POWER CONDITIONS AND SHALL OPERATE FOR NOT LESS THAN 90 MINUTES VIA EMERGENCY BATTERY PACK OR INVERTER UPON LOSS OF BUILDING UTILITY POWER ONLY, PER NEC 700.12 (F)(2).
3. EXIT SIGNS SHALL BE WIRED AHEAD OF LOCAL SWITCHING AND LIGHTING CONTROL PANEL FOR CONTINUOUS OPERATION. EXIT SIGNS SHALL BE WALL-MOUNTED ABOVE DOORS WHERE PRACTICAL. PROVIDE ADDITIONAL EXIT SIGNS AS NECESSARY FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, PER ARCHITECT'S FINAL PATH OF EGRESS / EXITING PLAN.
4. ELECTRICAL CONDUITS SHALL BE RUN CONCEALED WHERE BUILDING CONSTRUCTION ALLOWS. ANY EXPOSED CONDUIT SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ANY EXPOSED CONDUIT, FITTING, SUPPORTS, ETC SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH THEY ARE INSTALLED.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHTING FIXTURES.
6. EXACT LOCATION AND MOUNTING HEIGHT OF EXTERIOR BUILDING-MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL FIXTURE LOCATIONS, ABOVE-CEILING HOUSING CLEARANCES, ETC. WITH MECHANICAL, PLUMBING, SPRINKLER CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN.
8. PROVIDE MULTIPLE-GANG FACEPLATES AS NECESSARY WHERE TWO OR MORE LIGHT SWITCHES ARE INDICATED IN A COMMON LOCATION. SINGLE-GANG FACEPLATES FOR A GROUP OF LIGHT SWITCHES ARE NOT PERMITTED.
9. CONDUIT FOR BUILDING-MOUNTED LIGHT FIXTURES SHALL BE ROUTED THROUGH INTERIOR OF BUILDING. LIGHT FIXTURE BACKBOXES SHALL BE RECESSED.
10. REFER TO SPECIFICATION SECTION 26 05 19 FOR VOLTAGE DROP REQUIREMENTS AND MAXIMUM ONE-WAY CIRCUIT LENGTH FOR ALL BRANCH WIRING AND HOMERUNS. INCREASE WIRE SIZE ACCORDINGLY.
11. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND CONNECTION OF ALL REQUIRED 0-10V LOW VOLTAGE WIRING BETWEEN LIGHTING FIXTURES AND CONTROL DEVICES. PROVIDE AND CONNECT ALL NECESSARY POWER PACKS AND ACCESSORIES AS REQUIRED FOR A COMPLETE OPERATIONAL LIGHTING CONTROL SYSTEM. CONNECT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

(###) SHEET NOTES

L01 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY LIGHTING CONTROL DEVICES, COMPONENTS, ACCESSORIES, PANELS. LINE VOLTAGE WIRING, LOW VOLTAGE WIRING, AND 0-10V WIRING AS REQUIRED OF A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM.

L02 SHADED LIGHTING FIXTURE INDICATES 'EMERGENCY' LIGHTNG FIXTURE CONNECTED TO INVERTER. EMERGENCY LIGHTING FIXTURES SHALL OPERATE AS NON-EMERGENCY LIGHTING FIXTURES UNDER NORMAL POWER CONDITIONS. UPON LOSS OF POWER EMERGENCY LIGHTING FIXTURES SHALL BE ENERGIZED AND OPERATE INDEPENDENTLY OF NON-EMERGENCY LIGHTING TO ENSURE REQUIRED EMERGENCY EGRESS LIGHITNG LEVELS. CONTRACTOR SHALL PROVIDE ANY NECESSARY EMERGENCY LIGHTING RELAYS IR LIGHITNG CONTROL COMPONENTS AS WELL AS REQUIRED WIRING TO ENSURE PROPER OPERATION OF EMERGENCY LIGHTING FIXTURES.

L04 CONTRACTOR SHALL PROVIDE NEW LED, 4000K, 1000 LUMEN MINIMUM, SCREW-IN BASE LAMP TO EXISTING EXTERIOR ARCHITECTURAL WALL MOUNTED SCONCE FIXTURE. CONTRACTOR SHALL CLEAN EXISTING FIXTURE LENS UPON REPLACEMENT OF LAMP.

L05 CONTRACTOR SHALL PROVIDE NEW LED LAMPS FOR EXISTING TRACK LIGHTING SYSTEM. PROVIDE A TOTAL OF 220, LED, 3000K, NO UV, DIMMABLE WITH SCREW-IN BASE LAMPS. COORDINATE WITH NV HISTORICAL SOCIETY FACILITIES PRIOR TO LAMP REPLACEMENT REQUIREMENTS (TYPE, LUMEN OUTPUT) AND ADJUSTMENT OF TRACK HEADS PRIOR TO PURCHASE OF ANY MATERIALS. CONTRACTOR SHALL ALSO COORDINATE DIMMING REQUIREMENTS WTIH EXISTING LCP SYSTEMS TO REMAIN.

L06 COORDINATE FINAL LOCATION OF EXTERIOR LOWER BUILDING LIGHTING CONTROLLER WITH NV HISTORICAL SOCIETY STAFF PRIOR TO ROUGH-IN. MAKE ALL CONNECTIONS BETWEEN CONTROLLER, POWER SUPPLIES AND EXTERIOR LED LINEAR FIXTURES FOR A COMPLETE AND OPERABLE SYSTEM.

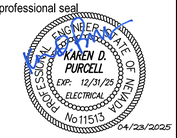
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SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date
1	Review Comments	10/4/24

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

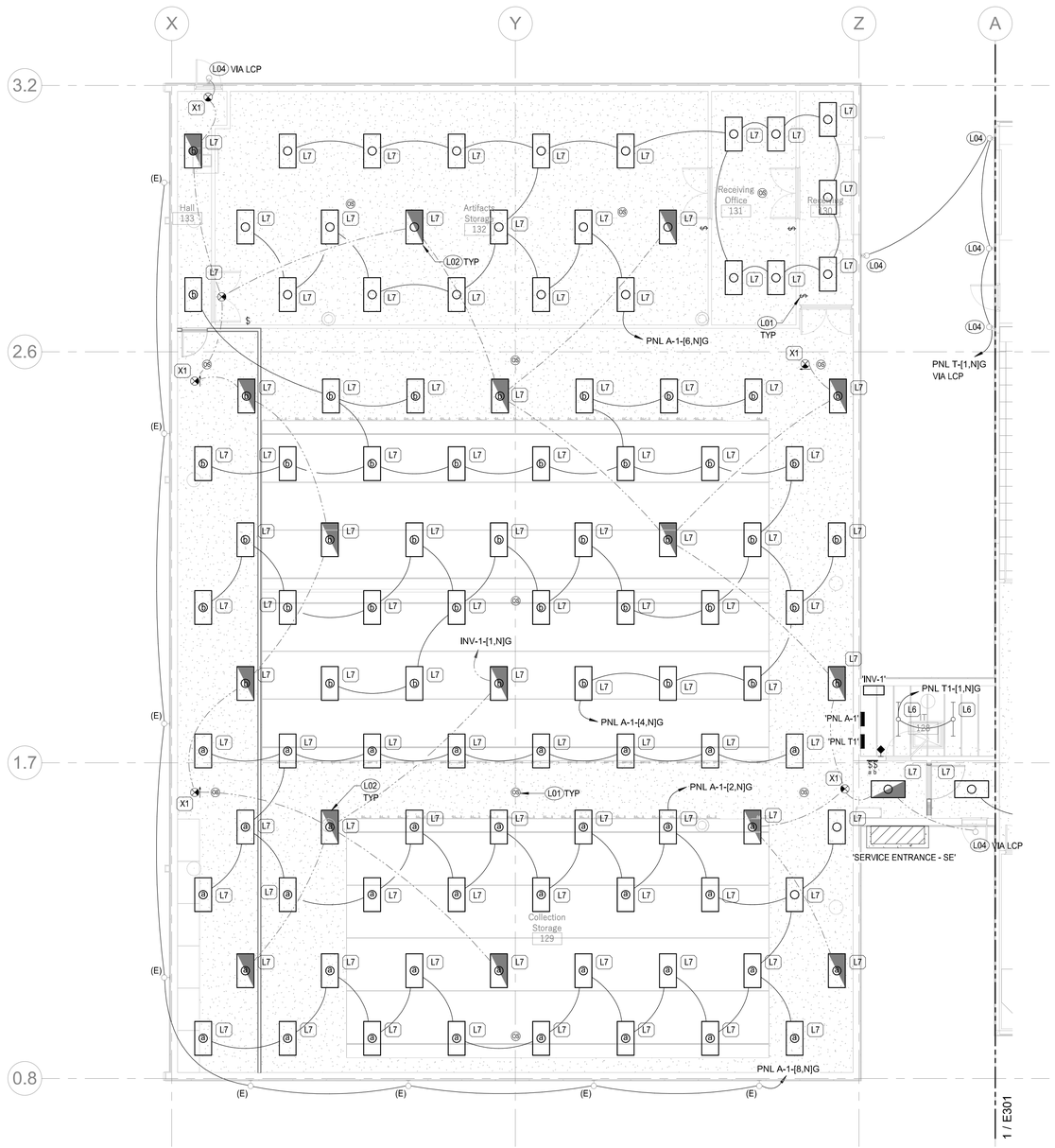
drawing name

Lighting Plan - Museum

sheet number

E301

Conformed Documents



1 E302 LIGHTING PLAN - COLLECTIONS

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. LIGHTING FIXTURES DESIGNATED AS 'EMERGENCY' SHALL BE WIRED TO OPERATE WITH LOCAL SWITCHING UNDER NORMAL POWER CONDITIONS AND SHALL OPERATE FOR NOT LESS THAN 90 MINUTES VIA EMERGENCY BATTERY PACK OR INVERTER UPON LOSS OF BUILDING UTILITY POWER ONLY, PER NEC 700.12 (F)(2).
3. EXIT SIGNS SHALL BE WIRED AHEAD OF LOCAL SWITCHING AND LIGHTING CONTROL PANEL FOR CONTINUOUS OPERATION. EXIT SIGNS SHALL BE WALL-MOUNTED ABOVE DOORS WHERE PRACTICAL. PROVIDE ADDITIONAL EXIT SIGNS AS NECESSARY FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, PER ARCHITECT'S FINAL PATH OF EGRESS / EXITING PLAN.
4. ELECTRICAL CONDUITS SHALL BE RUN CONCEALED WHERE BUILDING CONSTRUCTION ALLOWS. ANY EXPOSED CONDUIT SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ANY EXPOSED CONDUIT, FITTING, SUPPORTS, ETC SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH THEY ARE INSTALLED.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHTING FIXTURES.
6. EXACT LOCATION AND MOUNTING HEIGHT OF EXTERIOR BUILDING-MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL FIXTURE LOCATIONS, ABOVE-CEILING HOUSING CLEARANCES, ETC. WITH MECHANICAL, PLUMBING, SPRINKLER CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN.
8. PROVIDE MULTIPLE-GANG FACEPLATES AS NECESSARY WHERE TWO OR MORE LIGHT SWITCHES ARE INDICATED IN A COMMON LOCATION. SINGLE-GANG FACEPLATES FOR A GROUP OF LIGHT SWITCHES ARE NOT PERMITTED.
9. CONDUIT FOR BUILDING-MOUNTED LIGHT FIXTURES SHALL BE ROUTED THROUGH INTERIOR OF BUILDING. LIGHT FIXTURE BACKBOXES SHALL BE RECESSED.
10. REFER TO SPECIFICATION SECTION 26 05 19 FOR VOLTAGE DROP REQUIREMENTS AND MAXIMUM ONE-WAY CIRCUIT LENGTH FOR ALL BRANCH WIRING AND HOMERUNS. INCREASE WIRE SIZE ACCORDINGLY.
11. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND CONNECTION OF ALL REQUIRED 0-10V LOW VOLTAGE WIRING BETWEEN LIGHTING FIXTURES AND CONTROL DEVICES. PROVIDE AND CONNECT ALL NECESSARY POWER PACKS AND ACCESSORIES AS REQUIRED FOR A COMPLETE OPERATIONAL LIGHTING CONTROL SYSTEM. CONNECT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

(###) SHEET NOTES

L01 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY LIGHTING CONTROL DEVICES, COMPONENTS, ACCESSORIES, PANELS, LINE VOLTAGE WIRING, LOW VOLTAGE WIRING, AND 0-10V WIRING AS REQUIRED OF A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM.

L02 SHADED LIGHTING FIXTURE INDICATES 'EMERGENCY' LIGHTING FIXTURE CONNECTED TO INVERTER. EMERGENCY LIGHTING FIXTURES SHALL OPERATE AS NON-EMERGENCY LIGHTING FIXTURES UNDER NORMAL POWER CONDITIONS. UPON LOSS OF POWER EMERGENCY LIGHTING FIXTURES SHALL BE ENERGIZED AND OPERATE INDEPENDENTLY OF NON-EMERGENCY LIGHTING TO ENSURE REQUIRED EMERGENCY EGRESS LIGHTING LEVELS. CONTRACTOR SHALL PROVIDE ANY NECESSARY EMERGENCY LIGHTING RELAYS IR LIGHITNG CONTROL COMPONENTS AS WELL AS REQUIRED WIRING TO ENSURE PROPER OPERATION OF EMERGENCY LIGHTING FIXTURES.

L04 CONTRACTOR SHALL PROVIDE NEW LED, 4000K, 1000 LUMEN MINIMUM, SCREW-IN BASE LAMP TO EXISTING EXTERIOR ARCHITECTURAL WALL MOUNTED SCONCE FIXTURE. CONTRACTOR SHALL CLEAN EXISTING FIXTURE LENS UPON REPLACEMENT OF LAMP.

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1	Review Comments	10/4/24

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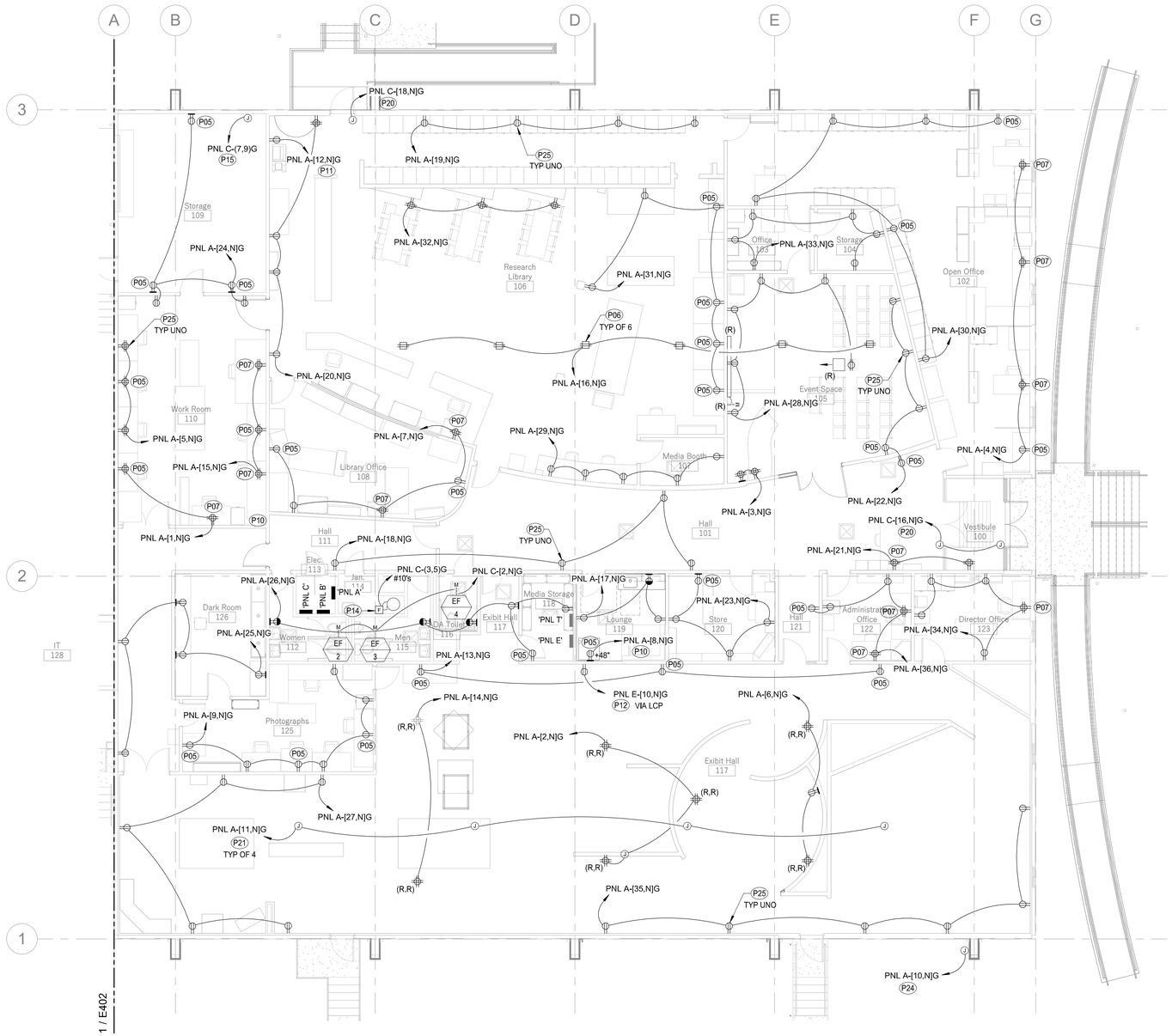
drawing name

Lighting Plan - Collections

sheet number

E302

Conformed Documents



1 E401 POWER PLAN - MUSEUM

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL COORDINATE FINAL RECEPTACLE LOCATIONS WITH TELECOM OUTLETS PRIOR TO ROUGH-IN. EACH TELECOM OUTLET SHALL HAVE A RECEPTACLE LOCATED WITHIN 12", MEASURED FROM CENTER OF DEVICES.
3. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF GENERAL RECEPTACLES, SPECIAL OUTLETS AND DISCONNECT SWITCHES IN SHOP AREAS WITH OWNER AND EQUIPMENT SUPPLIERS PRIOR TO ROUGH-IN.
4. CONDUITS FOR ROOF-MOUNTED DEVICES AND EQUIPMENT SHALL BE RUN BELOW ROOF DECK/SYSTEM. ROOF MOUNTED CONDUITS WILL ONLY BE CONSIDERED AND APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
5. VERIFY EXACT ELECTRICAL REQUIREMENTS, PLUG CONFIGURATIONS, ETC., AND FINAL LOCATIONS OF OWNER-PROVIDED EQUIPMENT WITH OWNER'S REPRESENTATIVE PRIOR TO ORDERING OF MATERIALS AND ROUGH-IN.
6. REFER TO SPECIFICATION SECTION 26 05 19 FOR VOLTAGE DROP REQUIREMENTS AND MAXIMUM ONE-WAY CIRCUIT LENGTH FOR ALL BRANCH WIRING AND HOMERUNS. INCREASE WIRE SIZE ACCORDINGLY.

SHEET NOTES

P05 DEVICE IS NEW AND SHALL BE INSTALLED AT HEIGHT INDICATED WITHIN ELECTRICAL LEGEND (18" AFF). CUT-IN BOXES WILL BE ACCEPTABLE AT NEW LOCATIONS PER STATE PUBLIC WORKS DIVISION.

P06 PROVIDE NEW RECEPTACLE WITHIN EXISTING FLOOR BOX. PROVIDE NEW BRASS COVER AS REQUIRED.

P07 PROVIDE NEW QUAD RECEPTACLES WITHIN EXISTING J-BOX LOCATION. REPLACE EXISTING SINGLE GANG MUD RING WITH DUAL GANG RING AS REQUIRED.

P10 PROVIDE DEDICATED 120V CIRCUIT FOR BREAKROOM REFRIGERATOR. COORDINATE FINAL LOCATION WITH NV HISTORICAL SOCIETY FACILITIES PRIOR TO ROUGH-IN.

P11 PROVIDE DEDICATED 120V CIRCUIT FOR RESEARCH LIBRARY PRINTER.

P12 PROVIDE DEDICATED 120V CIRCUIT FOR MUSEUM NEON SIGN. CIRCUIT SHALL BE ENERGIZED VIA LIGHTING CONTROL PANEL.

P14 30A, 240V, 3PH, N1, NON-FUSED DISCONNECT. COORDINATE FINAL MOUNTING LOCATION WITH NV HISTORICAL SOCIETY FACILITIES PRIOR TO ROUGH-IN.

P15 PROVIDE J-BOX WITH MOTOR RATED SWITCH FOR CONNECTION TO EXISTING FIRE SPRINKLER SYSTEM PUMP. COORDINATE LOCATION OF SWITCH PRIOR TO ROUGH-IN.

P20 PROVIDE 120V CIRCUIT FOR POWER DOOR SYSTEM. COORDINATE WITH TELECOM DRAWINGS AND/OR INSTALLER PRIOR TO ROUGH-IN.

P21 PROVIDE 120V CEILING MOUNTED CIRCUIT FOR FUTURE USE. COORDINATE WTIH NV HISTORICAL SOCIETY FACILITY PRIOR TO ROUGH-IN.

P24 PROVIDE DEDICATED 120V CIRCUIT FOR EXTERIOR MOUNTED IRRIGATION CONTROLLER. COORDINATE WITH NV HISTORICAL SOCIETY FACILITY PRIOR TO ROUGH-IN.

P25 NEW ELECTRICAL DEVICE AND TRIM PLATE IN EXISTING BACK BOX. UTILIZE EXISTING RACEWAY WHERE APPLICABLE.

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project

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SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building
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revisions

No.	Description	Date

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

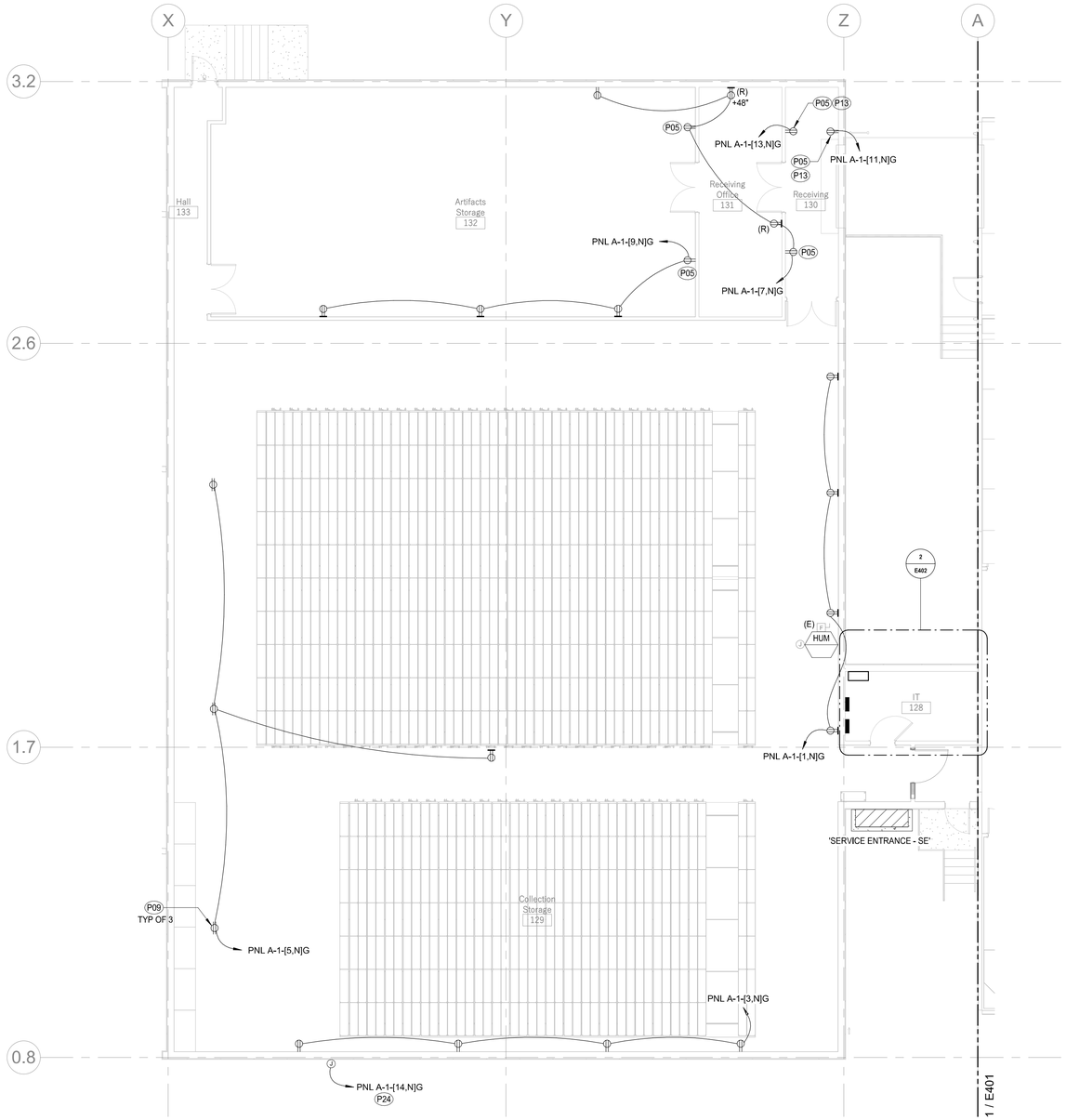
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Power Plan - Museum

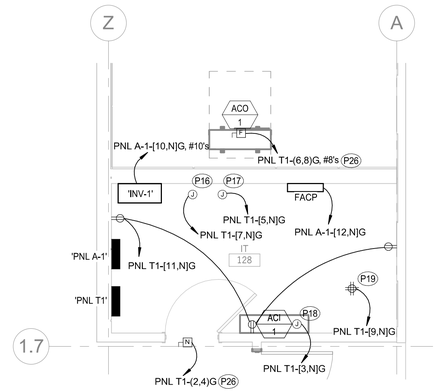
sheet number

E401

Conformed Documents



1 E402 POWER PLAN - COLLECTIONS
Scale: 1/8" = 1'-0"



2 E402 ENLARGED IT ROOM POWER PLAN
Scale: 1/4" = 1'-0"

GENERAL NOTES

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL COORDINATE FINAL RECEPTACLE LOCATIONS WITH TELECOM OUTLETS PRIOR TO ROUGH-IN. EACH TELECOM OUTLET SHALL HAVE A RECEPTACLE LOCATED WITHIN 12", MEASURED FROM CENTER OF DEVICES.
3. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF GENERAL RECEPTACLES, SPECIAL OUTLETS AND DISCONNECT SWITCHES IN SHOP AREAS WITH OWNER AND EQUIPMENT SUPPLIERS PRIOR TO ROUGH-IN.
4. CONDUITS FOR ROOF-MOUNTED DEVICES AND EQUIPMENT SHALL BE RUN BELOW ROOF DECK/SYSTEM. ROOF MOUNTED CONDUITS WILL ONLY BE CONSIDERED AND APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
5. VERIFY EXACT ELECTRICAL REQUIREMENTS, PLUG CONFIGURATIONS, ETC., AND FINAL LOCATIONS OF OWNER-PROVIDED EQUIPMENT WITH OWNER'S REPRESENTATIVE PRIOR TO ORDERING OF MATERIALS AND ROUGH-IN.
6. REFER TO SPECIFICATION SECTION 26 05 19 FOR VOLTAGE DROP REQUIREMENTS AND MAXIMUM ONE-WAY CIRCUIT LENGTH FOR ALL BRANCH WIRING AND HOMERUNS. INCREASE WIRE SIZE ACCORDINGLY.

(###) SHEET NOTES

P05 DEVICE IS NEW AND SHALL BE INSTALLED AT HEIGHT INDICATED WITHIN ELECTRICAL LEGEND (18" AFF). CUT-N BOX SHALL BE ACCEPTABLE AT NEW LOCATIONS PER STATE PUBLIC WORKS DIVISION.

P09 PROVIDE CEILING MOUNTED 120V CORD REEL(HUBBEL-HBLC40123TT OR EQUAL) WITH TRIPLE TAP CONNECTOR . COORDINATE WITH STRUCTURAL AND NV HISTORICAL SOCIETY FACILITIES PRIOR TO FINAL ROUGH-IN.

P13 PROVIDE DEDICATED 120V CIRCUIT FOR RECEIVING AREA REFRIGERATOR/FREEZER UNITS.

P16 PROVIDE DEDICATED 120V CIRCUIT FOR INTRUSION SYSTEM CABINET. COORDINATE WITH TELECOM DRAWINGS AND/OR INSTALLER PRIOR TO ROUGH-IN.

P17 PROVIDE DEDICATED 120V CIRCUIT FOR CCTV CABINET. COORDINATE WITH TELECOM DRAWINGS AND/OR INSTALLER PRIOR TO ROUGH-IN.

P18 PROVIDE DEDICATED 120V CIRCUIT FOR ACCESS CONTROL PANEL. COORDINATE WITH TELECOM DRAWINGS AND/OR INSTALLER PRIOR TO ROUGH-IN.

P19 PROVIDE DEDICATED QUAD RECEPTACLES MOUNTED TO TELECOM LADDER RACKING. COORDINATE WITH TELECOM DRAWINGS AND/OR INSTALLER PRIOR TO ROUGH-N.

P24 PROVIDE DEDICATED 120V CIRCUIT FOR EXTERIOR MOUNTED IRRIGATION CONTROLLER. COORDINATE WITH NV HISTORICAL SOCIETY FACILITY PRIOR TO ROUGH-IN.

P26 COORDINATE FINAL LOCATION OF HVAC SPLIT SYSTEM EQUIPMENT WITH MECHANICAL AND/OR NV HISTORICAL SOCIETY FACILITIES PRIOR TO FINAL ROUGH-IN.

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revisions

No.	Description	Date

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reviewed by	JEG
date	04.23.25
project number	23035

drawing name

Power Plan - Collections

sheet number

E402

Conformed Documents

(###) SHEET NOTES

P22 EXTEND EXISTING RTU AND EXHAUST FAN FEED CONDUCTORS WITHIN MAIN ELECTRICAL CLOSET AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.

GENERAL NOTES

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT. (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. THE CONTRACTOR SHALL OBTAIN ALL WIRING DIAGRAMS ASSOCIATED WITH THE MECHANICAL EQUIPMENT CONTROLS FROM THE MECHANICAL/CONTROLS CONTRACTOR. CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR. ANY CONDUIT REQUIRED FOR CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR AND SHALL BE COMPLETED UNDER THE SUPERVISION OF THE MECHANICAL/CONTROLS CONTRACTOR.
3. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT MODEL NUMBERS AND SPECIFIC ELECTRICAL REQUIREMENTS, OPTIONS AND ACCESSORIES.
4. INFORMATION ON ARCHITECTURAL AND MECHANICAL DRAWINGS SUPERSEDE INFORMATION SHOWN ON ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
5. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ELECTRICAL REQUIREMENTS FOR FINAL MECHANICAL EQUIPMENT INSTALLED. SHOULD THERE BE ANY DISCREPANCY BETWEEN ACTUAL EQUIPMENT INSTALLED AND ELECTRICAL OR MECHANICAL DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY FOR CLARIFICATION AND FURTHER DIRECTION.
6. LOCATE ALL DISCONNECTS, STARTERS AND DRIVES WHERE ACCESSIBLE. PROVIDE ACCESS AND CLEARANCE AS REQUIRED PER NEC. PROVIDE ACCESS HATCH IF LOCATED ABOVE HARD LID CEILING.
7. DISCONNECT SWITCHES, STARTERS OR DRIVES PROVIDED BY MECHANICAL AND SHIPPED LOOSE ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO INSTALL.
8. PIPING AND / OR DUCTWORK SHALL NOT BE ROUTED IN THE DEDICATED ELECTRICAL EQUIPMENT SPACE AT OR ABOVE ELECTRICAL SWITCHBOARDS, DISTRIBUTION BOARDS, PANELBOARDS, ETC. (PER 2011 NEC 110.26E). PROVIDE DEPTH AND WIDTH OF WORKING SPACE FOR ELECTRICAL EQUIPMENT AS REQUIRED PER 2011 NEC 110.26.
9. REFER TO SPECIFICATION SECTION 26 05 19 FOR VOLTAGE DROP REQUIREMENTS AND MAXIMUM ONE-WAY CIRCUIT LENGTH FOR ALL BRANCH WIRING AND HOMERUNS. INCREASE WIRE SIZE ACCORDINGLY.



1 E403 Roof Electrical Plan
Scale: 1/16" = 1'-0"

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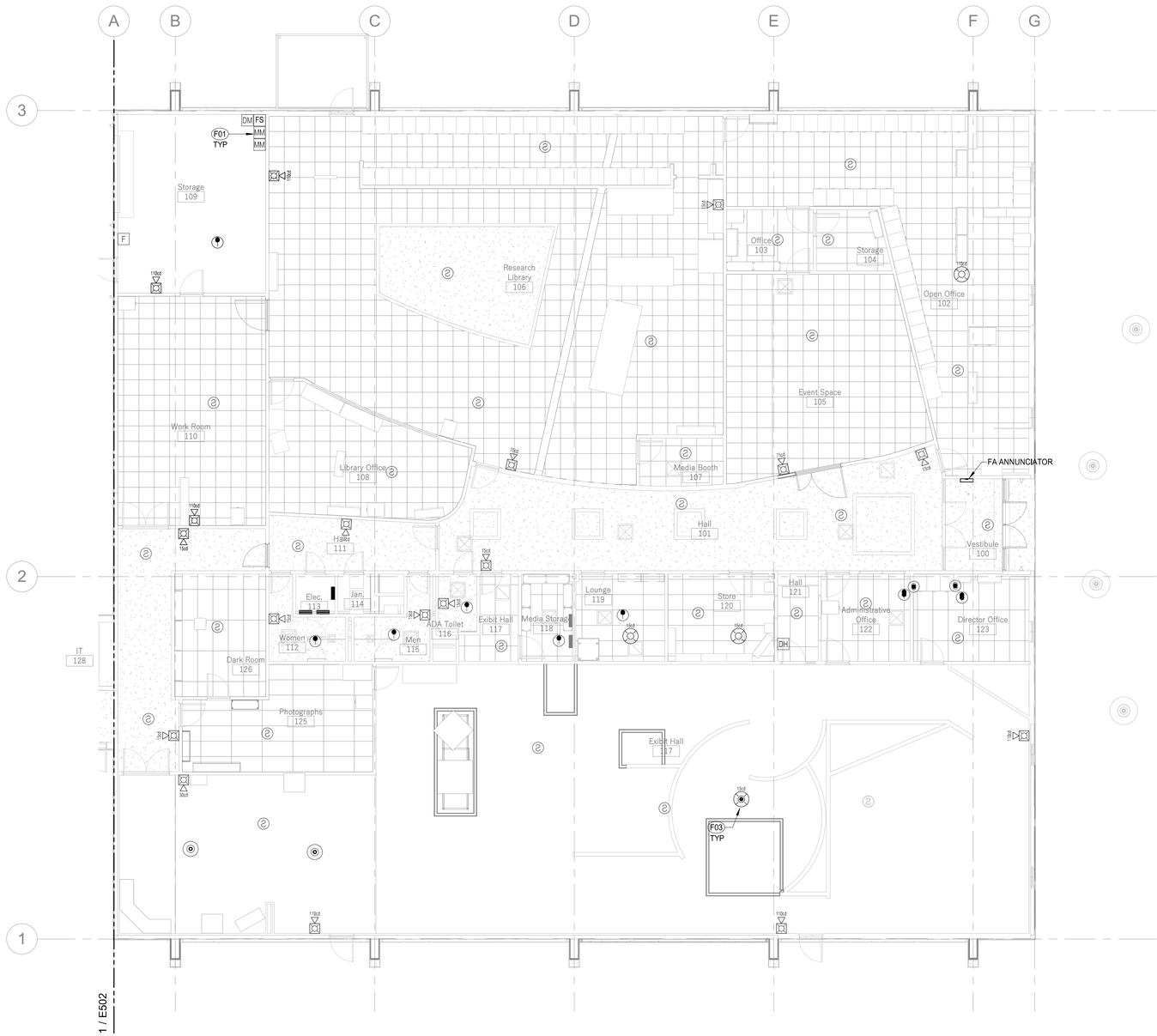
drawing name

Roof Electrical Plan

sheet number

E403

Conformed Documents



1 E501 FIRE ALARM PLAN - MUSEUM

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. COORDINATE DEVICE PLACEMENT IN CEILING WITH OTHER TRADES, SUCH AS LIGHTING, TELECOM, MECHANICAL, ETC. ALL FIRE ALARM DEVICES LOCATED IN CEILING TILES SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE UNLESS SPECIFICALLY NOTED OR APPROVED TO DO OTHERWISE.
3. INFORMATION ON ARCHITECTURAL AND MECHANICAL DRAWINGS SUPERSEDE INFORMATION SHOWN ON ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
4. FIRE ALARM DEVICES AND CABLING SHALL BE NEW IN THEIR ENTIRETY AND WIRED AND PROGRAMMED BACK TO THE EXISTING FACP LOCATED WITHIN THE TELECOM ROOM ON THE COLLECTIONS SIDE OF THE PROPERTY.

(###) SHEET NOTES

F01 PROVIDE MONITOR MODULES FOR FIRE PROTECTION SYSTEM AS REQUIRED. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR EXACT QUANTITY AND LOCATION.

F03 COORDINATE THE PLACEMENT OF ALL FIRE DETECTION SYSTEM DEVICES WITH FINAL FIRE ALARM DRAWINGS APPROVED BY THE LOCAL FIRE MARSHAL.

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project

Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

Nevada Historical Society Building
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

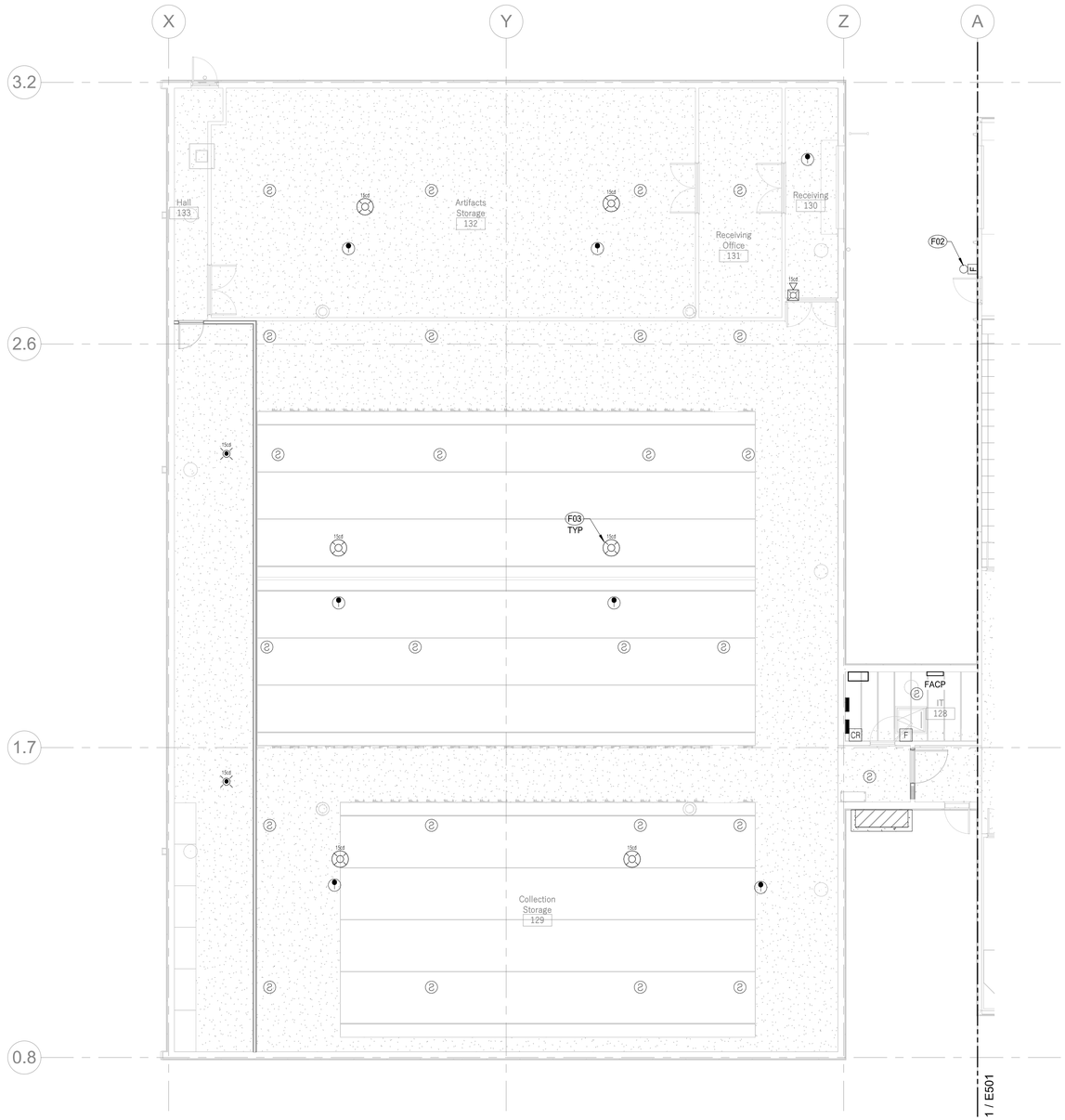
drawing name

Fire Alarm Plan - Museum

sheet number

E501

Conformed Documents



1 E502 FIRE ALARM PLAN - COLLECTIONS

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. COORDINATE DEVICE PLACEMENT IN CEILING WITH OTHER TRADES, SUCH AS LIGHTING, TELECOM, MECHANICAL, ETC. ALL FIRE ALARM DEVICES LOCATED IN CEILING TILES SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE UNLESS SPECIFICALLY NOTED OR APPROVED TO DO OTHERWISE.
3. INFORMATION ON ARCHITECTURAL AND MECHANICAL DRAWINGS SUPERSEDE INFORMATION SHOWN ON ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
4. FIRE ALARM DEVICES AND CABLING SHALL BE NEW IN THEIR ENTIRETY AND WIRED AND PROGRAMMED BACK TO THE EXISTING FACP LOCATED WITHIN THE TELECOM ROOM ON THE COLLECTIONS SIDE OF THE PROPERTY.

(###) SHEET NOTES

F02 WATERFLOW BELL, PROVIDED BY SPRINKLER CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL. PROVIDE 120V CIRCUIT THROUGH FLOW SWITCH.

F03 COORDINATE THE PLACEMENT OF ALL FIRE DETECTION SYSTEM DEVICES WITH FINAL FIRE ALARM DRAWINGS APPROVED BY THE LOCAL FIRE MARSHAL.

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3. INFORMATION ON ARCHITECTURAL AND MECHANICAL DRAWINGS SUPERSEDE INFORMATION SHOWN ON ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
4. FIRE ALARM DEVICES AND CABLING SHALL BE NEW IN THEIR ENTIRETY AND WIRED AND PROGRAMMED BACK TO THE EXISTING FACP LOCATED WITHIN THE TELECOM ROOM ON THE COLLECTIONS SIDE OF THE PROPERTY.

(###) SHEET NOTES

F06 EXISTING AIR HANDLER WITH UNIT DUCT DETECTOR. PROVIDE NEW MONITOR MODULE AND SHUTDOWN RELAY COMPATIBLE WITH NEW SYSTEM AS REQUIRED. FIELD VERIFY EXISTING DUCT DETECTOR TYPE AND REPLACE IF NOT COMPATIBLE WITH NEW SYSTEM. PROVIDE ALL WIRING COMPLETE FOR MONITORING AND SHUTDOWN OF AIR HANDLER.



1 E503 ROOF FIRE ALARM PLAN

Scale: 1/16" = 1'-0"

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Roof Fire Alarm Plan

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TELECOM AND SECURITY GENERAL NOTES

ITEM	DESCRIPTION
1.	STANDARDS AND CODES : ALL TELECOMMUNICATIONS (TELECOM) AND ELECTRONIC SAFETY AND SECURITY (ESS) AND AUDIO-VISUAL (AV) WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), ANSI/TIA STANDARDS AND ANSI/INFOCOMM STANDARDS REFERENCED IN THE DIVISION 27 SPECIFICATIONS. ALL SECURITY WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE DIVISION 28 SPECIFICATIONS.
2.	GENERAL REQUIREMENTS : INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, STORAGE COSTS, EXCAVATION, TRAINING, INSURANCE, TEMPORARY PROTECTION, PERMITS, INSPECTIONS, TAXES AND ALL NECESSARY AND RELATED ITEMS REQUIRED TO PROVIDE COMPLETE AND OPERATIONAL TELECOM, SECURITY AND AUDIO-VISUAL SYSTEMS AS SHOWN ON THE CONTRACT DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. THE DIVISION 26 ELECTRICAL CONTRACTOR, THE DIVISION 27 TELECOM CONTRACTOR AND THE DIVISION 28 SECURITY CONTRACTOR ARE RESPONSIBLE FOR THE WORK SHOWN ON THE TELECOM DRAWINGS AND DESCRIBED IN THE DIVISION 27 AND 28 SPECIFICATIONS. INFORMATION SHOWN ON THE TELECOM DRAWINGS IS DIAGRAMMATIC. FIELD VERIFY ALL DIMENSIONS, LOCATIONS, AND LAYOUT. REVIEW ALL ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL AND SPECIALTY SYSTEMS DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OR CONDITIONS SHOWN THEREON. DO NOT SCALE THE TELECOM PLANS FOR RACEWAY, OUTLET, RACK OR EQUIPMENT LOCATIONS.
3.	RACEWAY : THE DIVISION 26 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, SUPPORT AND SEISMIC BRACING OF ALL RACEWAY SHOWN ON THE TELECOM DRAWINGS AND DESCRIBED IN THE DIVISION 27 AND 28 SPECIFICATIONS. THIS INCLUDES BUT IS NOT LIMITED TO ALL OUTLET BOXES, CONDUIT, VAULTS, PULL BOXES, PULL STRING, SLEEVES AND PLYWOOD BACKBOARDS. WHERE RACEWAY IS SHOWN ON THE TELECOM DRAWINGS BUT NOT SPECIFIED IN THE DIVISION 27 AND 28 SPECIFICATIONS, THE RACEWAY WILL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DIVISION 26 SPECIFICATIONS. THE DIVISION 26 ELECTRICAL CONTRACTOR SHALL INSTALL WALL, FLOOR, CEILING OR FURNITURE MOUNTED OUTLET BOXES AT ALL TELECOM OUTLETS AND WILL INSTALL AN 1" EMT CONDUIT (UON) FROM THE OUTLET BOX TO AN ACCESSIBLE CEILING SPACE. THE DIVISION 27 CONTRACTOR SHALL INSTALL J-HOOKS FROM THIS POINT TO THE TELECOM ROOM. WHERE NO ACCESSIBLE CEILING SPACE EXISTS, THE ELECTRICAL CONTRACTOR SHALL INSTALL CONDUIT FROM THE OUTLET BOX TO THE TELECOM ROOM. NO EXPOSED TELECOM OR AV CABLING IS PERMITTED WITH THE EXCEPTION OF CABLING ROUTED WITHIN THE TELECOM ROOM. ALL CABLING MUST BE CONCEALED ABOVE ACCESSIBLE CEILINGS OR ROUTED IN CONDUIT. IN AREAS WITHOUT CEILINGS, CABLING SHALL BE ROUTED IN CONDUIT. NO EXPOSED SECURITY CABLING IS PERMITTED. ALL SECURITY CABLING MUST BE ROUTED IN CONDUIT FROM THE FIELD DEVICES TO THE SECURITY PANEL LOCATED IN THE ELECTRICAL ROOM. ALL CONDUIT EXPOSED TO VIEW SHALL BE PAINTED TO MATCH ADJACENT SURFACES. THE DIVISION 26 ELECTRICAL CONTRACTOR SHALL INSTALL CONDUIT FOR ROUTING OF HORIZONTAL TELECOM CABLING ROUTED IN INACCESSIBLE CEILING OR WALL SPACES. CONDUIT SHALL BE SIZED SO AS NOT TO EXCEED 40% FILL RATE. ALL RACEWAY SHALL BE RUN PERPENDICULAR TO BUILDING GRID LINES. TELECOM RACEWAY SHALL BE INSTALLED SO THAT THE FOLLOWING MINIMUM CLEAR DISTANCES ARE MAINTAINED FROM SOURCES OF ELECTRO-MAGNETIC INTERFERENCE (EMI). 6" CLEAR FROM POWER CABLES, 12" CLEAR FROM FLUORESCENT LIGHTING AND 36" CLEAR FROM TRANSFORMERS AND MOTORS. THE DIVISION 26 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL ACCESS DOORS REQUIRED TO PROVIDE REASONABLE ACCESS FOR THE INSTALLATION OF TELECOM CABLING.
4.	FIRESTOPPING : ALL PENETRATIONS THROUGH FIRE RATED OR ACOUSTICAL WALLS MUST BE FIRE STOPPED WITH A UL LISTED FIRE STOP ASSEMBLY. ALL FIRE STOPPING ASSEMBLIES SHALL SHALL MEET OR EXCEED THE RATING OF THE WALL OR FLOOR BEING PENETRATED. THE DIVISION 26 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF FIRESTOPPING BETWEEN ALL TELECOM RACEWAYS AND THE BUILDING STRUCTURE. THE DIVISION 27 TELECOM CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF FIRESTOPPING BETWEEN THE TELECOM CABLING AND THE TELECOM RACEWAY.
5.	GROUNDING AND BONDING : ALL TELECOM RACEWAYS, BUILDING ENTRANCE TERMINALS, BACKBONE CABLE SHIELDS, EQUIPMENT RACKS AND EQUIPMENT SHALL BE BONDED AND GROUNDED. THE DIVISION 26 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL GROUNDING WORK SHOWN ON THE TELECOM DRAWINGS OR DESCRIBED IN THE DIVISION 27 SPECIFICATIONS. THIS INCLUDES BUT IS NOT LIMITED TO INSTALLATION OF ALL COPPER GROUNDING BUS BARS, GROUNDING CONDUCTORS, CONDUIT, GROUNDING BUSHINGS, LUGS, ETC. THE DIVISION 27 CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ANY SPECIALTY GROUNDING BRACKETS TO FACILITATE ATTACHMENT OF GROUNDING CONDUCTORS TO THE TELECOM EQUIPMENT RACKS, EQUIPMENT CABINETS OR WIRING BLOCKS. THE DIVISION 27 CONTRACTOR IS RESPONSIBLE FOR LABELING ALL OF THE GROUNDING RELATED ITEMS SHOWN ON THE TELECOM DRAWINGS OR DESCRIBED IN THE DIVISION 27 SPECIFICATIONS.
6.	STRUCTURED CABLING : THE DIVISION 27 TELECOM CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL REMAINING WORK SHOWN ON THE TELECOM DRAWINGS OR DESCRIBED IN THE DIVISION 27 SPECIFICATIONS. THIS INCLUDES BUT IS NOT LIMITED TO HORIZONTAL DATA CABLING, TELECOM OUTLET FACEPLATES, TELECOM OUTLET JACKS, DATA PATCH PANELS, EQUIPMENT CABINETS, RACK MOUNTED CABLE MANAGEMENT DEVICES, VELCRO CABLE TIES, D-RINGS, PATCH CORDS, STATION CORDS, CROSS CONNECT WIRE, LABELING, CABLE TESTING AND CERTIFICATION, ETC.
7.	OPEN EQUIPMENT RACKS AND ENCLOSED CABINETS : ALL TELECOM EQUIPMENT RACKS AND CABINETS SHALL HAVE 19" RACK MOUNTING SPACES. RACKS AND CABINETS SHALL BE CONSTRUCTED OF HIGH STRENGTH ALUMINUM WITH A BLACK FINISH. RACKS SHALL BE SECURED TO THE FLOOR SLAB WITH A MINIMUM OF QTY (4) CONCRETE EXPANSION ANCHORS.
8.	CABLING AND TERMINATIONS : ALL PREMISE HORIZONTAL DATA CABLING, DATA PATCH CORDS AND DATA WORKSTATION CORDS SHALL BE CATEGORY 6 UNSHIELDED TWISTED PAIR. ALL DATA PATCH PANELS AND DATA OUTLET JACKS SHALL BE CATEGORY 6. HORIZONTAL CAT 6 DATA CABLING SHALL BE COLOR WHITE WITH A PLENUM RATED JACKET (CMP). HORIZONTAL CAT 6 DATA CABLING ROUTED IN OR UNDER THE SLAB ON GRADE SHALL BE COLOR BLACK WITH AN INDOOR/OUTDOOR RATED JACKET (CMP/CMX). THIS INCLUDES CABLING ROUTED TO FLOOR BOXES. DATA CABLING SHALL BE TERMINATED AT THE TELECOM OUTLETS ON CAT 6 KEYSTONE JACKS (COLOR WHITE). NO SPLICES WILL BE PERMITTED IN ANY TELECOM CABLING UNLESS EXPLICITLY SHOWN ON THE DRAWINGS. THE MAXIMUM CABLE LENGTH BETWEEN THE WORK AREA OUTLET AND THE TERMINATION IN THE TELECOM ROOM SHALL BE 295 FEET. NOTIFY THE ENGINEER OF HORIZONTAL CABLES LONGER THAN 295 FEET PRIOR TO INSTALLATION. PROVIDE SLACK IN CABLES AT ENTRANCES AND EXITS OF CONDUIT SLEEVES AND AT TRANSITIONS FROM HORIZONTAL TO VERTICAL CABLE LADDERS AND CABLE TRAYS. PROVIDE A MINIMUM 10'-0" MAINTENANCE LOOP IN THE TELECOM ROOMS FOR ALL HORIZONTAL CAT 6A CABLING. TELECOM CABLING SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL CABLES SHALL BE NEATLY BUNDLED AND DRESSED IN THE TELECOM ROOMS. LOOSELY BUNDLE HORIZONTAL CABLE WITH VELCRO TIE WRAPS AT 1'-0" CENTERS INSIDE THE TELECOM ROOMS. DO NOT EXCEED QTY (24) CABLES PER BUNDLE.
9.	TESTING AND CERTIFICATION : ALL DATA AND A/V CABLING SHALL BE TESTED AND CERTIFIED IN ACCORDANCE WITH THE DIVISION 27 SPECIFICATIONS. CERTIFIED TEST REPORTS SHALL BE SUBMITTED FOR APPROVAL AT THE COMPLETION OF THE PROJECT.
10.	SUPERVISION: ALL WORK SHALL BE SUPERVISED ON A DAILY BASIS BY A BICSI CERTIFIED SUPERVISOR HAVING A MINIMUM OF THREE (3) YEARS EXPERIENCE IN THE INSTALLATION OF STRUCTURED CABLING AND TELECOMMUNICATION SYSTEMS.
11.	AS-BUILT DRAWINGS : PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE ONE SET OF RECORD TELECOM DRAWINGS ON REPRODUCIBLE MEDIUM INDICATING THE FOLLOWING ADDITIONAL INFORMATION: ROUTING OF RACEWAY LARGER THAN 2", QTY AND LAYOUT OF ALL TELECOM OUTLETS, QUANTITY OF TELECOM DROPS AT EACH OUTLET, LOCATION OF ALL GROUNDING AND BONDING CONNECTIONS, CONTRACTORS NAME, ADDRESS AND PHONE NUMBER. RECORD NOTATIONS SHALL BE CLEARLY DRAWN WITH A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS.
12.	EXAMINATION OF SITE : BEFORE SUBMITTING A PROPOSAL, THE CONTRACTOR SHALL EXAMINE THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT THE WORK, ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL.
13.	GUARANTEE : THE CATEGORY 6 STRUCTURED CABLING SYSTEM INCLUDING HORIZONTAL CABLING, PATCH PANELS, PATCH CORDS AND TELECOM OUTLET JACKS SHALL CARRY A MINIMUM TWENTY (20) YEAR MANUFACTURER WARRANTY FROM BELDEN. THE COMPLETE TELECOM SYSTEM AND ALL PORTIONS THEREOF, SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR THEREOF AT NO EXPENSE TO THE OWNER. SEE THE DIVISION 27 SPECS FOR ADDITIONAL WARRANTY AND/OR EXTENDED WARRANTY REQUIREMENTS.
14.	SUBSTANTIAL COMPLETION : THE FOLLOWING ARE PREREQUISITES FOR SUBSTANTIAL COMPLETION OF THE TELECOM SYSTEM: ALL WORK COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, PUNCH LIST ITEMS COMPLETED AND SIGNED OFF, CERTIFIED CABLE TEST REPORTS SUBMITTED AND APPROVED, AS-BUILT DRAWINGS AND TERMINATION SCHEDULES SUBMITTED AND APPROVED, MFG'S WARRANTY AND CONTRACTOR'S GUARANTEE SUBMITTED, EXTRA STOCK ITEMS TURNED OVER TO THE OWNER.

RACEWAY LEGEND

SYMBOL	DESCRIPTION
———	CONDUIT. SIZE AS INDICATED ON DRAWINGS
— — —	CONDUIT UNDERGROUND OR IN SLAB
———|	CONDUIT STUB OUT WITH BUSHING.
|———|	HORIZONTAL OR VERTICAL SLEEVE WITH BUSHINGS.
———○	CONDUIT UP OR DOWN.
— J — J —	J-HOOKS (WHERE SPECIFIC ROUTING REQUIRED)
	CABLE TRAY OR LADDER RACK. SIZE INDICATED ON DWGS
	VERTICAL LADDER RACK.
○	CONDUIT OR SLEEVE STUB UP.

EQUIPMENT & CABLING LEGEND

SYMBOL	DESCRIPTION
	4-POST TELECOM RACK WITH VERTICAL CABLE MANAGERS.
	RACK OR EQUIPMENT GROUND.
PBB	PRIMARY BONDING BUSBAR (SEE1,2/T003).

TELECOM LEGEND

SYMBOL	DESCRIPTION
2D ▽	DATA OUTLET: 4 11/16" X 4 11/16" X 2 1/8" DEEP BOX +18" AFF (UON) WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE 4-PORT FACEPLATE WITH QTY (2) PLENUM RATED CAT 6 DATA DROP (JACKET COLOR BLUE) TERMINATED ON CAT 6 JACKS (JACK COLOR BLUE). SEE PLANS FOR QUANTITY OF DATA DROPS AT EACH OUTLET. SEE 1,2/T002 FOR ADDITIONAL REQUIREMENTS.
1D ▽ WAP	CEILING MOUNTED DATA OUTLET FOR WIRELESS ACCESS POINT: 4 11/16" X 4 11/16" X 2 1/8" DEEP BOX SECURED TO CEILING WITH SINGLE GANG RING AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE 1-PORT FACEPLATE WITH QTY (1) PLENUM RATED CAT 6 DATA DROP (JACKET COLOR BLUE) TERMINATED ON CAT 6 JACK. SEE 2/T002 SIMILAR.

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION
	FIXED SINGLE SENSOR CCTV CAMERA: INSTALL PLENUM CAT 6 CABLE FROM CAMERA TO TELECOM ROOM. TERMINATE CABLE AT CAMERA ON FIELD MOUNT PLUG OR FLEX PLUG. TERMINATE CABLE AT TELECOM ROOM IN 24-PORT PATCH PANEL MOUNTED IN LOCKABLE WALL MOUNTED CCTV CABINET (SEE 2/T007). SEE T007 FOR CAMERA SCHEDULE AND DETAILS.
	FIXED 4-SENSOR CCTV CAMERA: INSTALL PLENUM CAT 6 CABLE FROM CAMERA TO TELECOM ROOM. TERMINATE CABLE AT CAMERA ON FIELD MOUNT PLUG OR FLEX PLUG. TERMINATE CABLE AT TELECOM ROOM IN 24-PORT PATCH PANEL MOUNTED IN LOCKABLE WALL MOUNTED CCTV CABINET (SEE 2/T007). SEE T007 FOR CAMERA SCHEDULE AND DETAILS.
NVR	NETWORK VIDEO RECORDER VERTICAL WALL MOUNTED IN LOCKABLE CABINET (SEE 1,2/T007).

ACCESS CONTROL SYSTEM LEGEND

SYMBOL	DESCRIPTION
ACP	ACCESS CONTROL AND POWER SUPPLY CABINET WALL MOUNTED IN IT ROOM 128 WITH PLENUM CAT 6 DROPS. SEE 1/T005 FOR REQUIREMENTS.
CR	CARD READER.
ES	ELECT STRIKE (SEE ARCH DOOR HARDWARE SCHED).
EL	ELECTRIC LOCKSET (SEE ARCH DOOR HARDWARE SCHED).
RX	REQUEST TO EXIT MOTION DETECTOR.
C	MAGNETIC DOOR POSITION CONTACTS DOUBLE POLE DOUBLE THROW (SHARED WITH INTRUSION SYSTEM).
DE	DELAYED EGRESS PANIC BAR WITH ELECTRIC LATCH RETRACTION (SEE ARCH DOOR HARDWARE SCHED) .
ER	PANIC BAR WITH ELECTRIC LATCH RETRACTION (SEE ARCH DOOR HARDWARE SCHED).
PS	120VAC TO 24VDC POWER SUPPLY FOR ELECTRIFIED PANIC BAR (SEE ARCH DOOR HARDWARE SCHED).
PT	POWER TRANSFER HINGE (SEE ARCH DOOR HARDWARE SCHED).
AO	AUTOMATIC DOOR OPERATOR (SEE ARCH DOOR HARDWARE SCHED).
IC	IP BASED INTERCOM MULLION MOUNTED AT MAIN ENTRY DOORS. INSTALL PLENUM CAT 6 CABLE FROM INTERCOM TO IT ROOM 128.
MS	IP BASED INTERCOM MASTER STATION WITH DOOR RELEASE PUSH BUTTON. INSTALL PLENUM CAT 6 CABLE FROM INTERCOM MASTER STATION TO IT ROOM 128.

INTRUSION DETECTION LEGEND

SYMBOL	DESCRIPTION
IDCP	INTRUSION DETECTION CONTROL PANEL WITH PLENUM CAT 6 VOICE DROP. SEE 1/T006 FOR REQUIREMENTS.
KP	TOUCH SCREEN KEYPAD (COLOR WHITE).
C	MAGNETIC DOOR POSITION CONTACTS DOUBLE POLE DOUBLE THROW (SHARED WITH ACCESS CONTROL SYSTEM).
Ⓒ	MAGNETIC DOOR POSITION CONTACTS (NORMALLY OPEN) WITH ADDRESSABLE MODULE.
ⒸRU	ROLL-UP DOOR MAGNETIC POSITION CONTACTS WITH ADDRESSABLE MODULE.
ⒸRH	ROOF HATCH MAGNETIC POSITION CONTACTS WITH ADDRESSABLE MODULE.
MD	PIR MOTION DETECTION W/ADDRESSABLE MODULE AND WALL MOUNTING BRACKET.
MD	PIR MOTION DETECTION W/ADDRESSABLE MODULE AND CEILING MOUNTING BRACKET.
LA	LOCAL ALARM WALL MOUNTED (PIEZO SOUNDER). ALARM TO SOUND IF DOOR OPENED WHEN SYSTEM ARMED.
AO	AUTOMATIC DOOR OPERATOR. SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE.
PP	ADA AUTOMATIC DOOR OPERATOR PUSH PLATE. SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE.
DA	DURESS ALARM (WIRED) WITH ADDRESSABLE MODULE.
WT	WIRELESS 2-BUTTON TRANSMITTER (WIRELESS DURESS ALARM).
WR	4-ZONE WIRELESS RECEIVER. PROVIDE 12V POWER AND ADDRESSABLE MODULES AS REQUIRED TO MONITOR RECEIVER RELAY OUTPUTS.
CA	WIRELESS DISPLAY CASE ALARM TRANSMITTER.

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AV	AUDIO / VISUAL
AWG	AMERICAN WIRE GAUGE
CATV	CABLE TV
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
COAX	COAXIAL CABLE
DEMARC	DEMARCATION POINT
DIA	DIAMETER
FBO	FURNISHED BY OTHERS
(E)	EXISTING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
FBO	FURNISHED BY OTHERS
FPD	FLAT PANEL DISPLAY
GND	GROUND
HC	HORIZONTAL CROSS-CONNECT
IC	INTERMEDIATE CROSS-CONNECT
ID	INSIDE DIAMETER
IDC	INSULATION DISPLACEMENT CONNECTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
LAN	LOCAL AREA NETWORK
MC	MAIN CROSS-CONNECT
MDF	MAIN DISTRIBUTION FRAME
MM	MULTIMODE FIBER OPTIC CABLE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OSP	OUTSIDE PLANT
PBB	PRIMARY BONDING BUS BAR
PVC	POLYVINYLCHLORIDE
SBB	SECONDARY BONDING BUS BAR
SM	SINGLEMODE FIBER OPTIC CABLE
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TR	TELECOMMUNICATIONS ROOM
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
WAP	WIRELESS ACCESS POINT
WG	WIRE GUARD
WP	WALL PHONE

DRAWING SCHEDULE

SHEET	DESCRIPTION	
T001	Telecom General Notes, Legend and Drawings Schedule	●
T002	Telecom Details	●
T003	Telecom Oneline Diagrams	●
T004	Enlarged Telecom Room Details	●
T005	Door Access Control System Details	●
T006	Intrusion Detection System Details	●
T007	Video Surveillance Camera System Details	●
T008	Video Surveillance Camera Mounting Details	●
T201	Telecom Plan - Museum	●
T202	Telecom Plan - Collections	●
T211	Security Plan - Museum	●
T212	Security Plan - Collections	●
	TOTAL SHEETS IN ISSUE:	12

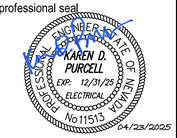
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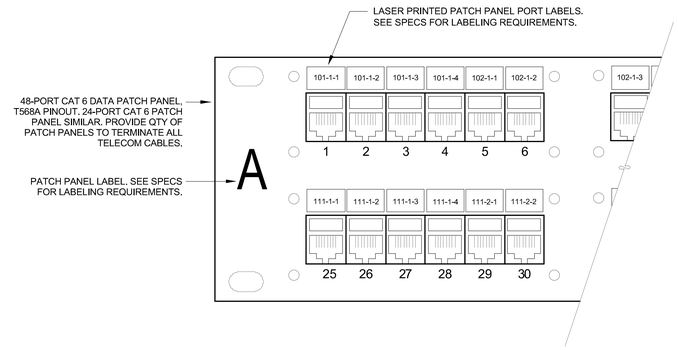
drawing name

Telecom General Notes, Legend and Drawings Schedule

sheet number

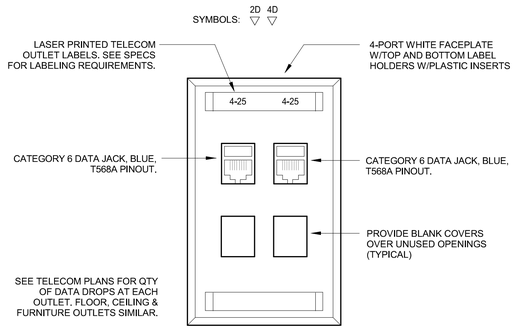
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Conformed Documents



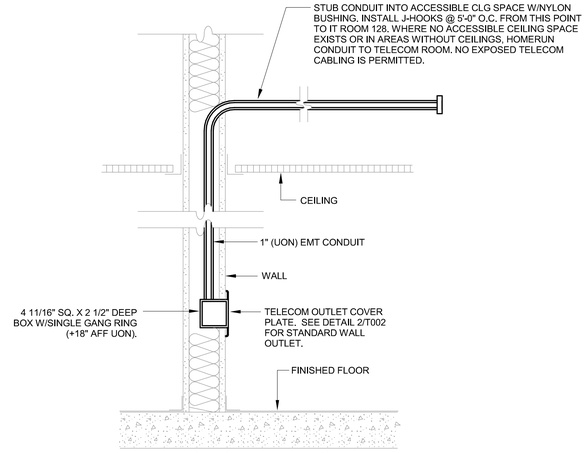
3 T002 48 PORT CAT 6 PATCH PANEL

SCALE: NONE



2 T002 TELECOM OUTLET

SCALE: NONE



1 T002 TELECOM OUTLET BOX ROUGHIN

SCALE: NONE

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PROFESSIONAL ENGINEER STATE OF NEVADA
KAREN D. PURCELL
EXP: 12/31/25
ELECTRICAL
No.11513
04/23/2025

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project

Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades
Nevada Historical Society Building
1650 North Virginia Street
Reno, Nevada 89503

revisions

No.	Description	Date

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

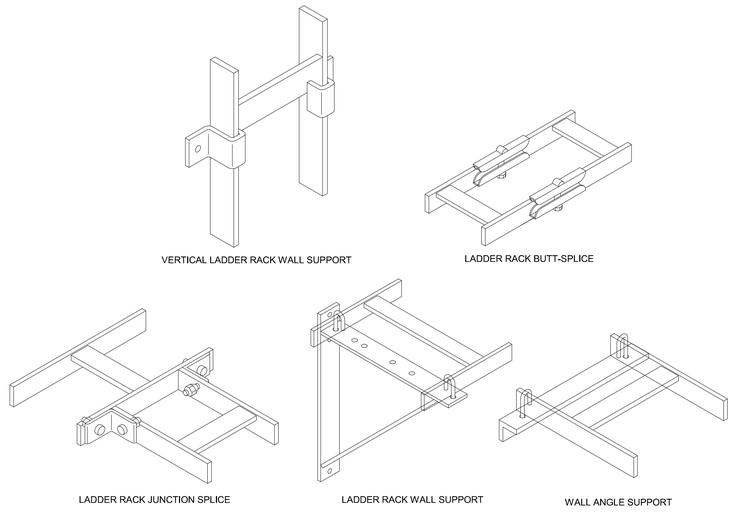
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Telecom Details

sheet number

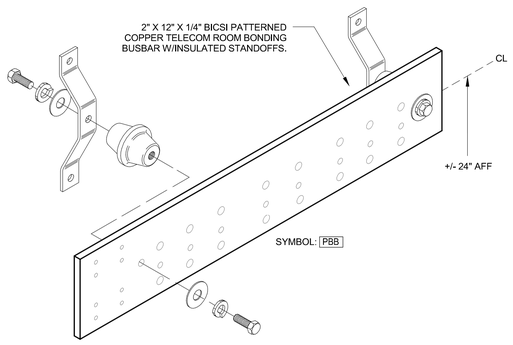
T002

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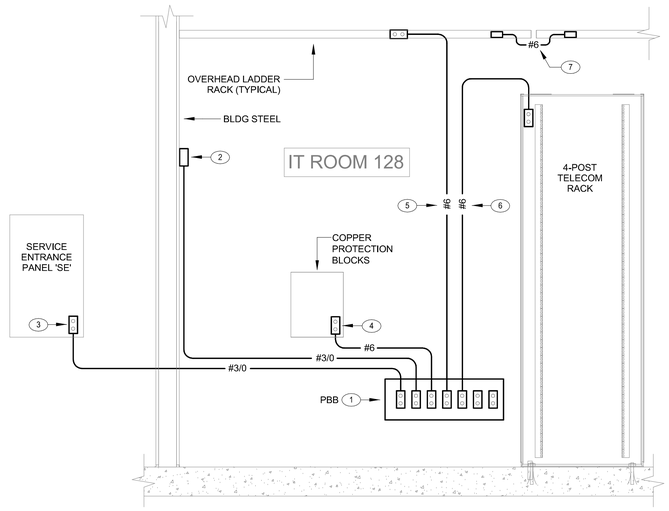
3 T003 TELECOM ROOM LADDER RACK DETAILS

SCALE: NONE



2 T003 TELECOM ROOM GROUNDING BAR

SCALE: NONE



1 T003 TELECOM ROOM GROUNDING DIAGRAM

SCALE: NONE

TELECOM GROUNDING GENERAL NOTES

1. ALL BONDING AND GROUNDING WORK TO COMPLY WITH THE REQUIREMENTS OF ANSI/TIA-607-D (COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS).
2. ATTACH GROUNDING CONDUCTORS TO TELECOM BUS BARS WITH 2 HOLE LONG BARREL COMPRESSION LUGS.

(###) TELECOM GROUNDING SHEET NOTES

1. UL LISTED BICSI PATTERNED COPPER TELECOM ROOM PRIMARY BONDING BUS BAR W/INSULATED STAND OFFS (SEE 2/T003).
2. #3/0 AWG GREEN INSULATED GROUND CONDUCTOR IN 3/4" CONDUIT. CAD WELD TO STRUCT STEEL.
3. #3/0 AWG IN 3/4" CONDUIT TO GROUND BAR IN SERVICE ENTRANCE PANEL 'SE' (SEE E402 FOR LOCATION). BOND CONDUIT TO GROUND AT BOTH ENDS.
4. #6 GREEN INSULATED GROUND CONDUCTOR TO BACKBONE COPPER PROTECTION BLOCKS (BUILDING ENTRANCE TERMINALS).
5. #6 GREEN INSULATED GROUND CONDUCTOR TO OVERHEAD LADDER RACK.
6. #6 GREEN INSULATED GROUND CONDUCTOR TO NETWORK EQUIPMENT RACK. INSTALL SEPARATE GROUND CONDUCTORS FOR EACH RACK (DO NOT DAISY CHAIN GROUND CONDUCTORS).
7. #6 GROUND STRAP TO BOND SECTIONS OF LADDER RACK TOGETHER.

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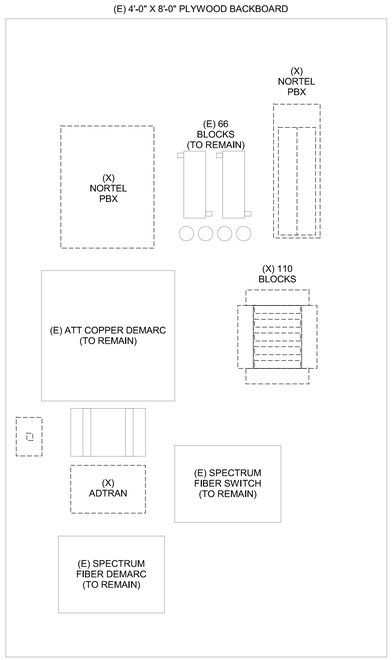
drawing name

Telecom Oneline Diagrams

sheet number

T003

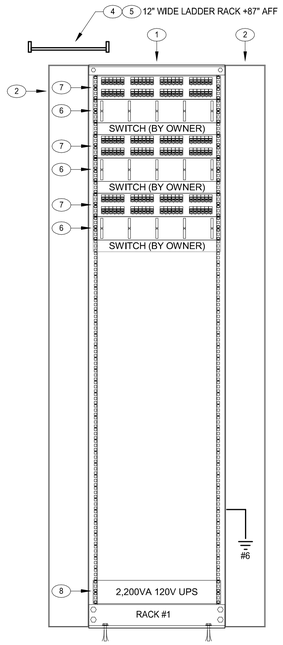
Conformed Documents



TELECOM TERMINAL BACKBOARD (TTB) ELEVATION - DEMOLITION

4 / T004

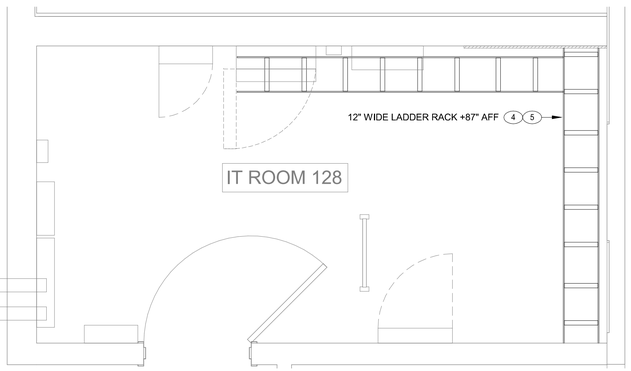
SCALE: NONE

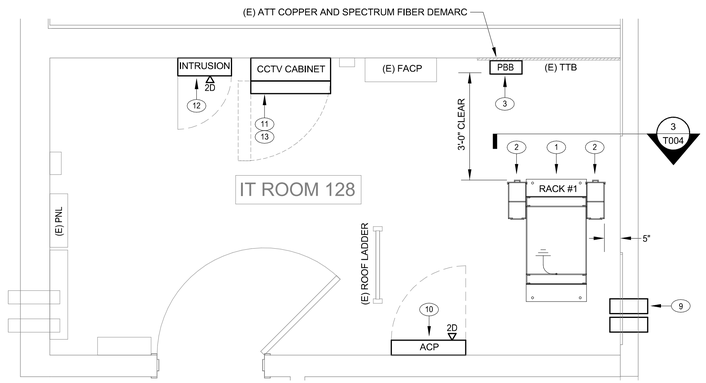


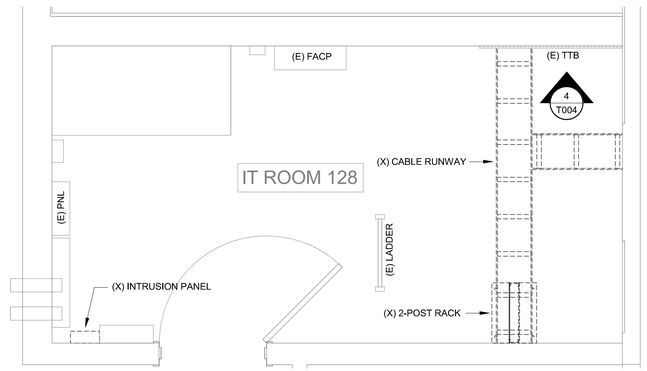
TELECOM RACK ELEVATION - NEW WORK

3 / T004

SCALE: NONE







ENLARGED IT ROOM 128 PLAN - NEW WORK

2 / T004

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

ENLARGED IT ROOM 128 PLAN - DEMO

1 / T004

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

TELECOM ROOM SHEET NOTES

1. UL LISTED 4-POST RACK WITH SQUARE PUNCHED EQUIPMENT MOUNTING ANGLES. BOLT RACKS TO CONCRETE WITH (4) 1/2" DIAMETER CONCRETE EXPANSION ANCHORS WITH MINIMUM 3" EMBEDMENT DEPTH. SECURE TOP OF RACKS TO OVERHEAD LADDER RACK WITH 3" HIGH CABLE RUNWAY ELEVATION KIT. INSTALL #6 GROUND WIRE FROM RACK TO GROUND BAR. PROVIDE MANUFACTURER RACK GROUNDING KIT TO ENABLE GROUND LUG ATTACHMENT TO RACK. PROVIDE BASE DUST COVER WITH EACH RACK. PROVIDE QTY (50) CAGE NUTS WITH EACH RACK TO ALLOW DEVICES WITH STANDARD MOUNTING HOLES TO MOUNT IN SQUARE PUNCHED RAILS.
2. 7'-0" HIGH X 6" WIDE VERTICAL CABLE MANAGER ON EACH SIDE OF RACK.
3. 1/4" X 2" X 12" BICSI PATTERNED COPPER TELECOM PRIMARY BONDING BUSBAR W/INSULATED STANDOFFS (SEE 1,2/T003).
4. 12" WIDE HORIZONTAL LADDER RACK AT 87" AFF (SEE 3/T003). SECURE LADDER RACK TO WALL WITH MFG'S TRIANGULAR SUPPORT BRACKETS AT 4'-0" O.C. WHERE PLYWOOD DOES NOT EXIST, INSTALL SUPPORT BRACKET FASTENERS INTO METAL STUD FRAMING, BOND ALL SECTIONS OF LADDER RACK TOGETHER WITH BONDING JUMPERS AND BOND TO GROUND BAR W/#6 CONDUCTOR. INSTALL BUTT SPLICES BETWEEN ENDS OF HORIZONTAL LADDER RACK. USE MFG'S CORNER CLAMPS AT PERPENDICULAR INTERSECTION OF LADDER RACK. COORDINATE ROUTING OF LADDER RACK WITH EXISTING CONDUITS AND SPRINKLER PIPING.
5. PROVIDE QTY (2) CABLE RUNWAY RADIUS DROPS ABOVE VERTICAL CABLE MANAGER TO MAINTAIN CABLE BEND RADIUS. COORDINATE LAYOUT OF OVERHEAD LADDER RACK CROSS MEMBERS SO THAT RADIUS DROPS ARE LOCATED DIRECTLY ABOVE VERTICAL CABLE MANAGERS.
6. 2RU CABLE MANAGER WITH HINGED DOORS.
7. 48-PORT CAT 6 PATCH PANEL. SEE 3/T002.
8. 2RU 2,200VA 120V UPS WITH IP MANAGEMENT MODULE.
9. 4" SLEEVES THROUGH WALL FOR ROUTING OF HORIZONTAL CAT 6 CABLING. INSTALL QTY OF SLEEVES TO ACCOMMODATE ALL CABLING. DO NOT EXCEED 40% FILL.
10. ACCESS CONTROL PANEL. PROVIDE QTY (2) CAT 6 DROPS TO PANEL.SEE 1/T005.
11. NETWORK VIDEO RECORDER (NVR) FOR CCTV SYSTEM. SEE 1/T007.
12. INTRUSION DETECTION SYSTEM PANEL. PROVIDE QTY (2) CAT 6 PHONE LINE DROPS TO PANEL FOR DIALERS. SEE 1/T006.
13. WALL MOUNTED CCTV CABINET (SEE 2/T007). TERMINATE ALL CAMERA CABLES IN THIS CABINET. INSTALL 10M FIBER PATCH CORD FROM CABINET TO 4-POST TELECOM RACK. SEE 1,2/T007.

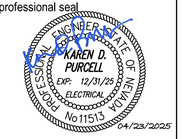
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drawing name

Enlarged Telecom Room Details

sheet number

T004

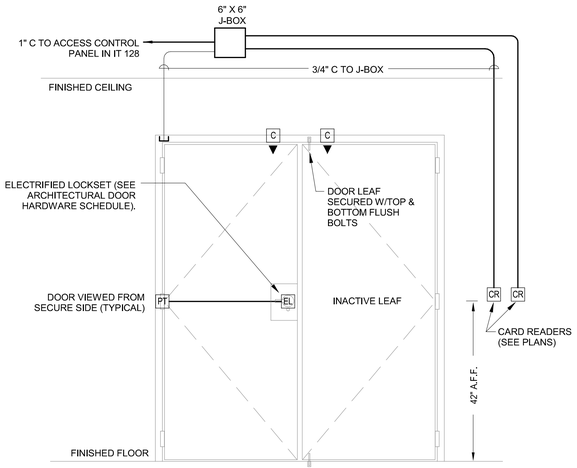
Conformed Documents

ACCESS CONTROL SYSTEM GENERAL NOTES

1. THE CONTRACTOR MUST BE A SOFTWARE HOUSE CERTIFIED PARTNER AND HAVE THE NECESSARY CERTIFICATIONS TO PURCHASE, INSTALL AND CONFIGURE THE SPECIFIED SOFTWARE HOUSE CCURE 9000 EQUIPMENT AND SOFTWARE.
2. THE CONTRACTOR MUST MAINTAIN A 24/7 CALL CENTER AND SHALL RESPOND WITHIN FOUR (4) BUSINESS HOURS OF RECEIPT OF A SERVICE CALL. CONTRACTOR SHALL PROVIDE ON-SITE RESPONSE TIME OF ONE (1) BUSINESS DAY FOR REPAIR OF CRITICAL SYSTEM ITEMS DURING NORMAL BUSINESS HOURS. SEE SPECIFICATIONS FOR ADDITIONAL CONTRACTOR QUALIFICATIONS.
3. SEE TELECOM FLOOR PLANS FOR ACCESS CONTROL DEVICES AT EACH DOOR.
4. NOT ALL DEVICES AND CABLING ARE SHOWN IN THE SINGLE LINE DIAGRAM. SUBMIT SHOP DRAWINGS FOR APPROVAL INCLUDING POINT-TO-POINT WIRING AND PANEL BLOCK DIAGRAMS SHOWING ALL DEVICES AND REQUIRED CABLING.
5. SUBMIT SHOP DRAWINGS FOR APPROVAL SHOWING THE LAYOUT OF THE EQUIPMENT MOUNTED IN THE ACCESS CONTROL ENCLOSURE(S) INCLUDING GATEWAYS, INTELLIGENT CONTROLLERS, CARD READER BOARDS, I/O BOARDS, ADD-IN BOARDS, POWER SUPPLIES, BATTERY CHARGERS, FUSES, RELAYS, BATTERIES, NETWORK OUTLETS, ELECTRICAL OUTLETS, CABLE MANAGEMENT WIREWAYS, FANS, ETC.
6. SUBMIT MANUFACTURER PRODUCT DATA SHEETS FOR APPROVAL OF ALL ACCESS CONTROL EQUIPMENT INCLUDING BUT NOT LIMITED TO EQUIPMENT ENCLOSURES, CONTROLLERS, ADD-IN BOARDS, RELAYS, POWER SUPPLIES, BATTERIES, CABLING, REQUEST TO EXITS, DOOR CONTACTS, CARD READERS, ELECTRIC STRIKES, ELECTRIC LOCKS, LOCAL ALARMS, PUSH BUTTONS, WIRELESS RECEIVERS, ETC.
7. SUBMIT BATTERY CALCULATIONS FOR APPROVAL. BATTERIES SHALL BACKUP THE ENTIRE SYSTEM FOR A MINIMUM OF 4 HOURS.
8. ALL ACCESS CONTROL CABLING IS TO BE ROUTED IN CONDUIT FROM THE DOORS TO THE ACCESS CONTROL PANEL LOCATED IN THE TELECOM ROOM.
9. WHERE CABLING IS ROUTED IN UNDERGROUND CONDUIT, PROVIDE OUTDOOR RATED CABLE SUITABLE FOR WET UNDERGROUND DUCT INSTALLATION.

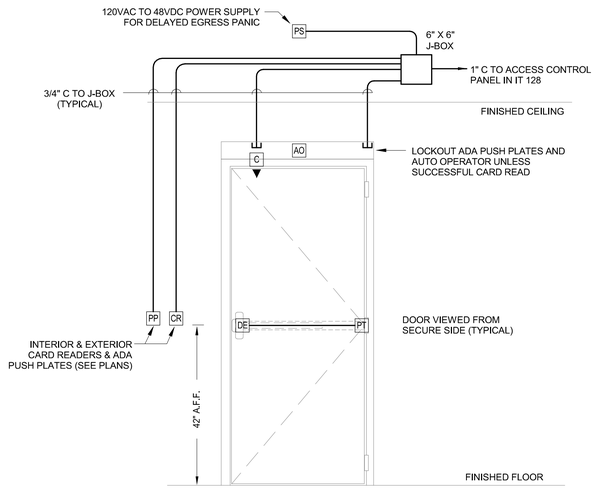
(###) ACCESS CONTROL SYSTEM SHEET NOTES

1. DOOR ACCESS CONTROL PANEL INCLUDING CONTROLLERS, CARD READER BOARDS AND I/O MODULES MOUNTED IN LOCKABLE ENCLOSURE WITH TAMPER SWITCH (SOFTWARE HOUSE P/N PSX-WPSE16E16EBSN, GSTAR-GCM & GSTAR-ACM), PROVIDE QUANTITY OF 8-DOOR ACM BOARDS TO ACCOMMODATE ALL DOORS PLUS 20% SPARE CAPACITY. PROVIDE NETWORK CONNECTION TO GCM VIA CAT 6 DATA DROP.
2. COMPOSITE PLENUM RATED ACCESS CONTROL CABLE (WINDY CITY WIRE P/N 446100-ODSP-WCS500).
3. ACCESS CONTROL SYSTEM HEAD-END SERVER, SOFTWARE AND LICENSING (BY OWNER).
4. PROXIMITY / CONTACTLESS SMART CARD READER. PROVIDE NARROW MULLION MOUNT READERS WHERE MOUNTED ON STORE FRONT.
5. DOUBLE POLE DOUBLE THROW MAGNETIC DOOR POSITION CONTACTS. NOTE - DOOR CONTACTS ON PERIMETER DOORS WITH ACCESS CONTROL SHALL BE CABLED TO BOTH THE ACCESS CONTROL SYSTEM AND THE INTRUSION DETECTION SYSTEM.
6. REQUEST-TO-EXIT (REX) MOTION DETECTOR.
7. ELECTRIC STRIKE (SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE).



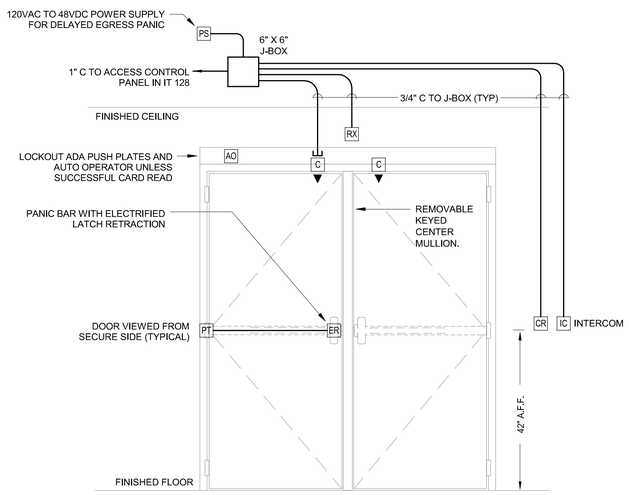
5 T005 DOUBLE DOOR CARD READER IN & OUT W/ELECTRIC LOCKSET

SCALE: N.T.S.



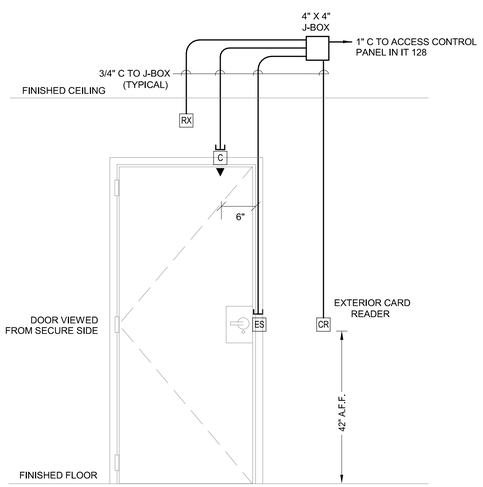
4 T005 SINGLE DOOR CARD READER IN/OUT WITH DELAYED EGRESS PANIC BAR

SCALE: N.T.S.



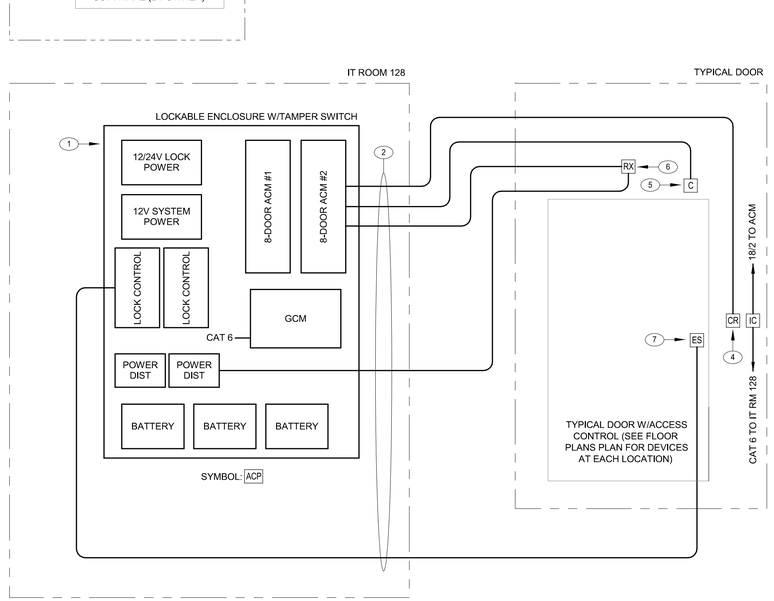
3 T005 DOUBLE DOOR CARD READER IN W/ELECTRIC LATCH RETRACTION

SCALE: N.T.S.



2 T005 SINGLE DOOR CARD READER IN W/ELECTRIC STRIKE

SCALE: N.T.S.



1 T005 ACCESS CONTROL SYSTEM ONELINE DIAGRAM

SCALE: NONE

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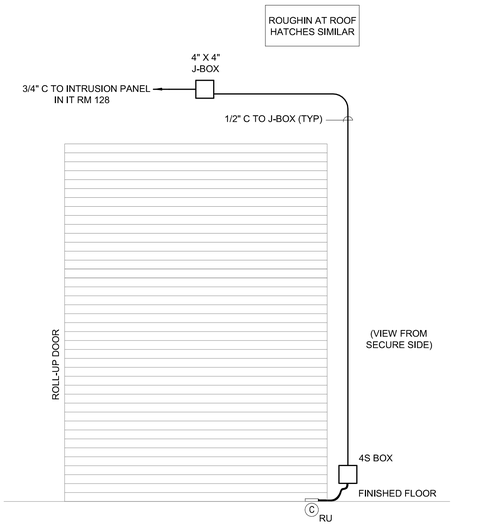
drawing name

Door Access Control System Details

sheet number

T005

Conformed Documents



4 T006

ROLL-UP DOOR CONTACTS

SCALE: N.T.S.

INTRUSION DETECTION SYSTEM GENERAL NOTES

1. FURNISH AND INSTALL A COMPLETE AND OPERATIONAL INTRUSION DETECTION SYSTEM. FURNISH AND INSTALL ALL ANCILLARY DEVICES, EQUIPMENT AND CABLING FOR A COMPLETE SYSTEM. INSTALL ALL WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

   A. ANSI/NFPA-70
   B. UL 1076 (BURGLAR ALARM AND SYSTEMS)
   C. AMERICAN WITH DISABILITIES ACT (ADA).

2. AT A MINIMUM, THE SYSTEM SHALL CONSIST OF THE FOLLOWING COMPONENTS (SEE DRAWINGS FOR FIELD DEVICE LOCATIONS):

   A. MAGNETIC DOOR POSITION CONTACTS WITH ADDRESSABLE MODULE AT ALL EXTERIOR DOORS.
   B. PIR MOTION DETECTORS WITH ADDRESSABLE MODULE AT ALL PERIMETER ENTRY DOORS AND SPECIFIC INTERIOR LOCATIONS AS SHOWN ON DRAWINGS.
   C. KEYPADS FOR ARMING AND DISARMING THE SYSTEM AT MAIN ENTRANCE DOORS AS SHOWN ON THE DRAWINGS.
   D. ZONED INTRUSION DETECTION PANEL WITH CAPACITY FOR ALL DEVICES SHOWN ON THE DRAWINGS PLUS 25% FUTURE EXPANSION. PROVIDE ZONE EXPANDERS, RELAY OUTPUTS, ETC. AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
   E. AUTO DIALER CONNECTED TO PHONE LINE FOR CENTRAL STATION MONITORING.
   F. POWER SUPPLIES TO POWER THE PANEL AND ALL DEVICES.
   G. BATTERIES AND BATTERY CHARGERS. SUBMIT BATTERY CALCULATIONS FOR APPROVAL. BATTERIES SHALL BACKUP THE ENTIRE SYSTEM FOR A MINIMUM OF 4 HOURS.

3. ALL SECURITY DEVICES INCLUDING DOOR POSITION CONTACTS AND MOTION SENSORS SHALL BE PROVIDED WITH ADDRESSABLE MODULES. WHEN A DEVICE IS IN ALARM THE SYSTEM SHALL IDENTIFY AND REPORT THE LOCATION OF THE DEVICE.

4. ALL INTRUSION DETECTION CABLING TO BE ROUTED IN CONDUIT FROM THE DEVICE TO THE PANEL LOCATED IN THE TELECOM ROOM. NO EXPOSED CABLING IS PERMITTED.

5. NOT ALL DEVICES AND CABLING ARE SHOWN ON THE ONELINE DIAGRAM. SUBMIT SHOP DRAWINGS FOR APPROVAL INCLUDING POINT-TO-POINT WIRING AND PANEL BLOCK DIAGRAMS SHOWING ALL DEVICES AND REQUIRED CABLING.

6. SUBMIT CUT SHEETS FOR APPROVAL OF ALL SECURITY DEVICES, PANELS, EXPANSION MODULES, AUTO DIALER, POWER SUPPLIES, BATTERIES, BATTERY CHARGERS, CABLING, DOOR POSITION CONTACTS, MOTION DETECTORS, KEYPADS, ETC.

7. AT THE COMPLETION OF THE PROJECT, TEST AND COMMISSION THE ENTIRE SYSTEM. PROGRAM THE SYSTEM IN ACCORDANCE WITH OWNER REQUIREMENTS.

8. COORDINATE DIAL-OUT AND CENTRAL STATION MONITORING WITH THE OWNER.

9. PROGRAM ZONES, SCHEDULES AND ACCESS CODES AS DIRECTED BY THE OWNER.

10. PROVIDE 1-HOUR TRAINING TO THE OWNER AT THE COMPLETION OF THE PROJECT. PROVIDE O&M MANUALS IN PDF FORMAT.

11. THE ENTIRE INTRUSION DETECTION SYSTEM SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR 1-YEAR FROM THE DATE OF FINAL ACCEPTANCE. CONTRACTOR WILL PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR AT NO EXPENSE TO THE OWNER.

INTRUSION DETECTION SYSTEM CONTRACTOR QUALIFICATIONS

1. CONTRACTOR INSTALLING THE INTRUSION DETECTION SYSTEM SHALL BE A FIRM NORMALLY ENGAGED IN THE INSTALLATION, MAINTENANCE AND SUPPORT OF INTRUSION DETECTION AND/OR DOOR ACCESS CONTROL SYSTEMS. THE CONTRACTOR MUST HAVE A MINIMUM OF 5-YEARS EXPERIENCE INSTALLING SECURITY SYSTEMS OF SIMILAR SIZE AND SCOPE.

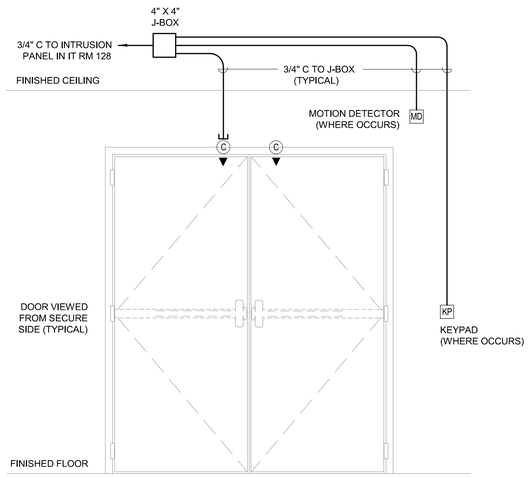
2. CONTRACTOR INSTALLING THE SYSTEM MUST BE A BOSCH OR HONEYWELL ADEMCO (RESIDEO) AUTHORIZED INTRUSION ALARM SYSTEM INSTALLER.

3. CONTRACTOR MUST BE LICENSED BY THE NEVADA STATE CONTRACTORS BOARD.

4. THE CONTRACTOR SHALL HAVE SERVICE FACILITIES NEAR THE PROJECT SITE AND SHALL RESPOND TO SERVICE CALLS WITHIN A FOUR (4) HOUR PERIOD AFTER RECEIPT OF A SERVICE CALL. THIS INCLUDES WEEKENDS AND HOLIDAYS. AT THE TIME OF SERVICE, THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL AND PERSONNEL NECESSARY TO PERFORM ALL REPAIRS.

(###) INTRUSTION DETECTION ONELINE SHEET NOTES

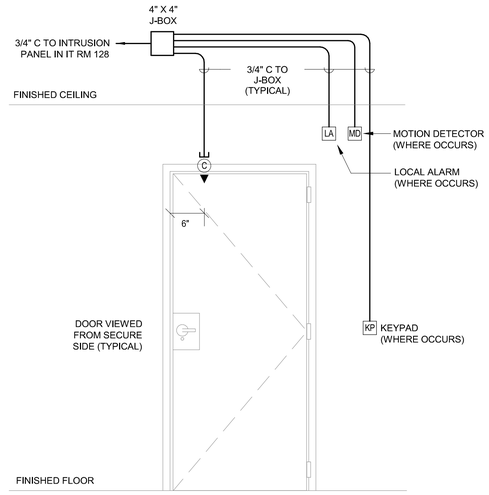
1. INTRUSION DETECTION CONTROL PANEL (BOSCH P/N B9512G).
2. PSTN DIALER CARD (BOSCH B430).
3. LOCKABLE ENCLOSURE WITH TAMPER SWITCH (BOSCH P/N'S B8103, D101, D110).
4. PLUG-IN TRANSFORMER (BOSCH P/N D1640).
5. POWER SUPPLY (BOSCH B520).
6. 12VDC 18AH BATTERY (BOSCH P/N D1218).
7. POPEX EXPANSION MODULE (BOSCH P/N B299). PROVIDE QTY OF MODULES TO ACCOMMODATE ALL FIELD DEVICES AND ZONES.
8. POPIT MODULE (BOSCH P/N D9127U). OCTO-INPUT MODULE MAY BE USED TO CONNECT UP TO 8 DEVICES (BOSCH P/N B208). PROVIDE QTY OF MODULES TO ACCOMMODATE ALL FIELD DEVICES.
9. TOUCH SCREEN KEYPAD (BOSCH P/N B942W).
10. PIR MOTION DETECTOR WITH ANTI-MASK PROTECTION AND WALL/CEILING MOUNTING BRACKET (BOSCH P/N'S ISC-PPR1-WA16G, B328/B338).
11. DOOR CONTACTS. FOR PERIMETER DOORS WITH ACCESS CONTROL, PROVIDE DOUBLE POLE DOUBLE THROW CONTACTS (GRI 199-12WG OR EQUAL). FOR PERIMETER DOORS WITHOUT ACCESS CONTROL, PROVIDE NORMALLY OPEN CONTACTS (GRI 184-12WG OR EQUAL).
12. 2-CONDUCTOR 18 AWG PLENUM RATED SECURITY CABLE (BELDEN 6300UE OR EQUAL).
13. 4-CONDUCTOR 18 AWG PLENUM RATED SECURITY CABLE (BELDEN 6302UE OR EQUAL).
14. ADDITIONAL 8-INPUT PROGRAMMABLE AUTO-DIALER (VIKING K-2000-DVA) WITH CAT 6 VOICE DROP.



3 T006

CONDUIT ROUGHIN: DOUBLE DOOR WITH CONTACTS

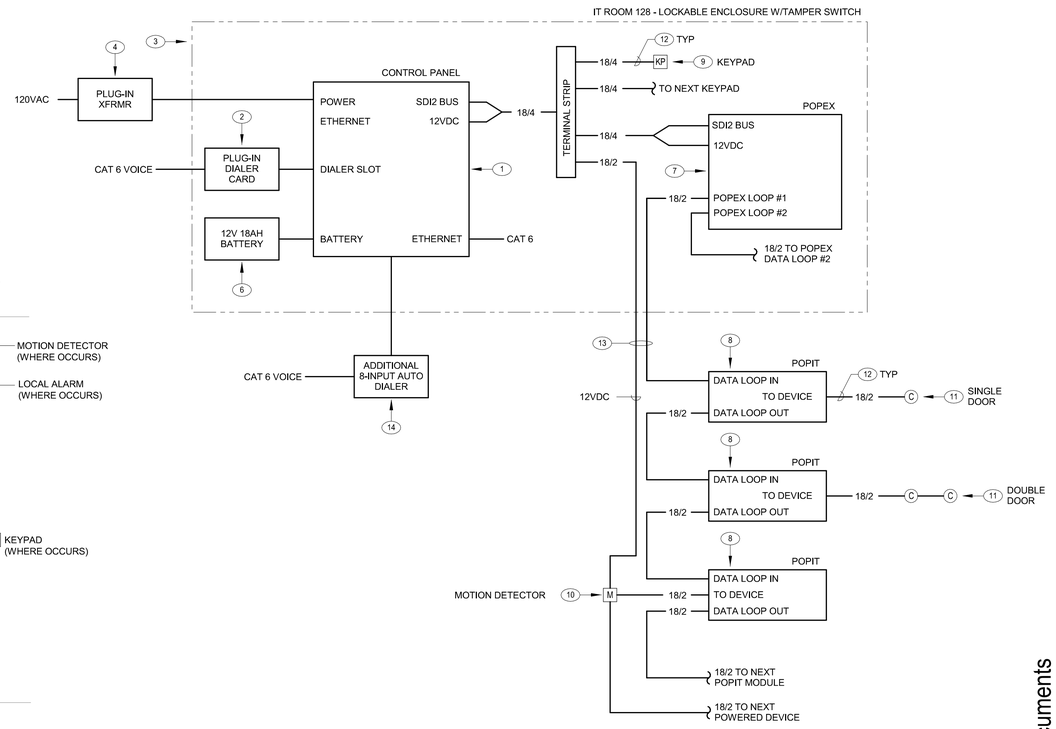
SCALE: N.T.S.



2 T006

CONDUIT ROUGHIN: SINGLE DOOR WITH CONTACTS

SCALE: N.T.S.



1 T006

INTRUSION DETECTION SYSTEM ONELINE DIAGRAM

SCALE: NONE

Conformed Documents

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Nevada Historical Society Improvements (UNR Location)
SPWD #23-M10: Upgrade Security, Life Safety, and Electrical
SPWD #23-M16: Building Seismic Retrofit & Envelope Maint.
SPWD #23-S02-(2): ADA Upgrades

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revisions

No.	Description	Date

drawn by	SV
reviewed by	JEG
date	04.23.25
project number	23035

drawing name

Intrusion Detection System Details

sheet number

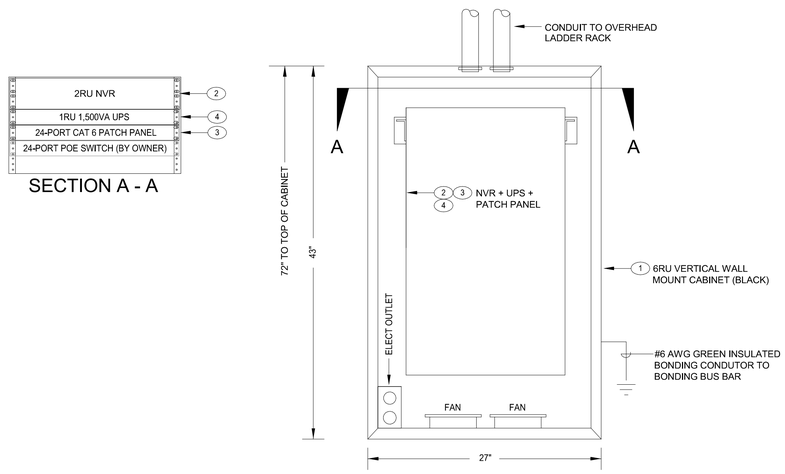
T006

VIDEO SURVEILLANCE CAMERA SCHEDULE

CAM NO.	TERMINATING TELECOM ROOM	CAMERA TYPE	MFG	MODEL LINE	CAMERA PART NUMBER	INTERIOR / EXTERIOR	MOUNTING LOCATION	MOUNT TYPE	MOUNTING SURFACE	CAMERA MOUNT PART NUMBER(S)	CAMERA LICENSE	MOUNT DETAIL	POE INJECTOR	NOTES
1	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
2	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
3	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
4	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
5	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
6	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
7	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
8	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	EXTERIOR	WALL	SURFACE	STUCCO	-	ADVEC01	1/T0.08	-	-
9	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
10	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
11	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
12	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
13	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
14	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
15	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
16	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
17	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
18	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
19	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-D13-OI04	EXTERIOR	GOOSENECK	WALL	STUCCO	ADCI6DPCAPOW + ADLOMARM	ADVEC01	3/T0.08	-	-
20	IT ROOM 128	4 X 8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS32-M13-OIA4	EXTERIOR	GOOSENECK	CORNER	STUCCO	RHOWCA + RHOSW + IBPN-M-IS12-A	ADVEC01	5,6/T0.08	IA-POE-90-U00	-
21	IT ROOM 128	4 X 8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS32-M13-OIA4	EXTERIOR	GOOSENECK	CORNER	STUCCO	RHOWCA + RHOSW + IBPN-M-IS12-A	ADVEC01	5,6/T0.08	IA-POE-90-U00	-
22	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
23	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	CEILING	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
24	IT ROOM 128	8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS08-C10-OIA4	INTERIOR	WALL	SURFACE	GYPBOARD	-	ADVEC01	1/T0.08	-	-
25	IT ROOM 128	4 X 8MP DOME	JOHNSON CONTROLS	ILLUSTRA	IPS32-M13-OIA4	EXTERIOR	GOOSENECK	CORNER	STUCCO	RHOWCA + RHOSW + IBPN-M-IS12-A	ADVEC01	5,6/T0.08	IA-POE-90-U00	-

3 / T007 CCTV CAMERA SCHEDULE

SCALE: NONE

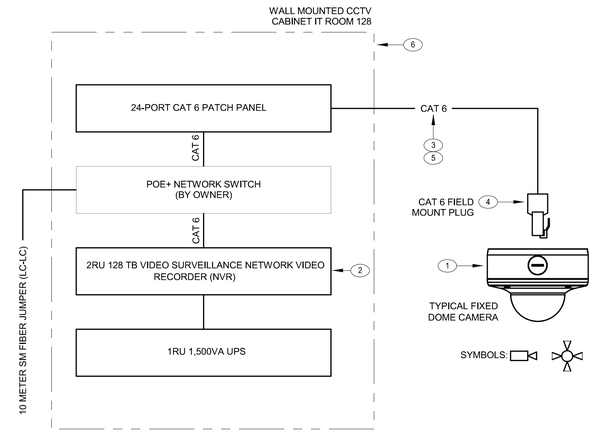


2 / T007 LOCKABLE WALL MOUNTED CCTV CABINET

SCALE: NONE

(###) CCTV NVR/SWITCH EQUIPMENT CABINET DETAILS

1. 6RU LOCKABLE VERTICAL EQUIPMENT MOUNT WALL CABINET WITH DUAL FAN KIT (TRIPP-LITE P/N SRWF6U36 OR APPROVED EQUAL) AND DUAL FAN KIT (TRIPP-LITE P/N SRFANWM OR APPROVED EQUAL).
2. 2RU VETWORK VIDEO RECORDER (NVR). SEE 1/T007.
3. 1RU 24-PORT CAT 6 PATCH PANEL (FOR CAMERA CABLE TERMINATIONS).
4. 1,500VA 1RU UPS (APC P/N SMT1500RM1UC OR APPROVED EQUAL).
5. NETWORK SWITCH (BY OWNER). PROVIDE 7 METER SINGLEMODE FIBER JUMPER CABLE (DUPLEX LC-LC) TO UPLINK SWITCH TO CORE SWITCH IN 4-POST RACK.



1 / T007 IP VIDEO SURVEILLANCE CAMERA ONELINE DIAGRAM

SCALE: NONE

(###) IP VIDEO SURVEILLANCE CAMERA ONELINE SHEET NOTES

1. FURNISH AND INSTALL VANDAL RESISTANT IP VIDEO SURVEILLANCE CAMERAS. SEE CAMERA SCHEDULE FOR CAMERA AND MOUNT REQUIREMENTS.
2. NETWORK VIDEO RECORDER RACK VERTICAL MOUNTED IN LOCKABLE WALL CABINET IN IT ROOM. CONFIGURE CAMERAS TO RECORD TO NVR PER OWNER REQUIREMENTS. SEE SPECS FOR NVR AND CABINET REQUIREMENTS.
3. FURNISH, INSTALL AND TERMINATE QTY (1) PLENUM RATED CAT 6 CABLE (CABLE JACKET COLOR BLACK) FROM EACH IP SURVEILLANCE CAMERA TO THE IT ROOM CCTV CABINET 24-PORT PATCH PANEL.
4. TERMINATE CAT 6 CABLES AT CAMERA ON CAT 6 FIELD MOUNT PLUGS OR FLEX PLUGS.
5. NO EXPOSED CAT 6 CABLING IS PERMITTED WITH THE EXCEPTION OF CABLING ROUTED WITHIN THE TELECOM ROOM. ALL CABLING TO BE ROUTED CONCEALED IN ACCESSIBLE CEILING SPACES ON J-HOOKS OR ROUTED IN CONDUIT.
6. LOCKABLE WALL MOUNTED CABINET IN IT ROOM SEE 2/T007.

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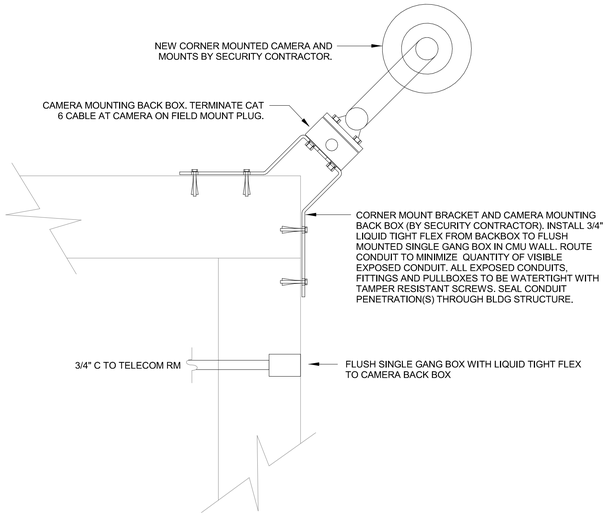
drawing name

Video Surveillance Camera System Details

sheet number

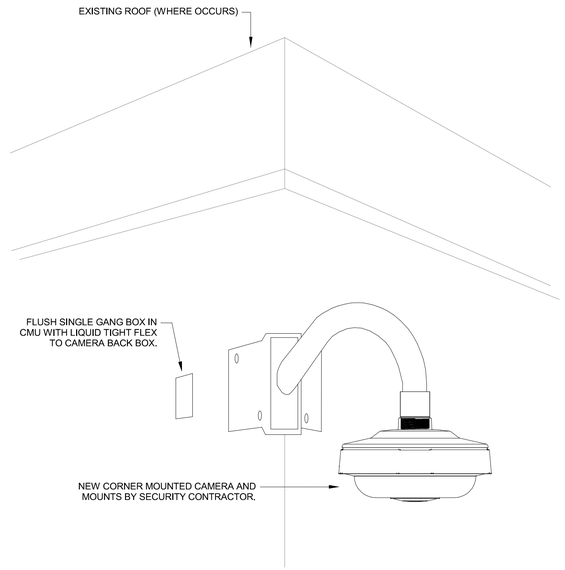
T007

Conformed Documents



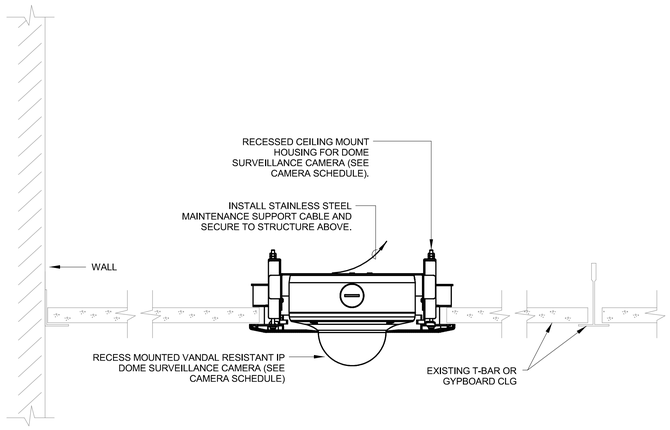
4 T008 CORNER MTD CAMERA (PLAN)

SCALE: NONE



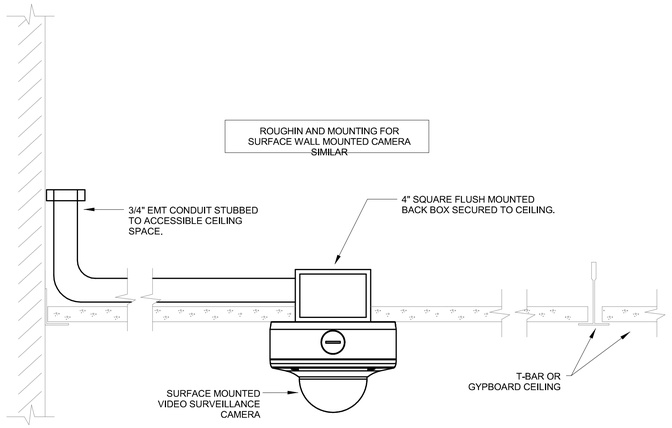
3 T008 CORNER MTD CAMERA (ELEV)

SCALE: NONE



2 T008 RECESSED CEILING MOUNTED CAMERA

SCALE: NONE



1 T008 SURFACE MOUNTED VIDEO SURVEILLANCE CAMERA

SCALE: NONE

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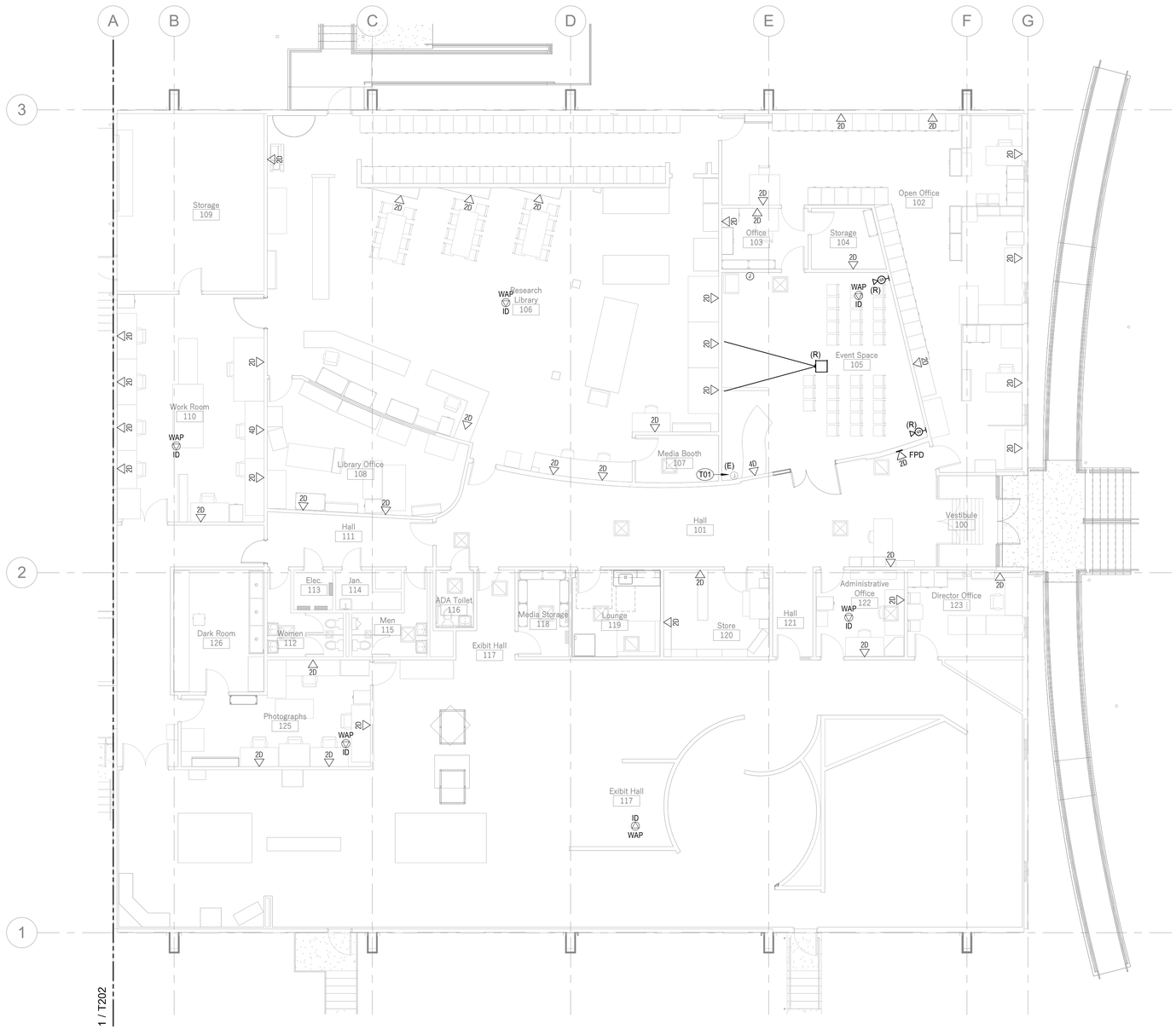
drawing name

Video Surveillance Camera Mounting Details

sheet number

T008

Conformed Documents



1 T201 TELECOM PLAN - MUSEUM

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.

(###) SHEET NOTES

T01 EXISTING J-BOX WITH MICROPHONE, SPEAKER, USB AND CAT 6 CABLES. J-BOX AND CABLES TO REMAIN.

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Telecom Plan - Museum

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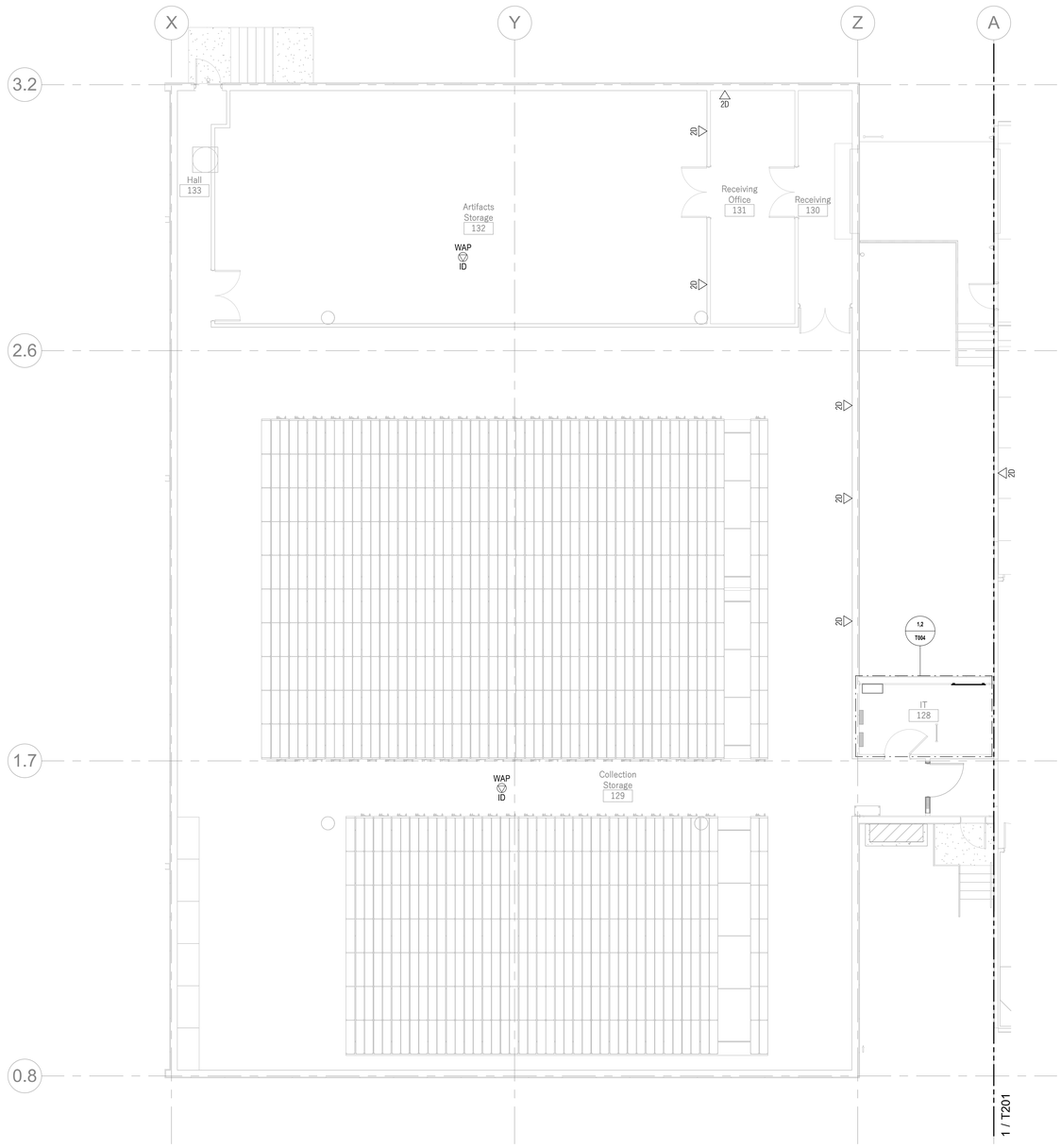
T201

Conformed Documents

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(###) SHEET NOTES



1 / T202 TELECOM PLAN - COLLECTIONS

Scale: 1/8" = 1'-0"

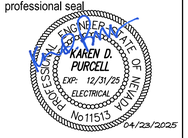
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Telecom Plan - Collections

sheet number

T202

Conformed Documents

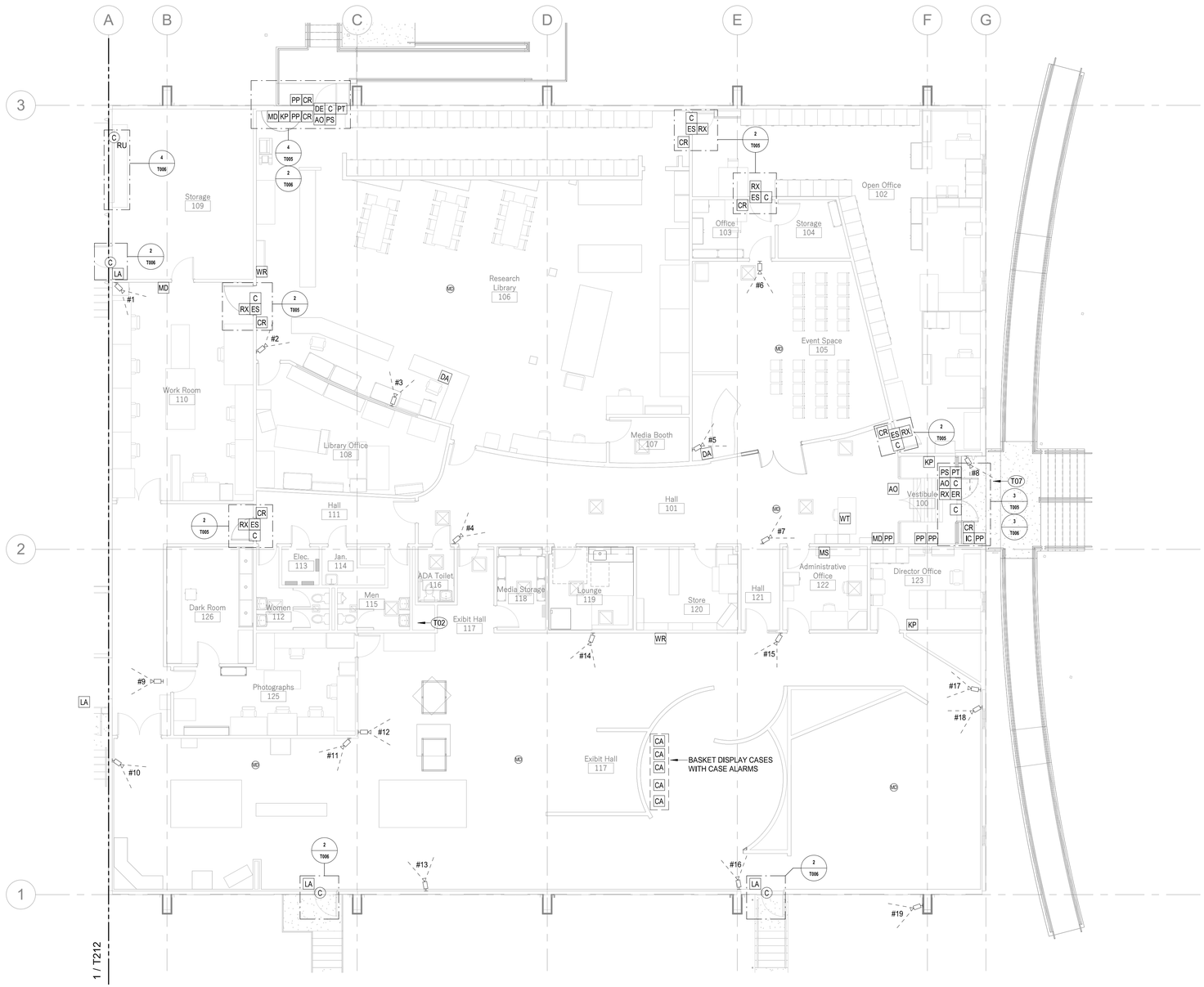
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(###) SHEET NOTES

T02 INTRUSION DETECTION SYSTEM KEYPAD TO ANNUNCIATE DURESS AND DISPLAY CASE ALARMS.

T07 INTERFACE ADA PUSH PLATE DOOR OPERATORS WITH ACCESS CONTROL SYSTEM. PUSH PLATES TO BE LOCKED OUT BASED ON SCHEDULE PROVIDED BY OWNER. PUSH PLATES TO BE ENABLED AFTER SUCESSFUL CARD READ OR RELAY FROM DOOR VIDEO INTERCOM SYSTEM. PROVIDE DELAY TIMER TO RETRACT PANIC BAR LATCH PRIOR TO ACTIVATION OF AUTOMATIC DOOR OPERATOR.



1 / T211 SECURITY PLAN - MUSEUM

Scale: 1/8" = 1'-0"

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Security Plan - Museum

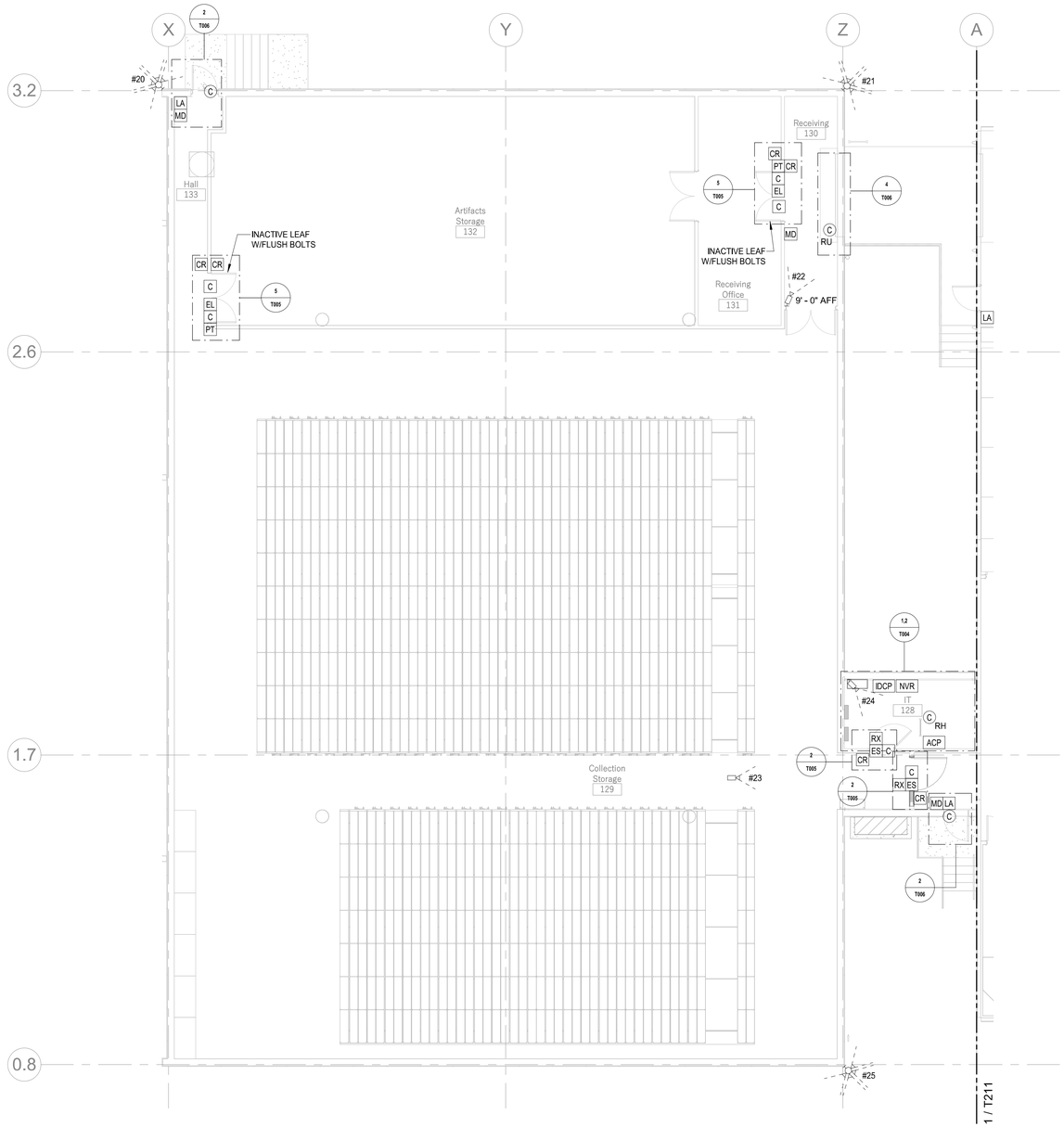
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T211

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1 T212 SECURITY PLAN - LIBRARY AND ARCHIVES

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Security Plan - Collections

sheet number

T212

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