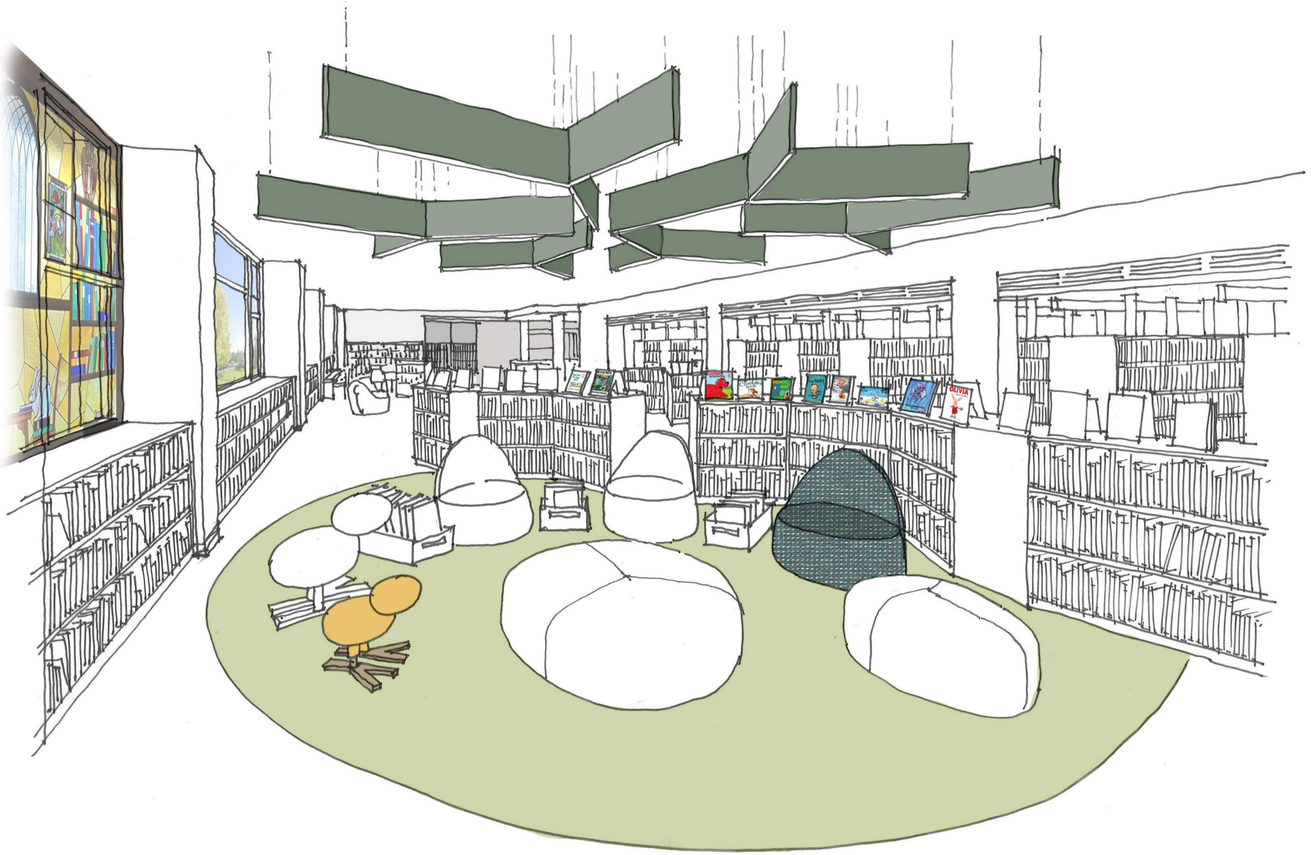
BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2



BID SET

SEPTEMBER 16TH, 2026

The Miller Hull Partnership, LLP
POLSON BUILDING 71 COLUMBIA - SIXTH FLOOR SEATTLE, WA 98104

PROJECT DIRECTORY

OWNER
BELLINGHAM CENTRAL LIBRARY
210 CENTRAL AVENUE
BELLINGHAM, WA 98225
TEL: (360) 778 7220
EMAIL: JMVANDERPLOEG@COB.ORG
CONTACT: JENNIFER VANDERPLOEG

OWNER
CITY OF BELLINGHAM
210 LOTTIE STREET
BELLINGHAM, WA 98225
TEL: (360) 778 7810
EMAIL: CJSAVAGE@COB.ORG
CONTACT: CALEB SAVAGE

ARCHITECTURE
MILLER HULL PARTNERSHIP
71 COLUMBIA ST., 6TH FLOOR
SEATTLE, WA 98104
TEL: (206) 254-2054
EMAIL: ENOTHDURFT@MILLERHULL.COM
CONTACT: ERIC NOTHDURFT

STRUCTURAL ENGINEER
PCS STRUCTURAL
1011 WESTERN AVENUE, SUITE 810
SEATTLE, WA 98104
TEL: (206) 292-5076
EMAIL: CJESERITZ@PCS-STRUCTURAL.COM
CONTACT: CHRIS JESERITZ

MECHANICAL ENGINEER
PAE ENGINEERS
1011 WESTERN
AVE. SUITE 500
SEATTLE, WA 98104
TEL: (206) 596-8606
EMAIL: MOHAMMED.HAQ@PAE-ENGINEERS.COM
CONTACT: MOHAMMED HAQ

ELECTRICAL ENGINEER
PAE ENGINEERS
1011 WESTERN, SUITE 500
SEATTLE, WA 98104
TEL: (206) 596-8606
EMAIL: OANA.STEPHENS@PAE-ENGINEERS.COM
CONTACT: OANA STEPHENS

PLUMBING ENGINEER
PAE ENGINEERS
1011 WESTERN, SUITE 500
SEATTLE, WA 98104
TEL: (206) 596-8606
EMAIL: ROB.WESTPHAL@PAE-ENGINEERS.COM
CONTACT: ROB WESTPHAL

LIGHTING DESIGNER
LUMA LIGHTING DESIGN
1011 WESTERN, SUITE 500
SEATTLE, WA 98104
TEL: (206) 596-8606
EMAIL: TIMH@LUMALD.COM
CONTACT: TIM HUTH

1 G001 **VICINITY MAP**
3" = 1'-0"

SHEET INDEX

NO.	SHEET NAME	Sheet Issue Date
GENERAL		
G000	COVER SHEET	09/16/26
G001	SHEET INDEX	09/16/26
G100	ARCHITECTURAL SITE PLAN	09/16/26
G200	CODE ANALYSIS	09/16/26
G201	CODE ANALYSIS	09/16/26
G202	CODE ANALYSIS	09/16/26
G210	LIFE SAFETY PLANS	09/16/26
G211	LIFE SAFETY PLANS	09/16/26
G212	LIFE SAFETY PLANS	09/16/26
G230	ACCESSIBILITY	09/16/26
ARCHITECTURAL DEMOLITION		
AD101	GROUND LEVEL DEMO PLAN	09/16/26
AD102	GROUND FLOOR DEMO RCP	09/16/26
AD111	GROUND FLOOR MEZZANINE DEMO PLAN	09/16/26
AD121	FIRST FLOOR DEMO PLAN	09/16/26
AD122	FIRST FLOOR DEMO RCP	09/16/26
AD131	SECOND FLOOR DEMO PLAN	09/16/26
AD132	SECOND FLOOR DEMO RCP	09/16/26
AD151	ROOF DEMO PLAN	09/16/26
ARCHITECTURAL		
A001	LEGENDS, NOTES & ABBREVIATIONS	09/16/26
A020	INTERIOR ASSEMBLIES	09/16/26
A030	DOOR& RELITE SCHEDULE	09/16/26
A111	GROUND FLOOR - FLOOR PLAN	09/16/26
A113	GROUND FLOOR - RCP	09/16/26
A114	GROUND FLOOR - FINISH PLAN	09/16/26
A115	GROUND FLOOR - FFE PLAN	09/16/26
A116	GROUND FLOOR- SHELVING PLAN	09/16/26
A121	GROUND FLOOR MEZZANINE - PLAN	09/16/26
A123	GROUND FLOOR MEZZANINE- RCP	09/16/26
A124	GROUND FLOOR MEZZANINE - FINISH PLAN	09/16/26
A131	FIRST FLOOR - FLOOR PLAN	09/16/26
A133	FIRST FLOOR - RCP	09/16/26
A135	FIRST FLOOR - FFE PLAN	09/16/26
A141	SECOND FLOOR- FLOOR PLAN	09/16/26
A143	SECOND FLOOR - RCP	09/16/26
A144	SECOND FLOOR - FINISH PLAN	09/16/26
A145	SECOND FLOOR - FFE PLAN	09/16/26
A146	SECOND FLOOR SHELVING SALVAGE PLAN	09/16/26
A151	ROOF PLAN	09/16/26
A200	BUILDING ELEVATIONS	09/16/26
A300	BUILDING SECTIONS	09/16/26
A400	EXISTING STAFF RR PLANS & ELEV	09/16/26
A401	PUBLIC RR PLANS & ELEV.	09/16/26
A410	GROUND LEVEL ENTRY	09/16/26
A412	ENLARGED - GROUND STAFF AREA	09/16/26
A413	GROUND & FIRST FLOOR ACOUSTIC TILE LAYOUT	09/16/26
A414	ENLARGED CHILDREN'S STAFF	09/16/26
A431	ENLARGED- FIRST FLOOR FLEX	09/16/26
A432	ENLARGED- FIRST FLOOR HELP DESK	09/16/26
A441	ENLARGED- COLLECTIONSS SERVICES	09/16/26
A442	ENLARGED- IT ROOM & RACKS	09/16/26
A444	ENLARGED- MEETING ROOMS	09/16/26
A445	ENLARGED- STAFF OFFICES	09/16/26
A446	ENLARGED- STAFF OFFICES	09/16/26
A470	VERTICAL TRANSPORTATION	09/16/26
A471	VERTICAL TRANSPORTATION - DETAILS	09/16/26
A472	VERTICAL TRANSPORTATION - DETAILS	09/16/26
A473	VERTICAL TRANSPORTATION - DETAILS	09/16/26
A600	INTERIOR DETAILS - WALLS	09/16/26
A601	INTERIOR DETAILS- CEILING	09/16/26
A603	INTERIOR DETAILS - MISC	09/16/26
A604	INTERIOR DETAILS- TILE	09/16/26
A605	INTERIOR DETAILS- RR & SINKS	09/16/26
A606	INTERIOR DETAILS- MILLWORK	09/16/26
A607	INTERIOR DETAILS- MILLWORK	09/16/26
A608	INTERIOR DETAILS- MILLWORK	09/16/26
A609	INTERIOR DETAILS- MILLWORK	09/16/26
A690	SIGNAGE TYPES	09/16/26
A691	SIGNAGE DETAILS	09/16/26
A692	SIGNAGE DETAILS	09/16/26
A693	SIGNAGE DETAILS	09/16/26
A694	SIGNAGE DETAILS	09/16/26
STRUCTURAL		
S001	GENERAL NOTES	09/16/26
S002	GENERAL NOTES	09/16/26
S003	GENERAL NOTES	09/16/26
S111	GROUND FLOOR FRAMING PLAN	09/16/26
S121	GROUND FLOOR MEZZANINE FRAMING PLAN	09/16/26
S131	FIRST FLOOR FRAMING PLAN	09/16/26
S141	SECOND FLOOR FRAMING PLAN	09/16/26
S151	ROOF FRAMING PLAN	09/16/26
S300	DETAILS	09/16/26
S400	DETAILS	09/16/26
MECHANICAL		
M001	SYMBOLS, LEGENDS, & ABBREVIATIONS - MECHANICAL	09/16/26
M002	EQUIPMENT SCHEDULE - MECHANICAL	09/16/26
M003	EQUIPMENT SCHEDULE - MECHANICAL	09/16/26
M004	EQUIPMENT SCHEDULE - MECHANICAL	09/16/26
M005	CODE COMPLIANCE - MECHANICAL	09/16/26
M006	CODE COMPLIANCE - MECHANICAL	09/16/26
M010	SITE PLAN - MECHANICAL	09/16/26
MD101	GROUND LEVEL DEMOLITION PLAN - MECHANICAL	09/16/26
MD121	FIRST FLOOR DEMO PLAN - MECHANICAL	09/16/26
MD131	SECOND FLOOR DEMO PLAN - MECHANICAL	09/16/26
MD141	ROOF DEMO PLAN - MECHANICAL	09/16/26
M111	GROUND FLOOR - FLOOR PLAN - MECHANICAL	09/16/26
M131	FIRST FLOOR - FLOOR PLAN - MECHANICAL	09/16/26
M141	SECOND FLOOR - FLOOR PLAN - MECHANICAL	09/16/26
M151	ROOF PLAN - MECHANICAL	09/16/26
M211	GROUND FLOOR - FLOOR MECHANICAL PIPING	09/16/26
M231	FIRST FLOOR - FLOOR MECHANICAL PIPING	09/16/26

NO.	SHEET NAME	Sheet Issue Date
M241	SECOND FLOOR - FLOOR MECHANICAL PIPING	09/16/26
M251	ROOF PLAN - FLOOR MECHANICAL PIPING	09/16/26
M401	ENLARGED PLANS - MECHANICAL	09/16/26
M501	DETAILS - MECHANICAL	09/16/26
M601	FLOW DIAGRAMS - MECHANICAL	09/16/26
M711	GROUND FLOOR - ZONE PLAN - MECHANICAL	09/16/26
M713	FIRST FLOOR - ZONE PLAN - MECHANICAL	09/16/26
M714	SECOND FLOOR - ZONE PLAN - MECHANICAL	09/16/26
PLUMBING		
P001	SYMBOLS, LEGENDS - PLUMBING	09/16/26
P002	ABBREVIATIONS AND NOTES - PLUMBING	09/16/26
P003	EQUIPMENT SCHEDULES - PLUMBING	09/16/26
PD100	UNDERGROUND DEMOLITION PLAN - PLUMBING	09/16/26
PD101	GROUND LEVEL DEMOLITION PLAN - PLUMBING	09/16/26
PD111	GROUND FLOOR MEZZANINE DEMO PLAN - PLUMBING	09/16/26
PD121	FIRST FLOOR PLAN - PLUMBING	09/16/26
PD131	SECOND FLOOR DEMO PLAN - PLUMBING	09/16/26
PD141	ROOF DEMOLITION PLAN - PLUMBING	09/16/26
P100	UNDERGROUND PLAN - PLUMBING	09/16/26
P101	GROUND FLOOR PLAN - PLUMBING	09/16/26
P111	GROUND FLOOR MEZZANINE PLAN - PLUMBING	09/16/26
P121	FIRST FLOOR PLAN - PLUMBING	09/16/26
P131	SECOND FLOOR PLAN - PLUMBING	09/16/26
P141	ROOF PLAN - PLUMBING	09/16/26
P401	ENLARGED PLANS - PLUMBING	09/16/26
P501	DETAILS	09/16/26
ELECTRICAL		
E001	SYMBOLS, LEGENDS, & ABBREVIATIONS - ELECTRICAL	09/16/26
E003	SCHEDULES - LIGHTING	09/16/26
E004	SCHEDULES - ELECTRICAL	09/16/26
E005	SCHEDULES - ELECTRICAL	09/16/26
ED010	DEMO SITE PLAN - ELECTRICAL	09/16/26
E010	SITE PLAN - ELECTRICAL	09/16/26
ED101	GROUND LEVEL DEMOLITION RCP - LIIGHTING	09/16/26
ED111	GROUND FLOOR MEZZANINE DEMO RCP - LIGHTING	09/16/26
ED121	FIRST FLOOR DEMOLITION RCP - LIGHTING	09/16/26
ED131	SECOND FLOOR DEMOLITION RCP - LIGHTING	09/16/26
ED201	GROUND LEVEL DEMOLITION PLAN - POWER	09/16/26
ED211	MEZZANINE DEMO PLAN - POWER	09/16/26
ED221	FIRST FLOOR DEMOLITION PLAN - POWER	09/16/26
ED231	SECOND FLOOR DEMO PLAN - POWER	09/16/26
ED241	ROOF DEMOLITION PLAN - POWER	09/16/26
E101	GROUND FLOOR RCP - LIGHTING	09/16/26
E121	FIRST FLOOR RCP - LIGHTING	09/16/26
E131	SECOND FLOOR RCP - LIGHTING	09/16/26
E201	GROUND FLOOR PLAN - POWER	09/16/26
E211	MEZZANINE PLAN - POWER	09/16/26
E221	FIRST FLOOR PLAN - POWER	09/16/26
E231	SECOND FLOOR PLAN - POWER	09/16/26
E241	ROOF PLAN	09/16/26
E500	CONDUIT ROUTING - SERVICE ENTRANCE	09/16/26
E501	CONDUIT ROUTING - SERVICE ENTRANCE	09/16/26
E502	CONDUIT ROUTING - SECOND FLOOR	09/16/26
E503	CONDUIT ROUTING - SECOND FLOOR	09/16/26
E504	CONDUIT ROUTING - SECOND FLOOR	09/16/26
E601	DETAILS - ELECTRICAL	09/16/26
E602	DETAILS - ELECTRICAL	09/16/26
E603	DETAILS - ELECTRICAL	09/16/26
ED701	DEMO POWER ONE-LINE DIAGRAM - ELECTRICAL	09/16/26
E701	POWER ONE-LINE DIAGRAM - ELECTRICAL	09/16/26
E801	PANEL SCHEDULES - ELECTRICAL	09/16/26
E802	PANEL SCHEDULES - ELECTRICAL	09/16/26
E803	PANEL SCHEDULES - ELECTRICAL	09/16/26
E804	PANEL SCHEDULES - ELECTRICAL	09/16/26
E805	PANEL SCHEDULES - ELECTRICAL	09/16/26
E806	PANEL SCHEDULES - ELECTRICAL	09/16/26
E807	PANEL SCHEDULES - ELECTRICAL	09/16/26
E901	CODE COMPLIANCE - ELECTRICAL	09/16/26
E902	CODE COMPLIANCE - ELECTRICAL	09/16/26
E903	CODE COMPLIANCE - ELECTRICAL	09/16/26
E904	CODE COMPLIANCE - ELECTRICAL	09/16/26
TECHNOLOGY		
T001	SYMBOLS, LEGENDS, & ABBREVIATIONS - TECHNOLOGY	09/16/26
T002	SYMBOLS, LEGENDS, & ABBREVIATIONS - TECHNOLOGY	09/16/26
T003	SCHEDULES - TECHNOLOGY	09/16/26
TD101	GROUND LEVEL DEMOLITION PLAN - TECHNOLOGY	09/16/26
TD121	FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY	09/16/26
TD131	SECOND FLOOR DEMOLITION PLAN - TECHNOLOGY	09/16/26
T111	GROUND FLOOR PLAN - TECHNOLOGY	09/16/26
T131	FIRST FLOOR PLAN - TECHNOLOGY	09/16/26
T141	SECOND FLOOR PLAN - TECHNOLOGY	09/16/26
T501	ENLARGED PLAN - TECHNOLOGY	09/16/26
T502	ENLARGED PLAN - TECHNOLOGY	09/16/26
T601	DETAILS - TECHNOLOGY	09/16/26
T602	DETAILS - TECHNOLOGY	09/16/26
T603	DETAILS - TECHNOLOGY	09/16/26
T701	DIAGRAMS - TECHNOLOGY	09/16/26
T702	DIAGRAMS - TECHNOLOGY	09/16/26

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

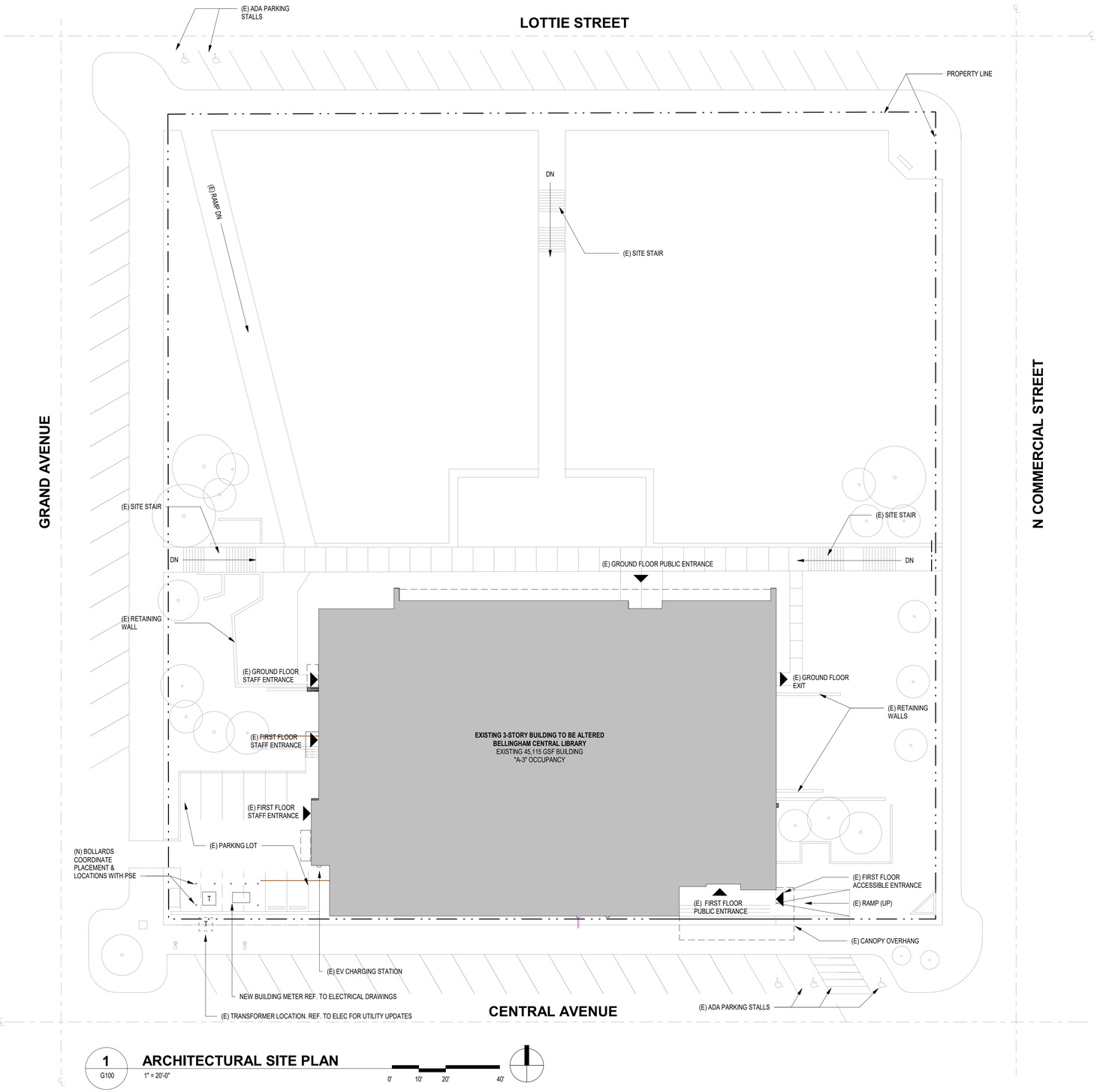
No.	Description	Date

Drawn:
Checked:
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SHEET INDEX
G001



1 G100 **ARCHITECTURAL SITE PLAN**

1" = 20'-0"

0' 10' 20' 40'

GENERAL SITE PLAN NOTES

1. SITE PLAN SHOWN FOR REFERENCE ONLY. SITE WORK LIMITED TO UTILITY UPGRADE ONLY. REFER TO ELECTRICAL SITE PLAN.

2. RE-PAVING WORK IS CONSIDERED INCIDENTAL AS A RESULT OF UTILITY UPGRADES

4. SITE INFORMATION CONTAINED HEREIN, INCLUDING, BUT NOT LIMITED TO, DIMENSIONS AND LOCATIONS OF EXISTING UTILITIES AND STRUCTURES, IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY LOCATIONS ON SITE.

SITE LEGEND

ROOF

PAVING

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

ARCHITECTURAL SITE PLAN

G100

GENERAL INFORMATION

PROJECT:	BELLINGHAM CENTRAL LIBRARY RENOVATION
PROJECT DESCRIPTION	PARTIAL INTERIOR REMODEL AND RENOVATION OF GROUND FLOOR, FIRST FLOOR AND SECOND FLOOR TO IMPROVE STAFF AND PATRON EXPERIENCE AND SENSE OF SAFETY. UPDATES TO HVAC SYSTEMS TO IMPROVE THERMAL COMFORT THROUGHOUT THE LIBRARY AS WELL AS UPGRADES TO THE BUILDINGS POWER CAPACITY TO ALLOW FOR GREATER ELECTRICAL LOADS AND COOLING IN THE FUTURE
PROJECT ADDRESS:	210 CENTRAL AVENUE BELLINGHAM, WA 98225
PARCEL #	3803301813330000
LEGAL DESCRIPTION	CENTRAL WHATCOM LOTS 1 THRU 24 BLK 7 ENTIRE BLOCK NOW CITY LIBRARY
OWNER	**BELLINGHAM PUBLIC LIBRARY (BPL)** 210 CENTRAL AVENUE BELLINGHAM, WA 98225 TEL: 360.778.7220 CONTACT: JENNIFER M VANDERPLOEG EMAIL:JMVANDERPLOEG@COB.ORG **CITY OF BELLINGHAM** 210 LOTTIE STREET BELLINGHAM, WA 98225 TEL: 360.778.7973 CONTACT: CALEB SAVAGE EMAIL: CJSAVAGE@COB.ORG

ZONING INFORMATION

APPLICABLE CODE	BELLINGHAM MUNICIPAL CODE	
ZONING:	URBAN VILLAGE	DOWNTOWN DISTRICT COMMERCIAL CORE
SUBAREA	7	
PARCEL #	3803301813330000	
PARCEL AREA	MAPPED PARCEL AREA (SQ FT): MAPPED PARCEL AREA (ACRES): ASSESSOR LEGAL ACREAGE:	86,573 1.99 1.96
USE	LIBRARY	
VEHICLE PARKING	(12) PARKING STALLS AT WEST BUILDING SERVICE/ STAFF ENTRANCE PARKING DROPS TO (8) STAFF STALLS WEST DUE TO POWER UTILITY UPGRADES	
BIKE PARKING	NO PROPOSED CHANGE	

APPLICABLE CODES

BUILDING CODE AUTHORITY	CITY OF BELLINGHAM, PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT BUILDING DIVISION
BUILDING CODE	2021 INTERNATIONAL BUILDING CODE (IBC) WITH STATE (CHAPTER 51-50 WAC) AND LOCAL (BMC 17.10.020 SECTION 117) AMENDMENTS 2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC) WITH STATE (CHAPTER 51-50 WAC) AMENDMENTS 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC) WITH LOCAL (BMC 17.10.020 SECTION 120) AMENDMENTS
LAND USE	BELLINGHAM MUNICIPAL CODE
MECHANICAL CODE	2021 INTERNATIONAL MECHANICAL CODE (IMC) WITH WA STATE AMENDMENTS 2021 INTERNATIONAL FUEL GAS CODE (IFGC) WITH WA STATE AMENDMENTS 2021 NATIONAL FUEL GAS CODE (NFPA 54) 2020 LIQUEFIED PETROLEUM GAS CODE (NFPA 58)
ELECTRICAL CODE	2023 NATIONAL ELECTRIC CODE (NEC / NFPA 70) WITH STATE (CHAPTER 296-46B WAC) AMENDMENTS
PLUMBING CODE	2021 UNIFORM PLUMBING CODE (UPC) AND WA STATE AMENDMENTS (BMC 17.10.020 SECTION 119) TO THE UPC
ENERGY CODE	2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) WITH STATE AMENDMENTS CHAPTER 51-11C WAC (COMMERCIAL PROVISIONS)
FIRE CODE	2021 INTERNATIONAL FIRE CODE (IFC) WITH WA STATE AMENDMENTS WITH LOCAL (BMC 17.20) AMENDMENTS
ACCESSIBILITY	2017 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES DESIGN STANDARD WITH STATE (CHAPTER 51-50 WAC) AMENDMENTS
SEISMIC	IBC BUILDINGS: SITE CLASS D, DEFAULT, SEISMIC DESIGN CATEGORY:D

ENERGY CODE

ENERGY CODE	WASHINGTON STATE ENERGY CODE - COMMERCIAL 2021 EDITION CHAPTER 51-11C WAC
CLIMATE ZONE C301.1	ZONE 4-C (4 MARINE)
MECHANICAL SYSTEMS C503.4	REFER TO MECHANICAL DRAWING SHEETS FOR ENERGY CODE COMPLIANCE INFORMATION.
SERVICE WATER HEATING C503.5	REFER TO MECHANICAL DRAWING SHEETS FOR ENERGY CODE COMPLIANCE INFORMATION.
ELECTRICAL POWER AND LIGHTING SYSTEMS C503.7	REFER TO ELECTRICAL DRAWING SHEETS FOR ENERGY CODE COMPLIANCE INFORMATION.

EXISTING BUILDING CODE

101.4.2 BUILDINGS PREVIOUSLY OCCUPIED	THE LEGAL OCCUPANCY OF ANY BUILDING EXISTING ON THE DATE OF ADOPTION OF THIS CODE SHALL BE PERMITTED TO CONTINUE WITHOUT CHANGE, EXCEPT AS IS SPECIFICALLY COVERED IN THIS CODE, THE INTERNATIONAL FIRE CODE, OR AS DEEMED NECESSARY BY THE CODE OFFICIAL TO MITIGATE AN UNSAFE BUILDING. FOR THE PURPOSE OF THIS SECTION, UNSAFE BUILDING IS NOT TO BE CONSTRUED AS MERE LACK OF COMPLIANCE WITH THE CURRENT CODE.
EXISTING BUILDING PREVIOUSLY PERMITED AS A-3 TYPE II-A CONSTRUCTION	
WORK AREA COMPLIANCE METHOD WS EBC 301.3.2	ALTERATIONS, ADDITIONS AND CHANGES OF OCCUPANCY COMPLYING WITH THE APPLICABLE REQUIREMENTS OF CHAPTER 6 THROUGH 12 OF THIS CODE SHALL BE CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS CODE.
THIS PROJECT IS PURSING METHOD 301.3.2 WORK AREA COMPLIANCE METHOD	
ACCESSIBILITY FOR EXISTING BUILDINGS - ALTERATIONS WS EBC 306.7	A FACILITY THAT IS ALTERED SHALL COMPLY WITH THE APPLICABLE PROVISIONS IN CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE, ICC A117.1 AND THE PROVISIONS OF SECTIONS 306.7.1 THROUGH 306.7.16, UNLESS TECHNICALLY INFEASIBLE. WHERE COMPLIANCE WITH THIS SECTION IS TECHNICALLY INFEASIBLE, THE ALTERATION SHALL PROVIDE ACCESS TO THE MAXIMUM EXTENT TECHNICALLY FEASIBLE.
ALTERATIONS AFFECTING AN AREA CONTAINING A PRIMARY FUNCTION WS EBC 306.7.1	WHERE AN ALTERATION AFFECTS THE ACCESSIBILITY TO, OR CONTAINS AN AREA OF PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE.
ACCESSIBLE MEANS OF EGRESS WS EBC 306.7.2	ACCESSIBLE MEANS OF EGRESS REQUIRED BY CHAPTER 10 OF THE INTERNATIONAL BUILDING CODE ARE NOT REQUIRED TO BE ADDED IN EXISTING FACILITIES.
ENTRANCES WS EBC 306.7.5	WHERE AN ALTERATION INCLUDES ALTERATIONS TO AN ENTRANCE THAT IS NOT ACCESSIBLE, AND THE FACILITY HAS AN ACCESSIBLE ENTRANCE, THE ALTERED ENTRANCE IS NOT REQUIRED TO BE ACCESSIBLE UNLESS REQUIRED BY SECTION 306.7.1. SIGNS COMPLYING WITH SECTION 1112 OF THE INTERNATIONAL BUILDING CODE SHALL BE PROVIDED.
ACCESSIBLE ROUTE WS EBC 306.7.6	EXTERIOR ACCESSIBLE ROUTES, INCLUDING CURB RAMPS, SHALL BE NOT LESS THAN 36 INCHES MINIMUM IN WIDTH.
PROJECT ALTERATION LEVEL 2- REFER TO G202 FOR AREA OF WORK DIAGRAM	
ALTERATION - LEVEL 2 WS EBC 603.1	LEVEL 2 ALTERATIONS INCLUDE THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT, AND SHALL APPLY WHERE THE WORK IS BELOW THE THRESHOLD OF A LEVEL 3 ALTERATION. EXCEPTION: THE MOVEMENT OR ADDITION OF NONFIXED AND MOVABLE FIXTURES, CASES, RACKS, COUNTERS AND PARTITIONS NOT OVER 5 FEET 9 INCHES (1753 MM) IN HEIGHT SHALL NOT BE CONSIDERED A LEVEL 2 ALTERATION.
SHELVING BEING RELOCATED THAT IS OVER 69 INCHES IN HEIGHT IS COUNTED TOWARDS AREA OF WORK	
APPLICATION WS EBC 603.2	LEVEL 2 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 7 FOR LEVEL 1 ALTERATIONS AS WELL AS THE PROVISIONS OF CHAPTER 8.
ALTERATION - LEVEL 3 WS EBC 604.1	LEVEL 3 ALTERATIONS APPLY WHERE ONE OF THE CRITERIA IS EXCEEDED: 1. THE WORK MEETS OR EXCEEDS THE THRESHOLD OF EITHER SUBSTANTIAL IMPROVEMENT OR SUBSTANTIAL DAMAGE; OR 2.THE ALTERATION AREA EXCEEDS 50 PERCENT OF THE BUILDING AREA.
APPLICATION WS EBC 604.2	LEVEL 3 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 7 AND 8 FOR LEVEL 1 AND 2 ALTERATIONS, RESPECTIVELY, AS WELL AS THE PROVISIONS OF CHAPTER 9.
>>> REFER G202 FOR WORK AREA DIAGRAM & CALCULATION	
SUBSTANTIAL IMPROVEMENT WS EBC 202	FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH THE FLOOD PROVISIONS OF THIS CODE, ANY REPAIR, ALTERATION, ADDITION, OR IMPROVEMENT OF A BUILDING OR STRUCTURE, THE COST OF WHICH EQUALS OR EXCEEDS 50 PERCENT OF THE VALUE DETERMINED BY ONE OF THE FOLLOWING METHODS: 1.VALUES DEVELOPED FOR PROPERTY TAX ASSESSMENT, ADJUSTED TO THE APPROXIMATE MARKET VALUE WHERE THE LAND IS APPRAISED SEPARATELY FROM THE STRUCTURE. 2.THROUGH A PROFESSIONAL APPRAISER USING ESTIMATES OF A STRUCTURE'S ACTUAL CASH VALUE, INCLUDING DEPRECIATION AND IMPROVEMENTS. 3.THE LATEST BUILDING VALUATION DATA PUBLISHED BY THE INTERNATIONAL CODE COUNCIL. 4.QUALIFIED ESTIMATES BASED ON THE PROFESSIONAL JUDGMENT OF THE BUILDING OFFICIAL. HOWEVER, WHEN THE RATIO FALLS BETWEEN 40 AND 60 PERCENT, THE BUILDING OFFICIAL MAY REQUIRE THE APPLICANT TO PROVIDE A DETAILED LIST OF COSTS. *>>> TOTAL WORK AREA IS 25% < 50% OF BUILDING AREA; COST OF WORK BUDGET IS < 50% OF THE VALUE OF THE BUILDING STRUCTURE AND PROPERTY. ALTERATION LEVEL 2* *>>> REFER G202 FOR WORK AREA DIAGRAM & CALCULATION*
EXISTING VERTICAL OPENINGS WS EBC 802.2.1 EXCEPTIONS	EXISTING INTERIOR VERTICAL OPENINGS CONNECTING TWO OR MORE FLOORS SHALL BE ENCLOSED WITH APPROVED ASSEMBLIES HAVING A FIRE-RESISTANCE RATING OR NOT LESS THAN 1 HOUR WITH APPROVED OPENING PROTECTIVES. 1. WHERE VERTICAL OPENING ENCLOSURE IS NOT REQUIRED BY THE INTERNATIONAL BUILDING CODE OR THE INTERNATIONAL FIRE CODE. *>>> REFER TO 2021 IBC SECTION 712.1.9 TWO-STORY OPENINGS & IBC SECTION 1019.3 EXCEPTION 1* *>>> PROPOSED PROJECT HAS GROUND FLOOR SEPARATED BY 1HR RATED ASSEMBLY THUS THE STAIR A OPENING IS ATMOSPHERICALLY COMMUNICATE BETWEEN ONLY TWO ADJACENT STORIES.*
AUTOMATIC SPRINKLER SYSTEMS WS EBC 803.2 GROUPS A, B, E, F-1, H, I-1, I-3, I-4, M, R-1, R-2, R-4, S-1 AND S-2 WS EBC 803.2.2	AUTOMATIC SPRINKLER SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 803.2.1 THROUGH 803.2.6. INSTALLATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. IN BUILDINGS WITH OCCUPANCIES IN GROUPS A, B, E, F-1, H, I-1, I-3, I-4, M, R-1, R-2, R-4, S-1 AND S-2, WORK AREAS THAT HAVE EXITS OR CORRIDORS SHARED BY MORE THAN ONE TENANT OR THAT HAVE EXITS OR CORRIDORS SERVING AN OCCUPANT LOAD GREATER THAN 30 SHALL BE PROVIDED WITH AUTOMATIC SPRINKLER PROTECTION WHERE BOTH OF THE FOLLOWING CONDITIONS OCCUR: 1.THE WORK AREA IS REQUIRED TO BE PROVIDED WITH AUTOMATIC SPRINKLER PROTECTION IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AS APPLICABLE TO NEW CONSTRUCTION. 2.THE WORK AREA EXCEEDS 50 PERCENT OF THE FLOOR AREA. *>>> THE WORK AREA DOES NOT EXCEED 50% OF THE FLOOR AREA; EXISTING NON-SPRINKLERED IS COMPLYING WITH THE CODE*

CONSTRUCTION TYPE, HEIGHT & AREA

CONSTRUCTION TYPE IBC 601	TYPE II-A NO PROPOSED CHANGES	NON-SPRINKLERED
ALLOWABLE HEIGHT AND NUMBER OF STORIES IBC TABLE 504.3 AND 504.4	A-3: B: S-1: S-2:	65FT,(3) STORIES ABOVE GRADE (NON-SPRINKLERED) 65FT,(5) STORIES ABOVE GRADE (NON-SPRINKLERED) 65FT, (4) STORIES ABOVE GRADE (NON-SPRINKLERED) 65FT, (5) STORIES ABOVE GRADE (NON-SPRINKLERED)
THE EXISTING TYPE II-A BUILDING IS 35' TALL AND 3 STORIES, COMPLYING AS AN A-3 NON-SPRINKLERED BUILDING WITH TABLE 504.3 & 504.4		
ALLOWABLE AREA IBC TABLE 506.2	A-3: B: S-1: S-2:	15,500 (NON- SPRINKLERED, MULTISTORY) 37,500 (NON- SPRINKLERED, MULTISTORY) 26,000(NON-SPRINKLERED, MULTISTORY) 39,000 (NON-SPRINKLERED, MULTISTORY)
A-3 IS THE MOST RESTRICTIVE OCCUPANCY		
FRONTAGE INCREASE IBC TABLE 506.3.3	100% OF BUILDING PERIMIETER IS 30FT OR GREATER FROM A PUBLIC WAY. REF. FRONTAGE DIAGRAM If = 0.75	
EXISTING BUILDING MEZZANINE VALIDATION:		
MEZZANINES WSBC 2021 202 505.2.1	MEZZANINE. AN INTERMEDIATE LEVEL OR LEVELS BETWEEN THE FLOOR AND CEILING OF ANY STORY AND IN ACCORDANCE WITH SECTION 505. THE AGGREGATE AREA OF A MEZZANINE OR MEZZANINES WITHIN A ROOM SHALL BE NOT GREATER THAN ONE-THIRD OF THE FLOOR AREA OF THAT ROOM OR SPACE IN WHICH THEY ARE LOCATED. THE ENCLOSED PORTION OF A ROOM SHALL NOT BE INCLUDED IN A DETERMINATION OF THE FLOOR AREA OF THE ROOM IN WHICH THE MEZZANINE IS LOCATED. IN DETERMINING THE ALLOWABLE MEZZANINE AREA, THE AREA OF THE MEZZANINE SHALL NOT BE INCLUDED IN THE FLOOR AREA OF THE ROOM.	
GROUND FLOOR MEZZANINE:	GROUND LEVEL GSF / 3 14,398/3= 4,799 EXISTING GSF OF "GROUND FLOOR MEZZANINE" 2,549 GSF	
EXISTING GSF DOES NOT EXCEED 1/3 AREA OF GROUND FLOOR COMPLYING WITH WSBC 2021 505.2.1 AND CAN BE CONSIDERED A MEZZANINE		
LEVEL 1 MEZZANINE:	LEVEL 1 GSF / 3 19707 / 3 = 6,569 EXISTING SF OF "FIRST FLOOR MEZZANINE" = 7,310 GSF "FIRST FLOOR MEZZANINE" MUST BE CONSIDERED AN ADDITIONAL LEVEL, NOT A MEZZANINE.	
PREVIOUSLY KNOWN AS "FIRST FLOOR MEZZANINE, NOW LEVEL 2		
ALLOWABLE AREA DETERMINATION	EQUATION 5-3 FOR EACH STORY OF A-3 SINGLE OCCUPANCY BUILDINGS	
MIXED OCCUPANCY BUILDINGS IBC 506.2.1	Aa = [At + (NS x If)]	
	ALLOWABLE AREAS PER STORY 3 STORY MAX:	EXISTING AREA PER STORY
	NO PROPOSED CHANGES	
	GROUND LEVEL	
	15,500+(15,500X0.75) = 27,125 GSF	14,398 GSF
	GROUND LEVEL MEZZANINE	
	N/A	N/A
	LEVEL 1	
	15,500+(15,500X0.75) = 27,125 GSF	19,707 GSF
	LEVEL 2	
	15,500+(15,500X0.75)= 27,125 GSF	7,310 GSF
THE ALLOWABLE AREA PER STORY FOR A TYPE II-A, A-3 NON-SPRINKLERED BUILDING ON THIS SITE IS 27,125 GSF REFER TO ADJACENT AREA FACTOR INCREASE DIAGRAM FOR DETERMINED INCREASE FACTOR		

FIRE-RESISTANCE RATINGS

TYPE II IBC 602.2	TYPES II CONSTRUCTION ARE THOSE TYPES OF CONSTRUCTION IN WHICH THE BUILDING ELEMENTS SPECIFIED IN TABLE 601 ARE OF NONCOMBUSTIBLE MATERIALS, EXCEPT AS PERMITTED IN SECTION 603 AND ELSEWHERE IN THIS CODE.	
FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS IBC TABLE 601	TYPE II-A PRIMARY STRUCT. FRAMING: BEARING WALL, EXTERIOR: BEARING WALL, INTERIOR: NONBEARING WALLS, EXT.: NONBEARING WALLS, INT.: FLOOR CONSTRUCTION: ROOF CONSTRUCTION:	1 HOUR RATING 1 HOUR RATING 1 HOUR RATING 0 HOUR RATING (TABLE 705.5) 0 HOUR RATING 1 HOUR RATING 1 HOUR RATING
FIRE AREA IBC 707.3.10	THE FIRE BARRIERS, FIRE WALLS, HORIZONTAL ASSEMBLIES OR COMBINATIONS THEREOF SEPARATING A SINGLE OCCUPANCY INTO DIFFERENT FIRE AREAS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THAT INDICATED IN TABLE 707.3.10. THE FIRE BARRIERS, FIRE WALLS, HORIZONTAL ASSEMBLIES OR COMBINATIONS THEREOF SEPARATING FIRE AREAS OF MIXED OCCUPANCIES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THE HIGHEST VALUE INDICATED IN TABLE 707.3.10 FOR THE OCCUPANCIES UNDER CONSIDERATION.	
FIRE PARTITIONS IBC 708.1	THE FOLLOWING WALL ASSEMBLIES SHALL COMPLY WITH THIS SECTION. 8. VESTIBULES IN ACCORDANCE WITH SECTION 1028.2.	
SEPARATED OCCUPANCIES IBC TABLE 508.4	**OCCUPANCY**	**REQUIRED SEPARATION**
	A S-2	1HR
	A B & S-1	2HR
	B & S-1 S-2	2HR
TWO-STORY OPENINGS IBC 712.1.9	IN OTHER THAN GROUPS I-2 AND I-3, A VERTICAL OPENING THAT IS NOT USED AS ONE OF THE APPLICATIONS IN THIS SECTION SHALL BE PERMITTED IF THE OPENING COMPLIES WITH ALL OF THE ITEMS BELOW: 1. DOES NOT CONNECT MORE THAN TWO STORIES. 2. DOES NOT PENETRATE A HORIZONTAL ASSEMBLY THAT SEPARATES FIRE AREAS OR SMOKE BARRIERS THAT SEPARATE SMOKE COMPARTMENTS. 3. IS NOT CONCEALED WITHIN THE CONSTRUCTION OF A WALL OR A FLOOR/CEILING ASSEMBLY. 4. IS NOT OPEN TO A CORRIDOR IN GROUP I OR R OCCUPANCIES. 5. IS NOT OPEN TO A CORRIDOR ON NONSPRINKLERED FLOORS. 6. IS SEPARATED FROM FLOOR OPENINGS AND AIR TRANSFER OPENINGS SERVING OTHER FLOORS BY CONSTRUCTION CONFORMING TO REQUIRED SHAFT ENCLOSURES.	
SHAFT ENCLOSURES FIRE-RESISTANCE RATING IBC 713.4	SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES OR MORE, AND NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN FOUR STORIES. THE NUMBER OF STORIES CONNECTED BY THE SHAFT ENCLOSURE SHALL INCLUDE ANY BASEMENTS BUT NOT ANY MEZZANINES. SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS. SHAFT ENCLOSURES SHALL MEET THE REQUIREMENTS OF SECTION 703.2.1.1.	

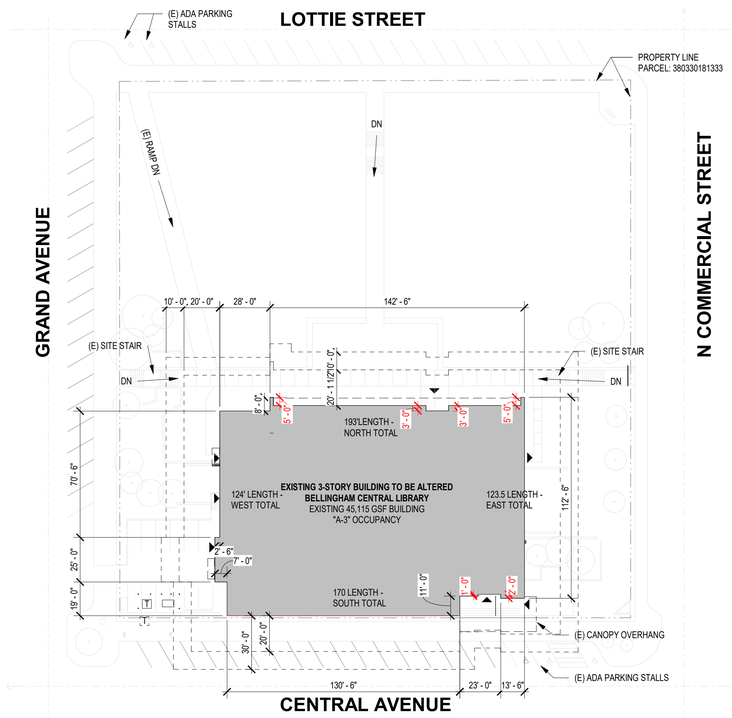
FIRE PROTECTION

PORTABLE FIRE EXTINGUISHERS IBC 906.1	PORTABLE FIRE EXTINGUISHERS SHALL BE IN ALL OF THE FOLLOWING LOCATIONS: 1. IN GROUP A, B, AND S OCCUPANCIES. 2. WITHIN 30 FEET OF COMMERCIAL COOKING EQUIPMENT
FIRE EXTINGUISHERS SIZE AND DISTRIBUTION IBC TABLE 906.3 (1)	MAXIMUM DISTANCE TO TRAVEL TO EXTINGUISHER: 75 FEET <<<REFEEN TO LIFE SAFTY PLANS

USE AND OCCUPANCY

THE EXISTING OCCUPANCY OF THE BUILDING IS A-3. THIS PROJECT PROPOSES TO MAINTAIN THIS SINGLE- OCCUPANCY AS A-3, AS IT IS THE MOST RESTRICTIVE A OCCUPANCY FOR DETERMINIMG BUILDING HEIGHT, AREA, CONSTRUCTION TYPE AND REQUIRED LEVEL OF PROTECTION COMPLYING WITH 508.3 SEE CH.5 ANALYSIS CONFIRMING THIS.

ASSEMBLY, A-3 IBC 303.4	GROUP A-3 OCCUPANCY INCLUDES ASSEMBLY USES INTENDED FOR WORSHIP, RECREATION OR AMUSEMENT AND OTHER ASSEMBLY USES NOT CLASSIFIED ELSEWHERE IN GROUP A INCLUDING: *LIBRARIES*
SMALL ASSEMBLY SPACES IBC 303.1.2	1. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY. 2. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SF IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.
ACCESSORY OCCUPANCIES IBC 508.2.1 IBC 508.2.3 IBC 508.2.4	ACCESSORY OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE. AGGREGATE ACCESSORY OCCUPANCIES SHALL NOT OCCUPY MORE THAN 10 PERCENT OF THE FLOOR AREA OF THE STORY IN WHICH THEY ARE LOCATED AND SHALL NOT EXCEED THE TABULAR VALUES FOR NON-SPRINKLERED BUILDINGS IN TABLE 506.2 FOR EACH SUCH ACCESSORY OCCUPANCY. NO SEPERATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY
BUISNESS, B IBC 304.1	BUSINESS GROUP B OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR OFFICE, PROFESSIONAL, OR SERVICE-TYPE TRANSACTIONS INCLUDING STORAGE OF RECORDS AND ACCOUNTS.
STORAGE, S IBC 311.1 IBC 311.1.1	STORAGE GROUP S OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR STORAGE THAT IS NOT CLASSIFIED AS A HAZARDOUS OCCUPANCY A ROOM OR SPACE USED FOR STORAGE PURPOSES THAT IS ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS PART OF THAT OCCUPANCY
STORAGE, S-1 IBC 311.2	STORAGE GROUP S-1 OCCUPANCIES ARE BUILDINGS OCCUPIED FOR STORAGE USES THAT ARE NOT CLASSIFIED AS GROUP S-2 BOOKS AND PAPER IN ROLLS OR PACKS FURNITURE
STORAGE, S-2 IBC 311.3	LOW-HAZARD STORAGE. GROUP S-2 OCCUPANCIES INCLUDE, AMONG OTHERS, BUILDINGS USED FOR THE STORAGE OF NONCOMBUSTIBLE MATERIALS SUCH AS PRODUCTS ON WOOD PALLETS OR IN PAPER CARTONS WITH OR WITHOUT SINGLE THICKNESS DIVISION; OR IN PAPER WRAPPINGS. SUCH PRODUCTS ARE PERMITTED TO HAVE A NEGLIGIBLE AMOUNT OF PLASTIC TRIM, SUCH AS KNOBS, HANDLES OR FILM WRAPPING. ASBESTOS FOOD PRODUCTS FROZEN FOODS METALS



AREA FACTOR INCREASE CALCULATION (506.3.3)

TOTAL PERIMETER= 610.5
LINEAR FT.
TOTAL PERIMETER= 610.5 - AREA NOT ACCESSIBLE TO PUBLIC WAY/ HITS LOT LINE (506.3.2)
1'
2'
4.5'
3'
3'
4.5'

= 592.5 FT. = **97% OF BUILDING PERIMETER HAS 30FT OR GREATER = 0.75**

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CODE ANALYSIS
G200

GENERAL MEANS OF EGRESS

CEILING HEIGHT IBC 1003.2	THE MEANS OF EGRESS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FEET 6 INCHES ABOVE THE FINISHED FLOOR. MIN. 80" CLR AT EGRESS STAIRS PER 1011.3
PROTRUDING OBJECTS IBC 1003.3 HEADROOM IBC 1003.3.1	PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 1003.3.1 THROUGH 1003.3.4. PROTRUDING OBJECTS ARE PERMITTED TO EXTEND BELOW THE MINIMUM CEILING HEIGHT REQUIRED BY SECTION 1003.2 WHERE A MINIMUM HEADROOM OF 80INCHES IS PROVIDED OVER ANY CIRCULATION PATHS, INCLUDING WALKS, CORRIDORS, AISLES AND PASSAGEWAYS. NOT MORE THAN 50 PERCENT OF THE CEILING AREA OF A MEANS OF EGRESS SHALL BE REDUCED IN HEIGHT BY PROTRUDING OBJECTS. DOOR CLOSERS AND STOPS SHALL NOT REDUCE HEADROOM TO LESS THAN 78 INCHES.
HORIZONTAL PROJECTIONS IBC 1003.3.3	OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISHED FLOOR SHALL NOT PROJECT HORIZONTALLY MORE THAN 4 INCHES INTO THE CIRCULATION PATH; HANDRAILS ARE PERMITTED TO PROTRUDE 4 1/2 INCHES FROM THE WALL OR GUARD.
FLOOR SURFACE IBC 1003.4	CIRCULATION PATHS OF THE MEANS OF EGRESS SHALL HAVE A SLIP-RESISTANT SURFACE AND BE SECURELY ATTACHED.
MEANS OF EGRESS CONTINUITY IBC 1003.6	...OBSTRUCTIONS SHALL NOT BE PLACED IN THE MINIMUM WIDTH OR REQUIRED CAPACITY OF A MEANS OF EGRESS COMPONENT EXCEPT PROJECTIONS PERMITTED BY THIS CHAPTER. THE MINIMUM WIDTH OR REQUIRED CAPACITY OF A MEANS OF EGRESS SYSTEM SHALL NOT BE DIMINISHED ALONG THE PATH OF EGRESS TRAVEL.
CUMMULATIVE OCCUPANT LOADS IBC 1004.2 INTERVENING SPACES OR ACCESSORY AREAS IBC 1004.2.1 ADJACENT LEVELS FOR MEZZANINES IBC 1004.2.2	WHERE THE PATH OF EGRESS TRAVEL INCLUDES INTERVENING ROOMS, AREAS OR SPACES, CUMULATIVE OCCUPANT LOADS SHALL BE DETERMINED IN ACCORDANCE WITH THIS SECTION. WHERE OCCUPANTS EGRESS FROM ONE OR MORE ROOMS, AREAS, OR SPACES THROUGH OTHERS, THE DESIGN OCCUPANT LOAD SHALL BE COMBINED OCCUPANT LOAD OF INTERCONNECTED ACCESSORY OR INTERVENING SPACES. DESIGN OF EGRESS PATH CAPACITY SHALL BE BASED ON THE CUMULATIVE PORTION OF OCCUPANT LOADS OF ALL ROOMS, AREAS OR SPACES TO THAT POINT ALONG THE PATH OF EGRESS TRAVEL. THAT PORTION OF THE OCCUPANT LOAD OF A MEZZANINE WITH REQUIRED EGRESS THROUGH A ROOM, AREA OR SPACE ON AJACENT LEVEL SHALL BE ADDED TO THE OCCUPANT LOAD OF THAT ROOM, AREA OR SPACE.
MAX FLOOR AREA PER OCCUPANT IBC TABLE 1004.5	MAX FLOOR AREA PER OCCUPANT... 300 GROSS ASSEMBLY CONCENTRATED 7 NET ASSEMBLY UNCONCENTRATED 15 NET BUSINESS AREAS 150 GROSS LIBRARY READING ROOM 50 NET LIBRARY STACK AREA 100 GROSS
EGRESS WIDTH: STAIRWAYS IBC 1005.3.1	THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAYS BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH PER OCCUPANT. WHERE STAIRWAYS SERVE MORE THAN ONE STORY, ONLY THE OCCUPANT LOAD OF EACH STORY CONSIDERED INDIVIDUALLY SHALL BE USED IN CALCULATING THE REQUIRED CAPACITY OF THE STAIRWAYS SERVING THAT STORY. OCCUPANT LOAD X 0.3 = MINIMUM WIDTH REQUIRED AT STAIRWAYS *LEVEL 2: 45X0.3 13.5*
STAIRWAY WIDTH AND CAPACITY IBC 1011.2 EXCEPTION 1 HANDRAILS WSEBC 2021 804.10	THE REQUIRED CAPACITY OF STAIRWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1, BUT THE MINIMUM WIDTH SHALL BE NOT LESS THAN 44 INCHES 44" / 0.3 = 147 OCCUPANTS PER STAIRS 2 STAIRS AT 147 OCCUPANTS = 294 OCCUPANT LOAD CAPACITY PER FLOOR 116 GREATEST OCCUPANT LOAD < 294 ALLOWABLE OCCUPANT LOAD STAIRWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A WIDTH OF NOT LESS THAN 36 INCHES. *LEVEL 2 OCCUPANTS = 43<50* *MIN. STAIRWAY WIDTH = 36 INCH* THE REQUIREMENTS OF SECTIONS 804.10.1 AND 804.10.2 SHALL APPLY TO HANDRAILS FROM THE WORK AREA FLOOR TO, AND INCLUDING, THE LEVEL OF EXIT DISCHARGE.
WSEBC 2021 804.10.1	EVERY REQUIRED EXIST STAIRWAY PART OF A MEANS OF EGRESS FOR ANY WORK AREA NEEDS ONE HANDRIAL. THOSE THAT ARE GREATER THAN 66 INCHES NEED TO HAVE HANDRAILS ON BOTH SIDES
STAIR A IS GREATER THAN 66" AND NEEDS COMPLIANT HANDRAIL ON BOTH SIDES	
WSEBC 2021 804.10.2	HANDRAILS REQUIRED IN ACCORDANCE WITH SECTION 804.10.1 SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE.
WSEBC 2021 804.12.1	EVERY OPEN PORTION OF A STAIRWAY, LANDING, OR BALCONY THAT IS MORE THAN 30 INCHES (762 MM) ABOVE THE FLOOR OR GRADE BELOW AND IS NOT PROVIDED WITH GUARDS, OR THOSE PORTIONS IN WHICH EXISTING GUARDS ARE JUDGED TO BE IN...
IN THIS PROJECT, HANDRAILS AT THE FIRST FLOOR MAIN ENTRANCE STAIR MUST BE UPGRADED AS STAIR WIDTH IS GREATER THAN 66" AND IS BEING USED FOR EGRESS.	
EGRESS WIDTH: OTHER COMPONENTS IBC 1005.3.2	THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT OCCUPANT LOAD X 0.2 = MINIMUM REQUIRED WIDTH AT EGRESS COMPONENTS LEVEL 2 OCCUPANTS = 49<50 49X 0.2 9.8 GROUND LEVEL COMM. 70X 0.2 14 GROUND LEVEL PUBLIC 156 X0.2 31.2
SIZE OF DOOR IBC 1010.1.1	THE REQUIRED CAPACITY OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A MINIMUM CLEAR OPENING WIDTH OF 32 INCHES. THE CLEAR OPENING WIDTH OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. 32" /0.2 = 160 OCCUPANTS PER EGRESS DOOR 2 EGRESS DOORS AT 160 OCCUPANTS = 320 OCCUPANT LOAD CAPACITY PER FLOOR 169GREATEST OCCUPANT LOAD < 320 ALLOWABLE OCCUPANT LOAD
DISTRIBUTION OF MIN WIDTH AND REQ'D CAPACITY IBC 1005.5	WHERE MORE THAN ONE EXIT, OR ACCESS TO MORE THAN ONE EXIT, IS REQUIRED, THE MEANS OF EGRESS SHALL BE CONFIGURED SUCH THAT THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT, SHALL NOT REDUCE THE AVAILABLE CAPACITY OR WIDTH TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY OR WIDTH.
DOORS IBC 1005.7.1 WSEBC 804.4.3 WSEBC 804.5.4	DOORS, WHEN FULLY OPENED SHALL NOT REDUCE THE REQUIRED MEANS OF EGRESS WIDTH BY MORE THAN 7 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE-HALF. 804.4.3 MAIN ENTRANCE—GROUP A BUILDINGS OF GROUP A WITH AN OCCUPANT LOAD OF 300 OR MORE SHALL BE PROVIDED WITH A MAIN ENTRANCE CAPABLE OF SERVING AS THE MAIN EXIT WITH AN EGRESS CAPACITY OF NOT LESS THAN ONE-HALF OF THE TOTAL OCCUPANT LOAD. TH... IN ANY WORK AREA, AND IN THE EGRESS PATH FROM ANY WORK AREA TO THE EXIT DISCHARGE, IN BUILDINGS OR PORTIONS THEREOF OF GROUP A ASSEMBLY OCCUPANCIES WITH AN OCCUPANT LOAD GREATER THAN 100, ALL REQUIRED EXIT...
EGRESS FROM SPACES IBC 1006.2 SPACES WITH ONE EXIT OR DOORWAY IBC TABLE 1006.2.1	TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1 **OCC / MAX OL / MAX COMMON PATH OF EGRESS TRAVEL...** A >30 75

GENERAL MEANS OF EGRESS CONT'D

EGRESS FROM STORIES PATH OF EGRESS TRAVEL IBC 1006.3.2	THE PATH OF EGRESS TRAVEL TO AN EXIT SHALL NOT PASS THROUGH MORE THAN ONE ADJACENT STORY.
EGRESS BASED ON OCC. LOAD IBC TABLE 1006.3.3	OCCUPANT LOAD / STORY — MIN. NUMBER OF EXITS 1-500 — 2
EXIT AND EXIT ACCESS IBC 1007.1.1	WHERE TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACESS STAIRWAYS OR RAMPS, OR ANY COMBINATION THEREOF, ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS, THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM.
ILLUMINATION REQUIRED IBC 1008.2	THE MEANS OF EGRESS SERVING A ROOM OR SPACE SHALL BE ILLUMINATED AT ALL TIMES THAT THE ROOM OR SPACE IS OCCUPIED. EXCEPTION 2. AISLE ACCESSWAYS IN GROUP A.
ILLUMINATION LEVEL UNDER NORMAL POWER IBC 1008.2.1	THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1-FOOT-CANDLE AT THE WALKING SURFACE. ALONG EXIT ACCESS STAIRWAYS, EXIT STAIRWAYS AND AT THEIR REQUIRED LANDINGS, THE ILLUMINATION LEVEL SHALL NOT BE LESS THAN 10 FOOTCANDLES AT THE WALKING SURFACE WHEN THE STAIRWAY IS IN USE.
EXIT DISCHARGE IBC 1008.2.3	LLUMINATION SHALL BE PROVIDED ALONG THE PATH OF TRAVEL FOR THE EXIT DISCHARGE FROM EACH EXIT TO THE PUBLIC WAY.
POWER SUPPLY IBC 1008.3 GENERAL IBC 1008.3.1 BUILDINGS IBC 1008.3.2 ROOMS AND SPACES IBC 1008.3.3 DURATION IBC 1008.3.4	THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE EXITS OR ACCESS TO EXITS, AN EMERGENCY ELECTRICAL SYSTEM SHALL... 1. AISLES 2. CORRIDORS 3. EXIT ACCESS STAIRWAYS AND RAMPS IN THE EVENT OF A POWER SUPPLY FAILURE IN BUILDINGS THAT REQUIRE TWO OR MORE EXITS OR ACCESS TO EXITS, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE ALL OF THE FOLLOWING AREAS: 1. INTERIOR EXIT ACCESS STAIRWAYS AND RAMPS. 2. INTERIOR AND EXTERIOR EXIT STAIRWAYS AND RAMPS 3. EXIT PASSAGEWAYS 4. VESTIBULES AND AREAS ON THE LEVEL OF DISCHARGE USED FOR EXIT DISCHARGE IN ACCORDANCE WITH SECTION 1028.2 5. EXTERIOR LANDINGS AS REQUIRED BY SECTION 1010.5 FOR EXIT DOORS THAT LEAD DIRECTLY TO THE EXIT DISCHARGE. IN THE EVENT OF A POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE ALL OF THE FOLLOWING AREAS: 1. ELECTRICAL EQUIPMENT ROOMS 2. FIRE COMMAND CENTERS 3. FIRE PUMP ROOMS 4. GENERATOR ROOMS 5. PUBLIC RESTROOMS WITH AN AREA GREATER THAN 300 SF THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702.
ACCESSIBLE MEANS OF EGRESS REQD IBC 1009.1	ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS. WHERE MORE THAN ONE MEANS OF EGRESS IS REQUIRED BY SECTION 1006.2 OR 1006.3 FROM ANY ACCESSIBLE SPACE, EACH ACCESSIBLE PORTION OF THE SPACE SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS.
CONTINUITY AND COMPONENTS IBC 1009.2	EACH REQUIRED ACCESSIBLE MEANS OF EGRESS SHALL BE CONTINUOUS TO A PUBLIC WAY AND SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: 1. ACCESSIBLE ROUTES COMPLYING WITH SECTION 1104. 2. INTERIOR EXIT STAIRWAYS COMPLYING WITH SECTIONS 1009.3 AND 1023. 3. EXIT ACCESS STAIRWAYS COMPLYING WITH SECTIONS 19009.3 AND 1019.3 OR 1019.4. ... 8. RAMPS COMPLYING WITH SECTION 1012. ...

DOORS

SIZE IBC 1010.1.1	THE REQUIRED CAPACITY OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A MINIMUM CLEAR OPENING WIDTH OF 32 INCHES. THE CLEAR OPENING WIDTH OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. WHERE THIS SECTION REQUIRES A MINIMUM CLEAR OPENING WIDTH OF 32 INCHES AND A DOOR OPENING INCLUDES TWO DOOR LEAVES WITHOUT A MULLION, ONE LEAF SHALL PROVIDE A MINIMUM CLEAR OPENING WIDTH OF 32 INCHES.
EGRESS DOOR TYPE IBC 1010.1.2	EGRESS DOORS SHALL BE OF THE SIDE-HINGED SWINGING DOOR, PIVOTED DOOR, OR BALANCED DOOR TYPES.
FORCES TO UNLATCH AND OPEN DOORS IBC 1010.1.3	THE FORCES TO UNLATCH DOORS SHALL COMPLY WITH THE FOLLOWING: 1.WHERE DOOR HARDWARE OPERATES BY PUSH OR PULL, THE OPERATIONAL FORCE TO UNLATCH THE DOOR SHALL NOT EXCEED 15 POUNDS. 2.WHERE DOOR HARDWARE OPERATES BY ROTATION, THE OPERATIONAL FORCE TO UNLATCH THE DOOR SHALL NOT EXCEED 28 INCH-POUNDS. THE FORCE TO OPEN DOORS SHALL COMPLY WITH THE FOLLOWING: 1.FOR INTERIOR SWINGING EGRESS DOORS THAT ARE MANUALLY OPERATED, OTHER THAN DOORS REQUIRED TO BE FIRE RATED, THE FORCE FOR PUSHING OR PULLING OPEN THE DOOR SHALL NOT EXCEED 5 POUNDS. 2.FOR OTHER SWINGING DOORS, SLIDING DOORS OR FOLDING DOORS, AND DOORS REQUIRED TO BE FIRE RATED, THE DOOR SHALL REQUIRE NOT MORE THAN A 30-POUND (133 N) FORCE TO BE SET IN MOTION AND SHALL MOVE TO A FULL-OPEN POSITION...
FLOOR ELEVATION IBC 1010.1.4	WHERE A MANUAL HORIZONTAL SLIDING DOOR IS REQUIRED TO LATCH, THE LATCH OR OTHER MECHANISM SHALL PREVENT THE DOOR FROM REBOUNDING INTO A PARTIALLY OPEN POSITION WHEN THE DOOR IS CLOSED.
LANDINGS AT DOORS IBC 1010.1.5	LANDINGS SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE STAIRWAY OR THE DOOR, WHICHEVER IS GREATER. DOORS IN THE FULLY OPEN POSITION SHALL NOT REDUCE A REQUIRED DIMENSION BY MORE THAN 7 INCHES . WHERE A LANDING SERVES AN OCCUPANT LOAD OF 50 OR MORE, DOORS IN ANY POSITION SHALL NOT REDUCE THE LANDING TO LESS THAN ONE-HALF ITS REQUIRED WIDTH. LANDINGS SHALL HAVE A LENGTH MEASURED IN THE DIRECTION OF TRAVEL OF NOT LESS THAN 44 INCHES.
THRESHOLDS IBC 1010.1.6	THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4 INCH (19.1 MM) IN HEIGHT ABOVE THE FINISHED FLOOR OR LANDING FOR SLIDING DOORS SERVING DWELLING UNITS OR 1/2 INCH (12.7 MM) ABOVE THE FINISHED FLOOR OR LANDING FOR OTHER DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES GREATER THAN 1/4 INCH (6.4 MM) AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (50-PERCENT SLOPE).
DOOR ARRANGEMENT IBC 1010.1.7	SPACE BETWEEN TWO DOORS IN A SERIES SHALL BE 48 INCHES MINIMUM PLUS THE WIDTH OF A DOOR SWINGING INTO THE SPACE. DOORS IN A SERIES SHALL SWING EITHER IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS.

EXIT ACCESS

EGRESS THROUGH INTERVENING SPACES IBC 1016.2	2.EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS AND THE AREA SERVED ARE ACCESSORY TO ONE OR THE OTHER, ARE NOT A GROUP H OCCUPANCY AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT. 3.AN EXIT ACCESS SHALL NOT PASS THROUGH A ROOM THAT CAN BE LOCKED TO PREVENT EGRESS.
LIMITATIONS IBC 1017.2 TABLE 1017.2	A/S-1 — 200 FT WITHOUT SPRINKLER SYSTEM 250 FT WITH SPRINKLER SYSTEM B — 200 FT WITHOUT SPRINKLER SYSTEM 300 FT WITH SPRINKLER SYSTEM S-2 — 300 FT WITHOUT SPRINKLER SYSTEM 400 FT WITH SPRINKLER SYSTEM
MEASUREMENT IBC 1017.3	EXIT ACCESS TRAVEL DISTANCE SHALL BE MEASURED FROM THE MOST REMOTE POINT OF EACH ROOM, AREA OR SPACE ALONG THE NATURAL AND UNOBSTRUCTED PATH OF HORIZONTAL AND VERTICAL EGRESS TRAVEL TO THE ENTRANCE TO AN EXIT. WHERE MORE THAN ONE EXIT IS REQUIRED, EXIT ACCESS TRAVEL DISTANCE SHALL BE MEASURED TO THE NEAREST EXIT.
EXIST ACCESS STAIRWAYS OCCUPANCIES OTHER THAN GROUP I-2 AND I-3 IBC 1019.3	IN OTHER THAN GROUP I-2 AND I-3 OCCUPANCIES, FLOOR OPENINGS CONTAINING EXIT ACCESS STAIRWAYS OR RAMPS SHALL BE ENCLOSED WITH A SHAFT ENCLOSURE CONSTRUCTED IN ACCORDANCE WITH SECTION 713. EXCEPTIONS: 1.EXIT ACCESS STAIRWAYS AND RAMPS THAT SERVE OR ATMOSPHERICALLY COMMUNICATE BETWEEN ONLY TWO ADJACENT STORIES. SUCH INTERCONNECTED STORIES SHALL NOT BE OPEN TO OTHER STORIES.

EXIT DISCHARGE

EXIT DISCHARGE IBC 1028.2 EXCEPTIONS:	EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE A DIRECT PATH OF EGRESS TRAVEL TO GRADE. THE EXIT DISCHARGE SHALL NOT REENTER A BUILDING. THE COMBINED USE OF EXCEPTIONS 1 AND 2 SHALL NOT EXCEED 50 PERCENT OF THE NUMBER AND MINIMUM WIDTH OR REQUIRED CAPACITY OF THE REQUIRED EXITS. 1.NOT MORE THAN 50 PERCENT OF THE NUMBER AND MINIMUM WIDTH OR REQUIRED CAPACITY OF INTERIOR EXIT STAIRWAYS AND RAMPS IS PERMITTED TO EGRESS THROUGH AREAS, INCLUDING ATRIUMS, ON THE LEVEL OF DISCHARGE PROVIDED THAT ALL OF THE FOLLOWING CONDITIONS ARE MET: 1.1.DISCHARGE OF INTERIOR EXIT STAIRWAYS AND RAMPS SHALL BE PROVIDED WITH A FREE AND UNOBSTRUCTED PATH OF TRAVEL TO AN EXTERIOR EXIT DOOR AND SUCH EXIT IS READILY VISIBLE AND IDENTIFIABLE FROM THE POINT OF TERMINATION OF THE ENCLOSURE. 1.2.THE ENTIRE AREA OF THE LEVEL OF EXIT DISCHARGE IS SEPARATED FROM AREAS BELOW BY CONSTRUCTION CONFORMING TO THE FIRE-RESISTANCE RATING FOR THE... 2.NOT MORE THAN 50 PERCENT OF THE NUMBER AND MINIMUM WIDTH OR REQUIRED CAPACITY OF THE INTERIOR EXIT STAIRWAYS AND RAMPS IS PERMITTED TO EGRESS THROUGH A VESTIBULE PROVIDED THAT ALL OF THE FOLLOWING CONDITIONS ARE MET: 2.1.THE ENTIRE AREA OF THE VESTIBULE IS SEPARATED FROM AREAS BELOW BY CONSTRUCTION CONFORMING TO THE FIRE-RESISTANCE RATING OF THE INTERIOR EXIT STAIRWAY OR RAMP ENCLOSURE. 2.2.THE DEPTH FROM THE EXTERIOR OF THE BUILDING IS NOT GREATER THAN 10 FEETAND THE LENGTH IS NOT GREATER THAN 30 FEET . 2.3.THE AREA IS SEPARATED FROM THE REMAINDER OF THE LEVEL OF EXIT DISCHARGE BY A FIRE PARTITION CONSTRUCTED IN ACCORDANCE WITH SECTION 708. EXCEPTION: THE MAXIMUM TRANSMITTED TEMPERATURE RISE IS NOT REQUIRED. 2.4.THE AREA IS USED ONLY FOR MEANS OF EGRESS AND EXITS DIRECTLY TO THE OUTSIDE.
EXIT DISCHARGE WIDTH OR CAPACITY IBC 1028.3	THE MINIMUM WIDTH OR REQUIRED CAPACITY OF THE EXIT DISCHARGE SHALL BE NOT LESS THAN THE MINIMUM WIDTH OR REQUIRED CAPACITY OF THE EXITS BEING SERVED.
EXIT DISCHARGE COMPONENT IBC 1028.4	EXIT DISCHARGE COMPONENTS SHALL BE SUFFICIENTLY OPEN TO THE EXTERIOR SO AS TO MINIMIZE THE ACCUMULATION OF SMOKE AND TOXIC GASES.
ACCESS TO A PUBLIC WAY IBC 1028.5	THE EXIT DISCHARGE SHALL PROVIDE A DIRECT AND UNOBSTRUCTED ACCESS TO A PUBLIC WAY.

STAIRS

WIDTH AND CAPACITY IBC 1011.2	THE REQUIRED CAPACITY OF STAIRWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1, BUT THE MINIMUM WIDTH SHALL BE NOT LESS THAN 44 INCHES. EXCEPTIONS: 1.STAIRWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A WIDTH OF NOT LESS THAN 36 INCHES.
HEADROOM IBC 1011.3	STAIRWAYS SHALL HAVE A HEADROOM CLEARANCE OF NOT LESS THAN 80 INCHES (2032 MM) MEASURED VERTICALLY FROM A LINE CONNECTING THE EDGE OF THE NOSINGS. SUCH HEADROOM SHALL BE CONTINUOUS ABOVE THE STAIRWAY TO THE POINT WHERE THE LINE INTERSECTS THE LANDING BELOW, ONE TREAD DEPTH BEYOND THE BOTTOM RISER. THE MINIMUM CLEARANCE SHALL BE MAINTAINED THE FULL WIDTH OF THE STAIRWAY AND LANDING.
RISER HEIGHT AND TREAD DEPTH IBC 1011.5.2	STAIR RISER HEIGHTS SHALL BE 7 INCHES MAXIMUM AND 4 INCHES MINIMUM. THE RISER HEIGHT SHALL BE MEASURED VERTICALLY BETWEEN THE NOSINGS OF ADJACENT TREADS OR BETWEEN THE STAIRWAY LANDING AND THE ADJACENT TREAD. RECTANGULAR TREAD DEPTHS SHALL BE 11 INCHES MINIMUM MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREAD'S NOSING.
VERTICAL RISE IBC 1011.8	A FLIGHT OF STAIRS SHALL NOT HAVE A VERTICAL RISE GREATER THAN 12 FEET (3658 MM) BETWEEN FLOOR LEVELS OR LANDINGS.
HANDRAILS IBC 1011.11	FLIGHTS OF STAIRWAYS SHALL HAVE HANDRAILS ON EACH SIDE AND SHALL COMPLY WITH SECTION 1014.

HANDRAILS

HEIGHT IBC 1014.2	HANDRAIL HEIGHT, MEASURED ABOVE STAIR TREAD NOSINGS, OR FINISH SURFACE OF RAMP SLOPE, SHALL BE UNIFORM, NOT LESS THAN 34 INCHES (864 MM) AND NOT MORE THAN 38 INCHES.
CONTINUITY IBC 1014.4	HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY NEWEL POSTS OR OTHER OBSTRUCTIONS.
EXTENSIONS IBC 1014.6	HANDRAILS SHALL RETURN TO A WALL, GUARD OR THE WALKING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT FLIGHT OF STAIRS OR RAMP RUN. WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAILS SHALL EXTEND HORIZONTALLY NOT LESS THAN 12 INCHES BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER.
CLEARANCE IBC 1014.7	CLEAR SPACE BETWEEN A HANDRAIL AND A WALL OR OTHER SURFACE SHALL BE NOT LESS THAN 1 1/2 INCHES. A HANDRAIL AND A WALL OR OTHER SURFACE ADJACENT TO THE HANDRAIL SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
PROJECTIONS IBC 1014.8	PROJECTIONS INTO THE REQUIRED WIDTH OF AISLES, STAIRWAYS AND RAMPS AT EACH SIDE SHALL NOT EXCEED 4 1/2 INCHES AT OR BELOW THE HANDRAIL HEIGHT. PROJECTIONS INTO THE REQUIRED WIDTH SHALL NOT BE LIMITED ABOVE THE MINIMUM HEADROOM HEIGHT REQUIRED IN SECTION 1011.3.

GUARDS

WHERE REQUIRED IBC 1015.2	GUARDS SHALL BE LOCATED ALONG OPEN-SIDED WALKING SURFACES, INCLUDING MEZZANINES, EQUIPMENT PLATFORMS, AISLES, STAIRS, RAMPS AND LANDINGS THAT ARE LOCATED MORE THAN 30 INCHES MEASURED VERTICALLY TO THE FLOOR OR...
HEIGHT IBC 1015.3	REQUIRED GUARDS SHALL BE NOT LESS THAN 42 INCHES HIGH, MEASURED VERTICALLY AS FOLLOWS: 1.FROM THE ADJACENT WALKING SURFACES....

PLUMBING

MINIMUM NUMBER OF FIXTURE IBC 2902.1	PLUMBING FIXTURES SHALL BE PROVIDED IN THE MINIMUM NUMBER AS SHOWN IN TABLE 2902.1 IN WASHINGTON STATE BUILDING CODE CHAPTER 51-50 WAC BASED ON THE ACTUAL USE OF THE BUILDING OR SPACE. >>> REFER G21X SERIES FOR PLUMBING FIXTURE CALCULATION PER FLOOR

INTERIOR FINISHES

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

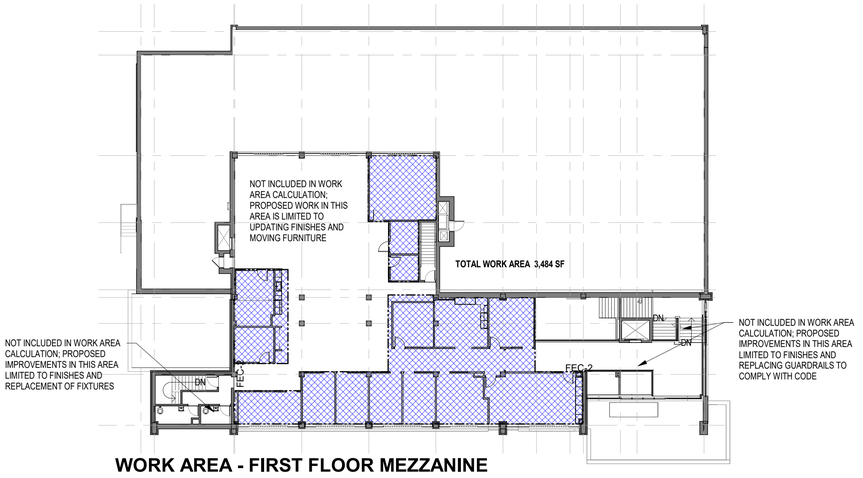
REVISIONS

No.	Description	Date

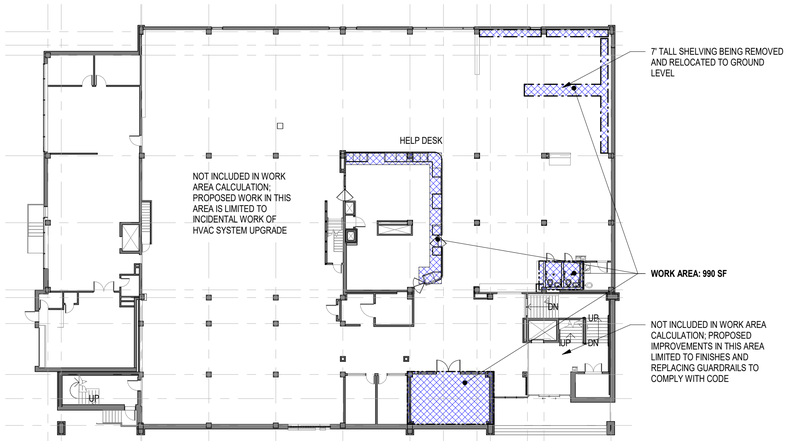
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

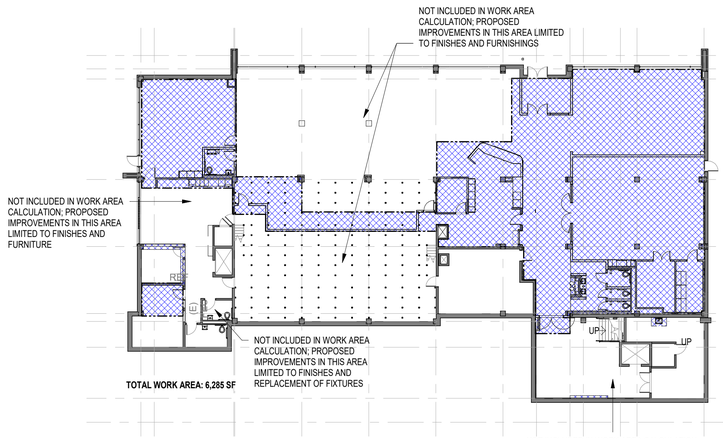
CODE ANALYSIS
G201



WORK AREA - FIRST FLOOR MEZZANINE

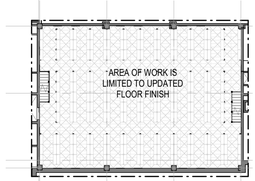


WORK AREA - FIRST FLOOR



WORK AREA - GROUND FLOOR

1.8



WORK AREA - GROUND FLOOR MEZZ

WORK AREA SUMMARY

LEVEL	TOTAL EXISTING FLOOR AREA	WORK AREA	PERCENTAGE
GROUND FLOOR	16,881 SF	6,382 SF	38%
FIRST FLOOR	19,707 SF	990 SF	5%
SECOND FLOOR	7,310 SF	**3,484** SF	48 %
GRAND TOTAL	**43,898 SF**	**10,856 SF**	**25%**

NOTE: GRAND TOTAL WORK AREA IS 25% OF GRAND TOTAL EXISTING FLOOR AREA < 50% , PER 2021 WASHINGTON EBC SECTION 603.1 & SECTION 604.1

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

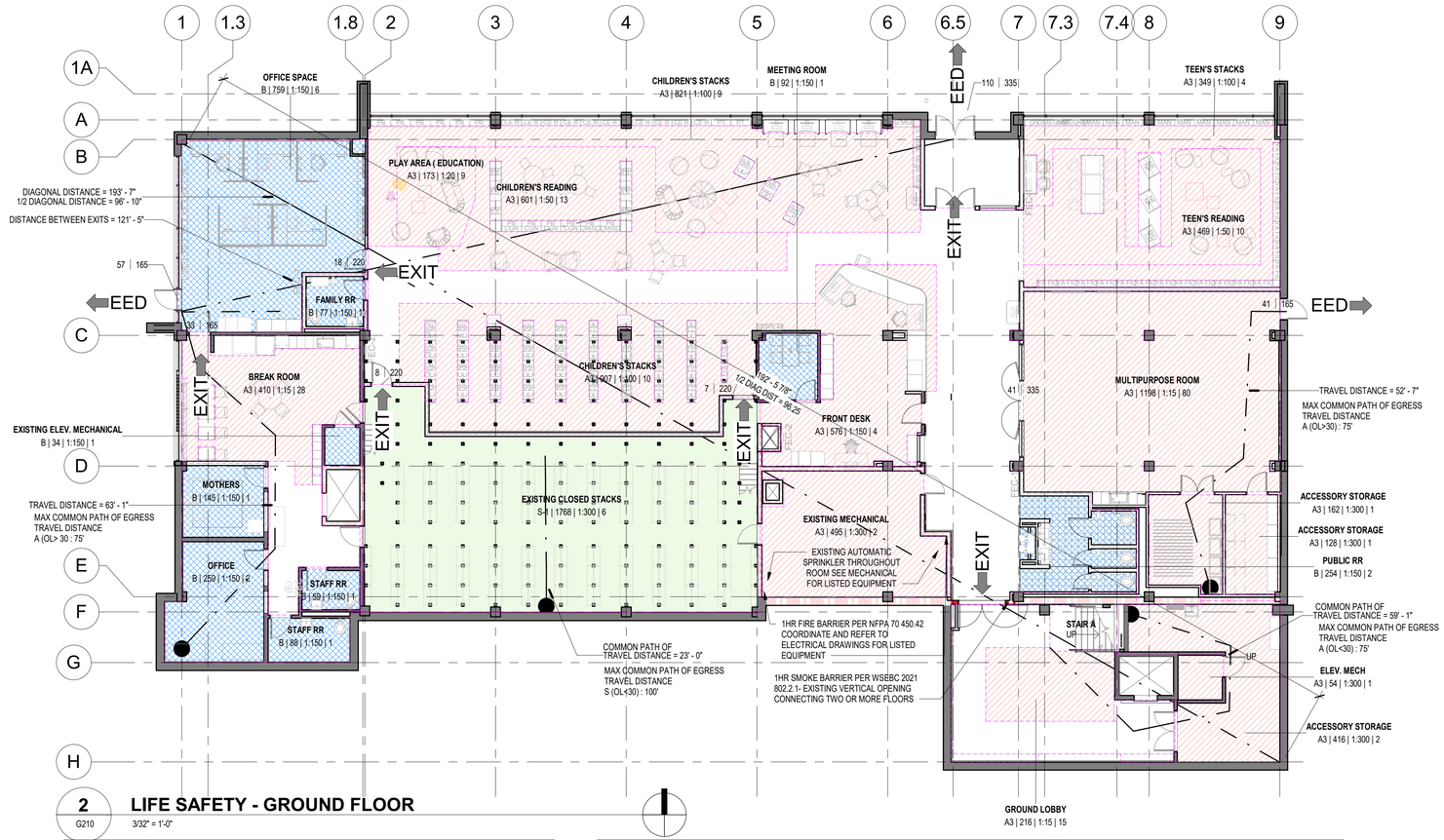
No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

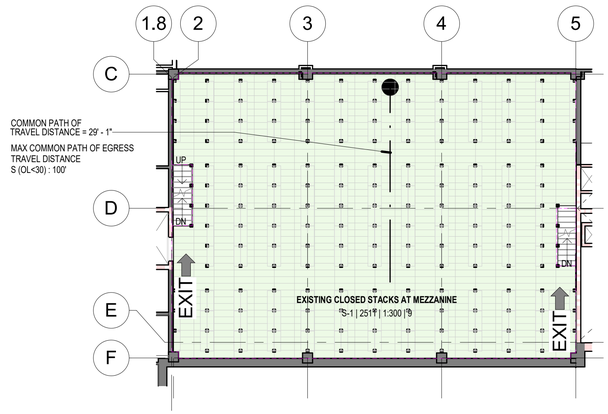
SHEET

CODE ANALYSIS
G202



2 LIFE SAFETY - GROUND FLOOR

G210 — 3/32" = 1'-0"



1 LIFE SAFETY - GROUND FLOOR MEZZANINE

G210 — 3/32" = 1'-0"

OCCUPANCY CALCULATION

MH Area Classification	NAME	AREA	OCCUPANCY	OLF	OCCUPANTS
1-PUBLIC	MULTIPURPOSE ROOM	1198.34 SF	A3	15	80
1-PUBLIC	GROUND LOBBY	215.57 SF	A3	15	15
1-PUBLIC	PLAY AREA (EDUCATION)	173.44 SF	A3	20	9
1-PUBLIC	TEEN'S READING	468.72 SF	A3	50	10
1-PUBLIC	CHILDREN'S READING	601.37 SF	A3	50	13
1-PUBLIC	CHILDREN'S STACKS	821.39 SF	A3	100	9
1-PUBLIC	CHILDREN'S STACKS	906.79 SF	A3	100	10
1-PUBLIC	TEEN'S STACKS	348.77 SF	A3	100	4
1-PUBLIC	ACCESSORY STORAGE	162.24 SF	A3	300	1
1-PUBLIC	FAMILY RR	77.03 SF	B	150	1
1-PUBLIC	PUBLIC RR	254.05 SF	B	150	2
1-PUBLIC	PUBLIC RR	167.29 SF	B	150	2
1-PUBLIC		5395.01 SF			156
1-STAFF	BREAK ROOM	410.21 SF	A3	15	28
1-STAFF	FRONT DESK	575.95 SF	A3	150	4
1-STAFF	EXISTING MECHANICAL	494.84 SF	A3	300	2
1-STAFF	ACCESSORY STORAGE	415.56 SF	A3	300	2
1-STAFF	ELEV. MECH	53.72 SF	A3	300	1
1-STAFF	ACCESSORY STORAGE	127.89 SF	A3	300	1
1-STAFF	OFFICE SPACE	759.31 SF	B	150	6
1-STAFF	MOTHERS	144.74 SF	B	150	1
1-STAFF	MEETING ROOM	92.40 SF	B	150	1
1-STAFF	OFFICE	258.66 SF	B	150	2
1-STAFF	STAFF RR	88.37 SF	B	150	1
1-STAFF	STAFF RR	58.55 SF	B	150	1
1-STAFF	EXISTING ELEV. MECHANICAL	34.02 SF	B	150	1
1-STAFF	EXISTING CLOSED STACKS	1767.91 SF	S-1	300	6
1-STAFF	EXISTING CLOSED STACKS AT MEZZANINE	2511.16 SF	S-1	300	9
1-STAFF		7793.30 SF			66

PLUMBING CALCULATION

MH Area Classification	NAME	AREA	OCCUPANTS	PLUMBING OCCUPANCY	GENDER OCCUPANCY	REQ. MALE WC	REQ. FEMALE WC	REQ. MALE LAVS	REQ. FEMALE LAVS.
1-PUBLIC	TEEN'S READING	468.72 SF	10	A-3.1	5	0.04	0.076923	0.025	0.025
1-PUBLIC	MULTIPURPOSE ROOM	1198.34 SF	80	A-3.1	40	0.32	0.615385	0.2	0.2
1-PUBLIC	CHILDRENS STACKS	821.39 SF	9	A-3.1	5	0.04	0.076923	0.025	0.025
1-PUBLIC	CHILDRENS STACKS	906.79 SF	10	A-3.1	5	0.04	0.076923	0.025	0.025
1-PUBLIC	CHILDREN'S READING	601.37 SF	13	A-3.1	7	0.06	0.107692	0.035	0.035
1-PUBLIC	TEEN'S STACKS	348.77 SF	4	A-3.1	2	0.02	0.030769	0.01	0.01
1-PUBLIC	GROUND LOBBY	215.57 SF	15	A-3.1	8	0.06	0.123077	0.04	0.04
1-PUBLIC	FAMILY RR	77.03 SF	1	A-3.1	1	0.01	0.015385	0.005	0.005
1-PUBLIC	PUBLIC RR	254.05 SF	2	A-3.1	1	0.01	0.015385	0.005	0.005
1-PUBLIC	PUBLIC RR	167.29 SF	2	B	1	0.04	0.04	0.025	0.025
1-PUBLIC	PLAY AREA (EDUCATION)	173.44 SF	9	E-WA	5	0.14	0.2	0.058824	0.1
1-PUBLIC	ACCESSORY STORAGE	162.24 SF	1	S-1 / S-2	1	0.01	0.01	0.01	0.01
1-PUBLIC		5395.01 SF			81	0.78	1.388462	0.463824	0.505
1-STAFF	OFFICE SPACE	759.31 SF	6	A-3.1	3	0.02	0.046154	0.015	0.015
1-STAFF	EXISTING MECHANICAL	494.84 SF	2	A-3.1	1	0.01	0.015385	0.005	0.005
1-STAFF	MEETING ROOM	92.40 SF	1	A-3.1	1	0.01	0.015385	0.005	0.005
1-STAFF	FRONT DESK	575.95 SF	4	A-3.1	2	0.02	0.030769	0.01	0.01
1-STAFF	BREAK ROOM	410.21 SF	28	B	14	0.56	0.56	0.35	0.35
1-STAFF	MOTHERS	144.74 SF	1	B	1	0.04	0.04	0.025	0.025
1-STAFF	OFFICE	258.66 SF	2	B	1	0.04	0.04	0.025	0.025
1-STAFF	STAFF RR	88.37 SF	1	B	1	0.04	0.04	0.025	0.025
1-STAFF	STAFF RR	58.55 SF	1	B	1	0.04	0.04	0.025	0.025
1-STAFF	EXISTING ELEV. MECHANICAL	34.02 SF	1	B	1	0.04	0.04	0.025	0.025
1-STAFF	EXISTING CLOSED STACKS	1767.91 SF	6	S-1 / S-2	3	0.03	0.03	0.03	0.03
1-STAFF	ACCESSORY STORAGE	415.56 SF	2	S-1 / S-2	1	0.01	0.01	0.01	0.01
1-STAFF	ELEV. MECH	53.72 SF	1	S-1 / S-2	1	0.01	0.01	0.01	0.01
1-STAFF	EXISTING CLOSED STACKS AT MEZZANINE	2511.16 SF	9	S-1 / S-2	5	0.05	0.05	0.05	0.05
1-STAFF	ACCESSORY STORAGE	127.89 SF	1	S-1 / S-2	1	0.01	0.01	0.01	0.01
1-STAFF		7793.30 SF			37	0.93	0.977692	0.62	0.62

PLUMBING SUMMARY:

REQUIRED PLUMBING FIXTURE - GROUND	WC- MALE	WC- FEMALE	LAV. - MALE	LAV. - FEMALE	DF*
PUBLIC	1	2	1	1	L1 TOTAL OCCUPANTS = 222 (>150, <500)
STAFF	1	1	1	1	2

PROVIDED PLUMBING FIXTURE - GROUND

PUBLIC	GENDER-NEUTRAL TOTAL : 4	GENDER-NEUTRAL TOTAL : 3	
STAFF	GENDER-NEUTRAL TOTAL : 2	GENDER-NEUTRAL TOTAL : 2	2

*NOTE : OCCUPANT LOADS OVER 30 SHALL HAVE ONE DRINKING FOUNTAIN FOR THE FIRST 150 OCCUPANTS, THEN ONE PER EACH ADDITIONAL 500 OCCUPANTS PER 2021 WASHINGTON STATE BUILDING CODE 2902.5.1

EGRESS/CODE PLAN LEGEND

- SMOKE PARTITION
- 1 HOUR FIRE RESISTIVE ASSEMBLY
- 2 HOUR FIRE RESISTIVE ASSEMBLY
- 3 HOUR FIRE RESISTIVE ASSEMBLY
- (E) 1 HOUR FIRE RESISTIVE ASSEMBLY PER PRIOR APPROVED BUILDING PERMIT
- (E) 2 HOUR FIRE RESISTIVE ASSEMBLY PER PRIOR APPROVED BUILDING PERMIT
- (E) 3 HOUR FIRE RESISTIVE ASSEMBLY PER PRIOR APPROVED BUILDING PERMIT
- COMMON PATH OF TRAVEL OR EXIT ACCESS TRAVEL, AS NOTED
- EED — EMERGENCY EXIT DISCHARGE (EED)
- EXIT — EXIT ENCLOSURE
- ACCESSIBLE AREA OF REFUGE
- EXIT SIGN, REFER TO RCP'S FOR EXACT LOCATIONS
- AOR — AREA OF REFUGE SIGN, REFER TO RCP'S FOR EXACT LOCATIONS
- FEC — FIRE EXTINGUISHER CABINET
- (E)FEC — EXISTING FIRE EXTINGUISHER CABINET
- 101 — DOOR TAG
- **AREA NAME** B | SF | 1:OLF | OCC. LOAD — ROOM TAG
- 100 / 220 — STAIR TAG

DOOR EXIT LOAD | DOOR OCCUPANT CAPACITY

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

OPEN TO BELOW

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

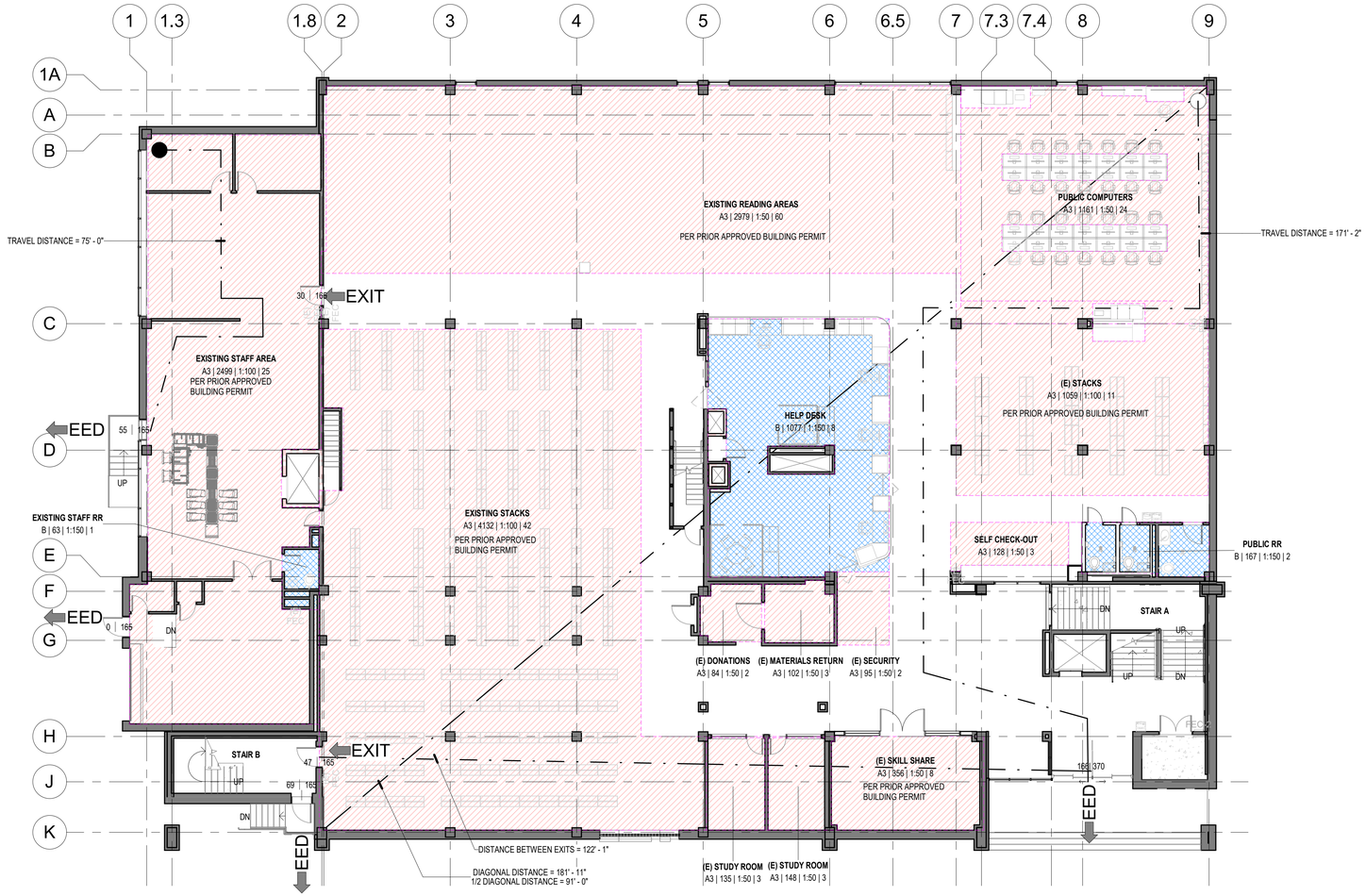
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

LIFE SAFETY PLANS

G210



1 LIFE SAFETY - FIRST FLOOR

G211

3/32" = 1'-0"

OCCUPANCY CALCULATION

MH Area Classification	NAME	AREA	OCCUPANCY	OLF	OCCUPANTS
2-PUBLIC	EXISTING READING AREAS	2979.42 SF	A3	50	60
2-PUBLIC	(E) SKILL SHARE	356.20 SF	A3	50	8
2-PUBLIC	(E) STUDY ROOM	147.57 SF	A3	50	3
2-PUBLIC	(E) STUDY ROOM	135.25 SF	A3	50	3
2-PUBLIC	(E) DONATIONS	84.21 SF	A3	50	2
2-PUBLIC	(E) MATERIALS RETURN	101.71 SF	A3	50	3
2-PUBLIC	(E) SECURITY	95.14 SF	A3	50	2
2-PUBLIC	SELF CHECK-OUT	127.92 SF	A3	50	3
2-PUBLIC	PUBLIC COMPUTERS	1160.63 SF	A3	50	24
2-PUBLIC	EXISTING STACKS	4132.42 SF	A3	100	42
2-PUBLIC	(E) STACKS	1058.83 SF	A3	100	11
2-PUBLIC	HELP DESK	1077.10 SF	B	150	8
2-PUBLIC		11456.41 SF			169
2-STAFF	EXISTING STAFF AREA	2498.51 SF	A3	100	25
2-STAFF	EXISTING STAFF RR	63.08 SF	B	150	1
2-STAFF		2561.59 SF			26

PLUMBING CALCULATION

MH Area Classification	NAME	AREA	OCCUPANTS	PLUMBING OCCUPANCY	GENDER OCCUPANCY	REQ. MALE WC	REQ. FEMALE WC	REQ. MALE LAVS	REQ. FEMALE LAVS.
2-PUBLIC	EXISTING STACKS	4132.42 SF	42	A-3.1	21	0.17	0.323077	0.105	0.105
2-PUBLIC	EXISTING READING AREAS	2979.42 SF	60	A-3.1	30	0.24	0.461538	0.15	0.15
2-PUBLIC	(E) STACKS	1058.83 SF	11	A-3.1	6	0.05	0.092308	0.03	0.03
2-PUBLIC	(E) SKILL SHARE	356.20 SF	8	A-3.1	4	0.03	0.061538	0.02	0.02
2-PUBLIC	(E) STUDY ROOM	147.57 SF	3	A-3.1	2	0.02	0.030769	0.01	0.01
2-PUBLIC	(E) STUDY ROOM	135.25 SF	3	A-3.1	2	0.02	0.030769	0.01	0.01
2-PUBLIC	(E) DONATIONS	84.21 SF	2	A-3.1	1	0.01	0.015385	0.005	0.005
2-PUBLIC	(E) MATERIALS RETURN	101.71 SF	3	A-3.1	2	0.02	0.030769	0.01	0.01
2-PUBLIC	(E) SECURITY	95.14 SF	2	A-3.1	1	0.01	0.015385	0.005	0.005
2-PUBLIC	SELF CHECK-OUT	127.92 SF	3	A-3.1	2	0.02	0.030769	0.01	0.01
2-PUBLIC	PUBLIC COMPUTERS	1160.63 SF	24	A-3.1	12	0.10	0.184615	0.06	0.06
2-PUBLIC	HELP DESK	1077.10 SF	8	B	4	0.16	0.16	0.1	0.1
2-PUBLIC		11456.41 SF			87	0.82	1.436923	0.515	0.515
2-STAFF	EXISTING STAFF RR	63.08 SF	1	B	1	0.04	0.04	0.025	0.025
2-STAFF	EXISTING STAFF AREA	2498.51 SF	25	F-1 / F-2	13	0.13	0.13	0.13	0.13
2-STAFF		2561.59 SF			14	0.17	0.17	0.155	0.155

PLUMBING SUMMARY:

REQUIRED PLUMBING FIXTURE - GROUND	WC- MALE	WC- FEMALE	LAV. - MALE	LAV. - FEMALE	DF*
PUBLIC	1	2	1	1	L1 TOTAL OCCUPANTS = 195 (>150, <500)
STAFF	1	1	1	1	2
PROVIDED PLUMBING FIXTURE - GROUND					
PUBLIC	GENDER-NEUTRAL TOTAL : 3		GENDER-NEUTRAL TOTAL : 3		2
STAFF	GENDER-NEUTRAL TOTAL : 1		GENDER-NEUTRAL TOTAL : 1		

*NOTE : OCCUPANT LOADS OVER 30 SHALL HAVE ONE DRINKING FOUNTAIN FOR THE FIRST 150 OCCUPANTS, THEN ONE PER EACH ADDITIONAL 500 OCCUPANTS PER 2021 WASHINGTON STATE BUILDING CODE 2902.5.1

EGRESS/CODE PLAN LEGEND

- SMOKE PARTITION
- 1 HOUR FIRE RESISTIVE ASSEMBLY
- 2 HOUR FIRE RESISTIVE ASSEMBLY
- 3 HOUR FIRE RESISTIVE ASSEMBLY
- (E) 1 HOUR FIRE RESISTIVE ASSEMBLY PER PRIOR APPROVED BUILDING PERMIT
- (E) 2 HOUR FIRE RESISTIVE ASSEMBLY PER PRIOR APPROVED BUILDING PERMIT
- (E) 3 HOUR FIRE RESISTIVE ASSEMBLY PER PRIOR APPROVED BUILDING PERMIT
- COMMON PATH OF TRAVEL OR EXIT ACCESS TRAVEL, AS NOTED
- EED — EMERGENCY EXIT DISCHARGE (EED)
- EXIT — EXIT ENCLOSURE
- ACCESSIBLE AREA OF REFUGE
- EXIT SIGN, REFER TO RCP'S FOR EXACT LOCATIONS
- AOR — AREA OF REFUGE SIGN, REFER TO RCP'S FOR EXACT LOCATIONS
- FEC — FIRE EXTINGUISHER CABINET
- (E)FEC — EXISTING FIRE EXTINGUISHER CABINET
- 101 — DOOR TAG
- **AREA NAME** B | SF | 1:OLF | OCC. LOAD — ROOM TAG
- 100 / 220 — STAIR TAG

DOOR EXIT LOAD | DOOR OCCUPANT CAPACITY

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

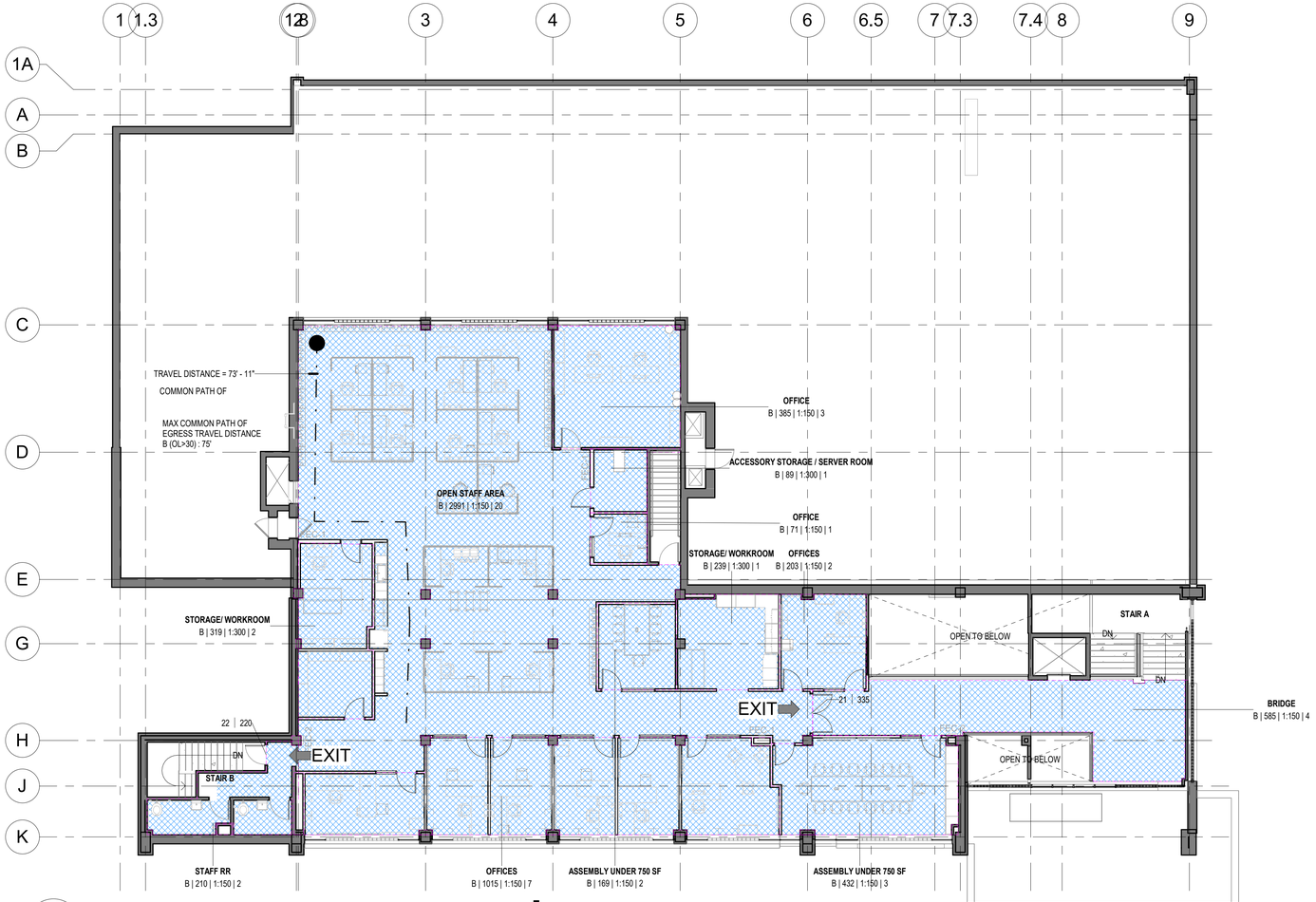
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

LIFE SAFETY PLANS

G211



1 G212 **LIFE SAFETY - SECOND FLOOR**

3/32" = 1'-0"

OCCUPANCY CALCULATION

MH Area Classification	NAME	AREA	OCCUPANCY	OLF	OCCUPANTS
3-STAFF	OPEN STAFF AREA	2990.64 SF	B	150	20
3-STAFF	ASSEMBLY UNDER 750 SF	431.68 SF	B	150	3
3-STAFF	OFFICES	1015.16 SF	B	150	7
3-STAFF	ASSEMBLY UNDER 750 SF	169.32 SF	B	150	2
3-STAFF	STAFF RR	210.04 SF	B	150	2
3-STAFF	OFFICE	384.71 SF	B	150	3
3-STAFF	OFFICE	71.38 SF	B	150	1
3-STAFF	OFFICES	202.97 SF	B	150	2
3-STAFF	BRIDGE	585.22 SF	B	150	4
3-STAFF	STORAGE/ WORKROOM	318.66 SF	B	300	2
3-STAFF	ACCESSORY STORAGE / SERVER ROOM	89.13 SF	B	300	1
3-STAFF	STORAGE/ WORKROOM	239.20 SF	B	300	1
3-STAFF		6708.12 SF			48

PLUMBING CALCULATION

MH Area Classification	NAME	AREA	OCCUPANTS	PLUMBING OCCUPANCY	GENDER OCCUPANCY	REQ. MALE WC	REQ. FEMALE WC	REQ. MALE LAVS	REQ. FEMALE LAVS.
3-STAFF	OPEN STAFF AREA	2990.64 SF	20	B	10	0.40	0.4	0.25	0.25
3-STAFF	ASSEMBLY UNDER 750 SF	431.68 SF	3	B	2	0.08	0.08	0.05	0.05
3-STAFF	OFFICES	1015.16 SF	7	B	4	0.16	0.16	0.1	0.1
3-STAFF	ASSEMBLY UNDER 750 SF	169.32 SF	2	B	1	0.04	0.04	0.025	0.025
3-STAFF	STAFF RR	210.04 SF	2	B	1	0.04	0.04	0.025	0.025
3-STAFF	STORAGE/ WORKROOM	318.66 SF	2	B	1	0.04	0.04	0.025	0.025
3-STAFF	ACCESSORY STORAGE / SERVER ROOM	89.13 SF	1	B	1	0.04	0.04	0.025	0.025
3-STAFF	OFFICE	384.71 SF	3	B	2	0.08	0.08	0.05	0.05
3-STAFF	OFFICE	71.38 SF	1	B	1	0.04	0.04	0.025	0.025
3-STAFF	OFFICES	202.97 SF	2	B	1	0.04	0.04	0.025	0.025
3-STAFF	STORAGE/ WORKROOM	239.20 SF	1	B	1	0.04	0.04	0.025	0.025
3-STAFF	BRIDGE	585.22 SF	4	B	2	0.08	0.08	0.05	0.05
3-STAFF		6708.12 SF			27	1.08	1.08	0.675	0.675

*NOTE * CALCULATOR ROUNDING UP BEFORE DIVIDING BY TWO. TOTAL OCCUPANTS 48/ 2= 24 EACH GENDER. 1 W.C PER 25 M/FM 0.9 W.C EACH*

PLUMBING SUMMARY:

REQUIRED PLUMBING FIXTURE - L2	**WC- MALE**	**WC- FEMALE**	**LAV. - MALE**	**LAV. - FEMALE**	**** DF**
STAFF	1	1	1	1	L2 TOTAL OCCUPANTS = 48 (>30, <150) DF = 1
PROVIDED PLUMBING FIXTURE - L2					
STAFF	GENDER-NEUTRAL TOTAL : 2		GENDER-NEUTRAL TOTAL : 2		0

** NOTE : A DRINKING FOUNTAIN NEED NOT BE PROVIDED IN A DRINKING OR DINING ESTABLISHMENT PER 2021 WASHINGTON STATE BUILDING CODE 2902.5.1, EXCEPTION 2

EGRESS/CODE PLAN LEGEND

- SMOKE PARTITION
- 1 HOUR FIRE RESISTIVE ASSEMBLY
- 2 HOUR FIRE RESISTIVE ASSEMBLY
- 3 HOUR FIRE RESISTIVE ASSEMBLY
- (E) 1 HOUR FIRE RESISTIVE ASSEMBLY PER PRIOR APPROVED BUILDING PERMIT
- (E) 2 HOUR FIRE RESISTIVE ASSEMBLY PER PRIOR APPROVED BUILDING PERMIT
- (E) 3 HOUR FIRE RESISTIVE ASSEMBLY PER PRIOR APPROVED BUILDING PERMIT
- COMMON PATH OF TRAVEL OR EXIT ACCESS TRAVEL, AS NOTED
- EED — EMERGENCY EXIT DISCHARGE (EED)
- EXIT — EXIT ENCLOSURE
- ACCESSIBLE AREA OF REFUGE
- EXIT SIGN, REFER TO RCP'S FOR EXACT LOCATIONS
- AOR — AREA OF REFUGE SIGN, REFER TO RCP'S FOR EXACT LOCATIONS
- FEC — FIRE EXTINGUISHER CABINET
- (E)FEC — EXISTING FIRE EXTINGUISHER CABINET
- 101 — DOOR TAG
- **AREA NAME** B | SF | 1:OLF | OCC. LOAD — ROOM TAG
- 100 / 220 — STAIR TAG

DOOR EXIT LOAD | DOOR OCCUPANT CAPACITY

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

LIFE SAFETY PLANS

G212

GENERAL NOTES

1. UNLESS NOTED AS "MIN" OR "MAX", DIMENSIONS SHOWN ARE ABSOLUTE. DIMENSIONS SHOWN HERE SHALL GOVERN THE INSTALLATION OF ALL ACCESSIBLE FIXTURES AND ACCESSORIES, UNLESS MORE SPECIFIC DIMENSIONS ARE SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS THAT ARE WITHIN THE PERMISSIBLE LIMITS SHOWN HERE.
2. MOUNTING HEIGHTS OF RESTROOM FIXTURES AND ACCESSORIES. PROVIDE BACKING AT ALL WALL MOUNTED FIXTURES AND EQUIPMENT.

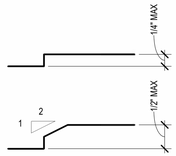
ADA STANDARDS

ICC A117.1-2017

(SEE SHEET 400 TYPICAL MOUNTING LOCATIONS FOR PROJECT SPECIFIC MOUNTING INSTRUCTIONS TO BE IN COMPLIANCE WITH ADA STANDARDS)

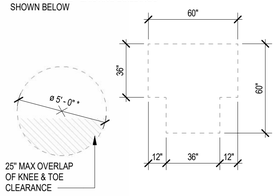
CHAPTER 3 - BUILDING BLOCKS

302
FLOOR OR GROUND SURFACES



CHANGES IN LEVEL GREATER THAN 1/2" HIGH SHALL BE RAMPED

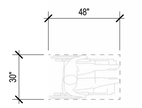
304
TURNING SPACE * EXISTING BUILDINGS SHOWN BELOW



25" MAX OVERLAP OF KNEE & TOE CLEARANCE

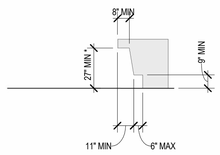
* EXISTING BUILDINGS. NEW BUILDINGS 67" MIN 10" MAX OVERLAP

305
CLEAR FLOOR OR GROUND SPACE
* EXISTING BUILDINGS SHOWN BELOW



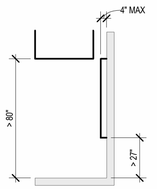
NEW BUILDINGS 52" X 30" MIN

306
KNEE AND TOE CLEARANCE

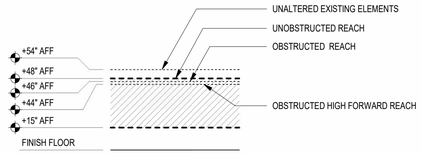


TOE CLEARANCE SHALL BE 30" WIDE MINIMUM

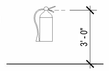
307
PROTRUDING OBJECTS



308
REACH RANGES



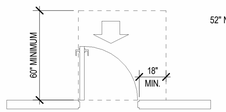
N/A
PORTABLE FIRE EXTINGUISHER



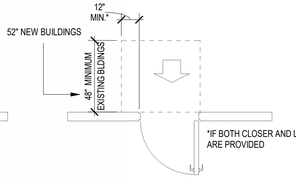
MOUNTING HEIGHT

CHAPTER 4 - ACCESSIBLE ROUTES

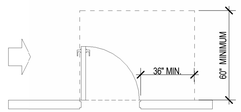
404
DOORS, DOORWAYS, AND GATES



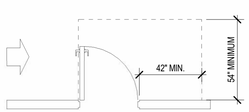
(A) FRONT APPROACH, PULL SIDE SWINGING DOOR



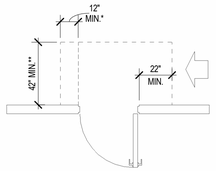
(B) FRONT APPROACH, PUSH SIDE - SWINGING DOOR



(C) HINGE APPROACH, PULL SIDE - SWINGING DOOR

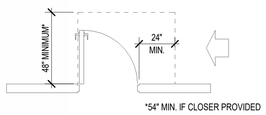


(D) HINGE APPROACH, PULL SIDE - SWINGING DOOR



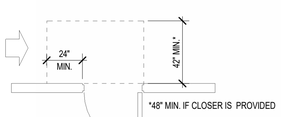
(E) HINGE APPROACH, PUSH SIDE - SWINGING DOOR

*IF BOTH CLOSER AND LATCH ARE PROVIDED
**48" MIN. IF BOTH CLOSER AND LATCH PROVIDED



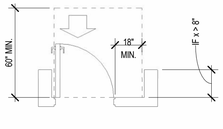
*54" MIN. IF CLOSER PROVIDED

(F) LATCH APPROACH, PULL SIDE - SWINGING DOOR



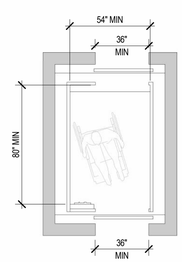
*48" MIN. IF CLOSER IS PROVIDED

(G) LATCH APPROACH, PUSH SIDE - SWINGING DOOR

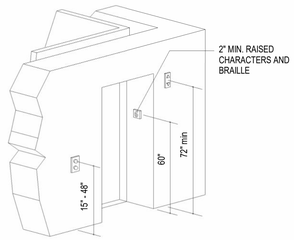


(A) PULL SIDE RECESSED DOOR

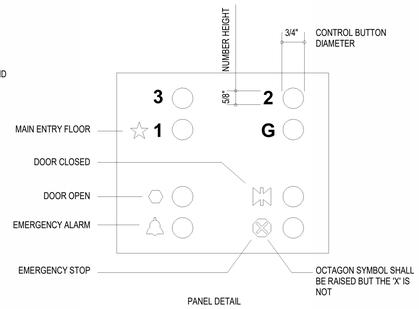
407
ELEVATORS



407.4.1 (C) ANY DOOR LOCATION

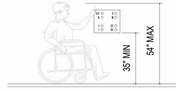


HOISTWAY AND ELEVATOR ENTRANCES PER SECTION 407.2.1.1 & 407.2.2.2



PANEL DETAIL

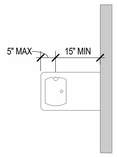
PER SECTION 407.2 ELEVATOR LANDING REQUIREMENTS



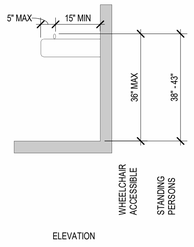
CAR CONTROL HEIGHT

CHAPTER 6 - PLUMBING ELEMENTS AND FACILITIES

602
DRINKING FOUNTAINS



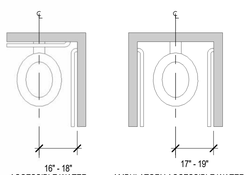
PLAN



ELEVATOR

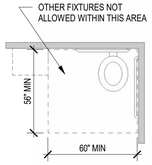
602.5 DRINKING SPOUT LOCATION

604
WATER CLOSET AND TOILET COMPARTMENTS

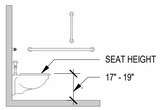


ACCESSIBLE WATER CLOSETS
AMBULATORY ACCESSIBLE WATER CLOSETS

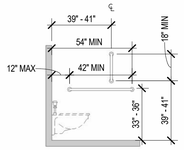
604.2 WATER CLOSET LOCATION



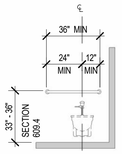
604.3 SIZE OF CLEARANCE FOR WATER CLOSET



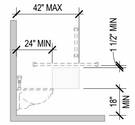
604.4 WATER CLOSET SEAT HEIGHT



604.5.1 WALL GRAB BAR FOR WATER CLOSET

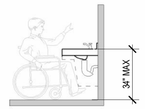


604.5.2 REAR WALL GRAB BAR FOR WATER CLOSET

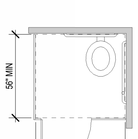


604.7 (A) PROTRUDING DISPENSER BELOW GRAB BAR OUTLET LOCATION

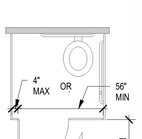
606
LAVATORIES AND SINKS

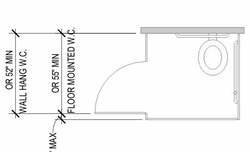


606.3 HEIGHT OF LAVATORIES AND SINKS

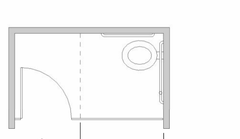


(A) FRONT PARTITION

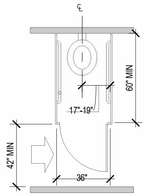




(B) SIDE WALL OR PARTITION



(C) WHEELCHAIR ACCESSIBLE COMPARTMENT DOOR OPENINGS - ALTERNATE



604.10 AMBULATORY ACCESSIBLE COMPARTMENT

602.9.2 (A) WALL-HUNG WATER CLOSET - ADULT

604.9.3.1 WHEELCHAIR ACCESSIBLE COMPARTMENT DOOR OPENINGS

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

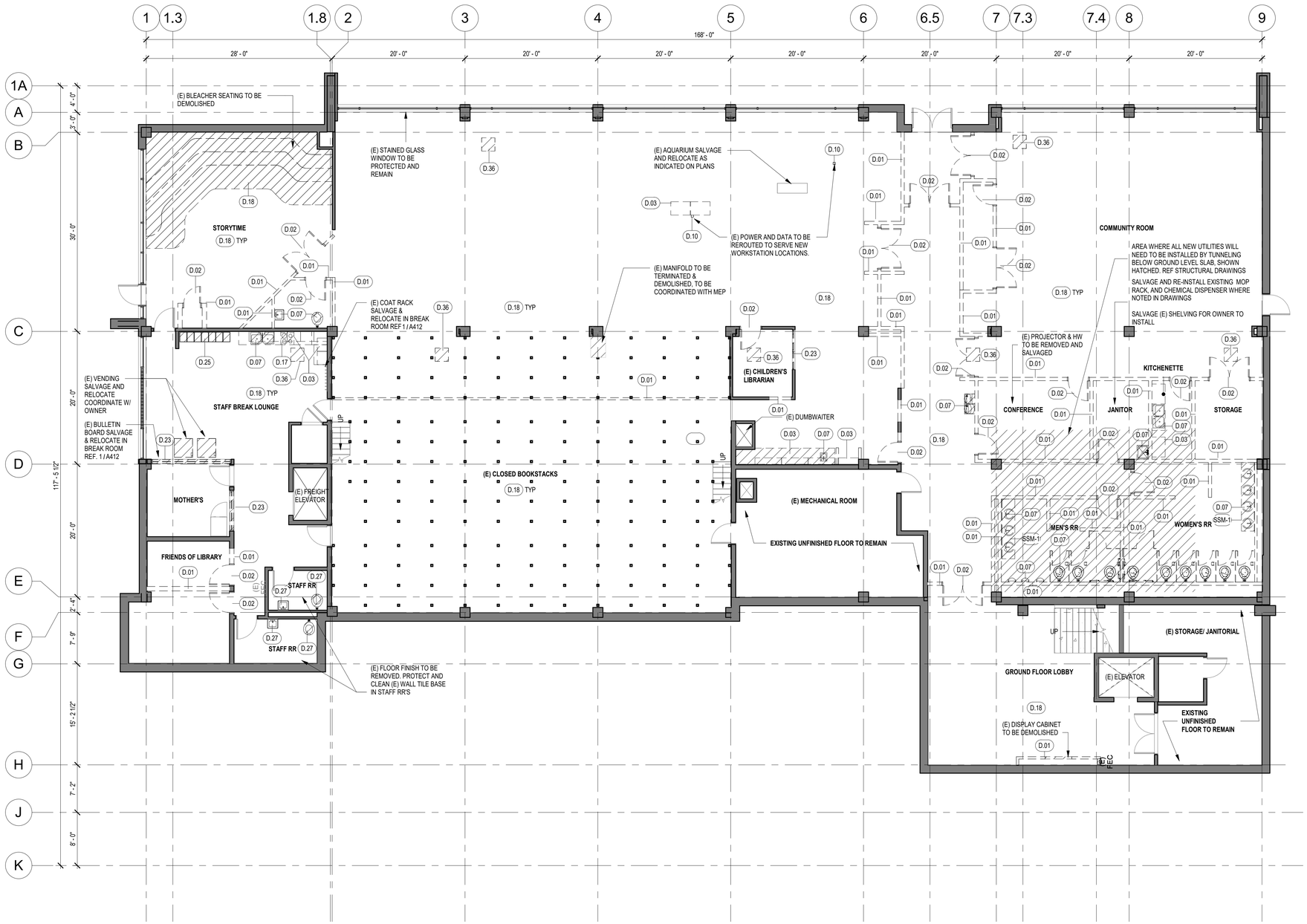
REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

ACCESSIBILITY
G230



1 AD101 **GROUND FLOOR DEMO PLAN**

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. VERIFY ALL DIMENSIONS/CONDITIONS IN THE FIELD BEFORE BEGINNING WORK.
2. REFER TO SECTION 02 80 00 – FACILITY REMEDIATION, 02 82 00- ASBESTOS ABATEMENT, 02 83 00 - LEAD PAINT CONTROLS, AND APPENDIX A FOR LIMITED HAZARDOUS MATERIALS REPORT FOR IDENTIFIED MATERIALS, LOCATION, HANDLING, REMOVAL, AND ABATEMENT REQUIREMENTS DURING DEMOLITION.
3. ELEMENTS SHOWN DASHED OR NOTED TO BE DEMOLISHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY, UNO. THE NATURE AND EXTENT OF DEMOLITION WORK SHOWN ON DRAWINGS IS APPROXIMATE AND IS INTENDED TO CONVEY OVERALL SCOPE AND DESIGN INTENT. NOT ALL ELEMENTS TO BE DEMOLISHED OR REMOVED ARE INDICATED GRAPHICALLY ON PLANS. THE CONTRACTOR MUST REFER TO THE GENERAL DEMOLITION NOTES AND KEYNOTES AND ALL RELEVANT SPECIFICATION SECTIONS TO UNDERSTAND THE COMPLETE SCOPE OF THE DEMOLITION WORK.
4. THE CONTRACTOR SHALL COORDINATE THE PRECISE NATURE AND EXTENT OF ALL DEMOLITION AS REQUIRED TO ACCEPT ALL NEW WORK OF ALL DISCIPLINES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
5. DESCRIPTION OF DEMOLITION WORK IS APPROXIMATE AND FIELD CONDITIONS MAY VARY. SHOULD SIGNIFICANT DIFFERENCES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS BE DISCOVERED DURING THE COURSE OF FIELD VERIFICATION, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT BEFORE PERFORMING ANY WORK.
6. AT REMOVED OR DEMOLISHED ITEMS AND/OR BUILDING COMPONENTS, PATCH AND REPAIR EXISTING SURFACES TO REMAIN. PATCH AND REPAIR WORK IS TO MATCH SUBSTRATE AND FINISHES OF EXISTING ADJACENT SURFACES.
7. CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING, INCLUDING ANY ASSOCIATED ENGINEERING WORK, AS REQUIRED IN ORDER TO COMPLETE THE DEMOLITION WORK.
8. CONTRACTOR TO PROVIDE PROTECTION FOR EXISTING STRUCTURE TO REMAIN.
9. COORDINATE WALL AND CEILING REPAIR WITH PLUMBING DRAWINGS, WHERE EXISTING FIXTURES ARE TO BE REPLACED.
10. COORDINATE REMOVAL, PROTECTION, AND REPLACEMENT OF FINISHES WITH ACCESS REQUIREMENTS FOR OTHER DISCIPLINES.
11. REFER TO SPECIFICATIONS AND COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THAT DEMOLITION WASTE IS TRACKED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELATED L.E.E.D. CREDITS THE PROJECT IS PURSUING.
12. ALL ABANDONED UTILITY LINES TO BE TERMINATED AND PROTECTED AS REQUIRED TO CONNECT WITH NEW WORK. ALL UTILITY LINES NO LONGER IN SERVICE TO BE REMOVED. UTILITY LINES TO BE REMOVED TO BE COORDINATED WITH OWNER.
13. BUILDING DEMOLITION SHALL INCLUDE:
    A. REMOVE ALL EXISTING INDICATED INTERIOR PARTITIONS, FINISHES, INSULATION, DOORS + FRAMES, AND CEILINGS. REMOVAL OF INTERIOR PARTITIONS INCLUDES ITEMS MOUNTED TO AND IN PARTITION SUCH AS CONDUIT/ ELECTRICAL DEVICES, WALL BASE, TRIM, SIGNAGE, ETC. REMOVAL OF INTERIOR CEILINGS INCLUDES ITEMS MOUNTED TO, IN, AND ABOVE CEILINGS SUCH AS CONDUIT/ ELECTRICAL DEVICES, TRIM, SIGNAGE, BATT INSULATION, ETC.
    B. REMOVE, CLEAN AND SALVAGE EXISTING FIRE ALARM SYSTEM, AND VAPOR/SMOKE DETECTORS TO BE REINSTALLED.
    C. REMOVE ALL INDICATED EXISTING INTERIOR LIGHT FIXTURES, PLUMBING FIXTURES, ELECTRICAL PANELS, MECHANICAL EQUIPMENT, PIPING AND CONDUIT, UNLESS NOTED OTHERWISE ON MECHANICAL AND ELECTRICAL DRAWINGS.
    E. CONTRACTOR TO PATCH ALL ABANDONED PENETRATIONS THROUGH EXISTING SLAB, INCLUDING BUT NOT LIMITED TO FLOOR DRAINS, TRENCH DRAINS, STUB OUTS, EXTERIOR ENVELOPE, ETC.
    F. CONTRACTOR TO REMOVE ALL FLOOR FINISHES, UNO, AND PREPARE SUBSTRATE TO RECEIVE NEW FLOOR FINISHES, UNO
14. IN GENERAL, AND UNLESS NOTED OTHERWISE, ALL LOOSE BUILDING CONTENTS SUCH AS FURNITURE AND STORED ITEMS SHALL BE REMOVED BY THE OWNER.
15. ALL ITEMS ATTACHED TO WALLS ARE TO BE REMOVED AND SALVAGED UNLESS NOTED OTHERWISE

15. ALL EXISTING ABRASIVE WALL FINISHES TO BE SANDED SMOOTH AHEAD OF WALL RECEIVING FINAL FINISH

DEMOLITION PLAN LEGEND

- EXISTING WALLS TO REMAIN
- EXISTING CEILING/SLAB TO BE DEMOLISHED
- EXISTING WALLS TO BE DEMOLISHED
- EXISTING DOORS TO REMAIN
- EXISTING DOORS TO BE DEMOLISHED
- EXISTING ELEMENT TO BE DEMOLISHED
- LIMIT OF WORK

DEMOLITION KEYNOTES	
Key Value	Keynote Text
D.01	EXISTING INTERIOR PARTITION, DOOR AND FRAME ASSEMBLY, INTERIOR GLAZING/RELITE ASSEMBLIES TO BE DEMOLISHED AND REMOVED
D.02	EXISTING DOOR TO BE DEMOLISHED AND REMOVED
D.03	EXISTING CASEWORK TO BE DEMOLISHED AND REMOVED
D.05	EXISTING CEILING TILE & GRID SYSTEM TO BE DEMOLISHED AND REMOVED
D.06	EXISTING LIGHT FIXTURE TO BE DEMOLISHED AND REMOVED
D.07	EXISTING PLUMBING FIXTURE AND PIPING TO BE DEMOLISHED AND REMOVED. COORDINATE WITH PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.09	EXISTING RETURN/EXHAUST GRILLE TO BE DEMOLISHED AND REMOVED
D.10	EXISTING DATA DROP TO BE DEMOLISHED AND REMOVED
D.14	EXISTING STAIR FINISH TO BE DEMOLISHED REMOVED
D.15	EXISTING GUARDRAIL TO BE DEMOLISHED AND REMOVED
D.16	EXISTING SHELVING TO BE REMOVED AND REUSED
D.17	EXISTING APPLIANCES TO BE DEMOLISHED AND REMOVED
D.18	EXISTING FLOOR FINISHES AND RUBBER BASES TO BE REMOVED. PREPARE FLOOR SLAB AND WALL BASE TO RECEIVE NEW FINISHES. COORDINATE REMOVAL OF ANY HAZARDOUS MATERIALS
D.20	EXISTING DATA RACKS TO BE SALVAGED & MOVED
D.23	EXISTING WINDOW DEMO PATCH AND FILL
D.25	EXISTING LOCKERS TO BE DEMOLISHED AND REMOVED
D.26	EXISTING FRIDGE TO BE SALVAGED AND REPLACED
D.27	EXISTING PLUMBING FIXTURE TO BE DEMOED AND REPLACED
D.29	EXISTING COUNTERTOP TO BE REMOVED AND SALVAGED
D.30	EXISTING DRAIN TO BE DEMOLISHED AND REMOVED PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.31	EXISTING TOILET TO BE REMOVED AND SALVAGED
D.32	EXISTING SIGNAGE TO BE REMOVED, SALVAGED AND REPLACED IN PLACE
D.33	EXISTING LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH UPDAGED FIXTURES REF TO LIGHTING PLANS
D.34	DEMOLISH AND PATCH WALL SHELVING
D.35	EXTERIOR FURRING WALL AND PLASTIC LAMINATE CAP TO REMAIN
D.36	EXISTING RADIANT FLOOR PITS ADD PIT COVERS INFILL W/ STRUCTRUAL FOAM AND CONCRETE TOPPING REF TO STRUCTURAL DRAWINGS
D.37	DEMO AND REMOVE EXISTING FIRE EXTINGUISHER CABINET. PATCH AND FILL WALL TO BE READY TO PAINT. REMOVE, SALVAGE, AND RE-INSTALL EXISTING SIGNAGE AS INDICATED IN PLANS

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

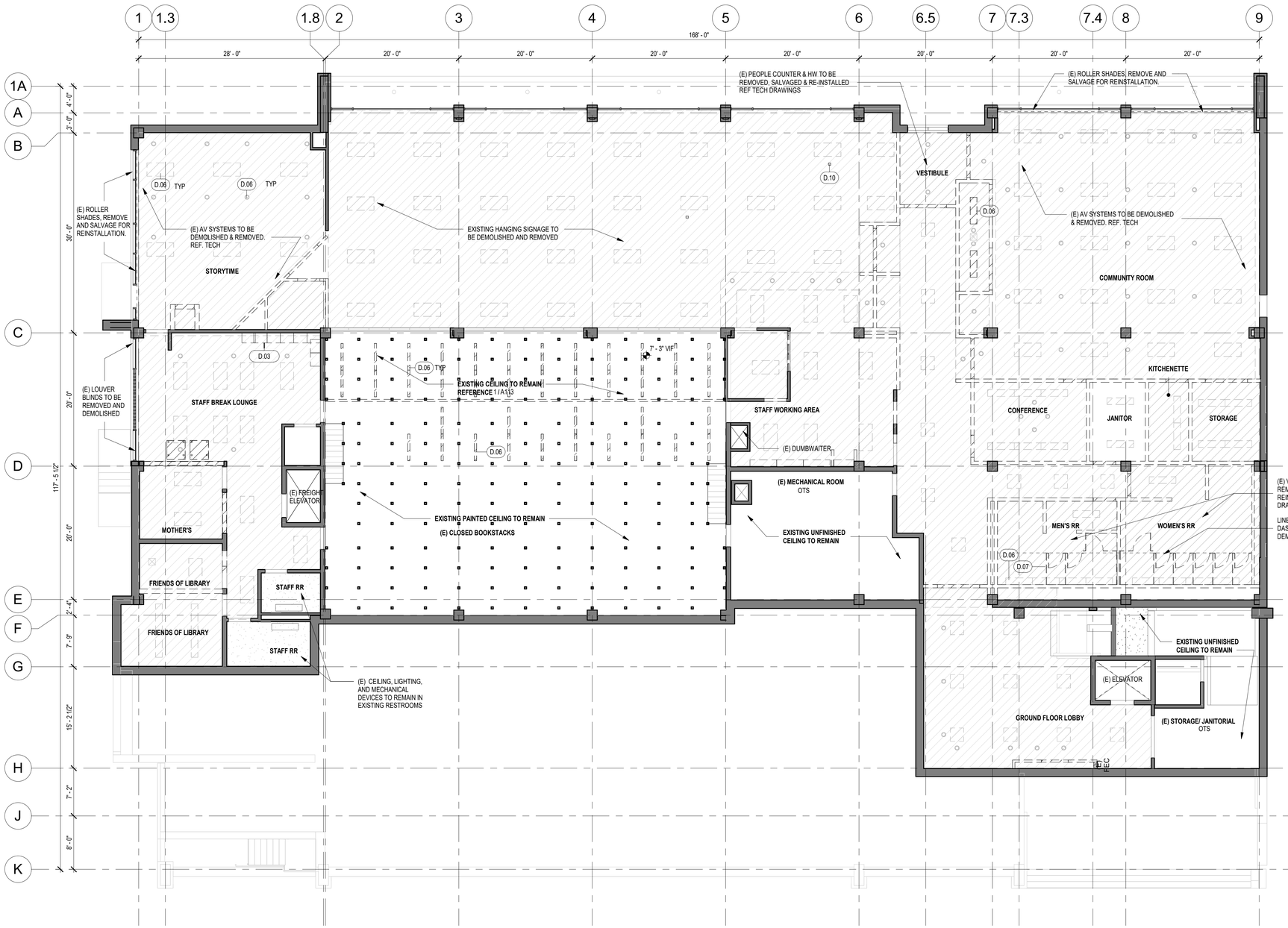
No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND LEVEL DEMO PLAN
AD101



1 AD102 **GROUND FLOOR RCP DEMO**

1/8" = 1'-0"

GENERAL RCP DEMOLITION NOTES

1. ELEMENTS SHOWN DASHED OR NOTED TO BE DEMOLISHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY, UNO. THE NATURE AND EXTENT OF DEMOLITION WORK SHOWN ON DRAWINGS IS APPROXIMATE AND IS INTENDED TO CONVEY OVERALL SCOPE AND DESIGN INTENT. NOT ALL ELEMENTS TO BE DEMOLISHED OR REMOVED ARE INDICATED GRAPHICALLY ON PLANS. THE CONTRACTOR MUST REFER TO THE GENERAL DEMOLITION NOTES AND KEYNOTES AND ALL RELEVANT SPECIFICATION SECTIONS TO UNDERSTAND THE COMPLETE SCOPE OF THE DEMOLITION WORK.
2. REFER TO SECTION 02 80 00 – FACILITY REMEDIATION, 02 82 00- ASBESTOS ABATEMENT, 02 83 00 - LEAD PAINT CONTROLS, AND APPENDIX A FOR LIMITED HAZARDOUS MATERIALS REPORT FOR IDENTIFIED MATERIALS, LOCATION, HANDLING, REMOVAL, AND ABATEMENT REQUIREMENTS DURING DEMOLITION.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
4. REFER TO SPECIFICATIONS AND COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THAT DEMOLITION WASTE IS TRACKED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELATED L.E.E.D. CREDITS THE PROJECT IS PURSUING.
5. ALL ABANDONED UTILITY LINES TO BE TERMINATED AND PROTECTED AS REQUIRED TO CONNECT WITH NEW WORK.
6. REMOVE SUSPENSION WIRES, GRIDS AND CEILING TILES IN AREAS WITH ACOUSTICAL CEILING TILES TO BE REMOVED.
7. THE CONTRACTOR SHALL COORDINATE THE PRECISE NATURE AND EXTENT OF ALL DEMOLITION AS REQUIRED TO ACCEPT ALL NEW WORK OF ALL DISCIPLINES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
8. EXISTING SIGNAGE TO BE REMOVED, AND SALVAGED RE-USED, & RELOCATED AT DESIGNATED WORK AREAS PER ARCH
9. ALL EXISTING SECURITY MIRRORS TO BE REMOVED SALVAGED AND REINSTALLED IN SAME LOCATION UNO
10. ALL EXISTING EXIT SIGNS TO REMAIN IN PLACE UNO. WHERE CEILING FINISH IS BEING REMOVED, REMOVE, SALVAGE, AND REINSTALL AS INDICATED ON ARCHITECTURAL PLANS
11. ALL EXISTING PA SYSTEM AND WIRING TO BE PRESERVED REFER TO TECHNOLOGY DRAWINGS
12. ALL EXISTING SECURITY CAMERAS TO BE REMOVED SALVAGED AND REINSTALLED AS NOTED IN TECHNOLOGY DRAWINGS

DEMOLITION RCP LEGEND

- EXISTING WALLS TO REMAIN
- EXISTING CEILING/SLAB TO BE DEMOLISHED
- EXISTING WALLS TO BE DEMOLISHED
- EXISTING LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING RETURN/EXHAUST TO BE DEMOLISHED
- EXISTING ELEMENT TO BE DEMOLISHED
- LIMIT OF WORK

DEMOLITION KEYNOTES	
Key Value	Keynote Text
D.01	EXISTING INTERIOR PARTITION, DOOR AND FRAME ASSEMBLY, INTERIOR GLAZING/RELITE ASSEMBLIES TO BE DEMOLISHED AND REMOVED
D.02	EXISTING DOOR TO BE DEMOLISHED AND REMOVED
D.03	EXISTING CASEWORK TO BE DEMOLISHED AND REMOVED
D.05	EXISTING CEILING TILE & GRID SYSTEM TO BE DEMOLISHED AND REMOVED
D.06	EXISTING LIGHT FIXTURE TO BE DEMOLISHED AND REMOVED
D.07	EXISTING PLUMBING FIXTURE AND PIPING TO BE DEMOLISHED AND REMOVED. COORDINATE WITH PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.09	EXISTING RETURN/EXHAUST GRILLE TO BE DEMOLISHED AND REMOVED
D.10	EXISTING DATA DROP TO BE DEMOLISHED AND REMOVED
D.14	EXISTING STAIR FINISH TO BE DEMOLISHED REMOVED
D.15	EXISTING GUARDRAIL TO BE DEMOLISHED AND REMOVED
D.16	EXISTING SHELVING TO BE REMOVED AND REUSED
D.17	EXISTING APPLIANCES TO BE DEMOLISHED AND REMOVED
D.18	EXISTING FLOOR FINISHES AND RUBBER BASES TO BE REMOVED. PREPARE FLOOR SLAB AND WALL BASE TO RECEIVE NEW FINISHES. COORDINATE REMOVAL OF ANY HAZARDOUS MATERIALS
D.20	EXISTING DATA RACKS TO BE SALVAGED & MOVED
D.23	EXISTING WINDOW DEMO PATCH AND FILL
D.25	EXISTING LOCKERS TO BE DEMOLISHED AND REMOVED
D.26	EXISTING FRIDGE TO BE SALVAGED AND REPLACED
D.27	EXISTING PLUMBING FIXTURE TO BE DEMOED AND REPLACED
D.29	EXISTING COUNTERTOP TO BE REMOVED AND SALVAGED
D.30	EXISTING DRAIN TO BE DEMOLISHED AND REMOVED PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.31	EXISTING TOILET TO BE REMOVED AND SALVAGED
D.32	EXISTING SIGNAGE TO BE REMOVED, SALVAGED AND REPLACED IN PLACE
D.33	EXISTING LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH UPDAGED FIXTURES REF TO LIGHTING PLANS
D.34	DEMOLISH AND PATCH WALL SHELVING
D.35	EXTERIOR FURRING WALL AND PLASTIC LAMINATE CAP TO REMAIN
D.36	EXISTING RADIANT FLOOR PITS ADD PIT COVERS INFILL W/ STRUCTRUAL FOAM AND CONCRETE TOPPING REF TO STRUCTURAL DRAWINGS
D.37	DEMO AND REMOVE EXISTING FIRE EXTINGUISHER CABINET. PATCH AND FILL WALL TO BE READY TO PAINT. REMOVE, SALVAGE, AND RE-INSTALL EXISTING SIGNAGE AS INDICATED IN PLANS

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

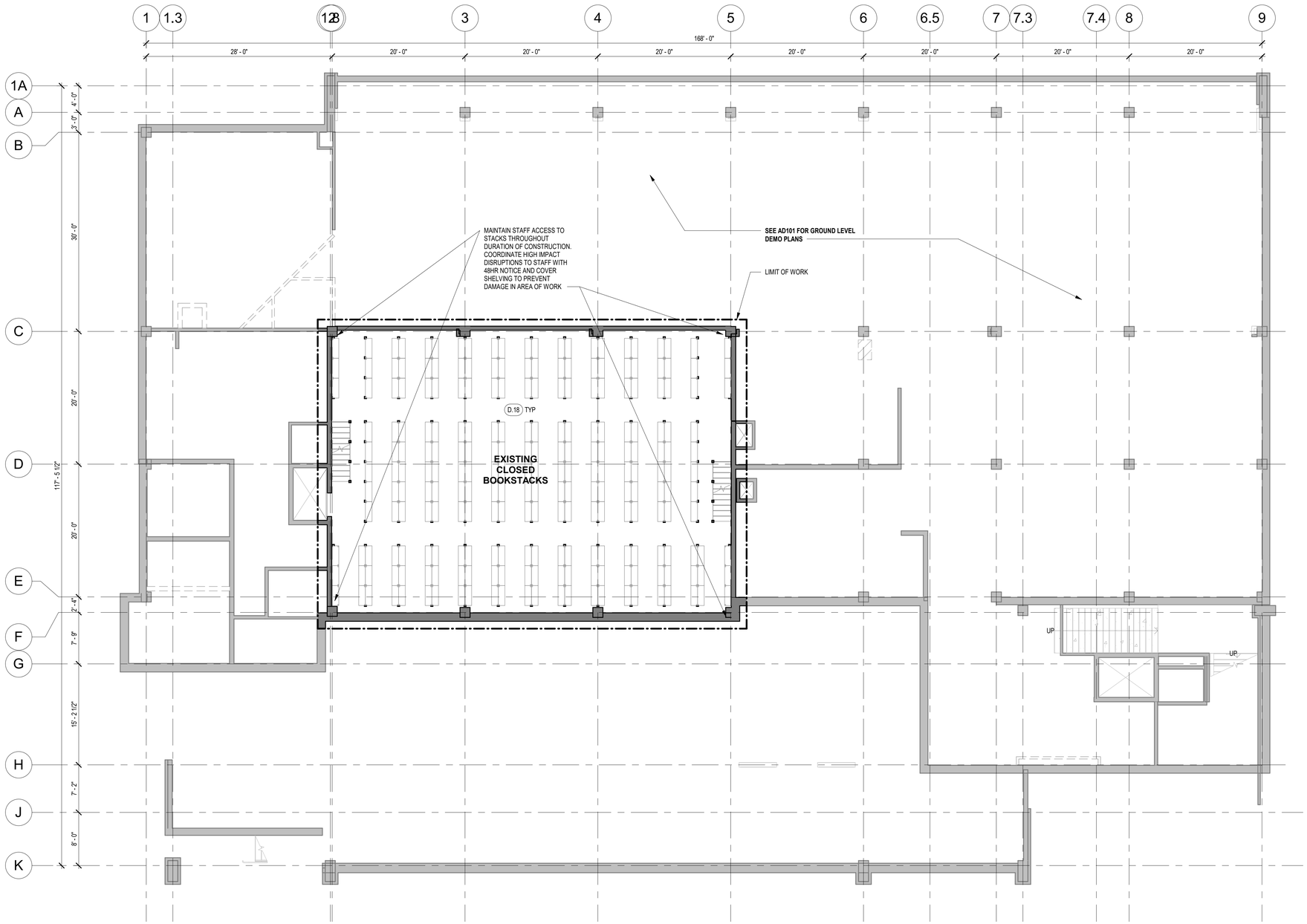
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR DEMO RCP

AD102



1 AD111 **GROUND FLOOR MEZZANINE DEMO PLAN**

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. VERIFY ALL DIMENSIONS/CONDITIONS IN THE FIELD BEFORE BEGINNING WORK.
2. REFER TO SECTION 02 80 00 – FACILITY REMEDIATION, 02 82 00- ASBESTOS ABATEMENT, 02 83 00 - LEAD PAINT CONTROLS, AND APPENDIX A FOR LIMITED HAZARDOUS MATERIALS REPORT FOR IDENTIFIED MATERIALS, LOCATION, HANDLING, REMOVAL, AND ABATEMENT REQUIREMENTS DURING DEMOLITION.
3. ELEMENTS SHOWN DASHED OR NOTED TO BE DEMOLISHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY, UNO. THE NATURE AND EXTENT OF DEMOLITION WORK SHOWN ON DRAWINGS IS APPROXIMATE AND IS INTENDED TO CONVEY OVERALL SCOPE AND DESIGN INTENT. NOT ALL ELEMENTS TO BE DEMOLISHED OR REMOVED ARE INDICATED GRAPHICALLY ON PLANS. THE CONTRACTOR MUST REFER TO THE GENERAL DEMOLITION NOTES AND KEYNOTES AND ALL RELEVANT SPECIFICATION SECTIONS TO UNDERSTAND THE COMPLETE SCOPE OF THE DEMOLITION WORK.
4. THE CONTRACTOR SHALL COORDINATE THE PRECISE NATURE AND EXTENT OF ALL DEMOLITION AS REQUIRED TO ACCEPT ALL NEW WORK OF ALL DISCIPLINES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
5. DESCRIPTION OF DEMOLITION WORK IS APPROXIMATE AND FIELD CONDITIONS MAY VARY. SHOULD SIGNIFICANT DIFFERENCES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS BE DISCOVERED DURING THE COURSE OF FIELD VERIFICATION, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT BEFORE PERFORMING ANY WORK.
6. AT REMOVED OR DEMOLISHED ITEMS AND/OR BUILDING COMPONENTS, PATCH AND REPAIR EXISTING SURFACES TO REMAIN. PATCH AND REPAIR WORK IS TO MATCH SUBSTRATE AND FINISHES OF EXISTING ADJACENT SURFACES.
7. CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING, INCLUDING ANY ASSOCIATED ENGINEERING WORK, AS REQUIRED IN ORDER TO COMPLETE THE DEMOLITION WORK.
8. CONTRACTOR TO PROVIDE PROTECTION FOR EXISTING STRUCTURE TO REMAIN.
9. COORDINATE WALL AND CEILING REPAIR WITH PLUMBING DRAWINGS, WHERE EXISTING FIXTURES ARE TO BE REPLACED.
10. COORDINATE REMOVAL, PROTECTION, AND REPLACEMENT OF FINISHES WITH ACCESS REQUIREMENTS FOR OTHER DISCIPLINES.
11. REFER TO SPECIFICATIONS AND COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THAT DEMOLITION WASTE IS TRACKED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELATED L.E.E.D. CREDITS THE PROJECT IS PURSUING.
12. ALL ABANDONED UTILITY LINES TO BE TERMINATED AND PROTECTED AS REQUIRED TO CONNECT WITH NEW WORK. ALL UTILITY LINES NO LONGER IN SERVICE TO BE REMOVED. UTILITY LINES TO BE REMOVED TO BE COORDINATED WITH OWNER.
13. BUILDING DEMOLITION SHALL INCLUDE:
    A. REMOVE ALL EXISTING INDICATED INTERIOR PARTITIONS, FINISHES, INSULATION, DOORS + FRAMES, AND CEILINGS. REMOVAL OF INTERIOR PARTITIONS INCLUDES ITEMS MOUNTED TO AND IN PARTITION SUCH AS CONDUIT/ ELECTRICAL DEVICES, WALL BASE, TRIM, SIGNAGE, ETC. REMOVAL OF INTERIOR CEILINGS INCLUDES ITEMS MOUNTED TO, IN, AND ABOVE CEILINGS SUCH AS CONDUIT/ ELECTRICAL DEVICES, TRIM, SIGNAGE, BATT INSULATION, ETC.
    B. REMOVE, CLEAN AND SALVAGE EXISTING FIRE ALARM SYSTEM, AND VAPOR/SMOKE DETECTORS TO BE REINSTALLED.
    C. REMOVE ALL INDICATED EXISTING INTERIOR LIGHT FIXTURES, PLUMBING FIXTURES, ELECTRICAL PANELS, MECHANICAL EQUIPMENT, PIPING AND CONDUIT, UNLESS NOTED OTHERWISE ON MECHANICAL AND ELECTRICAL DRAWINGS.
    E. CONTRACTOR TO PATCH ALL ABANDONED PENETRATIONS THROUGH EXISTING SLAB, INCLUDING BUT NOT LIMITED TO FLOOR DRAINS, TRENCH DRAINS, STUB OUTS, EXTERIOR ENVELOPE, ETC.
    F. CONTRACTOR TO REMOVE ALL FLOOR FINISHES, UNO, AND PREPARE SUBSTRATE TO RECEIVE NEW FLOOR FINISHES, UNO
14. IN GENERAL, AND UNLESS NOTED OTHERWISE, ALL LOOSE BUILDING CONTENTS SUCH AS FURNITURE AND STORED ITEMS SHALL BE REMOVED BY THE OWNER.
15. ALL ITEMS ATTACHED TO WALLS ARE TO BE REMOVED AND SALVAGED UNLESS NOTED OTHERWISE

15. ALL EXISTING ABRASIVE WALL FINISHES TO BE SANDED SMOOTH AHEAD OF WALL RECEIVING FINAL FINISH

DEMOLITION PLAN LEGEND

- EXISTING WALLS TO REMAIN
- EXISTING CEILING/SLAB TO BE DEMOLISHED
- EXISTING WALLS TO BE DEMOLISHED
- EXISTING DOORS TO REMAIN
- EXISTING DOORS TO BE DEMOLISHED
- EXISTING ELEMENT TO BE DEMOLISHED
- LIMIT OF WORK

DEMOLITION KEYNOTES	
Key Value	Keynote Text
D.01	EXISTING INTERIOR PARTITION, DOOR AND FRAME ASSEMBLY, INTERIOR GLAZING/RELITE ASSEMBLIES TO BE DEMOLISHED AND REMOVED
D.02	EXISTING DOOR TO BE DEMOLISHED AND REMOVED
D.03	EXISTING CASEWORK TO BE DEMOLISHED AND REMOVED
D.05	EXISTING CEILING TILE & GRID SYSTEM TO BE DEMOLISHED AND REMOVED
D.06	EXISTING LIGHT FIXTURE TO BE DEMOLISHED AND REMOVED
D.07	EXISTING PLUMBING FIXTURE AND PIPING TO BE DEMOLISHED AND REMOVED. COORDINATE WITH PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.09	EXISTING RETURN/EXHAUST GRILLE TO BE DEMOLISHED AND REMOVED
D.10	EXISTING DATA DROP TO BE DEMOLISHED AND REMOVED
D.14	EXISTING STAIR FINISH TO BE DEMOLISHED REMOVED
D.15	EXISTING GUARDRAIL TO BE DEMOLISHED AND REMOVED
D.16	EXISTING SHELVING TO BE REMOVED AND REUSED
D.17	EXISTING APPLIANCES TO BE DEMOLISHED AND REMOVED
D.18	EXISTING FLOOR FINISHES AND RUBBER BASES TO BE REMOVED. PREPARE FLOOR SLAB AND WALL BASE TO RECEIVE NEW FINISHES. COORDINATE REMOVAL OF ANY HAZARDOUS MATERIALS
D.20	EXISTING DATA RACKS TO BE SALVAGED & MOVED
D.23	EXISTING WINDOW DEMO PATCH AND FILL
D.25	EXISTING LOCKERS TO BE DEMOLISHED AND REMOVED
D.26	EXISTING FRIDGE TO BE SALVAGED AND REPLACED
D.27	EXISTING PLUMBING FIXTURE TO BE DEMOED AND REPLACED
D.29	EXISTING COUNTERTOP TO BE REMOVED AND SALVAGED
D.30	EXISTING DRAIN TO BE DEMOLISHED AND REMOVED PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.31	EXISTING TOILET TO BE REMOVED AND SALVAGED
D.32	EXISTING SIGNAGE TO BE REMOVED, SALVAGED AND REPLACED IN PLACE
D.33	EXISTING LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH UPDAGED FIXTURES REF TO LIGHTING PLANS
D.34	DEMOLISH AND PATCH WALL SHELVING
D.35	EXTERIOR FURRING WALL AND PLASTIC LAMINATE CAP TO REMAIN
D.36	EXISTING RADIANT FLOOR PITS ADD PIT COVERS INFILL W/ STRUCTRUAL FOAM AND CONCRETE TOPPING REF TO STRUCTURAL DRAWINGS
D.37	DEMO AND REMOVE EXISTING FIRE EXTINGUISHER CABINET. PATCH AND FILL WALL TO BE READY TO PAINT. REMOVE, SALVAGE, AND RE-INSTALL EXISTING SIGNAGE AS INDICATED IN PLANS

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

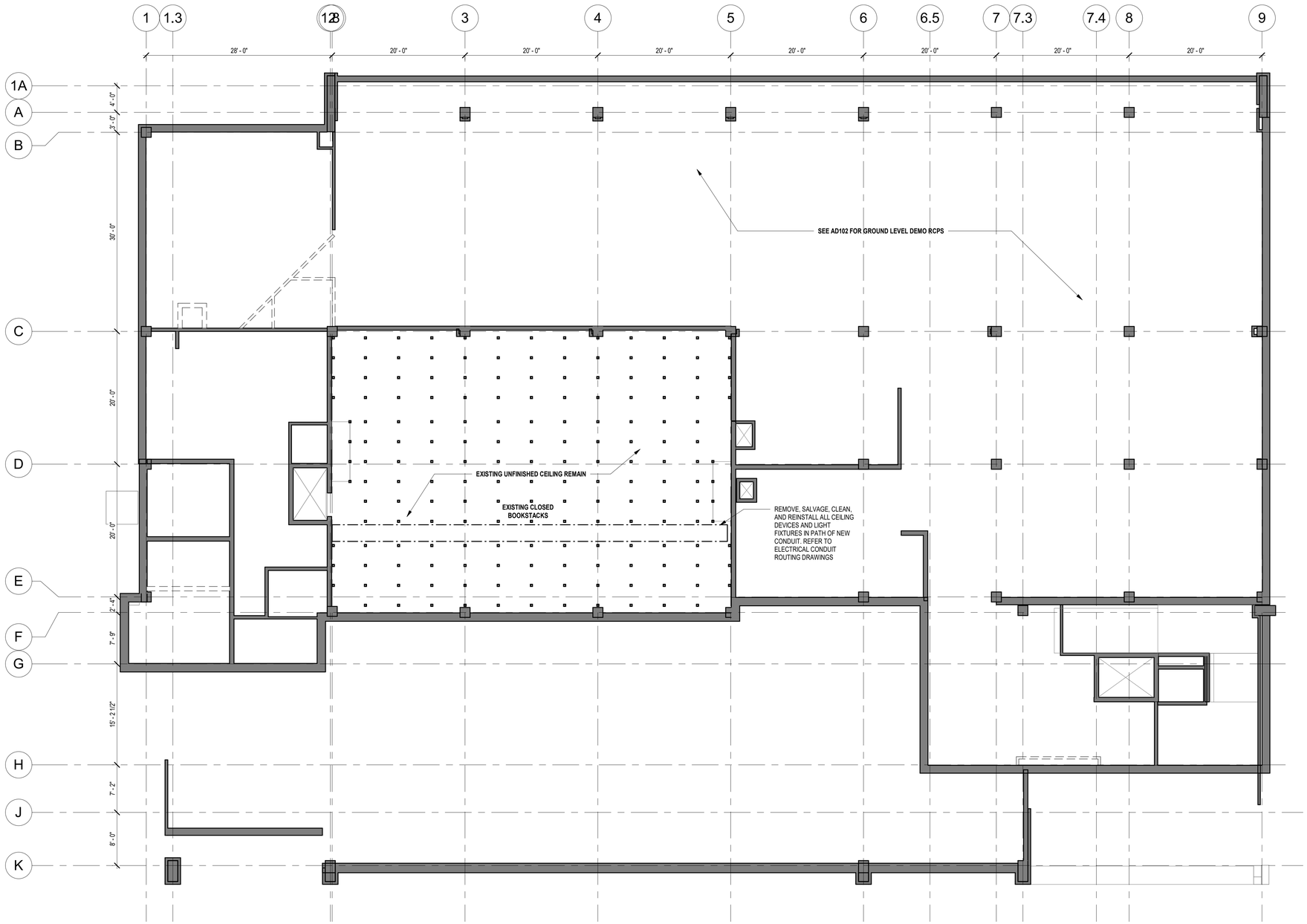
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR MEZZANINE DEMO PLAN

AD111



1 AD112 **GROUND FLOOR MEZZANINE RCP DEMO**

1/8" = 1'-0"

GENERAL RCP DEMOLITION NOTES

1. ELEMENTS SHOWN DASHED OR NOTED TO BE DEMOLISHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY, UNO. THE NATURE AND EXTENT OF DEMOLITION WORK SHOWN ON DRAWINGS IS APPROXIMATE AND IS INTENDED TO CONVEY OVERALL SCOPE AND DESIGN INTENT. NOT ALL ELEMENTS TO BE DEMOLISHED OR REMOVED ARE INDICATED GRAPHICALLY ON PLANS. THE CONTRACTOR MUST REFER TO THE GENERAL DEMOLITION NOTES AND KEYNOTES AND ALL RELEVANT SPECIFICATION SECTIONS TO UNDERSTAND THE COMPLETE SCOPE OF THE DEMOLITION WORK.
2. REFER TO SECTION 02 80 00 – FACILITY REMEDIATION, 02 82 00- ASBESTOS ABATEMENT, 02 83 00 - LEAD PAINT CONTROLS, AND APPENDIX A FOR LIMITED HAZARDOUS MATERIALS REPORT FOR IDENTIFIED MATERIALS, LOCATION, HANDLING, REMOVAL, AND ABATEMENT REQUIREMENTS DURING DEMOLITION.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
4. REFER TO SPECIFICATIONS AND COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THAT DEMOLITION WASTE IS TRACKED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELATED L.E.E.D. CREDITS THE PROJECT IS PURSUING.
5. ALL ABANDONED UTILITY LINES TO BE TERMINATED AND PROTECTED AS REQUIRED TO CONNECT WITH NEW WORK.
6. REMOVE SUSPENSION WIRES, GRIDS AND CEILING TILES IN AREAS WITH ACOUSTICAL CEILING TILES TO BE REMOVED.
7. THE CONTRACTOR SHALL COORDINATE THE PRECISE NATURE AND EXTENT OF ALL DEMOLITION AS REQUIRED TO ACCEPT ALL NEW WORK OF ALL DISCIPLINES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
8. EXISTING SIGNAGE TO BE REMOVED, AND SALVAGED RE-USED, & RELOCATED AT DESIGNATED WORK AREAS PER ARCH
9. ALL EXISTING SECURITY MIRRORS TO BE REMOVED SALVAGED AND REINSTALLED IN SAME LOCATION UNO
10. ALL EXISTING EXIT SIGNS TO REMAIN IN PLACE UNO. WHERE CEILING FINISH IS BEING REMOVED, REMOVE, SALVAGE, AND REINSTALL AS INDICATED ON ARCHITECTURAL PLANS
11. ALL EXISTING PA SYSTEM AND WIRING TO BE PRESERVED REFER TO TECHNOLOGY DRAWINGS
12. ALL EXISTING SECURITY CAMERAS TO BE REMOVED SALVAGED AND REINSTALLED AS NOTED IN TECHNOLOGY DRAWINGS

DEMOLITION RCP LEGEND

- EXISTING WALLS TO REMAIN
- EXISTING CEILING/SLAB TO BE DEMOLISHED
- EXISTING WALLS TO BE DEMOLISHED
- EXISTING LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING RETURN/EXHAUST TO BE DEMOLISHED
- EXISTING ELEMENT TO BE DEMOLISHED
- LIMIT OF WORK

DEMOLITION KEYNOTES	
Key Value	Keynote Text
D.01	EXISTING INTERIOR PARTITION, DOOR AND FRAME ASSEMBLY, INTERIOR GLAZING/RELITE ASSEMBLIES TO BE DEMOLISHED AND REMOVED
D.02	EXISTING DOOR TO BE DEMOLISHED AND REMOVED
D.03	EXISTING CASEWORK TO BE DEMOLISHED AND REMOVED
D.05	EXISTING CEILING TILE & GRID SYSTEM TO BE DEMOLISHED AND REMOVED
D.06	EXISTING LIGHT FIXTURE TO BE DEMOLISHED AND REMOVED
D.07	EXISTING PLUMBING FIXTURE AND PIPING TO BE DEMOLISHED AND REMOVED. COORDINATE WITH PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.09	EXISTING RETURN/EXHAUST GRILLE TO BE DEMOLISHED AND REMOVED
D.10	EXISTING DATA DROP TO BE DEMOLISHED AND REMOVED
D.14	EXISTING STAIR FINISH TO BE DEMOLISHED REMOVED
D.15	EXISTING GUARDRAIL TO BE DEMOLISHED AND REMOVED
D.16	EXISTING SHELVING TO BE REMOVED AND REUSED
D.17	EXISTING APPLIANCES TO BE DEMOLISHED AND REMOVED
D.18	EXISTING FLOOR FINISHES AND RUBBER BASES TO BE REMOVED. PREPARE FLOOR SLAB AND WALL BASE TO RECEIVE NEW FINISHES. COORDINATE REMOVAL OF ANY HAZARDOUS MATERIALS
D.20	EXISTING DATA RACKS TO BE SALVAGED & MOVED
D.23	EXISTING WINDOW DEMO PATCH AND FILL
D.25	EXISTING LOCKERS TO BE DEMOLISHED AND REMOVED
D.26	EXISTING FRIDGE TO BE SALVAGED AND REPLACED
D.27	EXISTING PLUMBING FIXTURE TO BE DEMOED AND REPLACED
D.29	EXISTING COUNTERTOP TO BE REMOVED AND SALVAGED
D.30	EXISTING DRAIN TO BE DEMOLISHED AND REMOVED PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.31	EXISTING TOILET TO BE REMOVED AND SALVAGED
D.32	EXISTING SIGNAGE TO BE REMOVED, SALVAGED AND REPLACED IN PLACE
D.33	EXISTING LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH UPDAGED FIXTURES REF TO LIGHTING PLANS
D.34	DEMOLISH AND PATCH WALL SHELVING
D.35	EXTERIOR FURRING WALL AND PLASTIC LAMINATE CAP TO REMAIN
D.36	EXISTING RADIANT FLOOR PITS ADD PIT COVERS INFILL W/ STRUCTRUAL FOAM AND CONCRETE TOPPING REF TO STRUCTURAL DRAWINGS
D.37	DEMO AND REMOVE EXISTING FIRE EXTINGUISHER CABINET. PATCH AND FILL WALL TO BE READY TO PAINT. REMOVE, SALVAGE, AND RE-INSTALL EXISTING SIGNAGE AS INDICATED IN PLANS

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

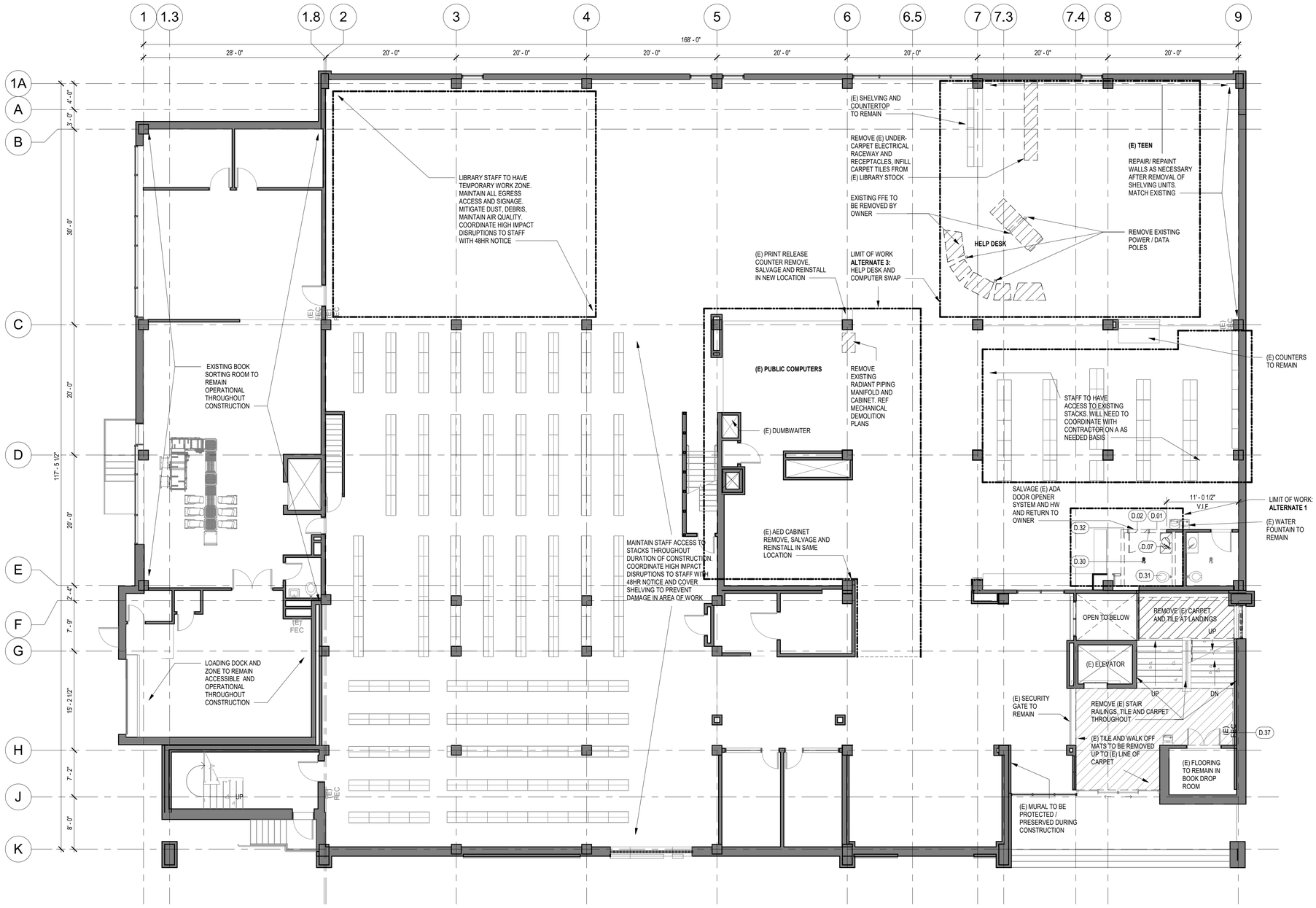
No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 08/07/26

SHEET
GROUND FLOOR MEZZANINE DEMO RCP

AD112



1 AD121 **FIRST FLOOR DEMO PLAN**

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. VERIFY ALL DIMENSIONS/CONDITIONS IN THE FIELD BEFORE BEGINNING WORK.
2. REFER TO SECTION 02 80 00 – FACILITY REMEDIATION, 02 82 00- ASBESTOS ABATEMENT, 02 83 00 - LEAD PAINT CONTROLS, AND APPENDIX A FOR LIMITED HAZARDOUS MATERIALS REPORT FOR IDENTIFIED MATERIALS, LOCATION, HANDLING, REMOVAL, AND ABATEMENT REQUIREMENTS DURING DEMOLITION.
3. ELEMENTS SHOWN DASHED OR NOTED TO BE DEMOLISHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY, UNO. THE NATURE AND EXTENT OF DEMOLITION WORK SHOWN ON DRAWINGS IS APPROXIMATE AND IS INTENDED TO CONVEY OVERALL SCOPE AND DESIGN INTENT. NOT ALL ELEMENTS TO BE DEMOLISHED OR REMOVED ARE INDICATED GRAPHICALLY ON PLANS. THE CONTRACTOR MUST REFER TO THE GENERAL DEMOLITION NOTES AND KEYNOTES AND ALL RELEVANT SPECIFICATION SECTIONS TO UNDERSTAND THE COMPLETE SCOPE OF THE DEMOLITION WORK.
4. THE CONTRACTOR SHALL COORDINATE THE PRECISE NATURE AND EXTENT OF ALL DEMOLITION AS REQUIRED TO ACCEPT ALL NEW WORK OF ALL DISCIPLINES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
5. DESCRIPTION OF DEMOLITION WORK IS APPROXIMATE AND FIELD CONDITIONS MAY VARY. SHOULD SIGNIFICANT DIFFERENCES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS BE DISCOVERED DURING THE COURSE OF FIELD VERIFICATION, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT BEFORE PERFORMING ANY WORK.
6. AT REMOVED OR DEMOLISHED ITEMS AND/OR BUILDING COMPONENTS, PATCH AND REPAIR EXISTING SURFACES TO REMAIN. PATCH AND REPAIR WORK IS TO MATCH SUBSTRATE AND FINISHES OF EXISTING ADJACENT SURFACES.
7. CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING, INCLUDING ANY ASSOCIATED ENGINEERING WORK, AS REQUIRED IN ORDER TO COMPLETE THE DEMOLITION WORK.
8. CONTRACTOR TO PROVIDE PROTECTION FOR EXISTING STRUCTURE TO REMAIN.
9. COORDINATE WALL AND CEILING REPAIR WITH PLUMBING DRAWINGS, WHERE EXISTING FIXTURES ARE TO BE REPLACED.
10. COORDINATE REMOVAL, PROTECTION, AND REPLACEMENT OF FINISHES WITH ACCESS REQUIREMENTS FOR OTHER DISCIPLINES.
11. REFER TO SPECIFICATIONS AND COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THAT DEMOLITION WASTE IS TRACKED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELATED L.E.E.D. CREDITS THE PROJECT IS PURSUING.
12. ALL ABANDONED UTILITY LINES TO BE TERMINATED AND PROTECTED AS REQUIRED TO CONNECT WITH NEW WORK. ALL UTILITY LINES NO LONGER IN SERVICE TO BE REMOVED. UTILITY LINES TO BE REMOVED TO BE COORDINATED WITH OWNER.
13. BUILDING DEMOLITION SHALL INCLUDE:
    A. REMOVE ALL EXISTING INDICATED INTERIOR PARTITIONS, FINISHES, INSULATION, DOORS + FRAMES, AND CEILINGS. REMOVAL OF INTERIOR PARTITIONS INCLUDES ITEMS MOUNTED TO AND IN PARTITION SUCH AS CONDUIT/ ELECTRICAL DEVICES, WALL BASE, TRIM, SIGNAGE, ETC. REMOVAL OF INTERIOR CEILINGS INCLUDES ITEMS MOUNTED TO, IN, AND ABOVE CEILINGS SUCH AS CONDUIT/ ELECTRICAL DEVICES, TRIM, SIGNAGE, BATT INSULATION, ETC.
    B. REMOVE, CLEAN AND SALVAGE EXISTING FIRE ALARM SYSTEM, AND VAPOR/SMOKE DETECTORS TO BE REINSTALLED.
    C. REMOVE ALL INDICATED EXISTING INTERIOR LIGHT FIXTURES, PLUMBING FIXTURES, ELECTRICAL PANELS, MECHANICAL EQUIPMENT, PIPING AND CONDUIT, UNLESS NOTED OTHERWISE ON MECHANICAL AND ELECTRICAL DRAWINGS.
    E. CONTRACTOR TO PATCH ALL ABANDONED PENETRATIONS THROUGH EXISTING SLAB, INCLUDING BUT NOT LIMITED TO FLOOR DRAINS, TRENCH DRAINS, STUB OUTS, EXTERIOR ENVELOPE, ETC.
    F. CONTRACTOR TO REMOVE ALL FLOOR FINISHES, UNO, AND PREPARE SUBSTRATE TO RECEIVE NEW FLOOR FINISHES, UNO
14. IN GENERAL, AND UNLESS NOTED OTHERWISE, ALL LOOSE BUILDING CONTENTS SUCH AS FURNITURE AND STORED ITEMS SHALL BE REMOVED BY THE OWNER.
15. ALL ITEMS ATTACHED TO WALLS ARE TO BE REMOVED AND SALVAGED UNLESS NOTED OTHERWISE
15. ALL EXISTING ABRASIVE WALL FINISHES TO BE SANDED SMOOTH AHEAD OF WALL RECEIVING FINAL FINISH

DEMOLITION PLAN LEGEND

- EXISTING WALLS TO REMAIN
- EXISTING CEILING/SLAB TO BE DEMOLISHED
- EXISTING WALLS TO BE DEMOLISHED
- EXISTING DOORS TO REMAIN
- EXISTING DOORS TO BE DEMOLISHED
- EXISTING ELEMENT TO BE DEMOLISHED
- LIMIT OF WORK

DEMOLITION KEYNOTES	
Key Value	Keynote Text
D.01	EXISTING INTERIOR PARTITION, DOOR AND FRAME ASSEMBLY, INTERIOR GLAZING/RELITE ASSEMBLIES TO BE DEMOLISHED AND REMOVED
D.02	EXISTING DOOR TO BE DEMOLISHED AND REMOVED
D.03	EXISTING CASEWORK TO BE DEMOLISHED AND REMOVED
D.05	EXISTING CEILING TILE & GRID SYSTEM TO BE DEMOLISHED AND REMOVED
D.06	EXISTING LIGHT FIXTURE TO BE DEMOLISHED AND REMOVED
D.07	EXISTING PLUMBING FIXTURE AND PIPING TO BE DEMOLISHED AND REMOVED. COORDINATE WITH PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.09	EXISTING RETURN/EXHAUST GRILLE TO BE DEMOLISHED AND REMOVED
D.10	EXISTING DATA DROP TO BE DEMOLISHED AND REMOVED
D.14	EXISTING STAIR FINISH TO BE DEMOLISHED REMOVED
D.15	EXISTING GUARDRAIL TO BE DEMOLISHED AND REMOVED
D.16	EXISTING SHELVING TO BE REMOVED AND REUSED
D.17	EXISTING APPLIANCES TO BE DEMOLISHED AND REMOVED
D.18	EXISTING FLOOR FINISHES AND RUBBER BASES TO BE REMOVED. PREPARE FLOOR SLAB AND WALL BASE TO RECEIVE NEW FINISHES. COORDINATE REMOVAL OF ANY HAZARDOUS MATERIALS
D.20	EXISTING DATA RACKS TO BE SALVAGED & MOVED
D.23	EXISTING WINDOW DEMO PATCH AND FILL
D.25	EXISTING LOCKERS TO BE DEMOLISHED AND REMOVED
D.26	EXISTING FRIDGE TO BE SALVAGED AND REPLACED
D.27	EXISTING PLUMBING FIXTURE TO BE DEMOED AND REPLACED
D.29	EXISTING COUNTERTOP TO BE REMOVED AND SALVAGED
D.30	EXISTING DRAIN TO BE DEMOLISHED AND REMOVED PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.31	EXISTING TOILET TO BE REMOVED AND SALVAGED
D.32	EXISTING SIGNAGE TO BE REMOVED, SALVAGED AND REPLACED IN PLACE
D.33	EXISTING LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH UPDAGED FIXTURES REF TO LIGHTING PLANS
D.34	DEMOLISH AND PATCH WALL SHELVING
D.35	EXTERIOR FURRING WALL AND PLASTIC LAMINATE CAP TO REMAIN
D.36	EXISTING RADIANT FLOOR PITS ADD PIT COVERS INFILL W/ STRUCTRUAL FOAM AND CONCRETE TOPPING REF TO STRUCTURAL DRAWINGS
D.37	DEMO AND REMOVE EXISTING FIRE EXTINGUISHER CABINET. PATCH AND FILL WALL TO BE READY TO PAINT. REMOVE, SALVAGE, AND RE-INSTALL EXISTING SIGNAGE AS INDICATED IN PLANS

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

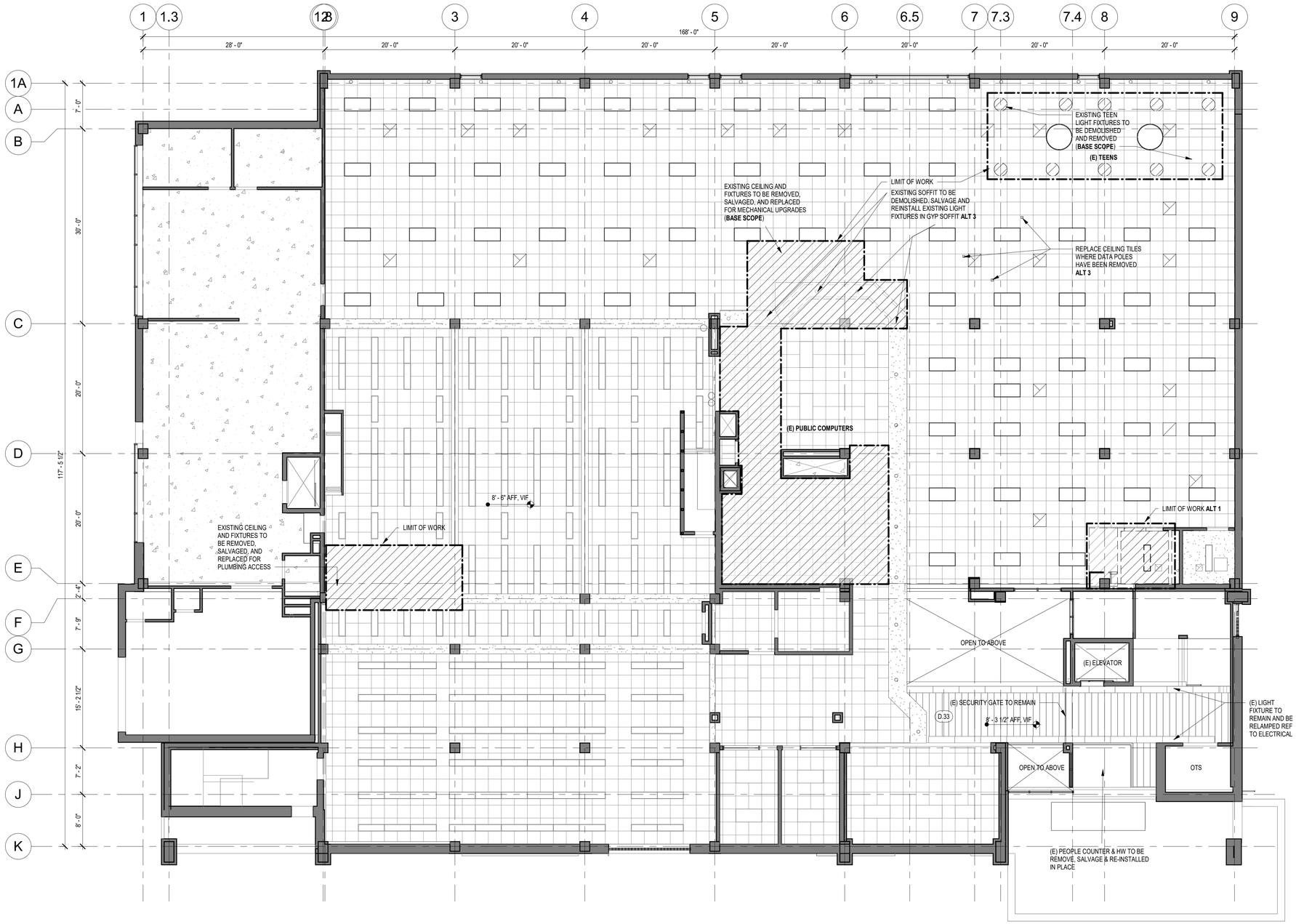
No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

FIRST FLOOR DEMO PLAN AD121



1 AD122 **FIRST FLOOR RCP DEMO**

1/8" = 1'-0"

GENERAL RCP DEMOLITION NOTES

1. ELEMENTS SHOWN DASHED OR NOTED TO BE DEMOLISHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY, UNO. THE NATURE AND EXTENT OF DEMOLITION WORK SHOWN ON DRAWINGS IS APPROXIMATE AND IS INTENDED TO CONVEY OVERALL SCOPE AND DESIGN INTENT. NOT ALL ELEMENTS TO BE DEMOLISHED OR REMOVED ARE INDICATED GRAPHICALLY ON PLANS. THE CONTRACTOR MUST REFER TO THE GENERAL DEMOLITION NOTES AND KEYNOTES AND ALL RELEVANT SPECIFICATION SECTIONS TO UNDERSTAND THE COMPLETE SCOPE OF THE DEMOLITION WORK.
2. REFER TO SECTION 02 80 00 – FACILITY REMEDIATION, 02 82 00- ASBESTOS ABATEMENT, 02 83 00 - LEAD PAINT CONTROLS, AND APPENDIX A FOR LIMITED HAZARDOUS MATERIALS REPORT FOR IDENTIFIED MATERIALS, LOCATION, HANDLING, REMOVAL, AND ABATEMENT REQUIREMENTS DURING DEMOLITION.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
4. REFER TO SPECIFICATIONS AND COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THAT DEMOLITION WASTE IS TRACKED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELATED L.E.E.D. CREDITS THE PROJECT IS PURSUING.
5. ALL ABANDONED UTILITY LINES TO BE TERMINATED AND PROTECTED AS REQUIRED TO CONNECT WITH NEW WORK.
6. REMOVE SUSPENSION WIRES, GRIDS AND CEILING TILES IN AREAS WITH ACOUSTICAL CEILING TILES TO BE REMOVED.
7. THE CONTRACTOR SHALL COORDINATE THE PRECISE NATURE AND EXTENT OF ALL DEMOLITION AS REQUIRED TO ACCEPT ALL NEW WORK OF ALL DISCIPLINES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
8. EXISTING SIGNAGE TO BE REMOVED, AND SALVAGED RE-USED, & RELOCATED AT DESIGNATED WORK AREAS PER ARCH
9. ALL EXISTING SECURITY MIRRORS TO BE REMOVED SALVAGED AND REINSTALLED IN SAME LOCATION UNO
10. ALL EXISTING EXIT SIGNS TO REMAIN IN PLACE UNO. WHERE CEILING FINISH IS BEING REMOVED, REMOVE, SALVAGE, AND REINSTALL AS INDICATED ON ARCHITECTURAL PLANS
11. ALL EXISTING PA SYSTEM AND WIRING TO BE PRESERVED REFER TO TECHNOLOGY DRAWINGS
12. ALL EXISTING SECURITY CAMERAS TO BE REMOVED SALVAGED AND REINSTALLED AS NOTED IN TECHNOLOGY DRAWINGS

DEMOLITION RCP LEGEND

- EXISTING WALLS TO REMAIN
- EXISTING CEILING/SLAB TO BE DEMOLISHED
- EXISTING WALLS TO BE DEMOLISHED
- EXISTING LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING RETURN/EXHAUST TO BE DEMOLISHED
- EXISTING ELEMENT TO BE DEMOLISHED
- LIMIT OF WORK

DEMOLITION KEYNOTES	
Key Value	Keynote Text
D.01	EXISTING INTERIOR PARTITION, DOOR AND FRAME ASSEMBLY, INTERIOR GLAZING/RELITE ASSEMBLIES TO BE DEMOLISHED AND REMOVED
D.02	EXISTING DOOR TO BE DEMOLISHED AND REMOVED
D.03	EXISTING CASEWORK TO BE DEMOLISHED AND REMOVED
D.05	EXISTING CEILING TILE & GRID SYSTEM TO BE DEMOLISHED AND REMOVED
D.06	EXISTING LIGHT FIXTURE TO BE DEMOLISHED AND REMOVED
D.07	EXISTING PLUMBING FIXTURE AND PIPING TO BE DEMOLISHED AND REMOVED. COORDINATE WITH PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.09	EXISTING RETURN/EXHAUST GRILLE TO BE DEMOLISHED AND REMOVED
D.10	EXISTING DATA DROP TO BE DEMOLISHED AND REMOVED
D.14	EXISTING STAIR FINISH TO BE DEMOLISHED REMOVED
D.15	EXISTING GUARDRAIL TO BE DEMOLISHED AND REMOVED
D.16	EXISTING SHELVING TO BE REMOVED AND REUSED
D.17	EXISTING APPLIANCES TO BE DEMOLISHED AND REMOVED
D.18	EXISTING FLOOR FINISHES AND RUBBER BASES TO BE REMOVED. PREPARE FLOOR SLAB AND WALL BASE TO RECEIVE NEW FINISHES. COORDINATE REMOVAL OF ANY HAZARDOUS MATERIALS
D.20	EXISTING DATA RACKS TO BE SALVAGED & MOVED
D.23	EXISTING WINDOW DEMO PATCH AND FILL
D.25	EXISTING LOCKERS TO BE DEMOLISHED AND REMOVED
D.26	EXISTING FRIDGE TO BE SALVAGED AND REPLACED
D.27	EXISTING PLUMBING FIXTURE TO BE DEMOED AND REPLACED
D.29	EXISTING COUNTERTOP TO BE REMOVED AND SALVAGED
D.30	EXISTING DRAIN TO BE DEMOLISHED AND REMOVED PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.31	EXISTING TOILET TO BE REMOVED AND SALVAGED
D.32	EXISTING SIGNAGE TO BE REMOVED, SALVAGED AND REPLACED IN PLACE
D.33	EXISTING LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH UPDAGED FIXTURES REF TO LIGHTING PLANS
D.34	DEMOLISH AND PATCH WALL SHELVING
D.35	EXTERIOR FURRING WALL AND PLASTIC LAMINATE CAP TO REMAIN
D.36	EXISTING RADIANT FLOOR PITS ADD PIT COVERS INFILL W/ STRUCTRUAL FOAM AND CONCRETE TOPPING REF TO STRUCTURAL DRAWINGS
D.37	DEMO AND REMOVE EXISTING FIRE EXTINGUISHER CABINET. PATCH AND FILL WALL TO BE READY TO PAINT. REMOVE, SALVAGE, AND RE-INSTALL EXISTING SIGNAGE AS INDICATED IN PLANS

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

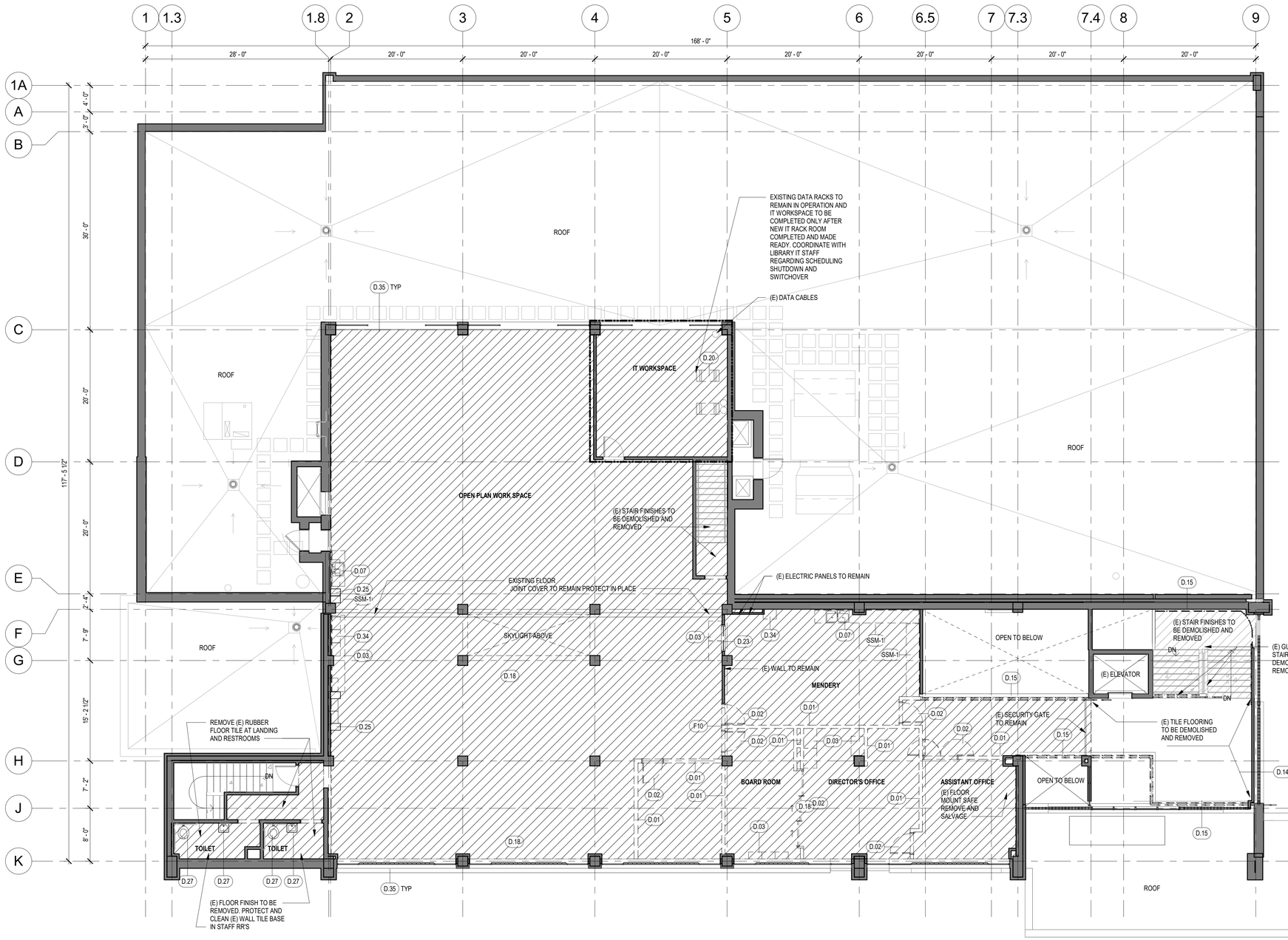
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

FIRST FLOOR DEMO RCP

AD122



1 AD131 **SECOND FLOOR DEMO PLAN**

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. VERIFY ALL DIMENSIONS/CONDITIONS IN THE FIELD BEFORE BEGINNING WORK.
2. REFER TO SECTION 02 80 00 – FACILITY REMEDIATION, 02 82 00- ASBESTOS ABATEMENT, 02 83 00 - LEAD PAINT CONTROLS, AND APPENDIX A FOR LIMITED HAZARDOUS MATERIALS REPORT FOR IDENTIFIED MATERIALS, LOCATION, HANDLING, REMOVAL, AND ABATEMENT REQUIREMENTS DURING DEMOLITION.
3. ELEMENTS SHOWN DASHED OR NOTED TO BE DEMOLISHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY, UNO. THE NATURE AND EXTENT OF DEMOLITION WORK SHOWN ON DRAWINGS IS APPROXIMATE AND IS INTENDED TO CONVEY OVERALL SCOPE AND DESIGN INTENT. NOT ALL ELEMENTS TO BE DEMOLISHED OR REMOVED ARE INDICATED GRAPHICALLY ON PLANS. THE CONTRACTOR MUST REFER TO THE GENERAL DEMOLITION NOTES AND KEYNOTES AND ALL RELEVANT SPECIFICATION SECTIONS TO UNDERSTAND THE COMPLETE SCOPE OF THE DEMOLITION WORK.
4. THE CONTRACTOR SHALL COORDINATE THE PRECISE NATURE AND EXTENT OF ALL DEMOLITION AS REQUIRED TO ACCEPT ALL NEW WORK OF ALL DISCIPLINES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
5. DESCRIPTION OF DEMOLITION WORK IS APPROXIMATE AND FIELD CONDITIONS MAY VARY. SHOULD SIGNIFICANT DIFFERENCES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS BE DISCOVERED DURING THE COURSE OF FIELD VERIFICATION, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT BEFORE PERFORMING ANY WORK.
6. AT REMOVED OR DEMOLISHED ITEMS AND/OR BUILDING COMPONENTS, PATCH AND REPAIR EXISTING SURFACES TO REMAIN. PATCH AND REPAIR WORK IS TO MATCH SUBSTRATE AND FINISHES OF EXISTING ADJACENT SURFACES.
7. CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING, INCLUDING ANY ASSOCIATED ENGINEERING WORK, AS REQUIRED IN ORDER TO COMPLETE THE DEMOLITION WORK.
8. CONTRACTOR TO PROVIDE PROTECTION FOR EXISTING STRUCTURE TO REMAIN.
9. COORDINATE WALL AND CEILING REPAIR WITH PLUMBING DRAWINGS, WHERE EXISTING FIXTURES ARE TO BE REPLACED.
10. COORDINATE REMOVAL, PROTECTION, AND REPLACEMENT OF FINISHES WITH ACCESS REQUIREMENTS FOR OTHER DISCIPLINES.
11. REFER TO SPECIFICATIONS AND COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THAT DEMOLITION WASTE IS TRACKED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELATED L.E.E.D. CREDITS THE PROJECT IS PURSUING.
12. ALL ABANDONED UTILITY LINES TO BE TERMINATED AND PROTECTED AS REQUIRED TO CONNECT WITH NEW WORK. ALL UTILITY LINES NO LONGER IN SERVICE TO BE REMOVED. UTILITY LINES TO BE REMOVED TO BE COORDINATED WITH OWNER.
13. BUILDING DEMOLITION SHALL INCLUDE:
    A. REMOVE ALL EXISTING INDICATED INTERIOR PARTITIONS, FINISHES, INSULATION, DOORS + FRAMES, AND CEILINGS. REMOVAL OF INTERIOR PARTITIONS INCLUDES ITEMS MOUNTED TO AND IN PARTITION SUCH AS CONDUIT/ ELECTRICAL DEVICES, WALL BASE, TRIM, SIGNAGE, ETC. REMOVAL OF INTERIOR CEILINGS INCLUDES ITEMS MOUNTED TO, IN, AND ABOVE CEILINGS SUCH AS CONDUIT/ ELECTRICAL DEVICES, TRIM, SIGNAGE, BATT INSULATION, ETC.
    B. REMOVE, CLEAN AND SALVAGE EXISTING FIRE ALARM SYSTEM, AND VAPOR/SMOKE DETECTORS TO BE REINSTALLED.
    C. REMOVE ALL INDICATED EXISTING INTERIOR LIGHT FIXTURES, PLUMBING FIXTURES, ELECTRICAL PANELS, MECHANICAL EQUIPMENT, PIPING AND CONDUIT, UNLESS NOTED OTHERWISE ON MECHANICAL AND ELECTRICAL DRAWINGS.
    E. CONTRACTOR TO PATCH ALL ABANDONED PENETRATIONS THROUGH EXISTING SLAB, INCLUDING BUT NOT LIMITED TO FLOOR DRAINS, TRENCH DRAINS, STUB OUTS, EXTERIOR ENVELOPE, ETC.
    F. CONTRACTOR TO REMOVE ALL FLOOR FINISHES, UNO, AND PREPARE SUBSTRATE TO RECEIVE NEW FLOOR FINISHES, UNO
14. IN GENERAL, AND UNLESS NOTED OTHERWISE, ALL LOOSE BUILDING CONTENTS SUCH AS FURNITURE AND STORED ITEMS SHALL BE REMOVED BY THE OWNER.
15. ALL ITEMS ATTACHED TO WALLS ARE TO BE REMOVED AND SALVAGED UNLESS NOTED OTHERWISE
15. ALL EXISTING ABRASIVE WALL FINISHES TO BE SANDED SMOOTH AHEAD OF WALL RECEIVING FINAL FINISH

DEMOLITION PLAN LEGEND

- EXISTING WALLS TO REMAIN
- EXISTING CEILING/SLAB TO BE DEMOLISHED
- EXISTING WALLS TO BE DEMOLISHED
- EXISTING DOORS TO REMAIN
- EXISTING DOORS TO BE DEMOLISHED
- EXISTING ELEMENT TO BE DEMOLISHED
- LIMIT OF WORK

DEMOLITION KEYNOTES

Key Value	Keynote Text
D.01	EXISTING INTERIOR PARTITION, DOOR AND FRAME ASSEMBLY, INTERIOR GLAZING/RELITE ASSEMBLIES TO BE DEMOLISHED AND REMOVED
D.02	EXISTING DOOR TO BE DEMOLISHED AND REMOVED
D.03	EXISTING CASEWORK TO BE DEMOLISHED AND REMOVED
D.05	EXISTING CEILING TILE & GRID SYSTEM TO BE DEMOLISHED AND REMOVED
D.06	EXISTING LIGHT FIXTURE TO BE DEMOLISHED AND REMOVED
D.07	EXISTING PLUMBING FIXTURE AND PIPING TO BE DEMOLISHED AND REMOVED. COORDINATE WITH PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.09	EXISTING RETURN/EXHAUST GRILLE TO BE DEMOLISHED AND REMOVED
D.10	EXISTING DATA DROP TO BE DEMOLISHED AND REMOVED
D.14	EXISTING STAIR FINISH TO BE DEMOLISHED REMOVED
D.15	EXISTING GUARDRAIL TO BE DEMOLISHED AND REMOVED
D.16	EXISTING SHELVING TO BE REMOVED AND REUSED
D.17	EXISTING APPLIANCES TO BE DEMOLISHED AND REMOVED
D.18	EXISTING FLOOR FINISHES AND RUBBER BASES TO BE REMOVED. PREPARE FLOOR SLAB AND WALL BASE TO RECEIVE NEW FINISHES. COORDINATE REMOVAL OF ANY HAZARDOUS MATERIALS
D.20	EXISTING DATA RACKS TO BE SALVAGED & MOVED
D.23	EXISTING WINDOW DEMO PATCH AND FILL
D.25	EXISTING LOCKERS TO BE DEMOLISHED AND REMOVED
D.26	EXISTING FRIDGE TO BE SALVAGED AND REPLACED
D.27	EXISTING PLUMBING FIXTURE TO BE DEMOED AND REPLACED
D.29	EXISTING COUNTERTOP TO BE REMOVED AND SALVAGED
D.30	EXISTING DRAIN TO BE DEMOLISHED AND REMOVED PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.31	EXISTING TOILET TO BE REMOVED AND SALVAGED
D.32	EXISTING SIGNAGE TO BE REMOVED, SALVAGED AND REPLACED IN PLACE
D.33	EXISTING LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH UPDAGED FIXTURES REF TO LIGHTING PLANS
D.34	DEMOLISH AND PATCH WALL SHELVING
D.35	EXTERIOR FURRING WALL AND PLASTIC LAMINATE CAP TO REMAIN
D.36	EXISTING RADIANT FLOOR PITS ADD PIT COVERS INFILL W/ STRUCTRUAL FOAM AND CONCRETE TOPPING REF TO STRUCTURAL DRAWINGS
D.37	DEMO AND REMOVE EXISTING FIRE EXTINGUISHER CABINET. PATCH AND FILL WALL TO BE READY TO PAINT. REMOVE, SALVAGE, AND RE-INSTALL EXISTING SIGNAGE AS INDICATED IN PLANS

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

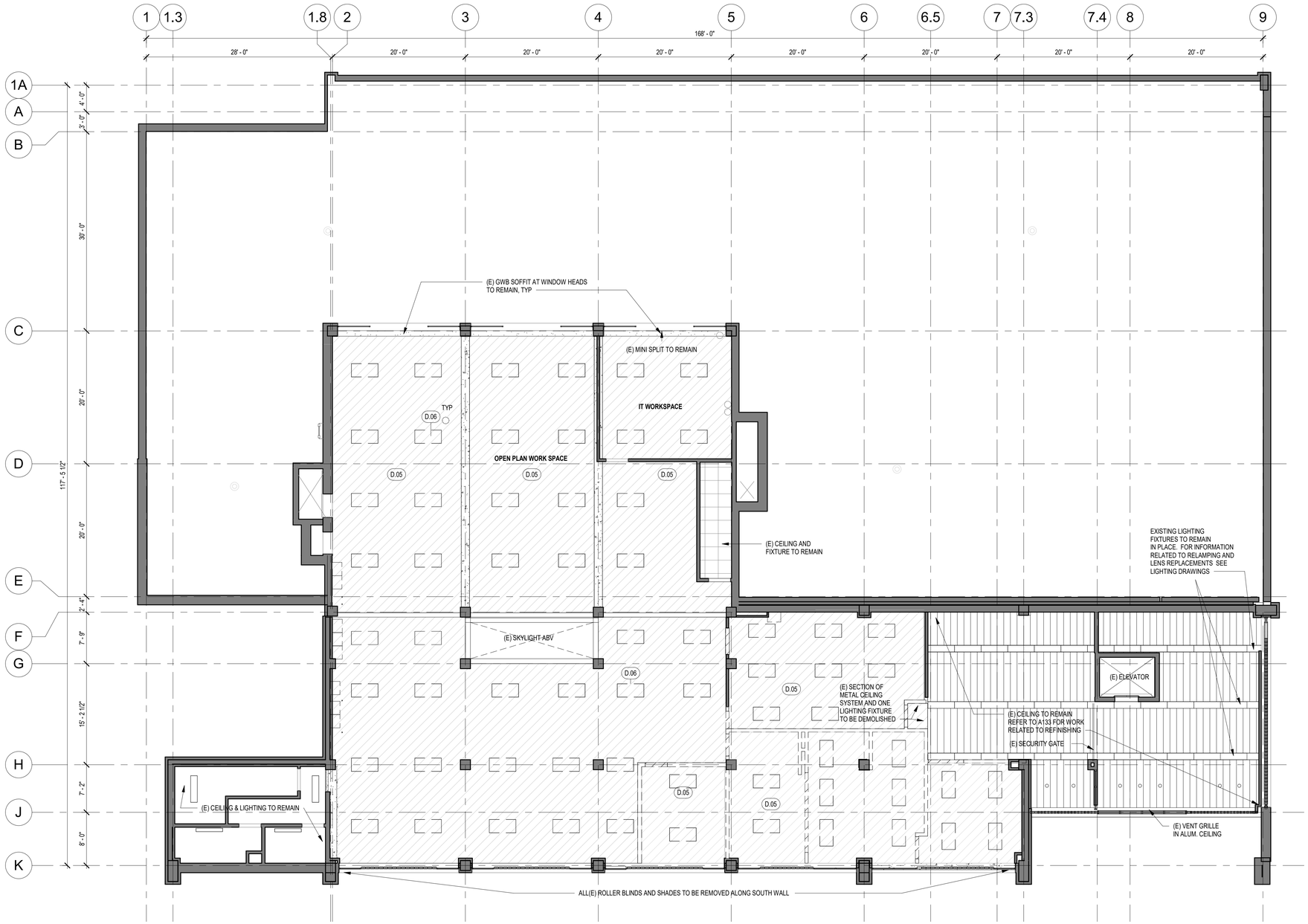
No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SECOND FLOOR DEMO PLAN
AD131



1 AD132 **FIRST FLOOR MEZZANINE RCP DEMO**

1/8" = 1'-0"

GENERAL RCP DEMOLITION NOTES

1. ELEMENTS SHOWN DASHED OR NOTED TO BE DEMOLISHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY, UNO. THE NATURE AND EXTENT OF DEMOLITION WORK SHOWN ON DRAWINGS IS APPROXIMATE AND IS INTENDED TO CONVEY OVERALL SCOPE AND DESIGN INTENT. NOT ALL ELEMENTS TO BE DEMOLISHED OR REMOVED ARE INDICATED GRAPHICALLY ON PLANS. THE CONTRACTOR MUST REFER TO THE GENERAL DEMOLITION NOTES AND KEYNOTES AND ALL RELEVANT SPECIFICATION SECTIONS TO UNDERSTAND THE COMPLETE SCOPE OF THE DEMOLITION WORK.
2. REFER TO SECTION 02 80 00 – FACILITY REMEDIATION, 02 82 00- ASBESTOS ABATEMENT, 02 83 00 - LEAD PAINT CONTROLS, AND APPENDIX A FOR LIMITED HAZARDOUS MATERIALS REPORT FOR IDENTIFIED MATERIALS, LOCATION, HANDLING, REMOVAL, AND ABATEMENT REQUIREMENTS DURING DEMOLITION.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
4. REFER TO SPECIFICATIONS AND COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THAT DEMOLITION WASTE IS TRACKED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELATED L.E.E.D. CREDITS THE PROJECT IS PURSUING.
5. ALL ABANDONED UTILITY LINES TO BE TERMINATED AND PROTECTED AS REQUIRED TO CONNECT WITH NEW WORK.
6. REMOVE SUSPENSION WIRES, GRIDS AND CEILING TILES IN AREAS WITH ACOUSTICAL CEILING TILES TO BE REMOVED.
7. THE CONTRACTOR SHALL COORDINATE THE PRECISE NATURE AND EXTENT OF ALL DEMOLITION AS REQUIRED TO ACCEPT ALL NEW WORK OF ALL DISCIPLINES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
8. EXISTING SIGNAGE TO BE REMOVED, AND SALVAGED RE-USED, & RELOCATED AT DESIGNATED WORK AREAS PER ARCH
9. ALL EXISTING SECURITY MIRRORS TO BE REMOVED SALVAGED AND REINSTALLED IN SAME LOCATION UNO
10. ALL EXISTING EXIT SIGNS TO REMAIN IN PLACE UNO. WHERE CEILING FINISH IS BEING REMOVED, REMOVE, SALVAGE, AND REINSTALL AS INDICATED ON ARCHITECTURAL PLANS
11. ALL EXISTING PA SYSTEM AND WIRING TO BE PRESERVED REFER TO TECHNOLOGY DRAWINGS
12. ALL EXISTING SECURITY CAMERAS TO BE REMOVED SALVAGED AND REINSTALLED AS NOTED IN TECHNOLOGY DRAWINGS

DEMOLITION RCP LEGEND

- EXISTING WALLS TO REMAIN
- EXISTING CEILING/SLAB TO BE DEMOLISHED
- EXISTING WALLS TO BE DEMOLISHED
- EXISTING LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING RETURN/EXHAUST TO BE DEMOLISHED
- EXISTING ELEMENT TO BE DEMOLISHED
- LIMIT OF WORK

DEMOLITION KEYNOTES	
Key Value	Keynote Text
D.01	EXISTING INTERIOR PARTITION, DOOR AND FRAME ASSEMBLY, INTERIOR GLAZING/RELITE ASSEMBLIES TO BE DEMOLISHED AND REMOVED
D.02	EXISTING DOOR TO BE DEMOLISHED AND REMOVED
D.03	EXISTING CASEWORK TO BE DEMOLISHED AND REMOVED
D.05	EXISTING CEILING TILE & GRID SYSTEM TO BE DEMOLISHED AND REMOVED
D.06	EXISTING LIGHT FIXTURE TO BE DEMOLISHED AND REMOVED
D.07	EXISTING PLUMBING FIXTURE AND PIPING TO BE DEMOLISHED AND REMOVED. COORDINATE WITH PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.09	EXISTING RETURN/EXHAUST GRILLE TO BE DEMOLISHED AND REMOVED
D.10	EXISTING DATA DROP TO BE DEMOLISHED AND REMOVED
D.14	EXISTING STAIR FINISH TO BE DEMOLISHED REMOVED
D.15	EXISTING GUARDRAIL TO BE DEMOLISHED AND REMOVED
D.16	EXISTING SHELVING TO BE REMOVED AND REUSED
D.17	EXISTING APPLIANCES TO BE DEMOLISHED AND REMOVED
D.18	EXISTING FLOOR FINISHES AND RUBBER BASES TO BE REMOVED. PREPARE FLOOR SLAB AND WALL BASE TO RECEIVE NEW FINISHES. COORDINATE REMOVAL OF ANY HAZARDOUS MATERIALS
D.20	EXISTING DATA RACKS TO BE SALVAGED & MOVED
D.23	EXISTING WINDOW DEMO PATCH AND FILL
D.25	EXISTING LOCKERS TO BE DEMOLISHED AND REMOVED
D.26	EXISTING FRIDGE TO BE SALVAGED AND REPLACED
D.27	EXISTING PLUMBING FIXTURE TO BE DEMOED AND REPLACED
D.29	EXISTING COUNTERTOP TO BE REMOVED AND SALVAGED
D.30	EXISTING DRAIN TO BE DEMOLISHED AND REMOVED PLUMBING DRAWINGS. CAP LINES WHERE FIXTURE IS NOT SHOWN TO BE REPLACED WITH NEW.
D.31	EXISTING TOILET TO BE REMOVED AND SALVAGED
D.32	EXISTING SIGNAGE TO BE REMOVED, SALVAGED AND REPLACED IN PLACE
D.33	EXISTING LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH UPDAGED FIXTURES REF TO LIGHTING PLANS
D.34	DEMOLISH AND PATCH WALL SHELVING
D.35	EXTERIOR FURRING WALL AND PLASTIC LAMINATE CAP TO REMAIN
D.36	EXISTING RADIANT FLOOR PITS ADD PIT COVERS INFILL W/ STRUCTRUAL FOAM AND CONCRETE TOPPING REF TO STRUCTURAL DRAWINGS
D.37	DEMO AND REMOVE EXISTING FIRE EXTINGUISHER CABINET. PATCH AND FILL WALL TO BE READY TO PAINT. REMOVE, SALVAGE, AND RE-INSTALL EXISTING SIGNAGE AS INDICATED IN PLANS

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

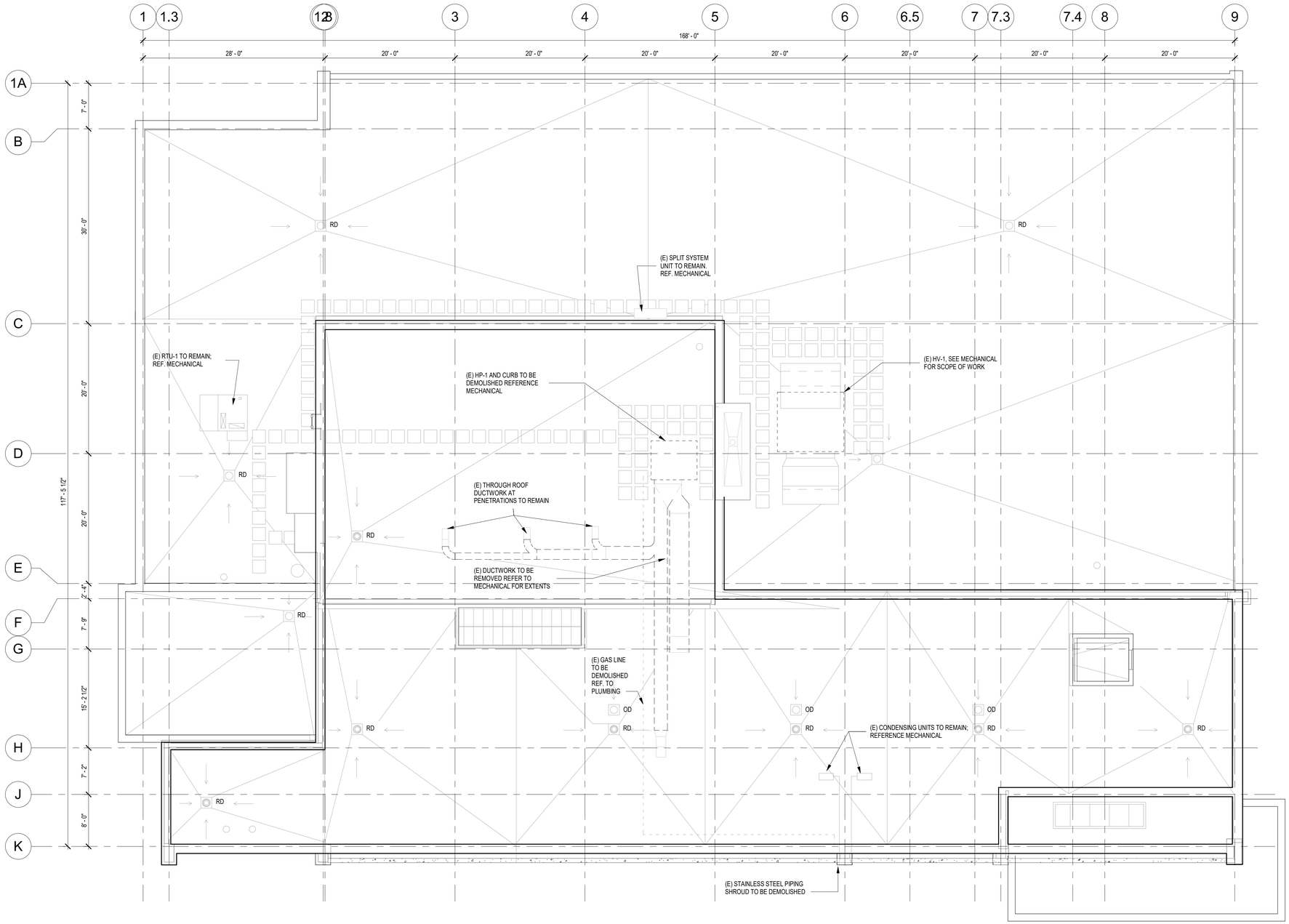
No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SECOND FLOOR DEMO RCP

AD132



1 AD151 **ROOF DEMO PLAN**

1/8" = 1'-0"

GENERAL ROOF DEMOLITION PLAN NOTES

1. REFERENCE MECHANICAL SHEETS FOR EQUIPMENT DEMOLITION SCOPE & ALTERNATES
2. ALL CUTTING AND PATCHING OF EXISTING ROOF ARE TO COMPLY WITH EXISTING ROOF WARRANTY. REFER TO SPECIFICATION FOR INFORMATION ON EXISTING ROOF WARRANTY.

3. REFER TO THE HAZARDOUS MATERIALS SURVEY REPORT AND TESTING IN THE PROJECT MANUAL, PREPARED BY OTHERS, FOR IDENTIFIED MATERIALS AND LOCATIONS, AND FOR HANDLING, REMOVAL, AND ABATEMENT REQUIREMENTS DURING DEMOLITION.

ROOF DEMOLITION PLAN LEGEND

EXISTING TO REMAIN

EXISTING ELEMENT TO BE DEMOLISHED

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

ROOF DEMO PLAN

AD151

GENERAL NOTES

1. IT IS THE INTENT OF THE CONTRACT DOCUMENTS THAT ALL WORK SHALL CONFORM TO THE APPLICABLE AND LATEST REQUIREMENTS OF THE NATIONAL, STATE AND LOCAL BUILDING CODES, AS WELL AS ALL RULES AND REGULATIONS OF JURISDICTIONS HAVE AUTHORITY.
2. PRIOR TO COMMENCEMENT OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES NOTED AMONG OR BETWEEN THE CONTRACT DOCUMENTS, OWNER-PROVIDED INFORMATION, SITE CONDITIONS, MANUFACTURER RECOMMENDATIONS, OR CODES, REGULATIONS OR RULES OF JURISDICTIONS HAVE AUTHORITY.
3. PRIOR TO THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONTRACT DOCUMENTS, OWNER-PROVIDED INFORMATION AND SITE CONDITIONS, INCLUDING TAKING FIELD MEASUREMENTS AS NECESSARY.
4. ALL DIMENSIONS OR EXISTING WORK MUST BE VERIFIED PRIOR TO COMMENCEMENT OF WORK.
5. SITE INFORMATION CONTAINED HEREIN, INCLUDING, BUT NOT LIMITED TO, DIMENSIONS AND LOCATIONS OF EXISTING UTILITIES AND STRUCTURES,IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE ARCHITECT TAKES NO RESPONSIBILITY FOR ITS ACCURACY.
6. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES. CARE SHOULD BE TAKEN TO AVOID DAMAGE TO OR DISTURBANCE OF EXISTING UTILITIES.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING AND SHORING DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL GOVERNMENTAL PERMITS, FEES, LICENSES AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF WORK.
9. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE REQUIRED BY ALL.
10. ALL DIMENSIONS ARE TO FACE OF FINISH OR FACE OF CONCRETE OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE. CONTACT ARCHITECT FOR CLARIFICATIONS.
11. DIMENSIONS NOTED AS "CLEAR" OR "CLR" INDICATE CLEAR DISTANCES BETWEEN FINISHES.
12. PROVIDE NEAT CUT WHERE UTILITIES PENETRATE RATED WALL AND FLOOR ASSEMBLIES. SEAL WITH NON-COMBUSTIBLE MATERIAL IMPERVIOUS TO THE PASSAGE OF SMOKE.
13. ACCESS WAYS TO BUSINESSES AROUND THE PROJECT SITE MUST BE MAINTAINED AND KEPT CLEAR. ACCESS TO BUSINESS PARKING MUST BE KEPT CLEAR..
14. DRAWINGS INDICATE LOCATION, DIMENSIONS, REFERENCE, AND TYPICAL DETAIL FOR CONSTRUCTION. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS. FOR CONDITIONS NOT ILLUSTRATED, NOTIFY ARCHITECT FOR CLARIFICATION AND/OR SIMILAR DETAIL.
15. THESE DRAWINGS ARE DIVIDED INTO SECTIONS FOR CONVENIENCE ONLY. CONTRACTOR, SUBCONTRACTORS, VENDORS AND MATERIAL SUPPLIERS SHALL REFER TO ALL RELEVANT SECTIONS IN BIDDING AND PERFORMING THEIR WORK AND SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THEIR WORK REGARDLESS OF WHERE THE INFORMATION OCCURS ON THE DRAWINGS.
16. CONTRACTOR SHALL PROVIDE STRUCTURAL BACKING/BLOCKING FOR ALL WALL MOUNTED FIXTURES, FINISHES AND EQUIPMENT, AND FOR ALL HANGING FIXTURES, BLINDS, ETC.
17. THE DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

ABBREVIATIONS

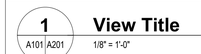
NOTE: ABBREVIATIONS NOTED IN THE DRAWINGS THAT ARE FOLLOWED BY A MODIFIER SUCH AS "-1", "-A" ARE FURTHER DEFINED IN THE SPECIFICATIONS SECTION ASSOCIATED WITH THE MATERIAL OR SYSTEM ASSEMBY AS NOTED. REFERENCE FINISH LEGEND A070

ABV	ABOVE
ACIP	ARCHITECTURAL CAST-IN-PLACE CONCRETE
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL (TECT)
AV	AUDIO VISUAL
AVG	AVERAGE
BLDG	BUILDING
BO	BOTTOM OF
BR	BEDROOM
BRK	BRICK
C	CHANNEL STEEL MEMBER
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
COORD	COORDINATE
CTR	CENTER
CW	CURTAIN WALL, COLD WATER
D	DEPTH
DBL	DOUBLE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
DWR	DRAWER
(E)	EXISTING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EQ	EQUAL
EXT	EXTERIOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAPB	FIRE ALARM PULL BOX
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXTINGUISHER CABINET
FEXT	FIRE EXTINGUISHER
FF	FINISHED FLOOR
FHC	FIRE HOSE CABINET
FIN	FINISH
FO	FACE OF
FOF	FACE OF FINISH
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER
FRT	FIRE RETARDENT TREATED (INTERIOR)
FS	FIRE SPRINKLER
FT	FOOT, FEET
FURN	FURNITURE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HDW	HARDWARE
HEX	HEXAGONAL
HM	HOLLOW METAL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HR	HOUR
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING/VENTILATION/AIR CONDITIONING
HW	HOT WATER
HWY	HIGHWAY
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IN	INCH(ES)
INCL	INCLUDE(D), INCLUDING, INCLUSIVE
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
K	100 POUNDS (KIP)
KIT	KITCHEN
KSI	KIPS PER SQUARE INCH
KW	KILOWATTS
L	ANGLE STEEL MEMBER
LAB	LABORATORY
LAV	LAVATORY
LB	POUND(S)
LF	LINEAR FEET
LH	LEFT HAND
LIN	LINEAL
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAX	MAXIMUM
MBR	MASTER BEDROOM
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM, MINUTE(S)
MISC	MISCELLANEOUS
MO	MASONRY OPENING
N	NORTH
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OHCD	OVERHEAD COILING DOOR
OHCS	OVERHEAD COILING SHUTTER
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OTS	OPTEN TO STRUCTURE
PCF	POUNDS PER CUBIC FOOT
PD	PLANTER DRAIN
PERF	PERFORATE(D)
PL	PLATE
PNT	PAINT
PREFAB	PREABRICATED
PREFIN	PREFINISHED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT, POST TENSIONED, PRESSURE TREATED
PVDF	FLUOROPOLYMER COATING
QTY	QUANTITY
REBAR	REINFORCING BAR
REF	REFERENCE
REQD	REQUIRED
REV	REVISED, REVISION
RH	RIGHT HAND, ROOF HATCH
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT-OF-WAY
RR	RESTROOM
S	SOUTH
SAM	SELF ADHERED MEMBRANE
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SOHD	SECTIONAL OVERHEAD DOOR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
ST	STAIR, STREET
STC	SOUND TRANSMISSION CLASS
STN	STAIN
STOR	STORAGE
STRUCT	STRUCTURE (AL)
T&G	TONGUE AND GROOVE
TECH	TECHNOLOGY
TEL	TELEPHONE
TEMP	TEMPORARY, TEMPERATURE
TO	TOP OF
TOC	TOP OF CONCRETE
TOP	TOP OF PARAPET
TOPO	TOPOGRAPHIC MAP
TOS	TOP OF STEEL, TOP OF SLAB
TPO	THERMOPLASTIC POLYOLEFIN
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UV	ULTRAVIOLET
V	VOLT
VERT	VERTICAL
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WEST, WIDE
WC	WATER CLOSET
WRB	WEATHER RESISTIVE BARRIER

SYMBOLS LEGEND

GRAPHIC DRAWING SCALE

DRAWING NUMBER & TITLE



DRAWING NUMBER, REFERENCE SHEET & TITLE

NORTH ARROW

DETAIL NUMBER OVER SHEET NUMBER

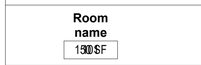
BUILDING SECTION

WALL SECTION

EXTERIOR ELEVATION

INTERIOR ELEVATION

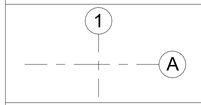
VERTICAL DATUM, WORKPOINT



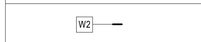
ROOM IDENTIFICATION

DOOR IDENTIFICATION

ABOVE, BELOW OR HIDDEN



GRID LINE



WALL TYPE, (REF ASSEMBLY SHEETS)

WINDOW / STOREFRONT TYPE, REF SHEET A050

TOILET ACCESSORY IDENTIFICATION

KEYNOTE - EXTERIOR/ INTERIOR MATERIAL

MATERIALS LEGEND

NATIVE SOIL

GRAVEL (SCALE VARIES)

CONCRETE

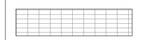
MASONRY

CONCRETE MASONRY UNITS (CMU)

GYPSUM WALLBOARD

EXISTING ELEMENT CUT IN VIEW

BATT INSULATION


RIGID INSULATION

SEMI-RIGID INSULATION

ACOUSTIC CEILING PANEL

PLYWOOD SHEATHING

GYPSUM SHEATHING

STEEL

ALUMINUM

SOLID WOOD BLOCKING

WOOD FRAMING, CONTINUOUS WOOD

WOOD TRIM

METAL STUD FRAMING

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

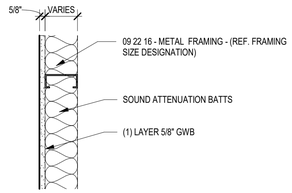
Issue Date: 09/16/26

SHEET

LEGENDS, NOTES & ABBREVIATIONS

A001

INTERIOR PARTITIONS



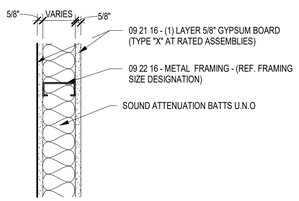
A1 7/8" HAT CHANNEL ASSEMBLY THICKNESS: 1 1/2"

A2 1 5/8" METAL STUD ASSEMBLY THICKNESS: 2 1/4"

A4 3 5/8" METAL STUD ASSEMBLY THICKNESS: 4 1/4"

A6 6" METAL STUD ASSEMBLY THICKNESS: 6 5/8"

A METAL STUD WALL 1-0 GWB



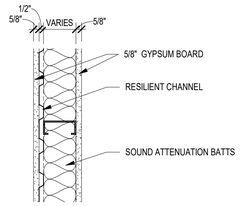
B4 3 5/8" METAL STUD ASSEMBLY THICKNESS: 4 7/8"

1-B4 3 5/8" METAL STUD FIRE RATING: 1HR RATING - UL U419 ASSEMBLY THICKNESS: 4 7/8"

B6 6" METAL STUD ASSEMBLY THICKNESS: 7 1/4"

1-B6 6" METAL STUD FIRE RATING: 1HR RATING - UL419 ASSEMBLY THICKNESS: 7 1/4"

B METAL STUD WALL 1-1 GWB

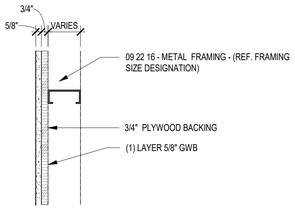


C4 3 5/8" METAL STUD STC: 50 ASSEMBLY THICKNESS: 5 3/8"

1-C4 3 5/8" METAL STUD FIRE RATING: 1 HR RATING - UL U419 ASSEMBLY THICKNESS: 5 3/8"

C6 6" METAL STUD ASSEMBLY THICKNESS: 7 3/4"

C METAL STUD WALL 1-1 GWB

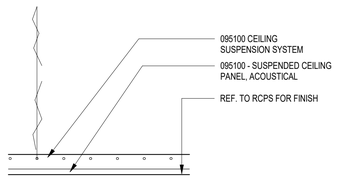


D4 3 5/8" METAL STUD ASSEMBLY THICKNESS: 5"

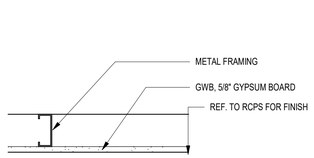
D6 6" METAL STUD ASSEMBLY THICKNESS: 7 3/8"

D METAL STUD WALL 1-0 GWB

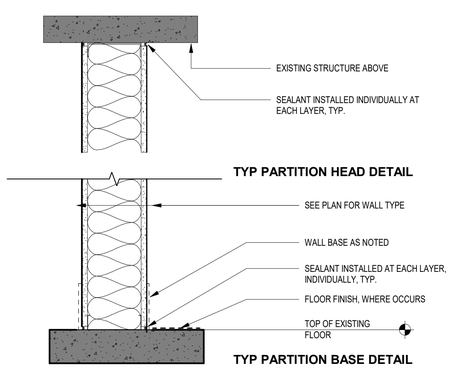
CEILING ASSEMBLIES



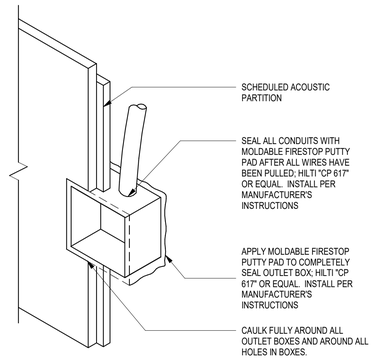
C1 SUSPENDED ACT CEILING



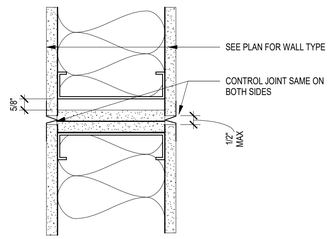
C3 PAINTED GWB CEILING



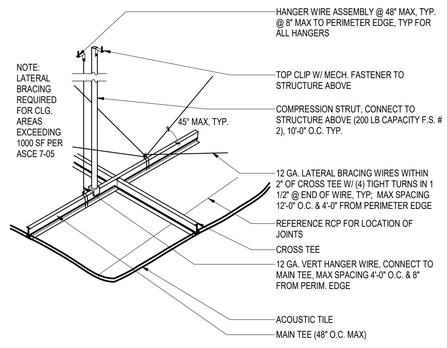
4 A020 — **TYP WALL BASE& HEAD**
1 1/2" = 1'-0"



3 A020 — **TYP WALL OUTLET DETAIL**
1 1/2" = 1'-0"



2 A020 — **TYP CONTROL JOINT**
3" = 1'-0"



1 A020 — **SEISMIC BRACING ACT CEILING TYP**
1 1/2" = 1'-0"

ASSEMBLY NOTES

1. WALL & PARTITION TYPE SYMBOLS ARE NOTED ON THE FLOOR PLANS.
2. ALL FIRE-RATED ASSEMBLIES ARE BASED UPON IBC, U.L., AND U.S. GYPSUM ASSOCIATION (GA) TEST DATA. FIRE RATED PARTITIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TESTING AGENCIES. REFER TO SPECIFIC TEST REPORTS INDICATED FOR REQUIRED COMPONENTS AND ASSEMBLY.
3. ALL PARTITIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND INDUSTRY STANDARDS FOR THE MATERIALS SPECIFIED.
4. ALL INTERIOR PARTITIONS TO EXTEND TO THE UNDERSIDE OF FLOOR ASSEMBLY ABOVE, UNO. WHERE PARTITIONS MEET BEAMS AND GIRDERS AT THE CEILING, PARTITIONS ARE TO BE SCRIBED AROUND BEAMS.
5. REFERENCE FLOOR PLANS FOR LOCATION AND EXTENTS OR LIMITS OF RATED PARTITIONS. MAINTAIN FIRE RATINGS OF WALLS AROUND FIRE EXTINGUISHER CABINETS AND OTHER RECESSED ITEMS AND PENETRATIONS. MAINTAIN FIRE RATING AT EXISTING WALLS.
6. WATER-RESISTANT GWB WITH CORROSION RESISTANT SCREWS TO BE USED IN PLACE OF STANDARD GWB AT WALLS AND CEILINGS IN ALL WET/HUMID AREAS INCLUDING, BUT NOT LIMITED TO: BATHROOMS, LAB BENCHES, MECH/ELEC ROOMS, ELEVATOR MACHINE ROOM, FIRE PUMP ROOM, AND JANITOR ROOMS.
7. BLOCKING IS REQUIRED AT THE FOLLOWING LOCATIONS: WALL MOUNTED CABINETS, ACCESSORIES, EQUIPMENT, A/V EQUIPMENT LOCATIONS, DOOR STROPS, HOLD-OPENS, TOILETS & ACCESSORIES AND OTHER LOCATIONS AS REQUIRED BY MANUFACTURER SPECIFICATIONS OR INDUSTRY STANDARDS REFERENCED.
8. PROVIDE BRACING AS NECESSARY PER US GYPSUM GUIDELINES FOR METAL PARTITION FRAMING.
9. PROVIDE FIRE SAFING (SOUND ATTENUATING FIRE BLANKETS "SAFB" INSULATION) AT RATED WALLS PER UL AND/OR IBC DESIGNATIONS.
10. INSTALL INSULATION SO THAT MANUFACTURER'S R-VALUE MARK IS READILY OBSERVABLE UPON INSPECTION.
11. FOR BATT INSULATION, FILL CAVITIES COMPLETELY UNLESS NOTED OTHERWISE. FRICTION FIT INSULATION INTO STUD CAVITIES. DO NOT COMPRESS INSULATION.
12. FOR RIGID AND SEMI-RIGID INSULATION, INSTALL INSULATION WITH ADHESIVE OR STICK PINS ONLY UNLESS NOTED OTHERWISE. DO NOT BRIDGE INSULATION WITH CONDUCTIVE ELEMENTS SUCH AS METAL FURRING OR FRAMING.
13. AIR BARRIER COMPONENTS IN EXTERIOR ASSEMBLIES SHALL BE CONTINUOUS AND SHALL BE SEALED TO ADJACENT COMPONENTS AT TRANSITIONS. REFER TO THE DETAILS FOR REQUIREMENTS AT AIR BARRIER TRANSITIONS.
14. REFERENCE FINISH PLANS, REFLECTED CEILING PLANS, AND INTERIOR ELEVATIONS FOR FINISH INFORMATION. SEE SHEET A070.

ACOUSTIC NOTES

1. RUN PARTITIONS FOR ALL SPACES TO UNDERSIDE OF DECK ABOVE AND SEAL AIRTIGHT, UNLESS NOTED OTHERWISE. WHERE PARTITIONS MEET BEAMS AND GIRDERS AT THE CEILING, PARTITIONS ARE TO BE SCRIBED AROUND BEAMS AND SEALED AIRTIGHT. NO RIGID BRACING BETWEEN PARTITIONS IN MULTIPLE STUD ASSEMBLIES.
2. ALL NON-FIRE RATED INTERIOR ACOUSTIC PARTITIONS TO BE ACOUSTIC SEALED AT TOP, SIDES, AND BASE WITH CAULKING. WHERE PARTITION SEALS TO A ROUGH, TEXTURED, OR CORRUGATED SURFACE, SPECIAL CLOSURE STRIPS MAY BE REQUIRED IN ADDITION TO CAULKING. SEALING SHALL BE USED AT THE TOP AND BASE OF THE WALL AT THE FIRST LAYER OF DRYWALL ON BOTH SIDES TO PREVENT SOUND LEAKAGE IN ACCORDANCE WITH ASTM C919. EACH LAYER TO BE SEALED SEPARATELY ND INDIVIDUALLY.
3. CROSS-LAY MULTIPLE GWB LAYERS. JOINTS IN MULTIPLE LAYER ASSEMBLIES SHALL NOT BE LAID DIRECTLY OVER EACH OTHER. MULTIPLE LAYERS OF GWB SHALL BE MECHANICALLY FASTENED.
4. ELECTRICAL AND CABLE OUTLETS SHALL NOT BE LOCATED WITHIN 24" OF EACH OTHER BETWEEN ROOMS. OUTLETS SHALL BE SEALED WITH RESILIENT SEALANT. SHOULD BOXES BE FITTED CLOSER THAN THIS, THE BACKSIDE OF ELECTRICAL OUTLETS SHALL BE FITTED WITH A CLAY-PACK.
5. WHERE METAL FRAMING IS ATTACHED TO CMU OR CONCRETE, PROVIDE 1/4" THICK NEOPRENE TAPE BETWEEN COMPONENTS OR ATTACH WITH RESILIENT CHANNEL.
6. PROVIDE ACOUSTICAL SEALANT TO SEAL ALL THROUGH-WALL PENETRATIONS. FOR ALL SPACES, INCLUDING MECHANICAL, ELECTRICAL, AND AV EQUIPMENT ROOMS, SEAL AIRTIGHT ALL DUCT, PIPE, AND CONDUIT PENETRATIONS IN ALL WALLS AND CUT ALL SUCH PENETRATIONS THROUGH SLAB-TO-SLAB PARTITIONS WITH 1" CLEARANCE BETWEEN PENETRATING SERVICE AND SURROUNDING PARTITION. INFILLT HE RESULTING CLEARANCE WITH 2.5 PCF MINERAL FIBER BATT INSULATION, AND SEAL BOTH SIDES WITH A RESILIENT COMPOUND. MULTIPLE PENETRATIONS SHOULD BE INDIVIDUALLY SLEEVED.
7. REF A600 FOR ACOUSTIC PARTITION DETAILS

PARTITION TYPE KEY

PARTITION TYPE	FRAMING SIZE DESIGNATION
A: GWB STUD FURRING WALL (1-0 GWB)	1: 7/8" HAT CHANNEL
B: GWB STUD WALL (1-1 GWB)	2: 2-1/2" STUD
C: GWB STUD WALL RESILIENT CHANNEL (1-1 GWB)	4: 3 5/8" STUD
D: GWB STUD WALL PLY WD BACKING (1-1 GWB)	5: 5-1/2" STUD
	6: 6" STUD
	8: 8" STUD

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

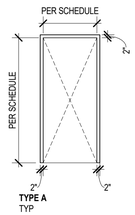
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

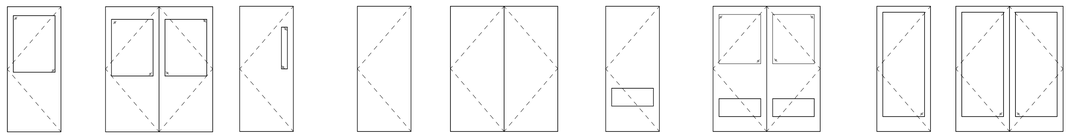
SHEET

INTERIOR ASSEMBLIES
A020

DOOR SCHEDULE

NO.	EXISTING DOORS	DOOR						FRAME			FIRE RATING	HARDWARE GROUP	DETAILS			COMMENTS
		TYPE	WIDTH	HEIGHT	MATERIAL	FINISH	THICKNESS	TYPE	MATERIAL	FINISH			HEAD	JAMB	SILL	
GROUND FLOOR																
001	Existing	FG2	6' - 0"	7' - 0"	WD	N/A	2"	A	HM	N/A		16.0	-			EXISTING EXTERIOR, PAINT INTERIOR SIDE ONLY TO MATCH WALL FINISHES
002	Existing	F1	3' - 0"	7' - 0"	HM	PNT	1 3/4"	A	HM	PNT		14.0	-			EXISTING EXTERIOR EGRESS DOOR EGRESS ONLY. PNT TO MATCH INTERIOR SIDE ONLY
003	New Construction	FG2	6' - 0"	7' - 10"	WD	STN-1	2"	A	HM	PNT TO MATCH WALL		3.0	6/A600	7/A600	7/A600	
004	New Construction	F2	5' - 0"	7' - 0"	WD	PNT TO MATCH WALL	1 3/4"	A	HM	PNT TO MATCH WALL		6.0	6/A600	7/A600	7/A600	
005	New Construction	F1	3' - 0"	7' - 0"	WD	PNT TO MATCH WALL	1 3/4"	A	HM	PNT TO MATCH WALL		7.0	6/A600	7/A600	7/A600	PNT DOOR AND FRAME TO MATCH WALL
006	Existing	F1	3' - 0"	7' - 0"	HM	PNT	1 3/4"	B	HM	PNT-1		13.0	-	-	-	EXISTING EGRESS EXTERIOR DOOR. PNT DOOR AND FRAME TO MATCH WALL
007	New Construction	F1	2' - 4"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT TO MATCH WALL		12.0	6/A600	7/A600	7/A600	
008	New Construction	F1	2' - 4"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT TO MATCH WALL		12.0	6/A600	7/A600	7/A600	
009	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT TO MATCH WALL		12.0	6/A600	7/A600	7/A600	
013	Existing	F2	6' - 0"	7' - 0"	HM	PNT	1 3/4"	A	HM	PNT		13.0	-	-	-	EXISTING DOOR PNT TO MATCH WALL FINISHES ONLY
015	New Construction	FG2	6' - 0"	7' - 0"	WD	STN-1	2"	A	HM	PNT-1		2.0	6/A600	7/A600	7/A600	
016	New Construction	N1	3' - 0"	7' - 0"	WD	PNT	1 3/4"	A	HM	PNT-1		15.0	6/A600	7/A600	7/A600	PNT DOOR AND FRAME TO MATCH WALL
017	New Construction	G1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		11.0	6/A600	7/A600	7/A600	
020	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		12.0	6/A600	7/A600	7/A600	
021	New Construction	N1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		4.0	6/A600	7/A600	7/A600	
024	Existing	F1	3' - 0"	7' - 0"	WD	EXISTING TO REMAIN	1 3/4"	A	HM	PNT-1		17.0	-	-	-	EXISTING DOOR PNT TO MATCH WALL
025	Existing	F1	3' - 0"	7' - 0"	WD	PNT	1 3/4"	A	HM	PNT-1		13.0	-	-	-	EXISTING DOOR PNT. TO MATCH WALL FINISHES
026	Existing	F1	3' - 0"	7' - 0"	WD	EXISTING TO REMAIN	1 3/4"	A	HM	PNT-1		21.0	-	-	-	EXISTING TO REMAIN PNT FRAME TO MATCH WALL
029	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		9.0	6/A600	7/A600	7/A600	
030	Existing	F1	3' - 0"	7' - 0"	WD	EXISTING TO REMAIN	1 3/4"	A	HM	PNT-1		21.0	-	-	-	EXISTING TO REMAIN PNT FRAME TO MATCH WALL
031	Existing	F1	3' - 0"	7' - 0"	WD	EXISTING TO REMAIN	1 3/4"	A	HM	PNT-1		21.0	-	-	-	EXISTING TO REMAIN PNT FRAME TO MATCH WALL
032A	New Construction	N1	3' - 0"	7' - 0"	WD	PNT TO MATCH WALL	1 3/4"	A	HM	PNT-1		18.0	6/A600	7/A600	7/A600	
032B	New Construction	N1	3' - 0"	7' - 0"	WD	PNT TO MATCH WALL	1 3/4"	A	HM	PNT-1		18.0	6/A600	7/A600	7/A600	
032C	Existing	F1	3' - 0"	7' - 0"	WD	PNT	1 3/4"	A	HM	PNT		13.0	-	-	-	EXISTING EGRESS DOO PNT FRAME& PANEL TO MATCH WALL FINISHES
032D	Existing	F1	3' - 0"	7' - 0"	WD	PNT	1 3/4"	A	HM	PNT		13.0	-	-	-	EXISTING EGRESS DOOR. PNT FRAME& PANEL TO MATCH WALL FINISHES
033A	Existing	F1	3' - 0"	7' - 0"	WD	PNT	1 3/4"	A	HM	PNT		13.0	-	-	-	
102	New Construction	G2	7' - 0"	8' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1	20 MIN	5.0	6/A600	7/A600	7/A600	
FIRST FLOOR																
101	Existing	F2	5' - 0"	7' - 0"	HM		1 3/4"	A	HM			13				
103	New Construction	L2	7' - 0"	7' - 0"	WD	STN TO MATCH EXISTING L1	1 3/4"	A	HM	PNT TO MATCH EXISTING L1 STUDY ROOMS		10.0	6/A600	7/A600	7/A600	LOUVERS PNT. TO MATCH EXISTING STUDY ROOM DOORS
111A	New Construction	F1	2' - 4"	7' - 0"	WD	PNT TO MATCH EXISTING L1	1 3/4"	A	HM	PNT TO MATCH EXISTING L1		12.0	6/A600	7/A600	7/A600	
111B	New Construction	F1	2' - 4"	7' - 0"	WD	PNT TO MATCH EXISTING L1	1 3/4"	A	HM	PNT TO MATCH EXISTING L1		12.0	6/A600	7/A600	7/A600	
SECOND FLOOR																
200	Existing	F1	3' - 0"	7' - 0"	HM	PNT	1 3/4"	A	HM	PNT		13.0	-	-	-	EXISTING DOOR PNT TO MATCH WALL FINISHES
204	Existing	N1	3' - 0"	7' - 0"	WD	EXISTING TO REMAIN	1 3/4"	A	HM	PNT-1		13.0	-	-	-	EXISTING EGRESS DOOR TO FREMAIN PNT FRAME
209	Existing	F1	3' - 0"	7' - 0"	WD	EXISTING TO REMAIN	1 3/4"	A	HM	PNT-1		21.0	-	-	-	EXISTING TO REMAIN PNT FRAME TO MATCH WALL
210	Existing	F1	3' - 0"	7' - 0"	WD	EXISTING TO REMAIN	1 3/4"	A	HM	PNT-1		21.0	-	-	-	EXISTING TO REMAIN PNT FRAME TO MATCH WALL
230	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		9.0	6/A600	7/A600	7/A600	
231	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		19.0	6/A600	7/A600	7/A600	
233	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		9.0	6/A600	7/A600	7/A600	
234	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		9.0	6/A600	7/A600	7/A600	
235	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		9.0	6/A600	7/A600	7/A600	
236	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		9.0	6/A600	7/A600	7/A600	
237	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		9.0	6/A600	7/A600	7/A600	
241A	New Construction	N1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		9.0	6/A600	7/A600	7/A600	
241B	New Construction	N1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		11.0	6/A600	7/A600	7/A600	
242A	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		20.0	6/A600	7/A600	7/A600	
242B	New Construction	N1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		9.0	6/A600	7/A600	7/A600	
244	New Construction	N1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		11.0	6/A600	7/A600	7/A600	
250	New Construction	G2	6' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		1.0	6/A600	7/A600	7/A600	
250B	Existing	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		13.0	-	-	-	EXISTING DOOR TO REMAIN PNT FRAME TO MATCH WALL STN PANEL TO MATCH EXISTING
251	New Construction	G1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		22.0	6/A600	7/A600	7/A600	
255	New Construction	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		9.0	6/A600	7/A600	7/A600	
256	New Construction	N1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		8.0	6/A600	7/A600	7/A600	
257	Existing	F1	3' - 0"	7' - 0"	WD	STN-1	1 3/4"	A	HM	PNT-1		13.0	-	-	-	EXISTING DOOR TO REMAIN PNT TO MATCH WALL STN TO MATCH EXISTING

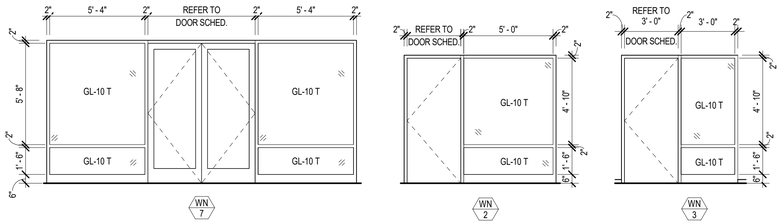




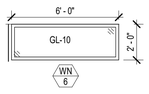
FRAME TYPES

DOOR PANEL TYPES

HM INTERIOR STOREFRONTS:



HM INTERIOR RELIGHT:



RELITE SCHEDULE

TYPE MARK	NOMINAL WIDTH	NOMINAL HEIGHT	FRAME FINISH
1	5' - 4"	4' - 0"	PNT TO MATCH WALL UNO
2	5' - 0"	4' - 0"	PNT TO MATCH WALL
3	3' - 0"	4' - 0"	PNT TO MATCH WALL
6	6' - 0"	2' - 0"	PNT TO MATCH WALL
7	5' - 4"	4' - 0"	PNT TO MATCH WALL

GENERAL DOOR NOTES

1. PROVIDE GLAZING IN ALL DOORS, FRAMES, AND STOREFRONT SYSTEMS PER SCHEDULE, SPECIFICATIONS AND FRAME ELEVATIONS. PROVIDE TEMPERED GLAZING AT ALL LOCATIONS REQUIRED PER BUILDING CODE. SEE SAFETY GLAZING NOTES ON SHEET A050.
2. SEE FLOOR PLANS FOR DIRECTION OF DOOR SWING.
3. REFERENCE FRAME ELEVATION SHEETS --- FOR FRAME TYPES WITHIN WALL ASSEMBLY PER PLAN OR STOREFRONT FRAMING. DOORS TO HAVE FRAME TYPE 'A' UNO.
4. HARDWARE NOTES IN COMMENT SECTION PROVIDED FOR CONVENIENCE ONLY. REFER TO SPECIFICATION SECTION 087100 FOR HARDWARE GROUPS INCLUDING EXIT / PANIC HARDWARE AND ELECTRICAL PREPARATION FOR CURRENT AND FUTURE ELECTRONIC HARDWARE. REFER TO TELECOM PLANS FOR HARDWARE SECURITY DEVICES. ALL HARDWARE MUST MEET CODE REQUIREMENTS FOR ACCESSIBLE ACCESS.
5. FIELD VERIFY ALL ROUGH OPENINGS PRIOR TO FABRICATING FRAMES.
6. FIELD VERIFY ALL EXISTING CONDITIONS.
7. PROVIDE ACOUSTIC DOOR ASSEMBLIES AND SOUND SEAL AT DOORS AND FRAMES WHERE NOTED ON SCHEDULE. REFERENCE HARDWARE SCHEDULE SECTION 087100 FOR SPECIFICATIONS.
8. CODE REQUIRED SIGNAGE TO BE COORDINATED BY OWNER AND GC. CONFIRM SIGN LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
9. WHERE A FLOOR MATERIAL CHANGES BETWEEN ROOMS, MAKE TRANSITION AT CENTERLINE OF DOOR.
10. VERIFY ALL FLOOR TRANSITIONS AND THRESHOLDS MEET ADA REQUIREMENTS.
11. CONTRACTOR TO COORDINATE REQUIRED DOOR JAMB DEPTH WITH ADJACENT WALL ASSEMBLY.

FRAME ABBREVIATIONS

HM	HOLLOW METAL
MFR	FINISH BY MANUFACTURER
PNT	PAINTED
PRE	PREFINISHED

GENERAL FRAME ELEVATION NOTES

1. OVERALL DIMENSIONS SHOWN ARE FINISHED OPENINGS. FIELD VERIFY ALL OPENINGS PRIOR TO FABRICATING FRAMES AND GLAZING UNITS.
2. SEE SPECIFICATIONS FOR DEPTH OF FRAMES.
3. ALL VIEWS FROM EXTERIOR UNLESS NOTED OTHERWISE.

SAFETY GLAZING NOTES

1. PER WSBC SECTION 2406.4.1, SAFETY GLAZING SHALL BE REQUIRED IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS.
2. PER WSBC SECTION 2406.4.2, SAFETY GLAZING SHALL BE REQUIRED IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.
3. PER WSBC SECTION 2406.4.3, SAFETY GLAZING SHALL BE REQUIRED IN FIXED OR OPERABLE WINDOW PANELS THAT MEET ALL OF THE FOLLOWING CONDITIONS:
   A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET.
   B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FLOOR.
   C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36 INCHES ABOVE THE FLOOR
   D. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.
4. PER WSBC SECTION 2406.4.4, SAFETY GLAZING SHALL BE REQUIRED IN ALL GUARDS AND RAILINGS REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE.
5. PER WSBC SECTION 2406.4.6, SAFETY GLAZING SHALL BE REQUIRED WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS.
6. PER WSBC SECTION 2406.4.7, SAFETY GLAZING SHALL BE REQUIRED AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 60 INCHES ABOVE THE LANDING AND WITHIN 60 INCHES HORIZONTALLY OF THE BOTTOM TREAD.

GLAZING LEGEND

GL-10	CLEAR INTERIOR GLAZING
GL-10T	CLEAR INTERIOR GLAZING - TEMPERED

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

DOOR& RELITE SCHEDULE

A030

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

FLOOR PLAN LEGEND

- EXISTING TO REMAIN
- NEW CONSTRUCTION
- LINE OF WORK

1 GROUND FLOOR - FLOOR PLAN
A111 — 1/8" = 1'-0"

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

GROUND FLOOR - FLOOR PLAN
A111

GENERAL REFLECTED CEILING PLAN NOTES

1. EXISTING CEILINGS TO REMAIN UNLESS OTHERWISE NOTED. PROVIDE NEW PAINT AT EXISTING CEILINGS WHERE INDICATED.
2. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND DISCIPLINES
3. ALL MATERIAL HATCHES ARE SHOWN FOR REFERENCE ONLY AND DO NOT INDICATE DIRECTION OR ORIENTATION OF MATERIAL.
4. LIGHT FIXTURES SHOWN FOR REFERENCE ONLY; LAYOUT TBD.
5. COORDINATE LAYOUT OF MECHANICAL AND ELECTRICAL EQUIPMENT/SYSTEMS REQUIRING ACCESS WITH FINISHED CEILING CONFIGURATION.
6. ASSUME NEW SUPPLY/RETURN AND EXHAUST GRILLES WHERE NEW CEILINGS ARE SPECIFIED. REFERENCE MECHANICAL.
7. ALL EXISTING EXIT SIGNS TO REMAIN- REMOVE, SALVAGE AND REINSTALL AS NOTED IN RCPS
8. ALL EXISTING PLASTER CEILING TO BE CLEAN AND PAINTED

REFLECTED CEILING PLAN LEGEND

CEILING MATERIALS & SYMBOLS:

- WP — WORK POINT FOR CEILING TILE/PANEL GRID @ WALL INTERSECTIONS, OR AS NOTED
- EXIT SIGN
- SUSPENDED T-GRID & ACT, 2'x2'
- GYPSUM BOARD CEILING
- EXISTING TO REMAIN

1 A113 — **GROUND FLOOR - RCP**
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR - RCP

A113

GENERAL FINISH PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, U.N.O.
2. FINISH PLANS CONVEY EXTENTS AT TRANSITIONS OF FLOOR FINISH MATERIALS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES.
4. FLOOR FINISHES TO EXTEND UNDER MILLWORK, CASEWORK, COUNTERTOPS, STAIRS U.N.O.
5. AT CONDITIONS WITH FLOORS SLOPED TO DRAIN, PROVIDE A FLAT SURFACE DIRECTLY UNDER ALL FLOOR MOUNTED TOILETS.
6. ACOUSTIC WALL TILE (SAP-) EXTENTS SHOWN ON FINISH PLANS; REFER TO INTERIOR ELEVATIONS.
7. EXISTING COLUMNS TO RECEIVE SAME WALL FINISH AND BASE AS ASSIGNED TO SURROUNDING ROOM. UNO.
8. REFER TO FLOOR FINISH LEGEND AND FLOOR TRANSITIONS BELOW FOR FLOOR TRANSITION DETAILS.

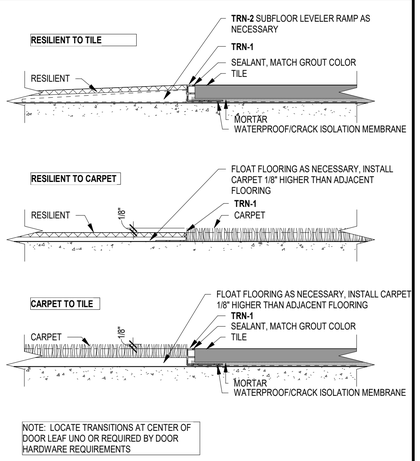
FLOOR FINISH LEGEND

XX | XX — FLOOR TRANSITION

FLOOR FINISHES (PATTERNS ARE REPRESENTATIVE ONLY)

- CPT - FIELD CARPET TILE
- CPT- ACCENT CARPET TILE
- RF - RESILIENT FLOOR
- T-1 FLOOR TILE
- WOM WALK OFF MAT

FLOOR TRANSITIONS



NOTE: LOCATE TRANSITIONS AT CENTER OF DOOR LEAF UNO OR REQUIRED BY DOOR HARDWARE REQUIREMENTS

1 A114 **GROUND FLOOR - FINISH PLAN**

1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

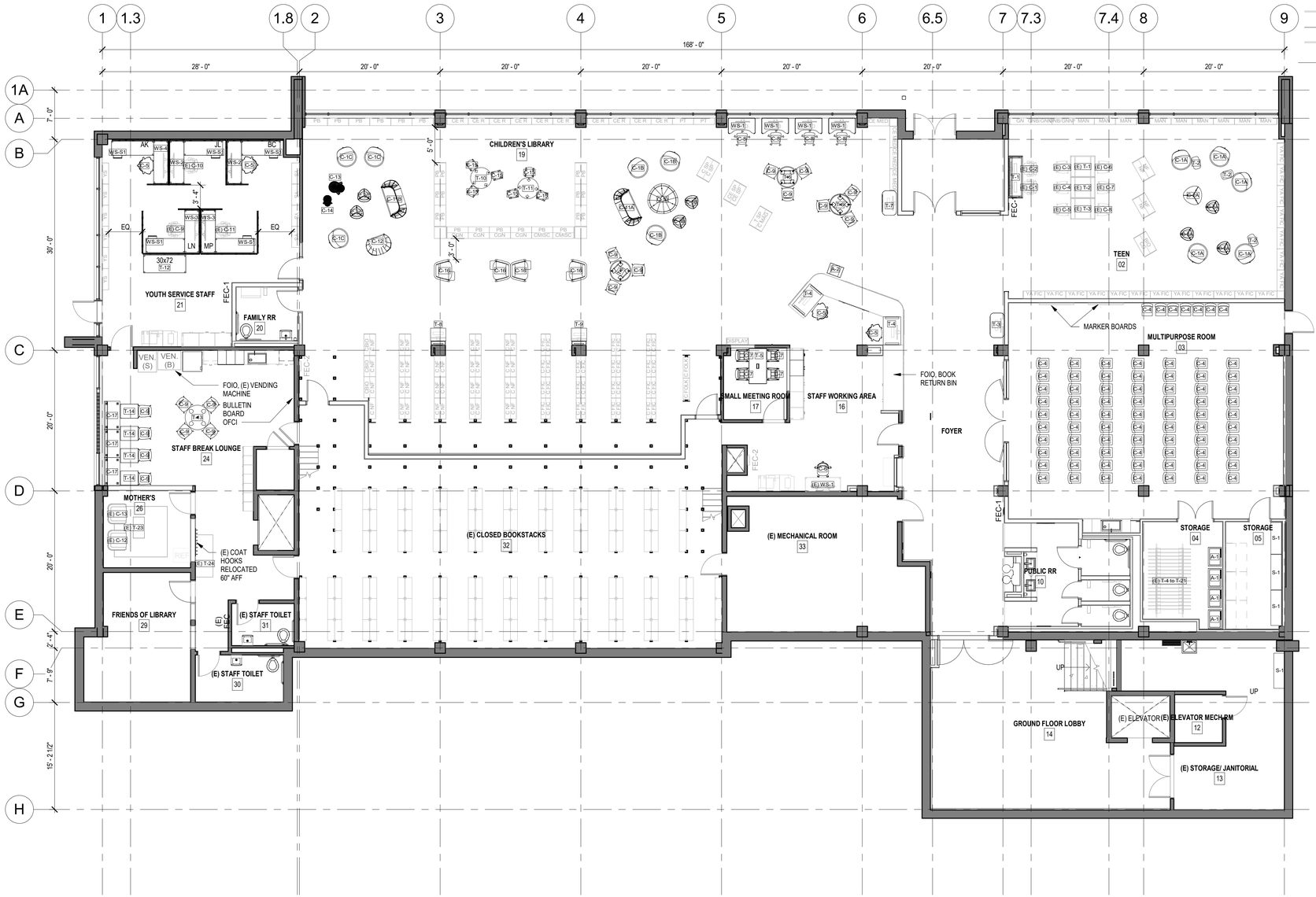
Drawn: RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR - FINISH PLAN

A114



1 A115 **GROUND FLOOR - FFE PLAN**

1/8" = 1'-0"

GENERAL FFE PLAN NOTES

1. **FFE PLANS INCLUDED IN BID SET FOR REFERENCE ONLY. FOIO. GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION WITH OWNER AND VENDOR UNO.**
2. ALL NEW MOVEABLE FURNITURE TO BE PROVIDED AND INSTALLED BY FURNITURE VENDOR. TARGETED PIECES TO BE SALVAGED. FURNITURE SALVAGE SCOPE TO BE COORDINATED W/ OWNER. REFER TO SCHEDULES AND PLANS FOR APPROPRIATE LOCATIONS.
3. FURNITURE LAYOUT AND BASIS OF DESIGN IS PROVIDED FOR PURPOSES OF COORDINATION AND EGRESS ROUTES.
4. ALL BUILT-IN CASEWORK AND BUILDING FINISHES ARE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
5. NO ELECTRICAL DEVICES, DRAINS OR OTHER UTILITY DEVICES MAYBE LOCATED UNDER CASEWORK LOCATIONS U.N.O.

FURNITURE ITEMS TO BE SALVAGED AND REUSED

FURNITURE ITEMS TO BE PURCHASED NEW

SHELVING SHOWN FOR REFERENCE- REFER TO SHELVING PLANS

FURNITURE SCHEDULE

TYPE MARK	DESCRIPTION	TOTAL
02		
TEEN		
(E) C-1	Task Chair	1
(E) C-2	Task Chair	1
(E) C-3	Side Chair	1
(E) C-4	Side Chair	1
(E) C-5	Side Chair	1
(E) C-6	Side Chair	1
(E) C-7	Side Chair	1
(E) C-8	Side Chair	1
(E) T-1	Work Table	1
(E) T-2	Work Table	1
(E) T-3	Work Table	1
C-1A	Lounge Chair	5
C-2A	Ottoman Medium	1
C-3A	Ottoman Small	3
T-1	Computer Table	1
T-2	Laptop Table	3
03		
MULTIPURPOSE ROOM		
	Marker Board	2
C-4	Stacking Chair	77
04		
STORAGE		
(E) T-4 to T-21	Rectangular Table	18
A-1	Chair Dolly	4
16		
STAFF WORKING AREA		
(E) WS-1	Workstation	1
C-5	Task Chair	2
C-6	Task Chair Armless	1
T-4	Sit Stand Desk	2
17		
SMALL MEETING ROOM		
C-7	Office Chair	4
T-5	Conference Table	1
19		
CHILDREN'S LIBRARY		
A-2	Kids Foot Stool	1
C-1B	Lounge Chair	3
C-1C	Lounge Chair	3
C-3B	Ottoman Small	2
C-3C	Ottoman Small	2
C-8	Task Chair	4
C-9	Side Chair	9
C-10	Ottoman Large	1
C-11A	Loveseat	1
C-11B	Loveseat	1
C-12	Oversized Chair	1
C-13	Accent Furniture - Bird Seat Large	1
C-14	Accent Furniture - Bird Seat Small	1
C-15	Children's Chair	6
C-16	High Back Privacy Chair	4
T-3	Self Checkout Station	1
T-6	Mobile Round Table	3
T-7	Self Checkout Station	1
T-8	Computer Table	1
T-9	Computer Table	1
T-10	Round Table	1
T-11	Round Table	1
WS-1	Workstation w/Privacy Panels	4
21		
YOUTH SERVICE STAFF		
(E) C-9	Task Chair	1
(E) C-10	Task Chair	1
(E) C-11	Task Chair	1
C-5	Task Chair	2
T-12	Work Table	1
WS-2	Workstation	2
WS-3	Workstation	2
WS-4	Workstation	1
WS-S1	Pedestal File Storage	5
24		
STAFF BREAK LOUNGE		
(E) T-24	Utility Table	1
C-9	Side Chair	8
C-17	Bench Seat	3
T-13	Round Table	1
T-14	Cafe Table	4
26		
MOTHER'S		
(E) C-12	Lounge Chair	1
(E) C-13	Lounge Chair	1
(E) T-23	Coffee Table	1
Grand total: 225		

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

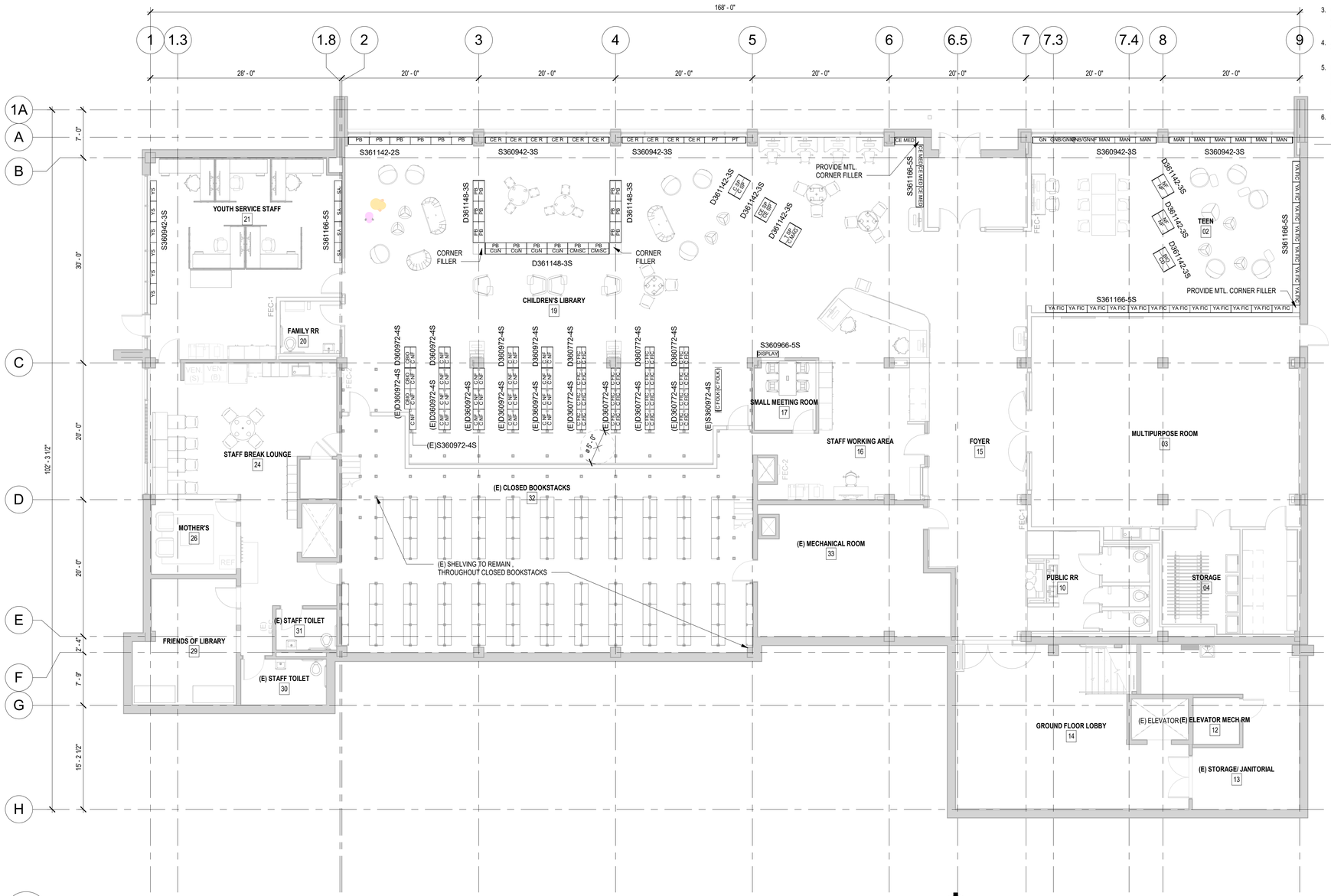
Drawn: RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR - FFE PLAN

A115



1 A116 **GROUND FLOOR - SHELVING PLAN**

1/8" = 1'-0"

GENERAL NOTES

1. **SHELVING PLANS INCLUDED IN BID SET FOR REFERENCE ONLY. FOIO. GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION BETWEEN OWNER AND SHELVING CONTRACTOR**
2. ALL LIBRARY SHELVING TO BE SALVAGED, DISASSEMBLED AS REQUIRED, STORED AND REINSTALLED BY THE LIBRARY'S SHELVING CONTRACTOR AS INDICATED IN THE SHELVING SALVAGE PLANS. THE SHELVING CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE GENERAL CONTRACTOR REGARDING INSTALLATION SCHEDULE, SITE ACCESS, MATERIAL DELIVERY, STORAGE AND STAGING REQUIREMENTS.
3. LIBRARY SHELVING WILL BE INSTALLED OVER EXISTING FLOOR STRUCTURE WITHIN TEENS, CHILDREN'S AND YOUTH SERVICES STAFF AREAS. SHELVING CONTRACTOR IS RESPONSIBLE FOR DESIGNING A CONNECTION TO THE EXISTING SLABS OR WALLS FOR UNITS REQUIRED TO BE SEISMICALLY ANCHORED.
4. ALL SHELVING TO RECEIVE TOP AND END PANELS UNLESS NOTED OTHERWISE IN SCHEDULE. APPLEPLY VENEER PANELS STAINED TO MATCH LEVEL 1 EXISTING PANELS.
5. END PANELS ARE REQUIRED AT EXPOSED ENDS OF SHELVING RUNS ONLY. END PANELS ARE NOT REQUIRED BETWEEN ADJACENT UNITS WITHIN A CONTINUOUS RUN. SINGLE-SIDED ESTEY UNITS IN PUBLIC AREAS SHALL RECEIVE APPLEPLY VENEER END PANELS WITHOUT LAMINATE BASE. EXISTING METAL UNITS SHALL RECEIVE END PANELS PER 1/A700 SIM CONDITION. MOBILE BASE UNITS SHALL RECEIVE END PANELS PER 1/A700.
6. REFER TO SHELVING SCHEDULE FOR SHELVING HEIGHTS. HEIGHT IS INDICATED IN LAST TWO DIGITS OF "TYPE MARK" EXAMPLE: D361**142**-3S INDICATES A 42" TALL SHELVING UNIT.

GROUND FLOOR SHELVING COLLECTION SCHEDULE

TYPE MARK	MFR	COLLECTION TYPE SIDE 1	COLLECTION TYPE SIDE 2	COUNT	COMMENTS
D360772-4S	ESTEY	C FIC	C FIC	3	Refer detail 3/A701
D360972-4S	ESTEY	C NF	C NF	3	Refer detail 3/A701
D360972-4S	ESTEY	CBIO	C NF	1	Refer detail 3/A701
D361142-3S	ESTEY	BIO	CD	1	Casters
D361142-3S	ESTEY	C SP	C SP	1	Casters
D361142-3S	ESTEY	CE SP	CE SP	1	Casters
D361142-3S	ESTEY	NF	NF	2	Casters
D361142-3S	ESTEY	T SP	C MAG	1	Casters
D361148-3S	ESTEY	PB	CGN	4	Casters
D361148-3S	ESTEY	PB	CMSC	2	Casters
D361148-3S	ESTEY	PB	PB	6	Casters
S360942-3S	ESTEY	CE R		10	
S360942-3S	ESTEY	GN		1	
S360942-3S	ESTEY	GNB/GNNF		2	
S360942-3S	ESTEY	MAN		9	
S360942-3S	ESTEY	PT		2	
S360942-3S	ESTEY	YS		6	No end panels or top panels
S360966-5S	ESTEY	DISPLAY		1	
S361142-2S	ESTEY	PB		6	
S361166-5S	ESTEY	CE MED		4	
S361166-5S	ESTEY	YA FIC		19	
S361166-5S	ESTEY	YS		4	No end panels or top panels
(E)D360772-4S	EXISTING STEEL	C FIC	C FIC	12	
(E)D360972-4S	EXISTING STEEL	C NF	C NF	12	
(E)D360972-4S	EXISTING STEEL	CBIO	C NF	2	
(E)S360972-4S	EXISTING STEEL	C FOLK		2	
(E)S360972-4S	EXISTING STEEL	C NF		1	

118

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

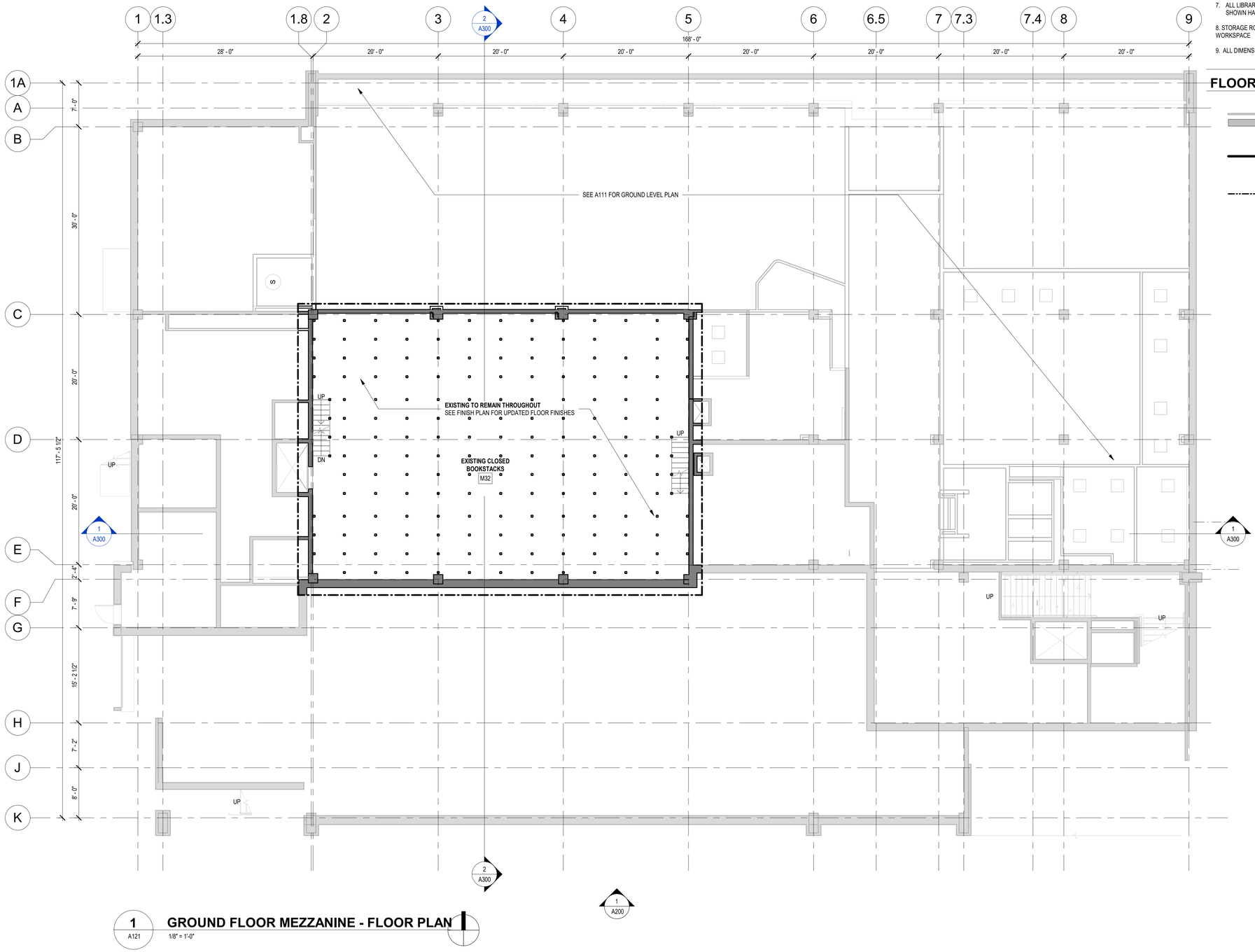
Drawn: RS
Checked: RB
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR-SHELVING PLAN

A116



1 A121 **GROUND FLOOR MEZZANINE - FLOOR PLAN**
1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

FLOOR PLAN LEGEND

EXISTING TO REMAIN

NEW CONSTRUCTION

LINE OF WORK

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

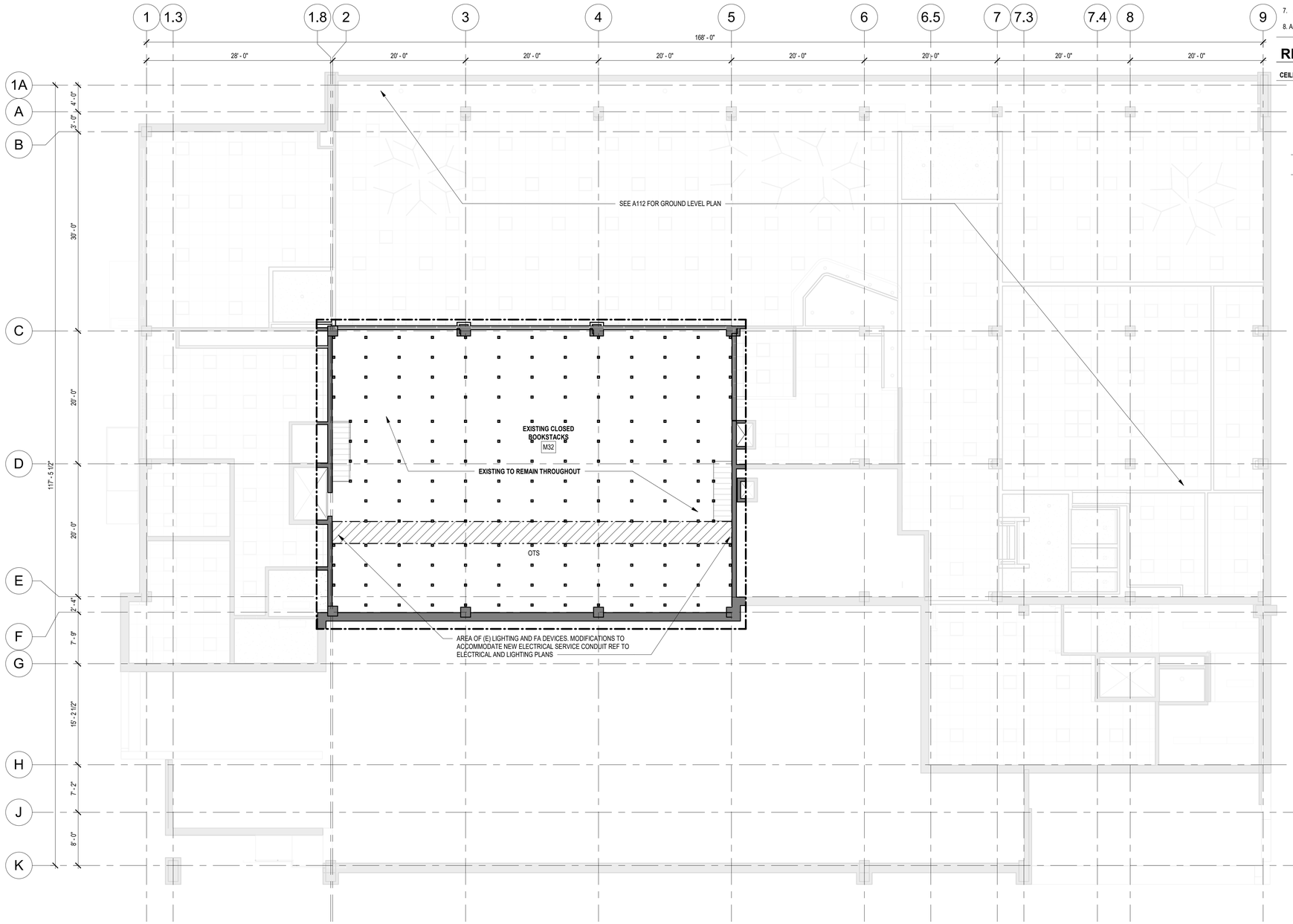
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR MEZZANINE - PLAN

A121



1 A123 **GROUND FLOOR MEZZANINE - RCP**

1/8" = 1'-0"

GENERAL REFLECTED CEILING PLAN NOTES

1. EXISTING CEILINGS TO REMAIN UNLESS OTHERWISE NOTED. PROVIDE NEW PAINT AT EXISTING CEILINGS WHERE INDICATED.
2. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND DISCIPLINES
3. ALL MATERIAL HATCHES ARE SHOWN FOR REFERENCE ONLY AND DO NOT INDICATE DIRECTION OR ORIENTATION OF MATERIAL.
4. LIGHT FIXTURES SHOWN FOR REFERENCE ONLY; LAYOUT TBD.
5. COORDINATE LAYOUT OF MECHANICAL AND ELECTRICAL EQUIPMENT/SYSTEMS REQUIRING ACCESS WITH FINISHED CEILING CONFIGURATION.
6. ASSUME NEW SUPPLY/RETURN AND EXHAUST GRILLES WHERE NEW CEILINGS ARE SPECIFIED. REFERENCE MECHANICAL.
7. ALL EXISTING EXIT SIGNS TO REMAIN- REMOVE, SALVAGE AND REINSTALL AS NOTED IN RCPS
8. ALL EXISTING PLASTER CEILING TO BE CLEAN AND PAINTED

REFLECTED CEILING PLAN LEGEND

CEILING MATERIALS & SYMBOLS:

- WP — WORK POINT FOR CEILING TILE/PANEL GRID @ WALL INTERSECTIONS, OR AS NOTED
- EXIT SIGN
- SUSPENDED T-GRID & ACT, 2'x2'
- GYPSUM BOARD CEILING
- EXISTING TO REMAIN

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR MEZZANINE- RCP

A123

GENERAL FINISH PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, U.N.O.

2. FINISH PLANS CONVEY EXTENTS AT TRANSITIONS OF FLOOR FINISH MATERIALS.

3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES.

4. FLOOR FINISHES TO EXTEND UNDER MILLWORK, CASEWORK, COUNTERTOPS, STAIRS U.N.O.

5. AT CONDITIONS WITH FLOORS SLOPED TO DRAIN, PROVIDE A FLAT SURFACE DIRECTLY UNDER ALL FLOOR MOUNTED TOILETS.

6. ACOUSTIC WALL TILE (SAP-) EXTENTS SHOWN ON FINISH PLANS; REFER TO INTERIOR ELEVATIONS.

7. EXISTING COLUMNS TO RECEIVE SAME WALL FINISH AND BASE AS ASSIGNED TO SURROUNDING ROOM. UNO.

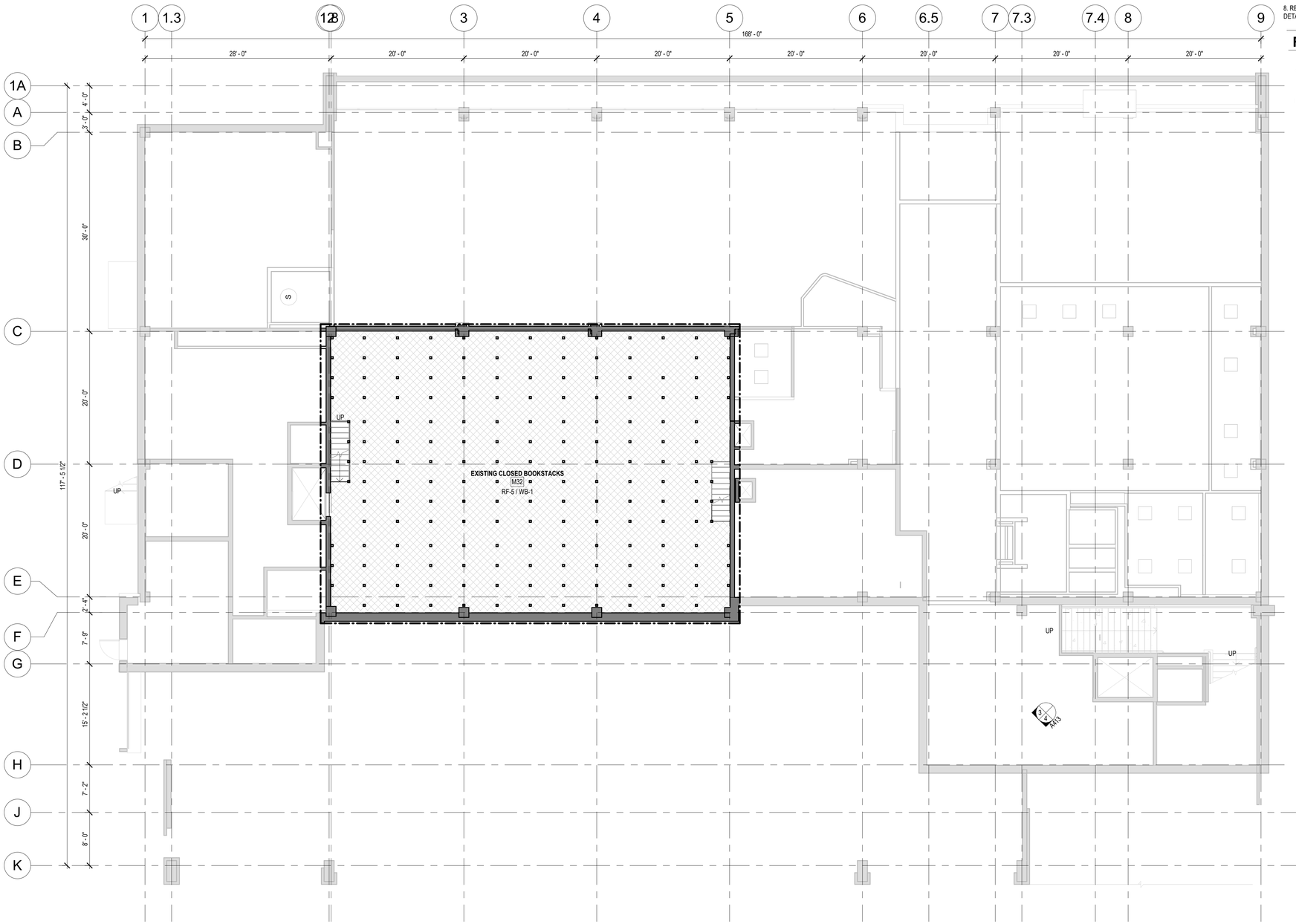
8. REFER TO FLOOR FINISH LEGEND AND FLOOR TRANSITIONS BELOW FOR FLOOR TRANSITION DETAILS.

FLOOR FINISH LEGEND

XX | XX — FLOOR TRANSITION

FLOOR FINISHES

RF - RESILIENT FLOOR



1 A124 **GROUND FLOOR MEZZANINE - FINISH PLAN**

1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR MEZZANINE - FINISH PLAN

A124

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

FLOOR PLAN LEGEND

- EXISTING TO REMAIN
- NEW CONSTRUCTION
- LINE OF WORK

1 A131 **FIRST FLOOR - FLOOR PLAN**
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

FIRST FLOOR - FLOOR PLAN

A131

GENERAL REFLECTED CEILING PLAN NOTES

1. EXISTING CEILINGS TO REMAIN UNLESS OTHERWISE NOTED. PROVIDE NEW PAINT AT EXISTING CEILINGS WHERE INDICATED.
2. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND DISCIPLINES
3. ALL MATERIAL HATCHES ARE SHOWN FOR REFERENCE ONLY AND DO NOT INDICATE DIRECTION OR ORIENTATION OF MATERIAL.
4. LIGHT FIXTURES SHOWN FOR REFERENCE ONLY; LAYOUT TBD.
5. COORDINATE LAYOUT OF MECHANICAL AND ELECTRICAL EQUIPMENT/SYSTEMS REQUIRING ACCESS WITH FINISHED CEILING CONFIGURATION.
6. ASSUME NEW SUPPLY/RETURN AND EXHAUST GRILLES WHERE NEW CEILINGS ARE SPECIFIED. REFERENCE MECHANICAL.
7. ALL EXISTING EXIT SIGNS TO REMAIN- REMOVE, SALVAGE AND REINSTALL AS NOTED IN RCPS
8. ALL EXISTING PLASTER CEILING TO BE CLEAN AND PAINTED

REFLECTED CEILING PLAN LEGEND

CEILING MATERIALS & SYMBOLS:

- WP — WORK POINT FOR CEILING TILE/PANEL GRID @ WALL INTERSECTIONS, OR AS NOTED
- EXIT SIGN
- SUSPENDED T-GRID & ACT, 2'x2'
- GYPSUM BOARD CEILING
- EXISTING TO REMAIN

1 1.3 1.8 2 3 4 5 6 6.5 7 7.3 7.4 8 9

28' - 0" | 20' - 0" | 20' - 0" | 20' - 0" | 20' - 0" | 20' - 0" | 20' - 0" | 20' - 0" | 20' - 0"

168' - 0"

1A A B C D E F G H J K

4' - 0" | 2' - 0" | 30' - 0" | 20' - 0" | 11'7 - 5 1/2" | 20' - 0" | 2' - 4" | 7' - 8" | 15' - 2 1/2" | 7' - 2" | 8' - 0"

SEATING AND PERIODICALS 118

AREA OF MECHANICAL WORK ABOVE. CEILING TO BE RETURNED TO EXISTING CONDITION AFTER COMPLETION OF WORK ABOVE CEILING TILES. PART OF BASE BID

COLLECTIONS 119

SQUARE OFF EXISTING GYP SOFFIT REUSE AND REPLACE (E) LIGHT FIXTURES REF TO ELECTRICAL

CONT. EDGE REVEAL FOR PLENUM AIR RETURN AT NEW SOFFIT TO MATCH EXISTING

NEW ACT, MATCH EXISTING

LIMIT OF WORK **ALTERNATE 3:** HELP DESK AND COMPUTER SWAP

LIMIT OF WORK INCLUDED IN **BASE SCOPE**

LIGHTING FIXTURES TO REPLACE REMOVED FIXTURES. SEE LIGHTING DRAWINGS

PUBLIC COMPUTERS 115

ALIGN

ALIGN

PNT-1

ALIGN

ALIGN

8' - 3" A.F.F.

EXISTING LIGHTING TO REMAIN THROUGHOUT FIRST FLOOR UNO

AREA NOT IN PROJECT SCOPE

8' - 6" A.F.F.

HOLDS / PICK UP 113

HELP DESK 114

PNT-1

(E) GWB SOFIT 8' - 3" A.F.F.

15 / A401

TOILET ROOM 111B

TOILET ROOM 111A

LIMIT OF WORK: **ALTERNATE 1**

SELF CHECK-OUT 110

TOILET ROOM 112

AREA OF PLUMBING WORK ABOVE. CEILING TO BE RETURNED TO EXISTING CONDITION AFTER COMPLETION OF WORK ABOVE CEILING TILES

DONATIONS 106

MATERIAL RETURNS 107

OPEN TO ABOVE

(E) ELEVATOR

FICTION 121

LIMIT OF WORK **ALTERNATE 2**

8 / A431

(E) METAL SLAT CEILING TO BE PRIMED AND PNT-1

FIXTURES IN METAL CEILING TO REMAIN. RELAMP AND REPLACE LENS SEE LIGHTING DRAWINGS

REMOVE AND REINSTALL (E) EXIT SIGN AS NEEDED CONTRACTOR TO PROVIDE TEMPORARY EGRESS SIGNAGE

OPEN TO ABOVE

STUDY ROOM 105

STUDY ROOM 104

FLEX MEETING SPACE 103

2 / A431

1 / A133 **FIRST FLOOR - RCP**

1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

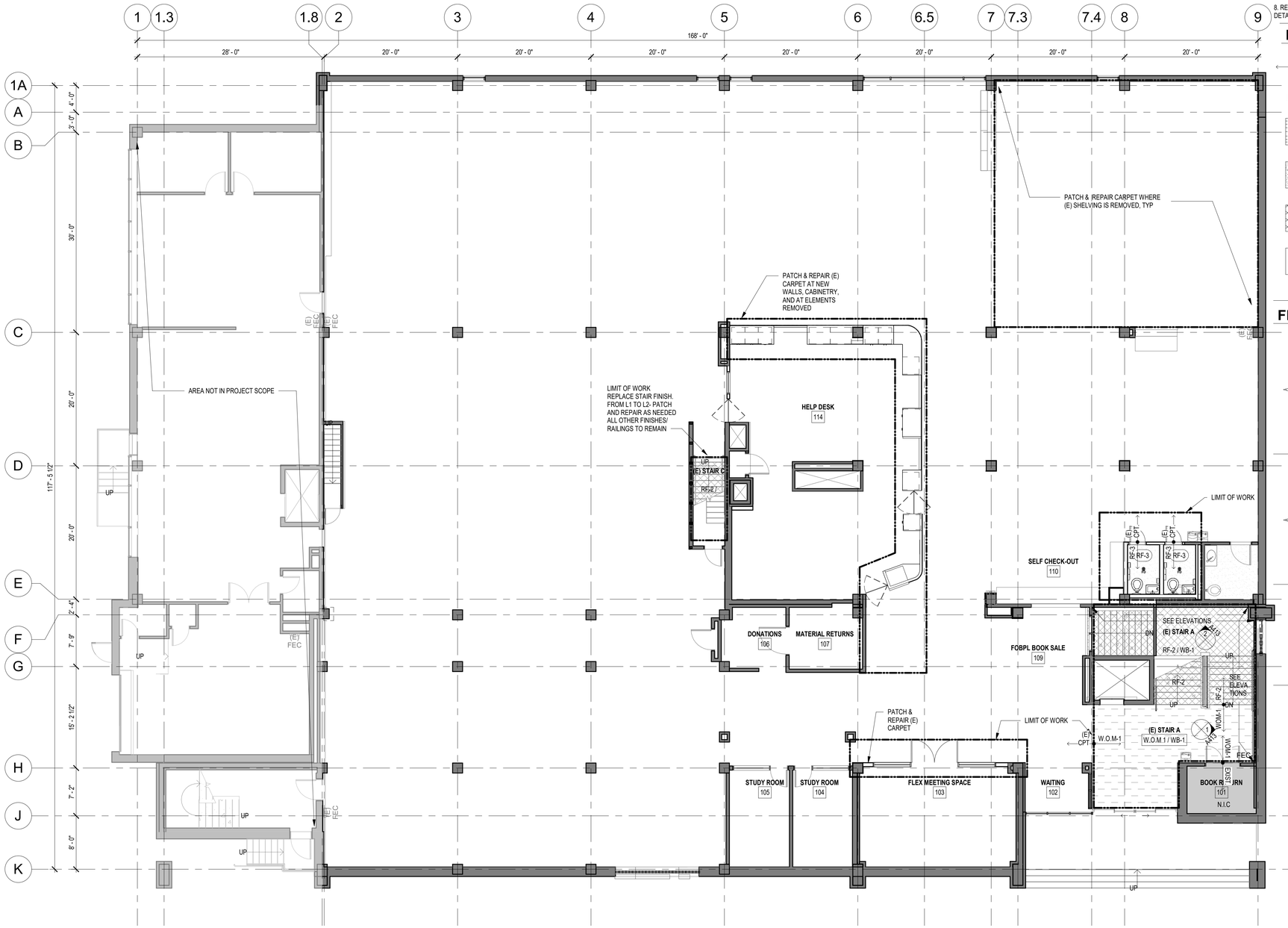
SHEET

FIRST FLOOR - RCP

A133

GENERAL FINISH PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, U.N.O.
2. FINISH PLANS CONVEY EXTENTS AT TRANSITIONS OF FLOOR FINISH MATERIALS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES.
4. FLOOR FINISHES TO EXTEND UNDER MILLWORK, CASEWORK, COUNTERTOPS, STAIRS U.N.O.
5. AT CONDITIONS WITH FLOORS SLOPED TO DRAIN, PROVIDE A FLAT SURFACE DIRECTLY UNDER ALL FLOOR MOUNTED TOILETS.
6. ACOUSTIC WALL TILE (SAP-) EXTENTS SHOWN ON FINISH PLANS; REFER TO INTERIOR ELEVATIONS.
7. EXISTING COLUMNS TO RECEIVE SAME WALL FINISH AND BASE AS ASSIGNED TO SURROUNDING ROOM. UNO.
8. REFER TO FLOOR FINISH LEGEND AND FLOOR TRANSITIONS BELOW FOR FLOOR TRANSITION DETAILS.



FLOOR FINISH LEGEND

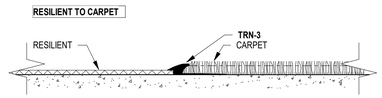
XX | XX — FLOOR TRANSITION

FLOOR FINISHES (PATTERNS ARE REPRESENTATIVE ONLY)

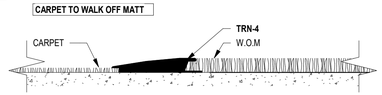
- WOM - WALK OFF MAT
- RF - RESILIENT FLOOR POURED
- RF - RESILIENT FLOOR
- (E) CPT CARPET EXISTING

FLOOR TRANSITIONS

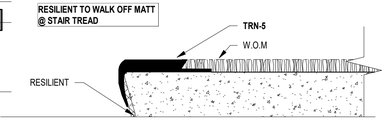
RESILIENT TO CARPET



CARPET TO WALK OFF MATT



RESILIENT TO WALK OFF MATT @ STAIR TREAD



1 A134 **FIRST FLOOR - FINISH PLAN**
1/8" = 1'-0"

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 08/07/26

SHEET

FIRST FLOOR - FINISH PLAN
A134

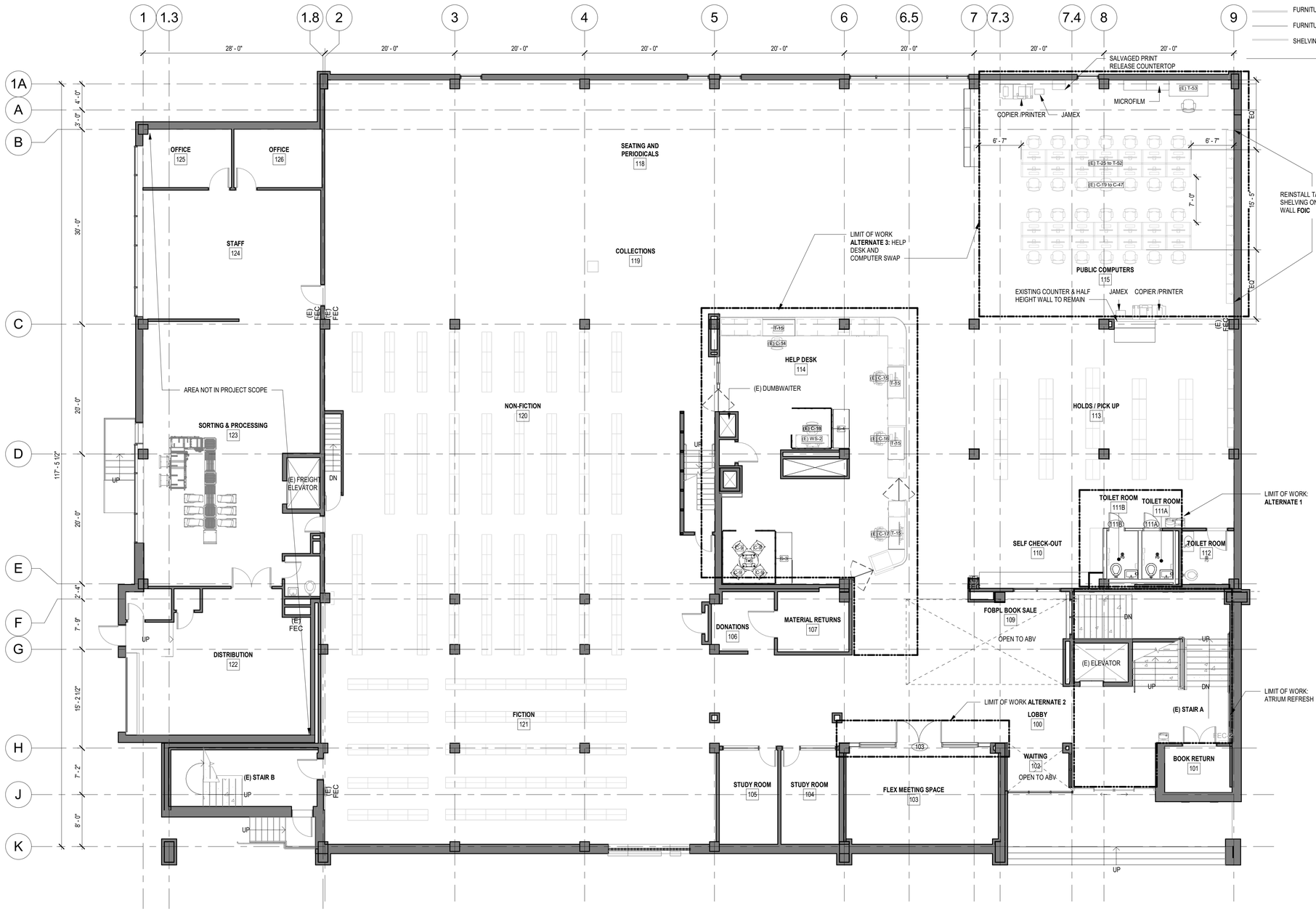
GENERAL FFE PLAN NOTES

1. **FFE PLANS INCLUDED IN BID SET FOR REFERENCE ONLY. FOIO. GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION WITH OWNER AND VENDOR UNO.**
2. ALL NEW MOVEABLE FURNITURE TO BE PROVIDED AND INSTALLED BY FURNITURE VENDOR. TARGETED PIECES TO BE SALVAGED. FURNITURE SALVAGE SCOPE TO BE COORDINATED W/ OWNER. REFER TO SCHEDULES AND PLANS FOR APPROPRIATE LOCATIONS.
3. FURNITURE LAYOUT AND BASIS OF DESIGN IS PROVIDED FOR PURPOSES OF COORDINATION AND EGRESS ROUTES.
4. ALL BUILT-IN CASEWORK AND BUILDING FINISHES ARE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
5. NO ELECTRICAL DEVICES, DRAINS OR OTHER UTILITY DEVICES MAYBE LOCATED UNDER CASEWORK LOCATIONS U.N.O.

FURNITURE ITEMS TO BE SALVAGED AND REUSED

FURNITURE ITEMS TO BE PURCHASED NEW

SHELVING SHOWN FOR REFERENCE- REFER TO SHELVING PLANS



FURNITURE SCHEDULE		
TYPE MARK	DESCRIPTION	TOTAL
114		
HELP DESK		
(E) C-14	Task Chair	1
(E) C-15	Task Chair	1
(E) C-16	Task Chair	1
(E) C-17	Task Chair	1
(E) C-18	Task Chair	1
(E) WS-2	Workstation	1
C-9	Side Chair	4
S-3	Media Storage	1
S-4	Media Storage	1
T-6	Mobile Round Table	1
T-15	Sit Stand Desk	4
115		
PUBLIC COMPUTERS		
(E) C-19 to C-47	Task Chair	29
(E) T-25 to T-52	Computer Station	28
(E) T-53	Rectangular Table	1
Grand total: 75		

1 A135 **FIRST FLOOR - FFE PLAN**

1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

FIRST FLOOR - FFE PLAN

A135

1 A141 **SECOND FLOOR - FLOOR PLAN**

1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

FLOOR PLAN LEGEND

EXISTING TO REMAIN

NEW CONSTRUCTION

LINE OF WORK

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SECOND FLOOR-FLOOR PLAN

A141

GENERAL REFLECTED CEILING PLAN NOTES

1. EXISTING CEILINGS TO REMAIN UNLESS OTHERWISE NOTED. PROVIDE NEW PAINT AT EXISTING CEILINGS WHERE INDICATED.
2. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND DISCIPLINES
3. ALL MATERIAL HATCHES ARE SHOWN FOR REFERENCE ONLY AND DO NOT INDICATE DIRECTION OR ORIENTATION OF MATERIAL.
4. LIGHT FIXTURES SHOWN FOR REFERENCE ONLY; LAYOUT TBD.
5. COORDINATE LAYOUT OF MECHANICAL AND ELECTRICAL EQUIPMENT/SYSTEMS REQUIRING ACCESS WITH FINISHED CEILING CONFIGURATION.
6. ASSUME NEW SUPPLY/RETURN AND EXHAUST GRILLES WHERE NEW CEILINGS ARE SPECIFIED. REFERENCE MECHANICAL.
7. ALL EXISTING EXIT SIGNS TO REMAIN- REMOVE, SALVAGE AND REINSTALL AS NOTED IN RCPS
8. ALL EXISTING PLASTER CEILING TO BE CLEAN AND PAINTED

REFLECTED CEILING PLAN LEGEND

CEILING MATERIALS & SYMBOLS:

- WP — WORK POINT FOR CEILING TILE/PANEL GRID @ WALL INTERSECTIONS, OR AS NOTED
- EXIT SIGN
- SUSPENDED T-GRID & ACT, 2'x2'
- GYPSUM BOARD CEILING
- EXISTING TO REMAIN

1 A143 **SECOND FLOOR - RCP**
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

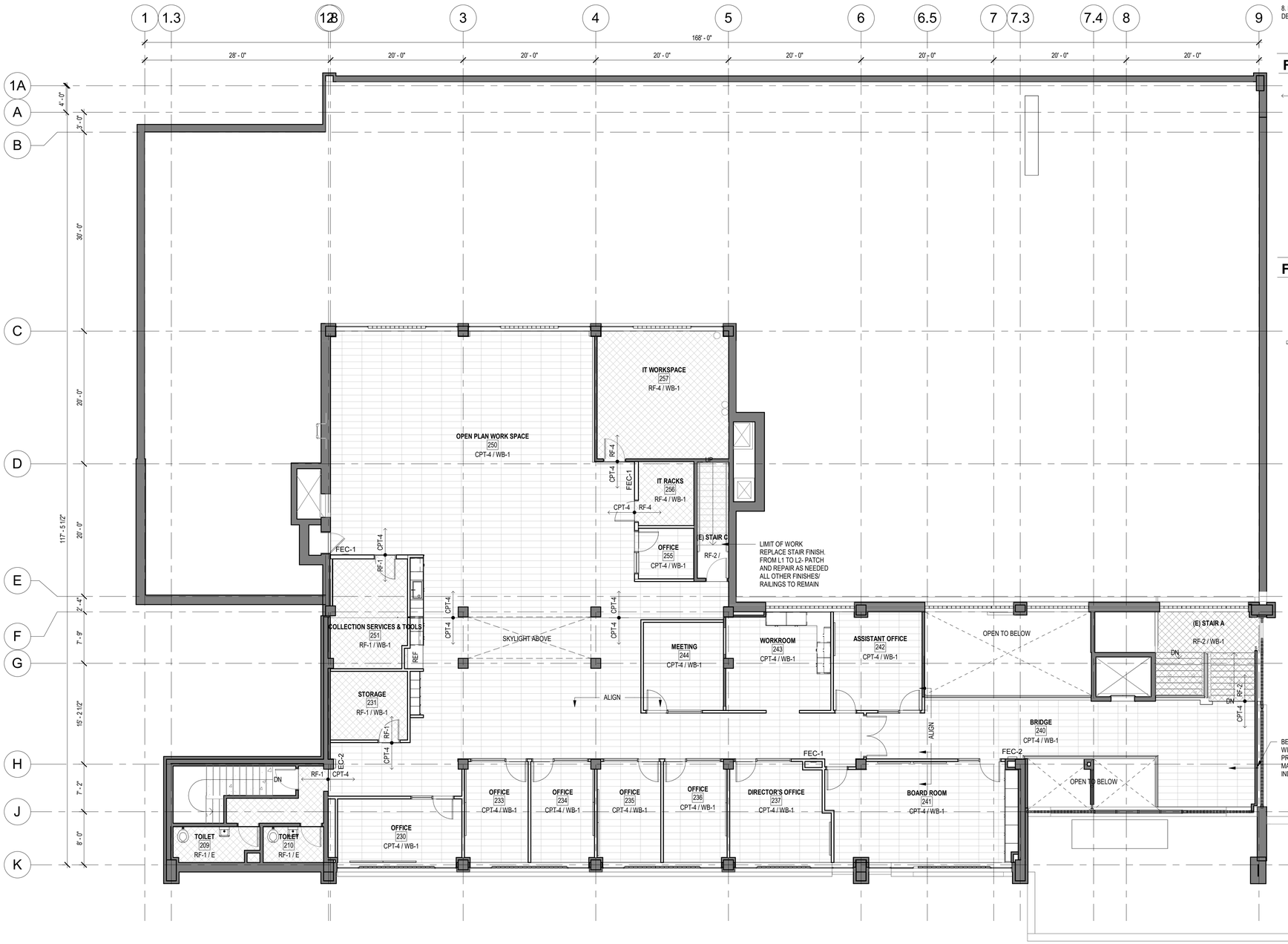
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SECOND FLOOR - RCP

A143



1 / A144 **SECOND FLOOR - FINISH PLAN**

1/8" = 1'-0"

GENERAL FINISH PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, U.N.O.
2. FINISH PLANS CONVEY EXTENTS AT TRANSITIONS OF FLOOR FINISH MATERIALS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES.
4. FLOOR FINISHES TO EXTEND UNDER MILLWORK, CASEWORK, COUNTERTOPS, STAIRS U.N.O.
5. AT CONDITIONS WITH FLOORS SLOPED TO DRAIN, PROVIDE A FLAT SURFACE DIRECTLY UNDER ALL FLOOR MOUNTED TOILETS.
6. ACOUSTIC WALL TILE (SAP-) EXTENTS SHOWN ON FINISH PLANS; REFER TO INTERIOR ELEVATIONS.
7. EXISTING COLUMNS TO RECEIVE SAME WALL FINISH AND BASE AS ASSIGNED TO SURROUNDING ROOM. UNO.
8. REFER TO FLOOR FINISH LEGEND AND FLOOR TRANSITIONS BELOW FOR FLOOR TRANSITION DETAILS.

FLOOR FINISH LEGEND

XX | XX — FLOOR TRANSITION

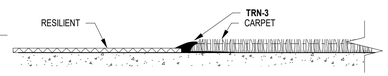
FLOOR FINISHES (PATTERNS ARE REPRESENTATIVE ONLY)

CPT - FIELD CARPET TILE

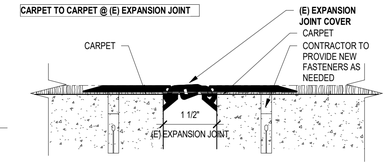
RF - RESILIENT FLOOR

FLOOR TRANSITIONS

RESILIENT TO CARPET



CARPET TO CARPET @ (E) EXPANSION JOINT



NOTE: LOCATE TRANSITIONS AT CENTER OF DOOR LEAF UNO OR REQUIRED BY DOOR HARDWARE REQUIREMENTS

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

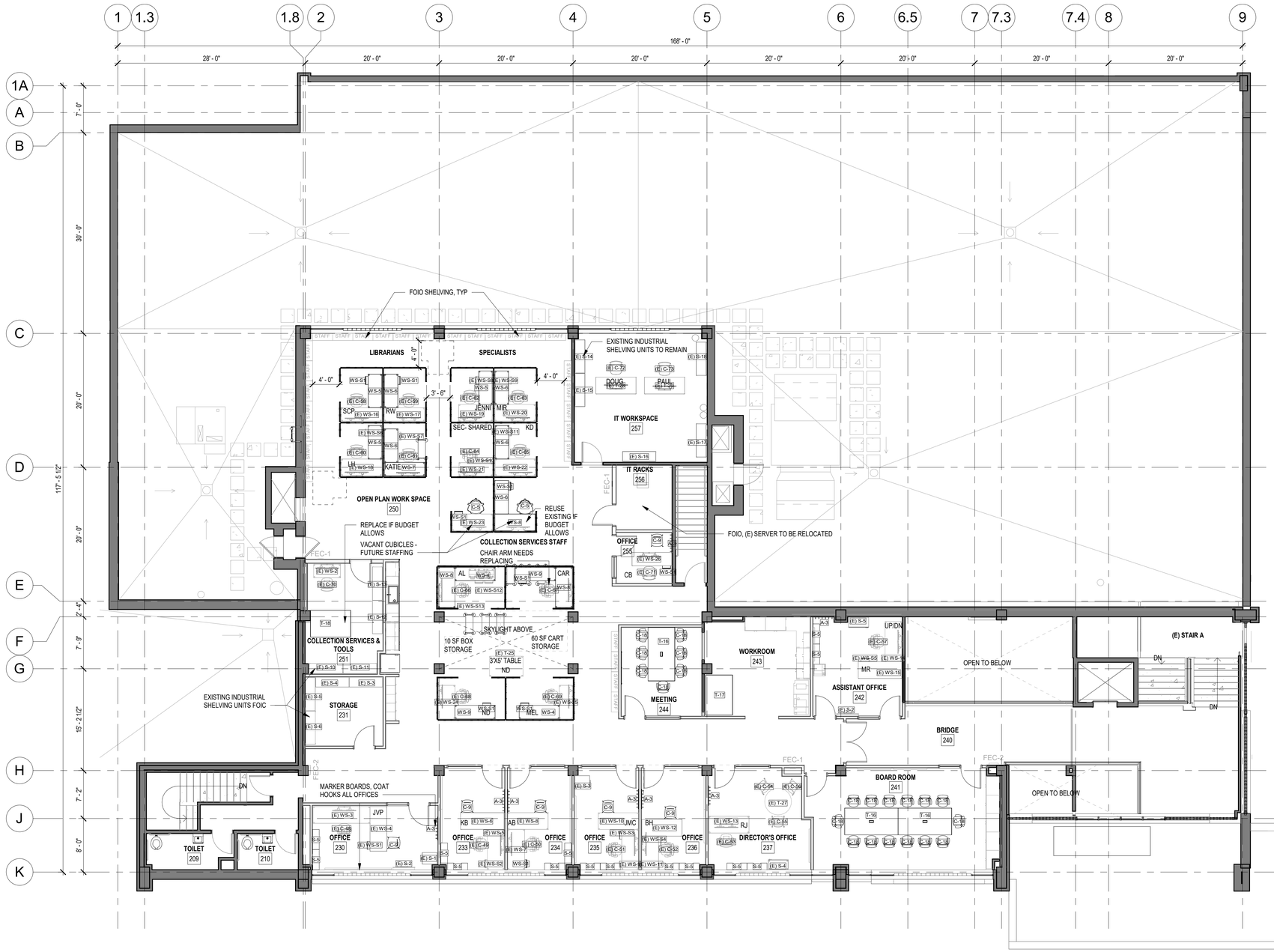
Drawn: RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SECOND FLOOR - FINISH PLAN

A144



1 A145 **SECOND FLOOR - FFE PLAN**

1/8" = 1'-0"

GENERAL FFE PLAN NOTES

1. **FFE PLANS INCLUDED IN BID SET FOR REFERENCE ONLY, FOIO. GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION WITH OWNER AND VENDOR UNO.**
2. ALL NEW MOVEABLE FURNITURE TO BE PROVIDED AND INSTALLED BY FURNITURE VENDOR. TARGETED PIECES TO BE SALVAGED. FURNITURE SALVAGE SCOPE TO BE COORDINATED W/ OWNER. REFER TO SCHEDULES AND PLANS FOR APPROPRIATE LOCATIONS.
3. FURNITURE LAYOUT AND BASIS OF DESIGN IS PROVIDED FOR PURPOSES OF COORDINATION AND EGRESS ROUTES.
4. ALL BUILT-IN CASEWORK AND BUILDING FINISHES ARE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
5. NO ELECTRICAL DEVICES, DRAINS OR OTHER UTILITY DEVICES MAYBE LOCATED UNDER CASEWORK LOCATIONS U.N.O.

FURNITURE ITEMS TO BE SALVAGED AND REUSED

FURNITURE ITEMS TO BE PURCHASED NEW

SHELVING SHOWN FOR REFERENCE- REFER TO SHELVING PLANS

FURNITURE SCHEDULE

TYPE MARK	DESCRIPTION	TOTAL
230		
OFFICE		
	Marker Board	2
(E) C-48	Task Chair	1
(E) S-1	Filing Cabinet	1
(E) S-2	Large Key Box	1
(E) WS-3	Workstation	1
(E) WS-4	Workstation	1
(E) WS-S1	Pedestal File Storage	1
A-3	Coat Hooks	1
C-9	Side Chair	1
233		
OFFICE		
	Marker Board	2
(E) C-49	Task Chair	1
(E) WS-5	Workstation	1
(E) WS-6	Workstation	1
(E) WS-S2	Pedestal File Storage	1
A-3	Coat Hooks	1
C-9	Side Chair	1
234		
OFFICE		
	Marker Board	2
(E) C-50	Task Chair	1
(E) WS-7	Workstation	1
(E) WS-8	Workstation	1
A-3	Coat Hooks	1
C-9	Side Chair	1
WS-S1	Pedestal File Storage	1
235		
OFFICE		
	Marker Board	2
(E) C-51	Task Chair	1
(E) S-3	Filing Cabinet	1
(E) WS-9	Workstation	1
(E) WS-10	Workstation	1
(E) WS-S3	Pedestal File Storage	1
A-3	Coat Hooks	1
C-9	Side Chair	1
236		
OFFICE		
	Marker Board	2
(E) C-52	Task Chair	1
(E) WS-11	Workstation	1
(E) WS-12	Workstation	1
(E) WS-S4	Pedestal File Storage	1
A-3	Coat Hooks	1
C-9	Side Chair	1
237		
DIRECTOR'S OFFICE		
	Marker Board	1
(E) C-53	Task Chair	1
(E) C-54	Task Chair	1
(E) C-55	Task Chair	1
(E) C-56	Task Chair	1
(E) S-4	Filing Cabinet	1
(E) T-27	Round Table	1
(E) WS-13	Workstation	1
A-3	Coat Hooks	1
241		
BOARD ROOM		
	Marker Board	2
C-18	Work Chair	14
T-16	Conference Table	2
242		
ASSISTANT OFFICE		
	Marker Board	1
(E) C-57	Task Chair	1
(E) S-2	Large Key Box	1
(E) S-5	Filing Cabinet	1
(E) WS-14	Workstation	1
(E) WS-15	Workstation	1
(E) WS-S5	Pedestal Filing Cabinet	1
A-3	Coat Hooks	1
243		
WORKROOM		
T-17	Work Table	1
244		
MEETING		
C-18	Work Chair	7
T-16	Conference Table	1
Grand total: 87		

FURNITURE SCHEDULE (CONTD.)

TYPE MARK	DESCRIPTION	TOTAL
250		
OPEN PLAN WORK SPACE		
	Pedestal Filing Cabinet	2
(E) C-58	Task Chair	1
(E) C-59	Task Chair	1
(E) C-60	Task Chair	1
(E) C-61	Task Chair	1
(E) C-62	Task Chair	1
(E) C-63	Task Chair	1
(E) C-64	Task Chair	1
(E) C-65	Task Chair	1
(E) C-66	Task Chair	1
(E) C-67	Task Chair	1
(E) C-68	Task Chair	1
(E) C-69	Task Chair	1
(E) T-25	Work Table	1
(E) WS-16	Workstation	1
(E) WS-17	Workstation	1
(E) WS-18	Workstation	1
(E) WS-19	Workstation	1
(E) WS-20	Workstation	1
(E) WS-21	Workstation	1
(E) WS-22	Workstation	1
(E) WS-23	Workstation	1
(E) WS-24	Workstation	1
(E) WS-25	Workstation	1
(E) WS-S6	Pedestal Filing Cabinet	1
(E) WS-S7	Pedestal Filing Cabinet	1
(E) WS-S8	Pedestal Filing Cabinet	1
(E) WS-S9	Pedestal Filing Cabinet	1
(E) WS-S10	Pedestal Filing Cabinet	1
(E) WS-S11	Pedestal Filing Cabinet	1
(E) WS-S12	Pedestal Filing Cabinet	1
(E) WS-S13	Pedestal Filing Cabinet	1
C-5	Task Chair	2
WS-4	Workstation	2
WS-5	Workstation	3
WS-6	Workstation	5
WS-7	Workstation	1
WS-8	Workstation	3
WS-9	Workstation	2
WS-S1	Pedestal File Storage	7
251		
COLLECTION SERVICES & TOOLS		
(E) C-70	Task Chair	1
(E) WS-2	Workstation	1
T-18	Work Table	1
255		
OFFICE		
(E) C-71	Task Chair	1
(E) WS-26	Workstation	1
A-3	Coat Hooks	1
C-9	Side Chair	1
WS-S1	Pedestal File Storage	1
257		
IT WORKSPACE		
(E) C-72	Task Chair	1
(E) C-73	Task Chair	1
(E) T-28	Workstation	1
(E) T-29	Workstation	1
Grand total: 70		

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

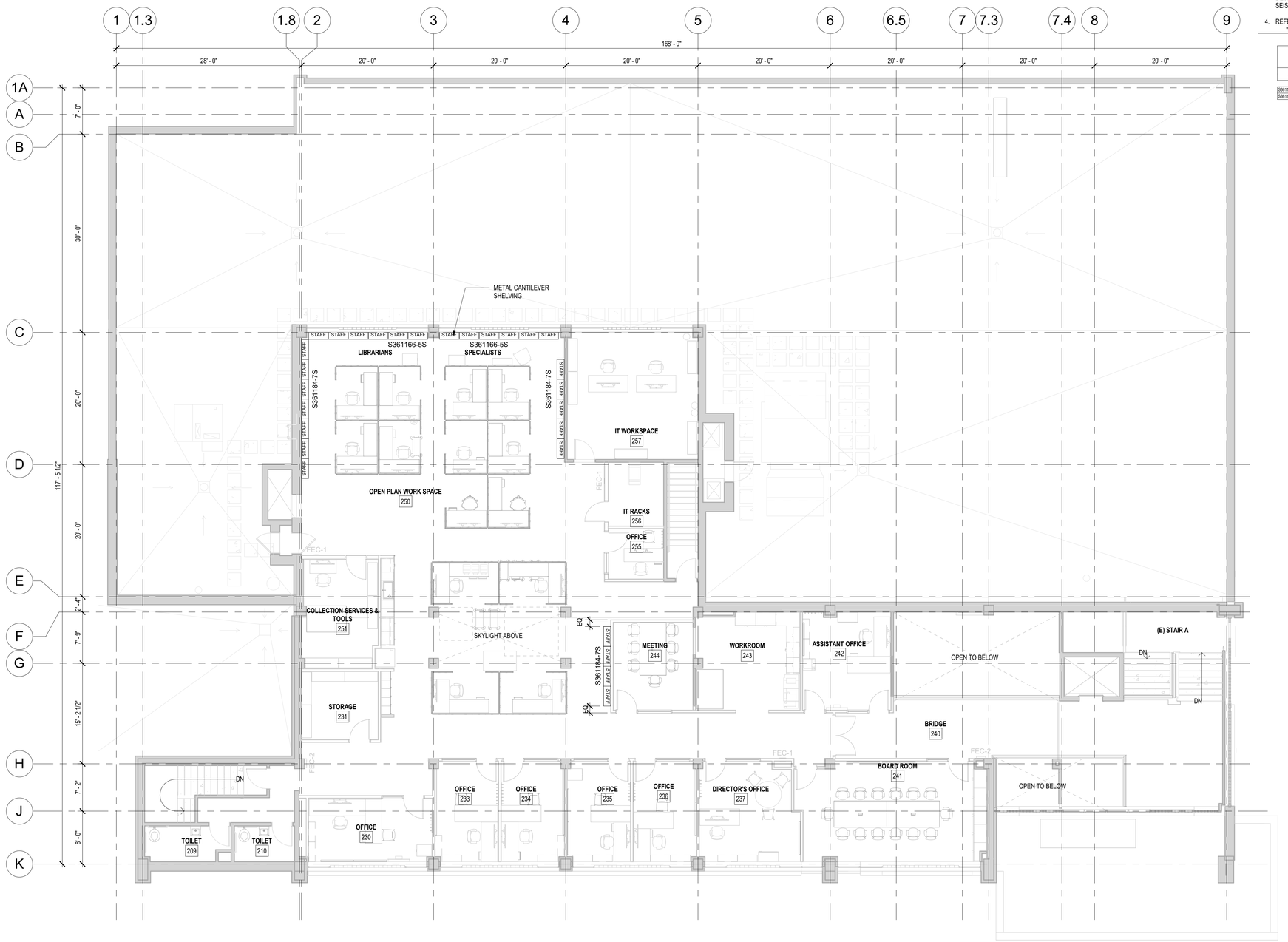
Drawn: RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SECOND FLOOR - FFE PLAN

A145



1 A146 **SECOND FLOOR - SHELVING PLAN**

1/8" = 1'-0"

GENERAL NOTES

1. **SHELVING PLANS INCLUDED IN BID SET FOR REFERENCE ONLY. FOIO. GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION BETWEEN OWNER AND SHELVING CONTRACTOR**
2. ALL LIBRARY SHELVING TO BE SALVAGED, DISASSEMBLED AS REQUIRED, STORED AND REINSTALLED BY THE LIBRARY'S SHELVING CONTRACTOR AS INDICATED IN THE SHELVING SALVAGE PLANS. THE SHELVING CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE GENERAL CONTRACTOR REGARDING INSTALLATION SCHEDULE, SITE ACCESS, MATERIAL DELIVERY, STORAGE AND STAGING REQUIREMENTS.
3. LIBRARY SHELVING WILL BE INSTALLED OVER EXISTING FLOOR STRUCTURE WITHIN OPEN PLAN WORKSPACE AREA AS INDICATED ON THIS PLAN. SHELVING CONTRACTOR IS RESPONSIBLE FOR DESIGNING A CONNECTION TO THE EXISTING SLABS OR WALLS FOR UNITS REQUIRED TO BE SEISMICALLY ANCHORED.
4. REFER TO SHELVING SCHEDULE FOR SHELVING HEIGHTS. HEIGHT IS INDICATED IN LAST TWO DIGITS OF "TYPE MARK" EXAMPLE: D361**42**-3S INDICATES A 42" TALL SHELVING UNIT.

SECOND FLOOR SHELVING COLLECTION SCHEDULE

TYPE MARK	MFR	COLLECTION TYPE SIDE 1	COLLECTION TYPE SIDE 2	COUNT	COMMENTS
S361166-5S	ESTEY	STAFF		12	No end panels or top panels
S361184-7S	ESTEY	STAFF		16	No end panels or top panels
				28	

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

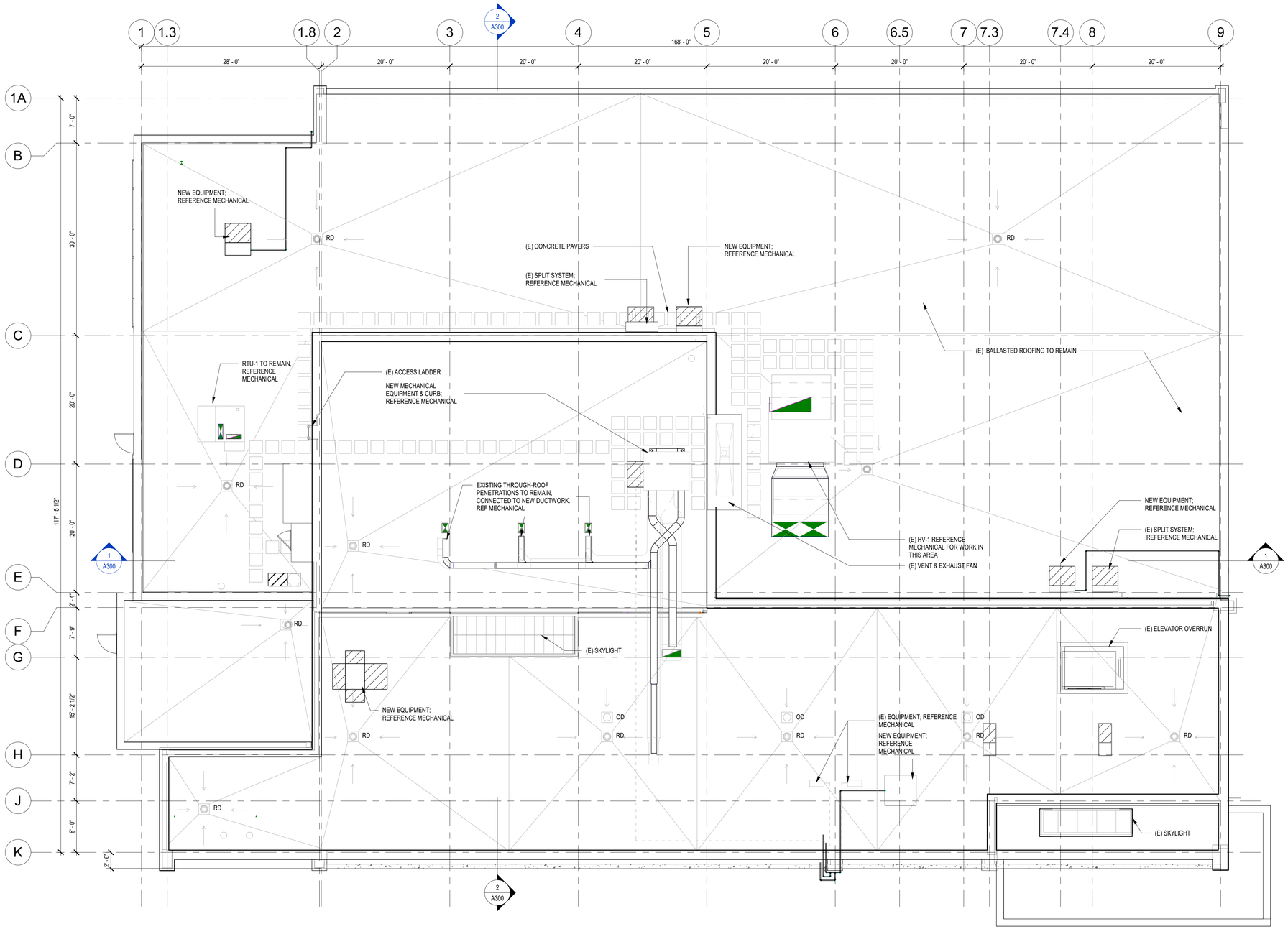
Drawn: RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 08/07/26

SHEET

SECOND FLOOR - SHELVING PLAN

A146



1 ROOF PLAN

A151

1/8" = 1'-0"

GENERAL ROOF PLAN NOTES

1. SEE MECH, ELEC AND PLUMBING SHEETS FOR SCOPE OF WORK PERTAINING TO THE ROOF.
2. CONDUIT FOR FUTURE SOLAR TO GO UP TO ROOF. REFERENCE ELECTRICAL DRAWINGS
3. REFER TO SPECIFICATIONS FOR EXISTING ROOF WARRANTY

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

ROOF PLAN
A151

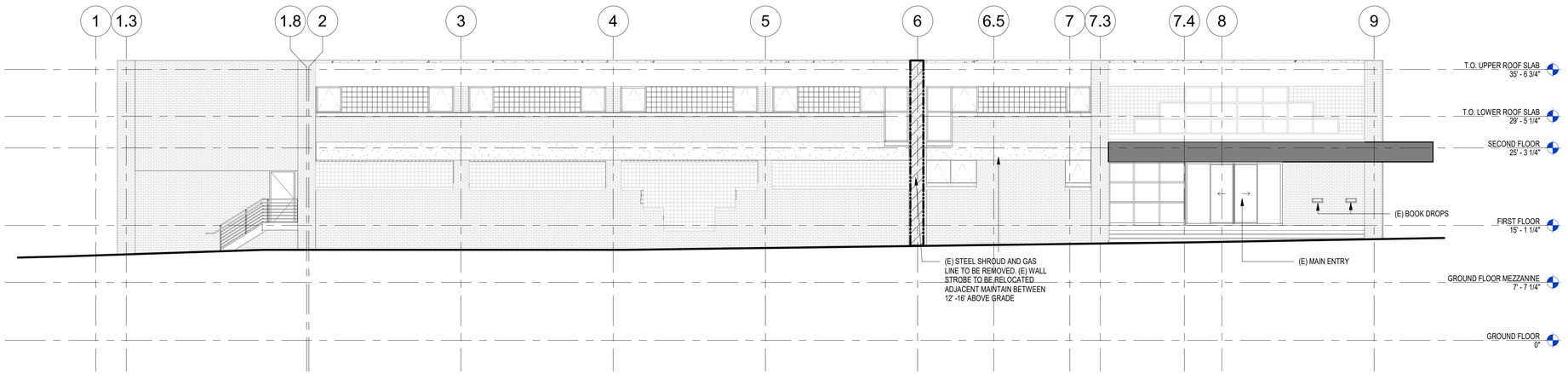
MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP



1 / A200 **EXTERIOR ELEVATION - SOUTH**

1/8" = 1'-0"

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

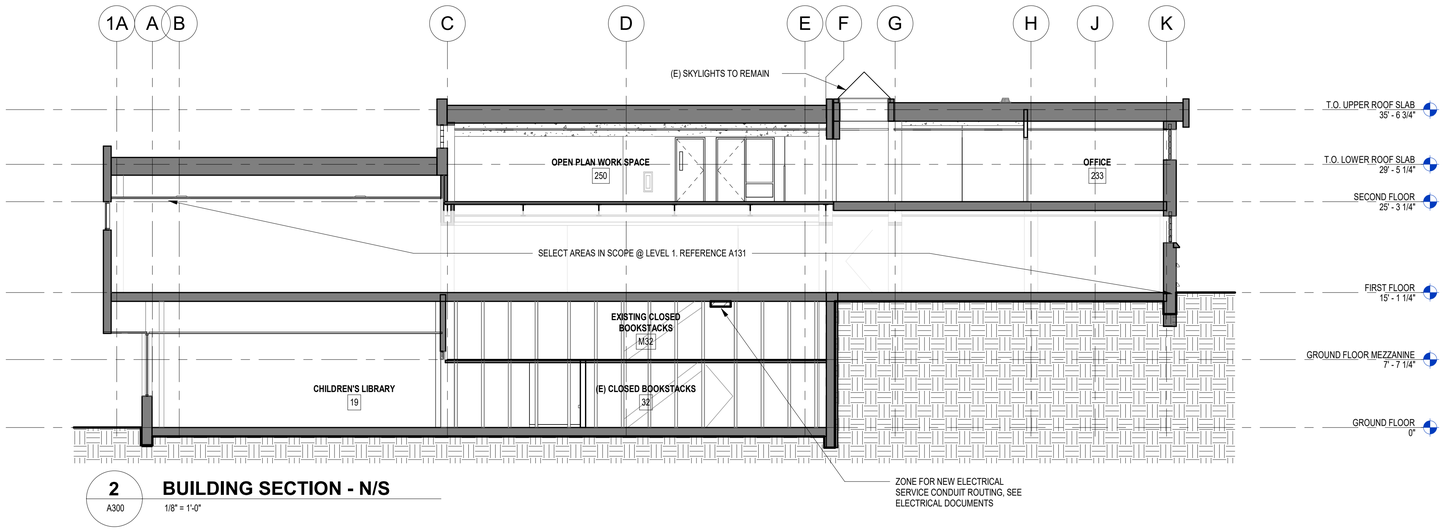
BUILDING ELEVATIONS

A200

BUILDING SECTION LEGEND

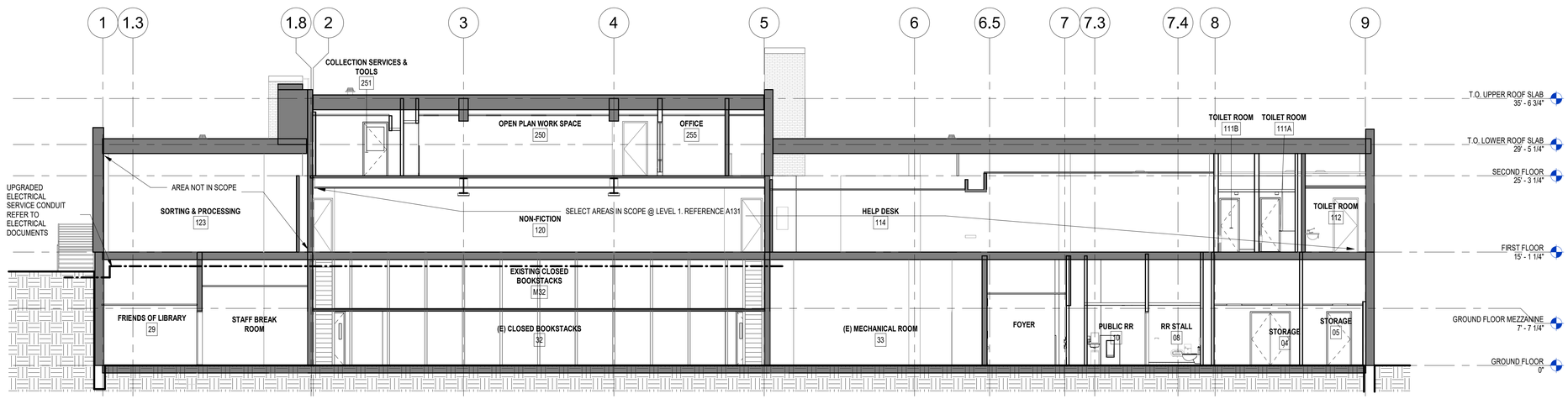
EXISTING TO REMAIN

NEW CONSTRUCTION



2 A300 **BUILDING SECTION - N/S**

1/8" = 1'-0"



1 A300 **BUILDING SECTION - E/W**

1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

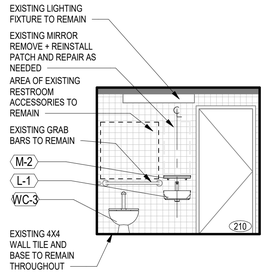
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

BUILDING SECTIONS

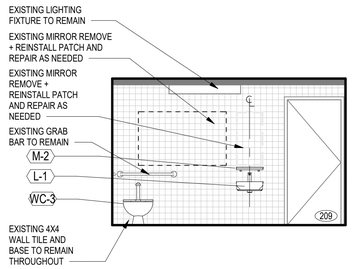
A300



6 STAFF TOILET 210- N WALL

6 | A400 A400

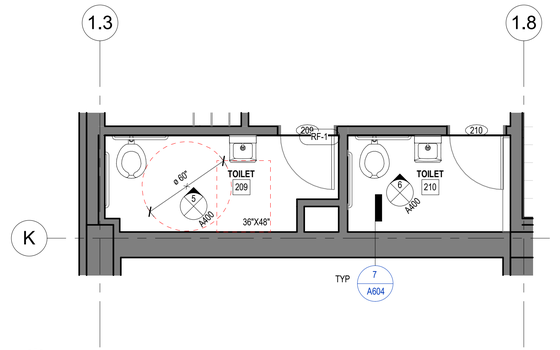
1/4" = 1'-0"



5 STAFF TOILET 209- N WALL

5 | A400 A400

1/4" = 1'-0"



4 ENLARGED PLAN - SECOND FLOOR STAFF TOILETS 209 AND 210

4 | A141 A400

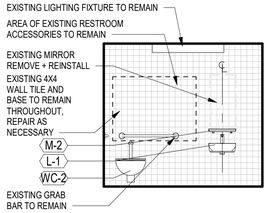
1/4" = 1'-0"

GENERAL RESTROOM NOTES

1. REFERENCE SHEET A400 FOR TOILET ACCESSORIES LEGEND AND TYPICAL MOUNTING HEIGHTS.
2. ALL RESTROOMS TO RECEIVE NEW ACCESSORIES UNLESS NOTED OTHERWISE. REFERENCE SPEC.
3. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
4. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
5. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
6. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
7. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
8. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
9. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE TYPE

FINISH LEGEND

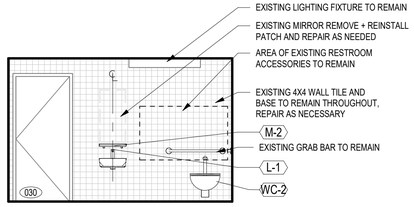
RF-1	09 65 00 - FLOORING, RESILIENT SHEET, LINOLEUM FLOORING



3 STAFF TOILET 31 - S WALL

3 | A400 A400

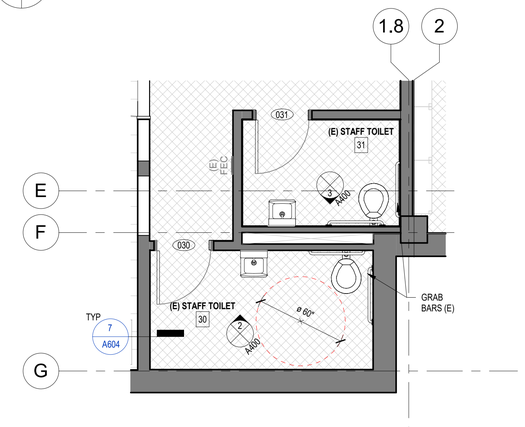
1/4" = 1'-0"



2 STAFF TOILET 30 - N WALL

2 | A400 A400

1/4" = 1'-0"

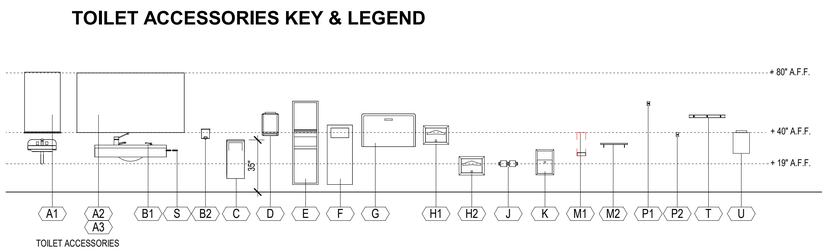


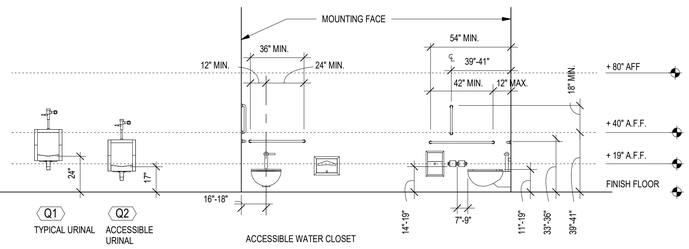
1 ENLARGED PLAN - GROUND STAFF TOILETS 30 & 31

1 | A111 A400

1/4" = 1'-0"

TOILET ACCESSORIES KEY & LEGEND





MARK	DESCRIPTION	MOUNTING HEIGHT
A1	MIRROR	24"W x 40"H +40" A.F.F.MAX TO BOTTOM OF REFLECTIVE SURFACE
A2	MIRROR	96"W x 40"H +40" A.F.F. MAX TO BOTTOM OF REFLECTIVE SURFACE
A3	MIRROR	FULL WIDTH +40" A.F.F. MAX TO BOTTOM OF REFLECTIVE SURFACE
B1	SOAP DISPENSER - WALL MOUNT	+40" A.F.F. TO POINT OF DISPENSING
C	HAND DRYER	+38" A.F.F. TO BOTTOM START BUTTON
D	PAPER TOWEL DISPENSER	+40" A.F.F. TO POINT OF DISPENSING
E	PAPER TOWEL DISPENSER & WASTE RECEPTACLE	+40" A.F.F. TO POINT OF DISPENSING
F	WASTE RECEPTACLE	+40" A.F.F. TO POINT OF DISPENSING
G	BABY CHANGING STATION	+34" A.F.F. TO TOP OF CHANGING PLATFORM

MARK	DESCRIPTION	MOUNTING HEIGHT
H1	TOILET SEAT COVER DISPENSER	+40" (MAX) A.F.F. TO POINT OF DISPENSING
H2	TOILET SEAT COVER DISPENSER	+19" (MIN) A.F.F. TO POINT OF DISPENSING
J	TOILET PAPER DISPENSER	+15" (MIN)- 48" (MAX) A.F.F. TO POINT OF DISP.
K	SANITARY NAPKIN DISPOSAL	+30" A.F.F. TO CENTERLINE
M1	SHELF UTILITY FOLD DOWN	40" (MIN)- 48" (MAX) A.F.F. TO TOP OF SHELF
M2	SHELF	40" (MIN)- 48" (MAX) A.F.F. TO TOP OF SHELF
N	H.C. GRAB BARS	REF: ACCESSIBLE WATER CLOSET FOR MIN.-MAX. DIMENSIONS

MARK	DESCRIPTION	MOUNTING HEIGHT
P1	COAT HOOK (NOT SHOWN ON DWGS.)	@ 60" A.F.F. INSIDE OF EA. STALL DOOR, TYP.
P2	COAT HOOK (NOT SHOWN ON DWGS.)	@ 40" A.F.F. ADA INSIDE OF EA. STALL DOOR,TYP.
Q1	TYPICAL URINAL	+24" A.F.F. TO TOP OF RIM
Q2	ACCESSIBLE URINAL	+17" A.F.F. TO TOP OF RIM
WC-1	TYPICAL TOILET	+15" A.F.F. TO TOP OF SEAT
WC-2	ACCESSIBLE TOILET	+17" -19" A.F.F. TO TOP OF SEAT FOR ADULT ADA
L	COUNTERTOP OR WALL MOUNTED LAV	+34" A.F.F., MIN KNEE CLR OF 29" TO RIM OF LAV
T	MOP RACK	@ 50" A.F.F.
U	SHARPS DISPOSAL	38" A.F.F TO 42" A.F.F

NOTES:

1. SEE SPECIFICATION SECTION 102813 FOR ADDT'L INFORMATION REGARDING TOILET ACCESSORIES.
2. COORDINATE EXACT LOCATIONS OF ACCESSORIES @ CERAMIC TILE WALLS WITH PATTERN OF TILE, WHERE TILE IS INDICATED. CENTER ACCESSORIES BETWEEN HORIZ. & VERT. GROUT JOINTS.
3. COORDINATE RECESSED ITEMS WITH WALL FRAMING.
4. PROVIDE BLOCKING AS REQUIRED.
5. REF. ELEV FOR ACCESSORY LOCATIONS.
6. INSULATE ALL EXPOSED HOT WATER & WASTE PIPING W/ INSULATED PIPE JACKETS .
7. REF. ADDITIONAL ADA DIAGRAMS ON SHEET G230.
8. INSTALL (1) EA. COAT HOOK P1 AND P2 INSIDE EACH ADA STALL DOOR AND (1) EA. COAT HOOK P1 INSIDE ALL OTHER STALL DOORS.
9. FLUSH HANDLE TO BE LOCATED ON OPEN SIDE OF TOILET.
10. PROVIDE ADA COMPLIANT DOOR PULL ON EA SIDE OF ACCESSIBLE TOILET STALL DOOR.
11. REFERENCE P-SERIES SHEETS FOR PLUMBING FIXTURES.
12. TILE DESIGNATIONS PER SPEC SECTION 093000.

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

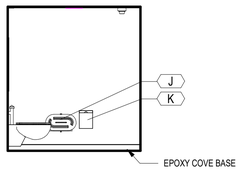
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

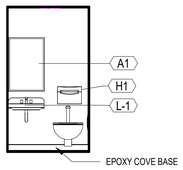
SHEET

EXISTING STAFF RR PLANS & ELEV

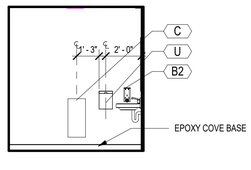
A400



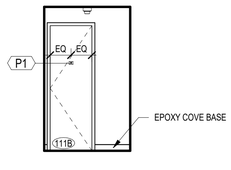
19 A401|A401 **L1 RR - W WALL TYP.**
1/4" = 1'-0"



18 A401|A401 **L1 RR- S WALL TYP.**
1/4" = 1'-0"



17 A401|A401 **L1 RR- E WALL TYP.**
1/4" = 1'-0"



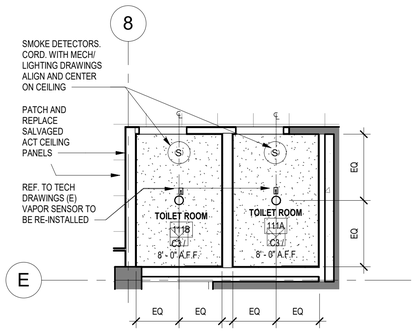
16 A401|A401 **L1 RR- N WALL TYP.**
1/4" = 1'-0"

GENERAL RESTROOM NOTES

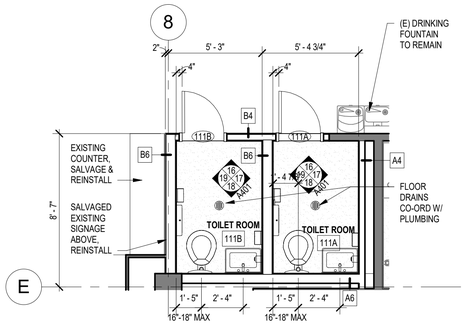
1. REFERENCE SHEET A400 FOR TOILET ACCESSORIES LEGEND AND TYPICAL MOUNTING HEIGHTS.
2. ALL RESTROOMS TO RECEIVE NEW ACCESSORIES UNLESS NOTED OTHERWISE. REFERENCE SPEC.
3. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
4. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
5. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
6. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
7. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
8. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
9. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE TYPE

FINISH LEGEND

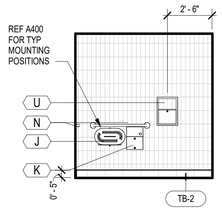
CG-1	10 26 00 - METAL CORNER GUARDS
TB-1	09 30 00 - TILING
TB-2	09 30 00 - TILING
WB-1	09 65 13 - RESILIENT WALL BASE



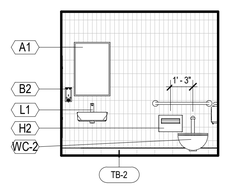
15 A133|A401 **ENLARGED RCP - L1 RR**
1/4" = 1'-0"



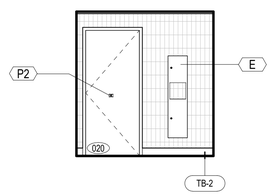
14 A131|A401 **ENLARGED PLAN - L1 RR**
1/4" = 1'-0"



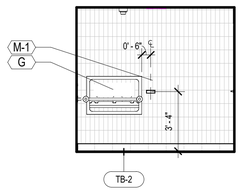
13 A401|A401 **FAMILY RR - W WALL**
1/4" = 1'-0"



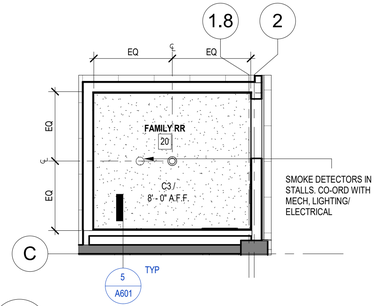
12 A401|A401 **FAMILY RR - S WALL**
1/4" = 1'-0"



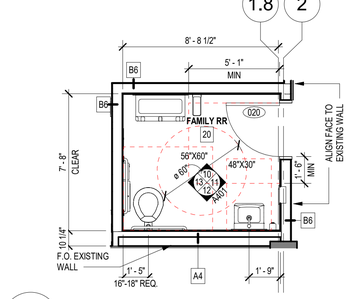
11 A401|A401 **FAMILY RR - E WALL**
1/4" = 1'-0"



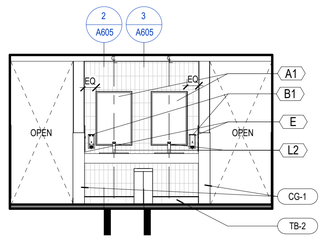
10 A401|A401 **FAMILY RR - N WALL**
1/4" = 1'-0"



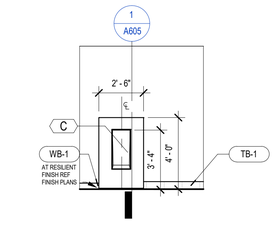
9 A113|A401 **ENLARGED RCP - FAMILY RR**
1/4" = 1'-0"



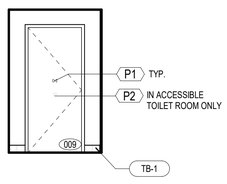
8 A111|A401 **ENLARGED PLAN - FAMILY RR**
1/4" = 1'-0"



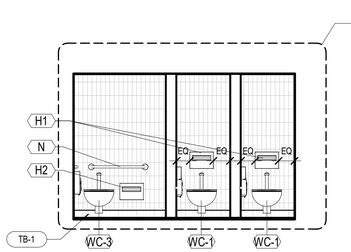
7 A401|A401 **PUBLIC RR - SINK WALL**
1/4" = 1'-0"



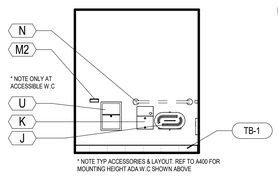
6 A401|A401 **RR TYP HAND DRYER**
1/4" = 1'-0"



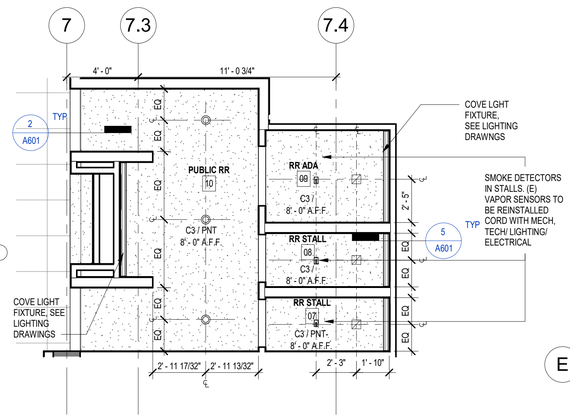
5 A401|A401 **RR STALL TYP. INSIDE DOOR - W WALL**
1/4" = 1'-0"



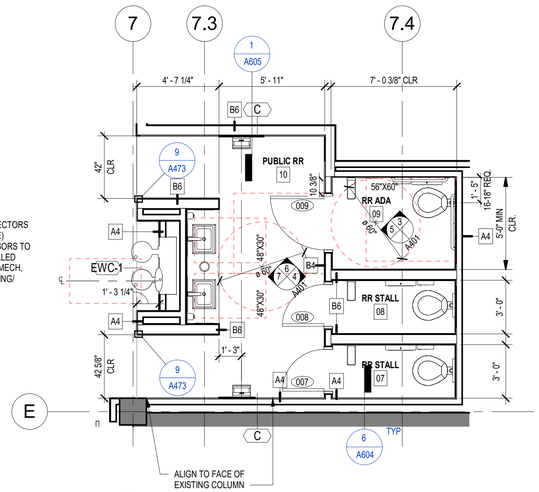
4 A401|A401 **RR STALL - E WALL**
1/4" = 1'-0"



3 A401|A401 **RR STALL - N WALL TYP.**
1/4" = 1'-0"



2 A113|A401 **ENLARGED RCP - PUBLIC RR**
1/4" = 1'-0"



1 A111|A401 **ENLARGED PLAN - PUBLIC RR & RR STALL**
1/4" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

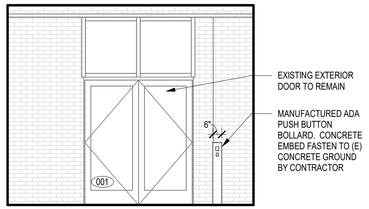
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

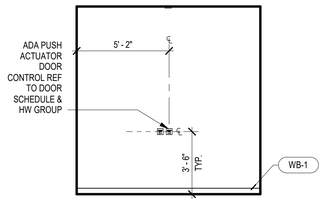
PUBLIC RR PLANS & ELEV.

A401



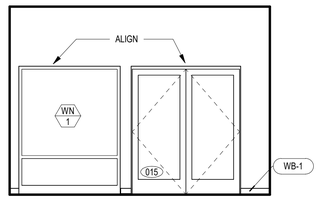
9 A410 | A410 BOLLARD PUSH BUTTON

1/4" = 1'-0"



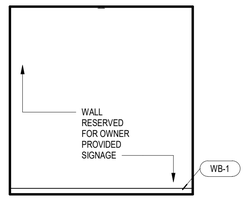
8 A410 | A410 ENTRY VESTIBULE - W WALL

1/4" = 1'-0"



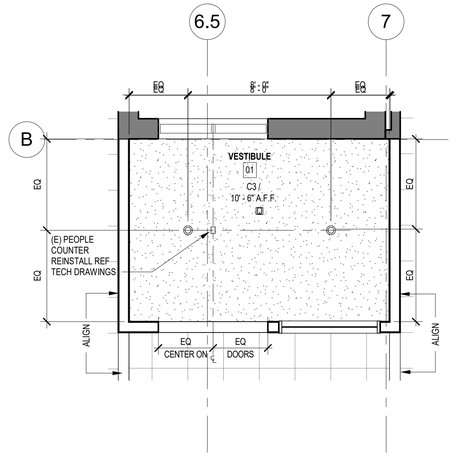
7 A410 | A410 ENTRY VESTIBULE - S WALL

1/4" = 1'-0"



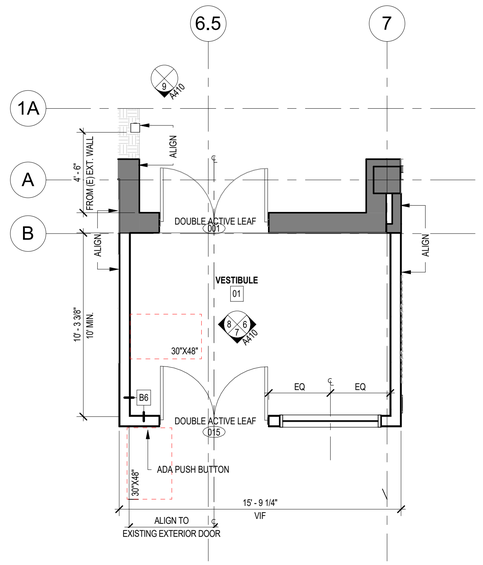
6 A410 | A410 ENTRY VESTIBULE - E WALL

1/4" = 1'-0"



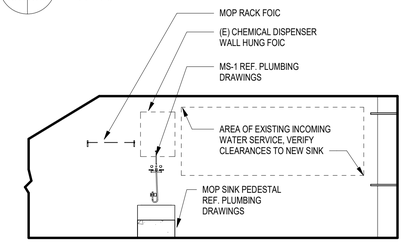
5 A113 | A410 ENLARGED RCP- ENTRY VESTIBULE

1/4" = 1'-0"



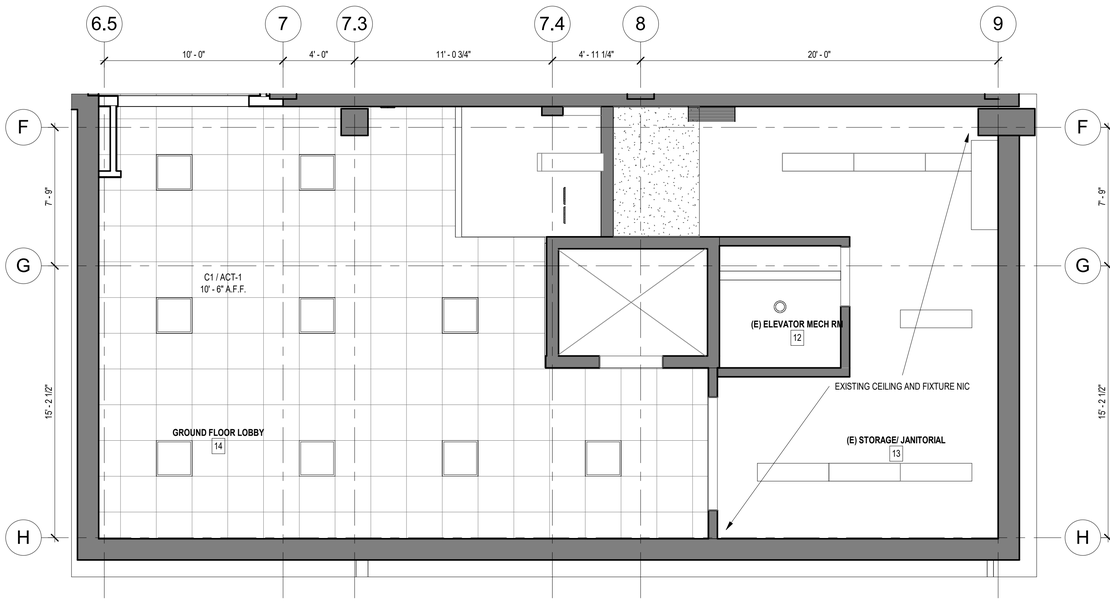
4 A111 | A410 ENLARGED PLAN -ENTRY VESTIBULE

1/4" = 1'-0"



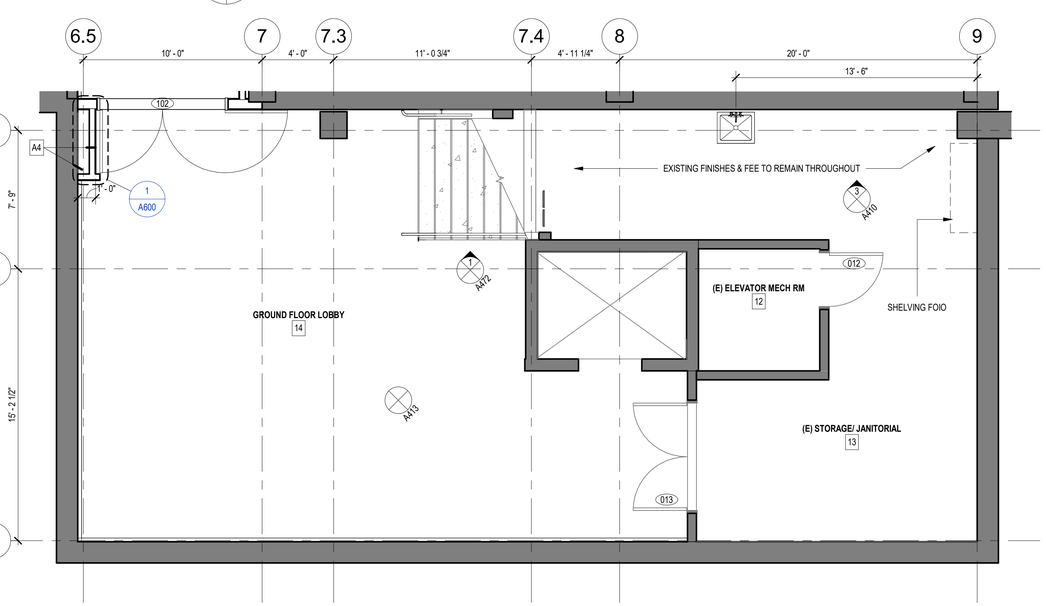
3 A410 | A410 STORAGE- N WALL

1/4" = 1'-0"



2 A113 | A410 ENLARGED RCP- GROUND FLOOR LOBBY

1/4" = 1'-0"



1 A111 | A410 ENLARGED PLAN - GROUND FLOOR LOBBY & STORAGE

1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400
5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES
6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O
7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.
8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.
9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.

FINISH LEGEND

WB-1	09 65 13 - RESILIENT WALL BASE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

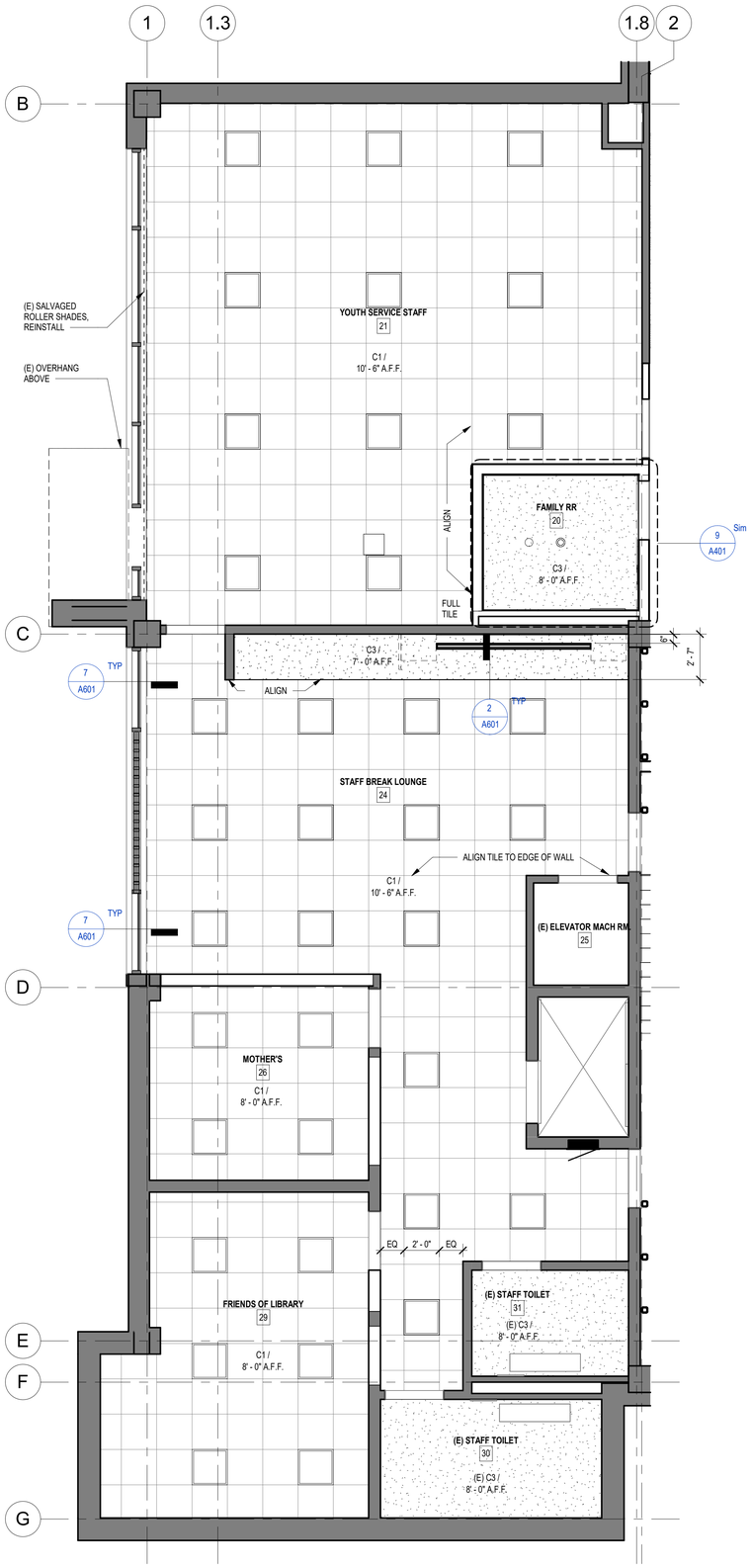
No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

GROUND LEVEL ENTRY

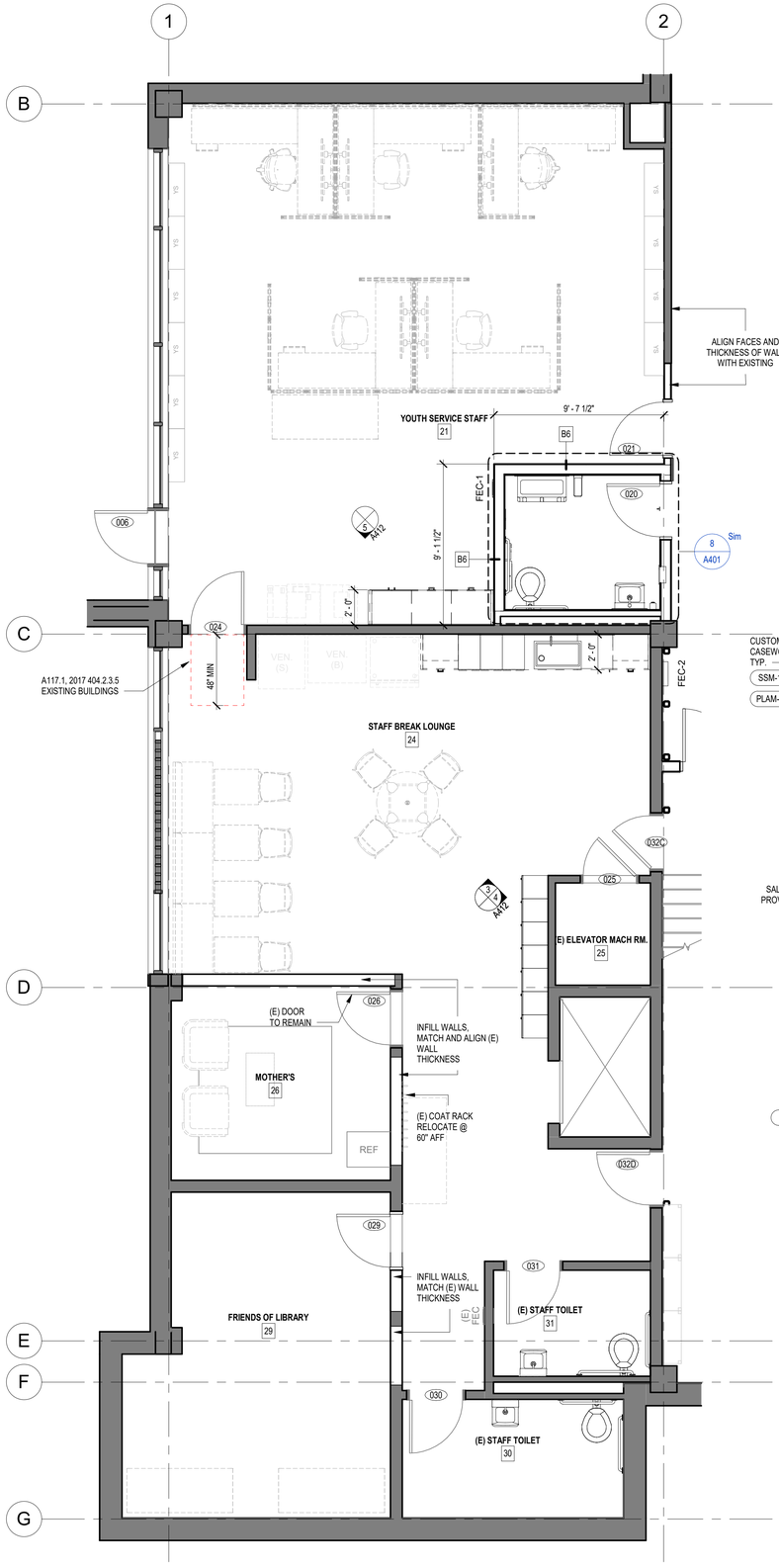
A410



2 ENLARGED RCP- STAFF BREAK LOUNGE

A113 A412

1/4" = 1'-0"



1 ENLARGED PLAN - STAFF BREAK LOUNGE

A111 A412

1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

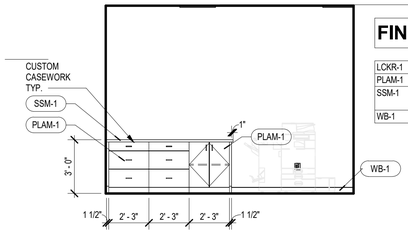
1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.
8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE
9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400
5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES
6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O
7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.
8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.
9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.

FINISH LEGEND

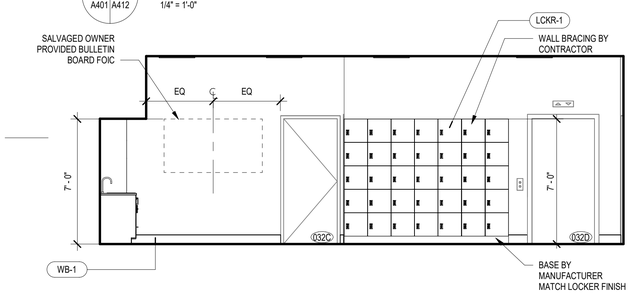
LCKR-1	10 51 13 - METAL LOCKERS
PLAM-1	06 40 00 - PLASTIC LAMINATE
SSM-1	12 36 00 - SOLID SURFACE COUNTERTOP
WB-1	09 65 13 - RESILIENT WALL BASE



5 YOUTH SERVICES PRINT - S WALL

A401 A412

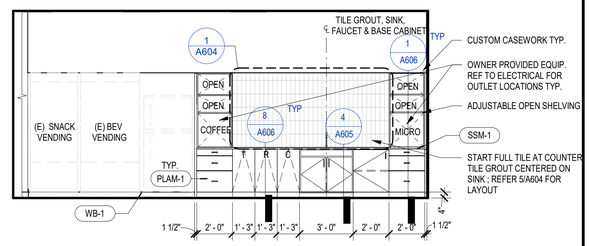
1/4" = 1'-0"



4 STAFF BREAK LOUNGE - E WALL

A412 A412

1/4" = 1'-0"



3 STAFF BREAK LOUNGE N- WALL

A412 A412

1/4" = 1'-0"

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

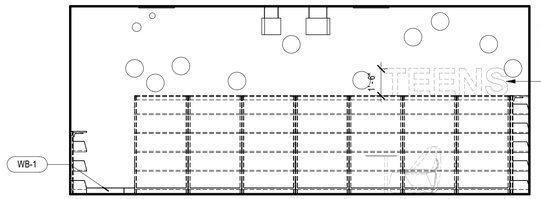
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

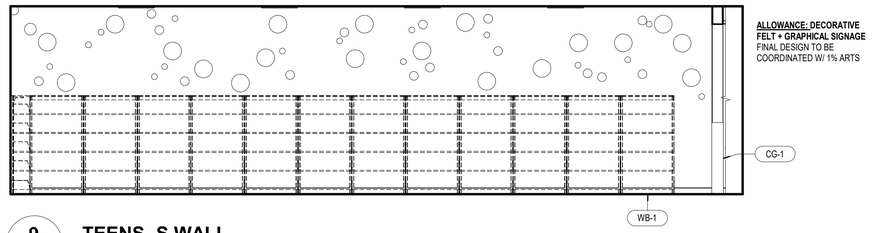
SHEET

ENLARGED - GROUND STAFF AREA

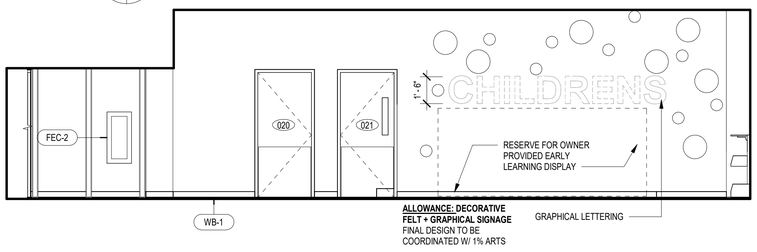
A412



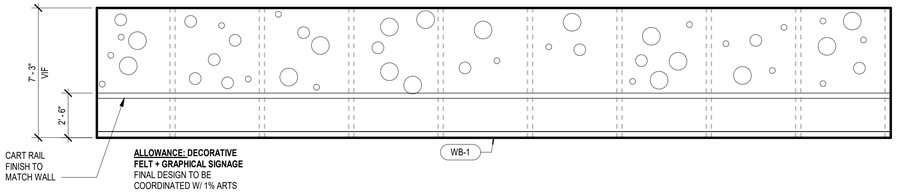
8 TEENS - E WALL
A114 | A413 — 1/4" = 1'-0"



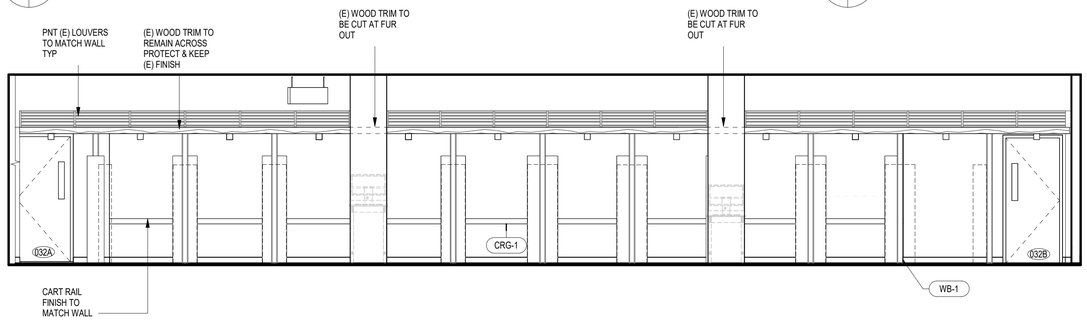
9 TEENS- S WALL
A114 | A413 — 1/4" = 1'-0"



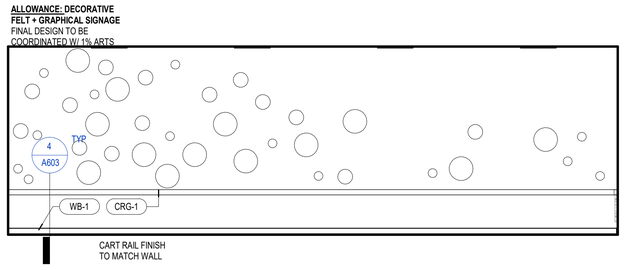
7 CHILDREN'S LIBRARY - LOOKING WEST
A114 | A413 — 1/4" = 1'-0"



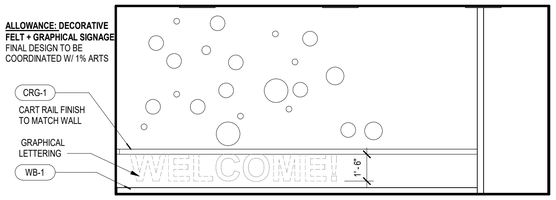
6 CHILDREN'S LIBRARY - SOUTH WALL
A114 | A413 — 1/4" = 1'-0"



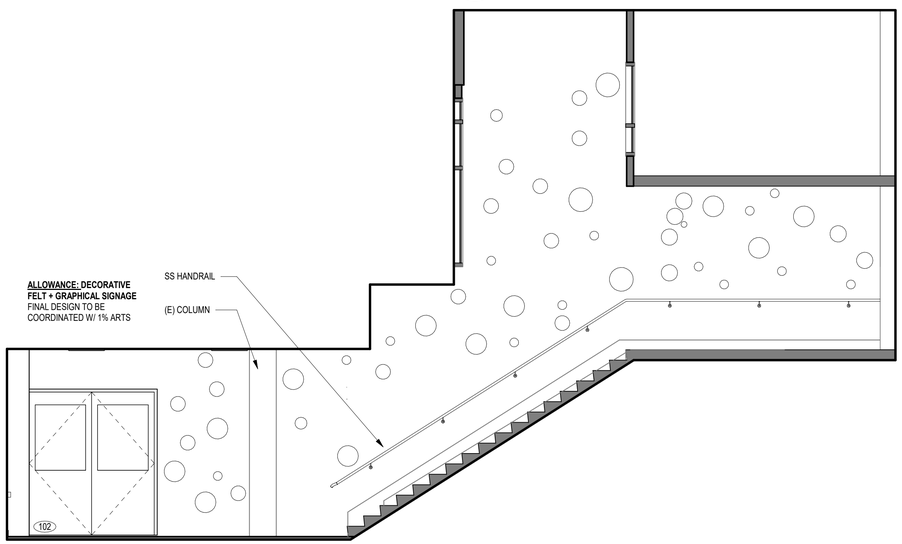
5 CHILDREN'S LIBRARY - LOOKING SOUTH WITH OPEN BOOKSTACKS IN FRONT
A114 | A413 — 1/4" = 1'-0"



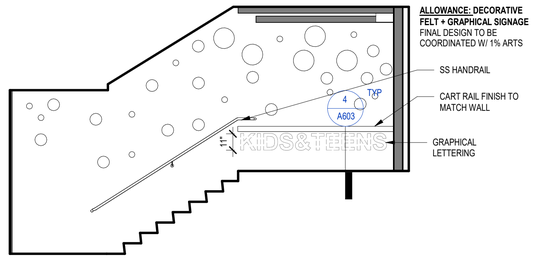
4 GROUND FLOOR LOBBY- S WALL
A114 | A413 — 1/4" = 1'-0"



3 GROUND LOBBY- W
A114 | A413 — 1/4" = 1'-0"



2 LANDING @ FIRST & GROUND FLOOR
A114 | A413 — 1/4" = 1'-0"



1 FIRST FLOOR STAIR
A134 | A413 — 1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400
5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES
6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O
7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.
8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.
9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.

FINISH LEGEND

CG-1	10 26 00 - METAL CORNER GUARDS
CRG-1	10 26 00 - Wall Protection
FEC-2	10 4400- FIRE EXTINGUISHER CABINET - RECESSED
WB-1	09 65 13 - RESILIENT WALL BASE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

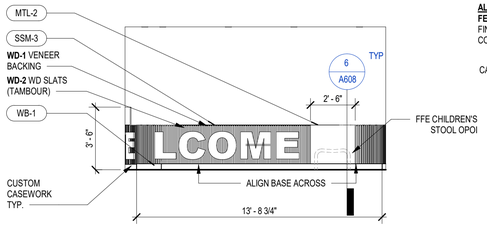
Drawn: RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

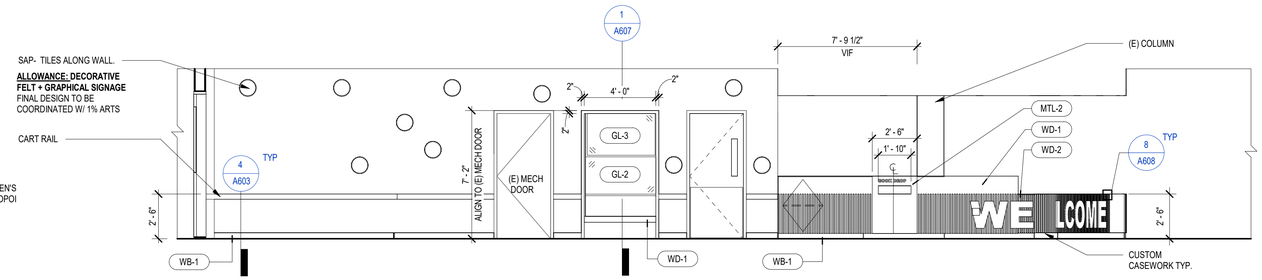
GROUND & FIRST FLOOR ACOUSTIC TILE LAYOUT

A413



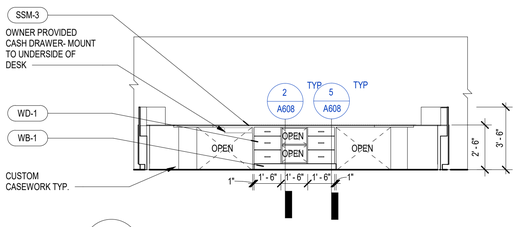
9 A414 | A414 **CHILDREN'S HELP DESK FRONT**

1/4" = 1'-0"



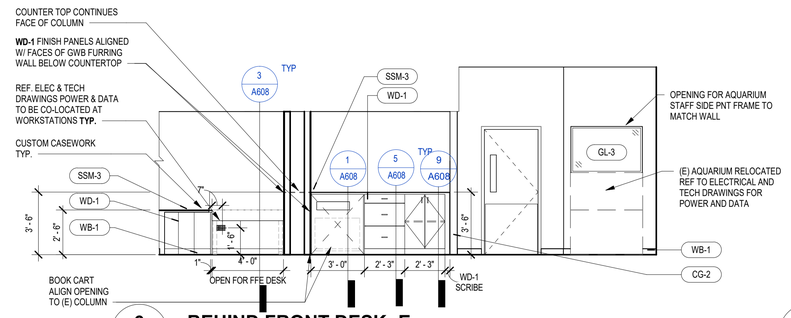
8 A410 | A414 **FOYER - LOOKING WEST**

1/4" = 1'-0"



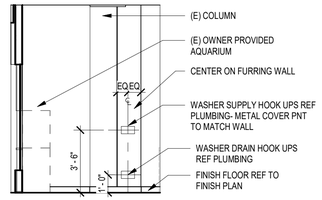
7 A414 | A414 **BEHIND FRONT DESK- N**

1/4" = 1'-0"



6 A414 | A414 **BEHIND FRONT DESK- E**

1/4" = 1'-0"



5 A414 | A414 **W/D HOOKUPS @ AQUARIUM**

1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

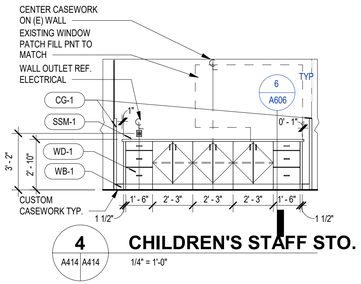
9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400
5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES
6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O
7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.
8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.
9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.

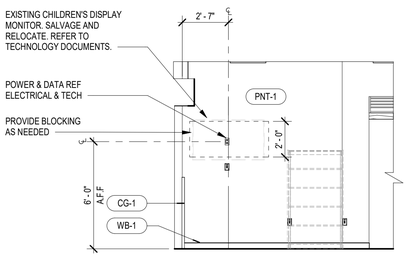
FINISH LEGEND

CG-1	10 26 00 - METAL CORNER GUARDS
CG-2	10 26 00 - Metal Corner Guards- END CAP
GL-2	CLEAR INTERIOR GLAZING IN DOORS/ WINDOWS TYP
GL-3	BACK PAINTED GLASS (LOCATED IN WOODWORK IN SPECS)
MTL-2	05 50 00 - METAL FABRICATION
PNT-1	09 91 23 - INTERIOR PAINTING
SSM-1	12 36 00 - SOLID SURFACE COUNTERTOP
SSM-3	12 36 00 - SOLID SURFACE COUNTERTOP
WB-1	09 65 13 - RESILIENT WALL BASE
WD-1	06 40 00 -WOOD VENEER
WD-2	06 40 00 - ARCHITECTURAL WOODWORK



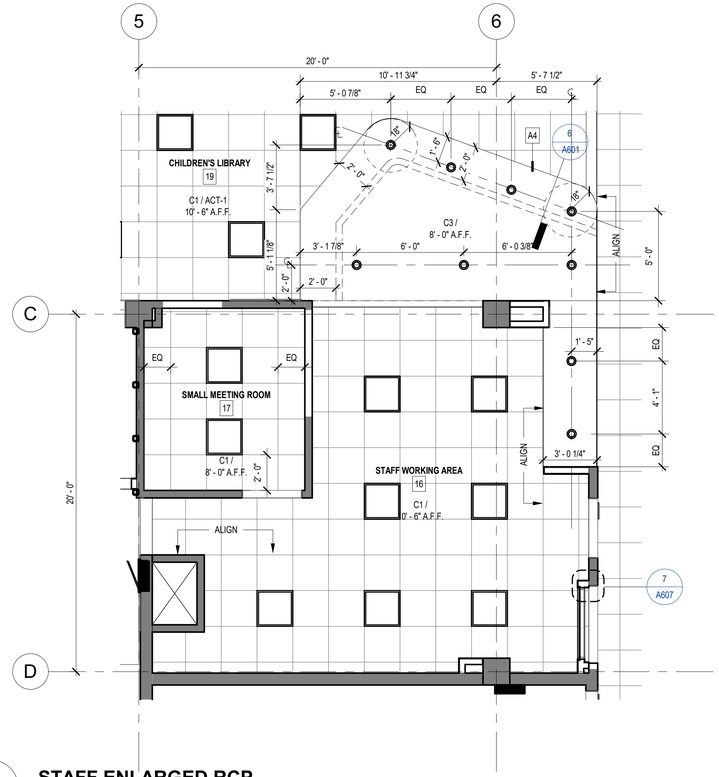
4 A414 | A414 **CHILDREN'S STAFF STO.**

1/4" = 1'-0"



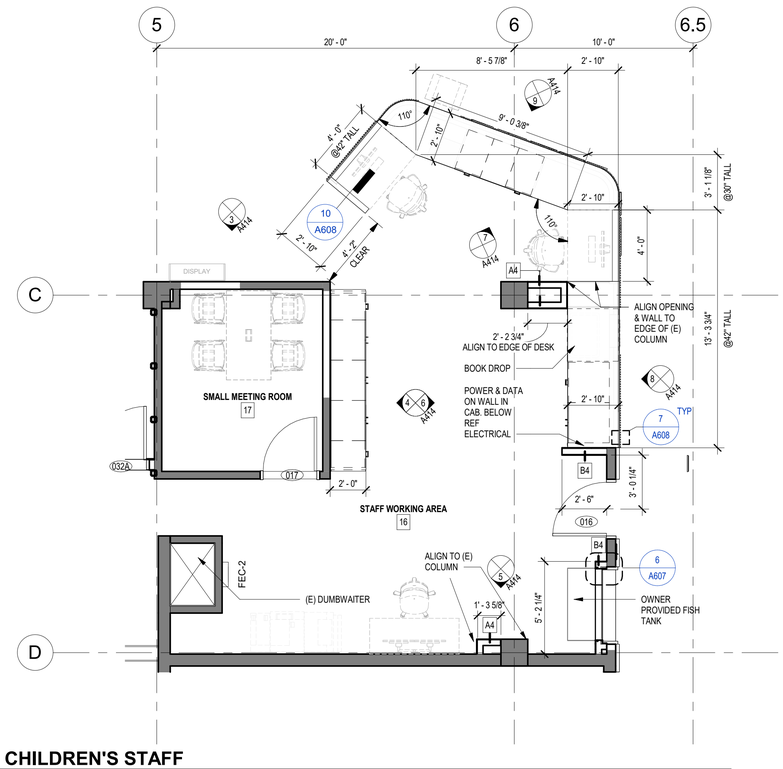
3 A414 | A414 **CHILDRENS DISPLAY**

1/4" = 1'-0"



2 A113 | A414 **STAFF ENLARGED RCP**

1/4" = 1'-0"



1 A111 | A414 **CHILDREN'S STAFF**

1/4" = 1'-0"

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

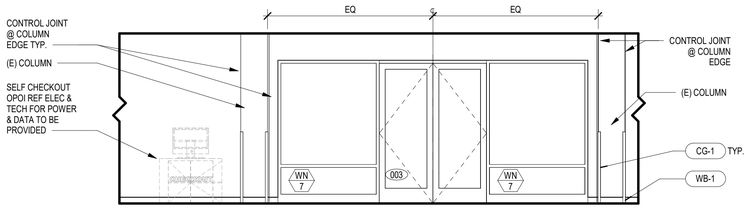
Drawn: RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

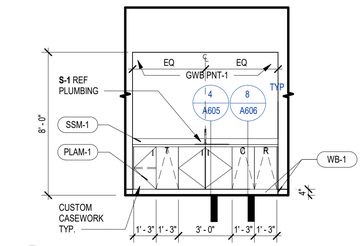
SHEET

ENLARGED CHILDREN'S STAFF

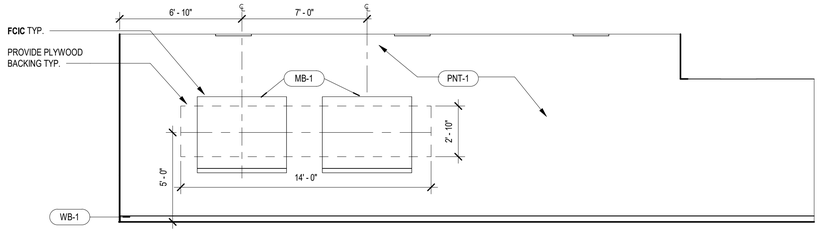
A414



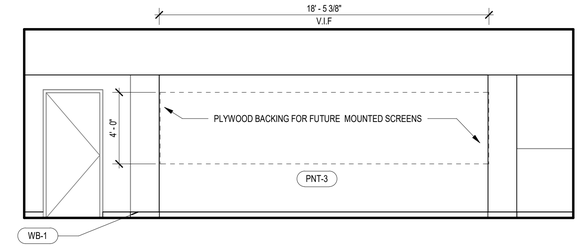
6 A417 | A417 **MPR ENTRANCE**
1/4" = 1'-0"



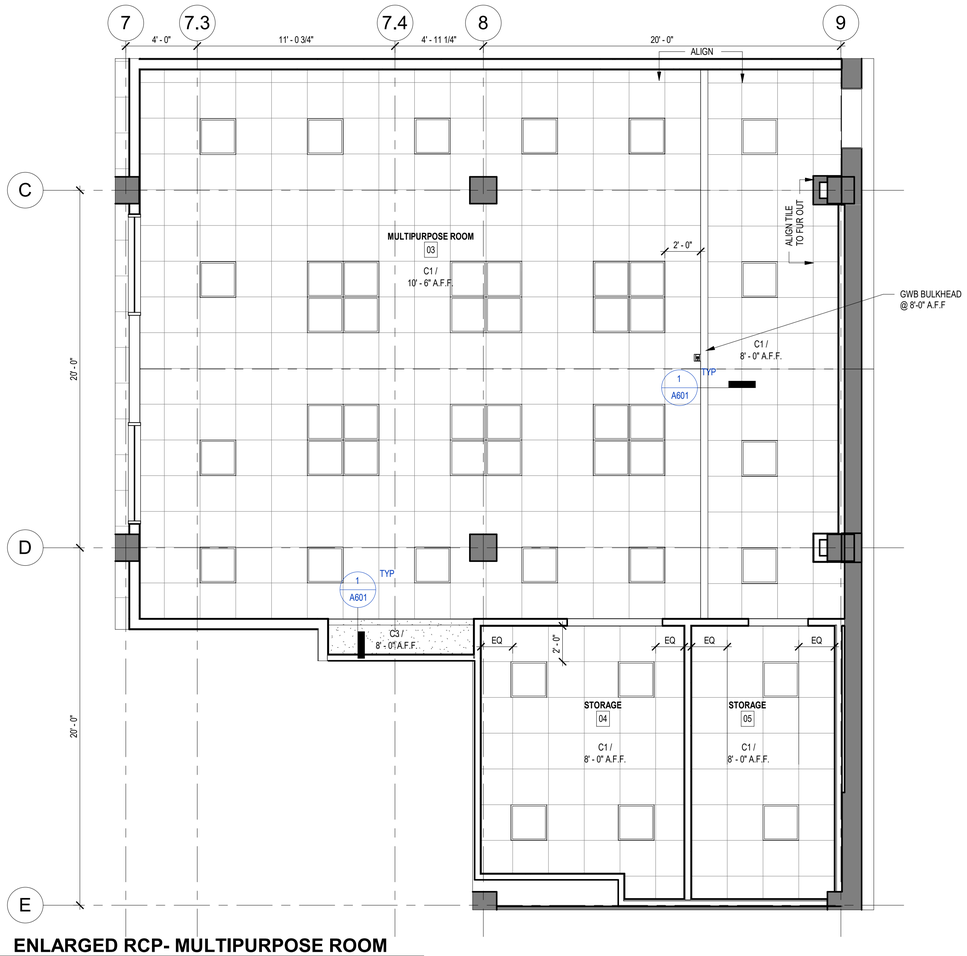
5 A417 | A417 **MPR- KITCHENETTE**
1/4" = 1'-0"



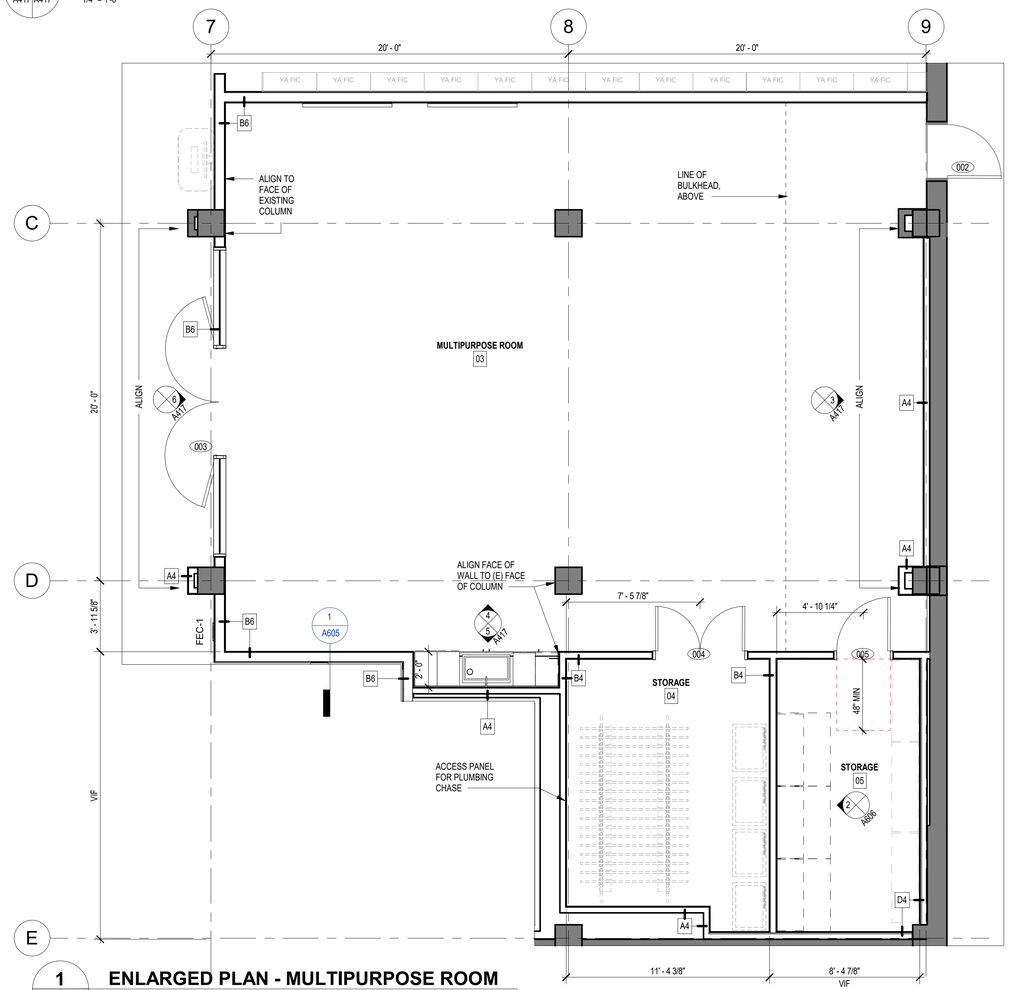
4 A417 | A417 **MPR- N WALL**
1/4" = 1'-0"



3 A417 | A417 **MPR - E WALL**
1/4" = 1'-0"



2 A113 | A417 **ENLARGED RCP- MULTIPURPOSE ROOM**
1/4" = 1'-0"



1 A111 | A417 **ENLARGED PLAN - MULTIPURPOSE ROOM**
1/4" = 1'-0"

FINISH LEGEND

CG-1	10 26 00 - METAL CORNER GUARDS
MB-1	10 11 00 GLASS MARKER BOARD, MAGNETIC
PLAM-1	06 40 00 - PLASTIC LAMINATE
PNT-1	09 91 23 - INTERIOR PAINTING
PNT-3	09 91 23 - INTERIOR PAINTING
SSM-1	12 36 00 - SOLID SURFACE COUNTERTOP
WB-1	09 65 13 - RESILIENT WALL BASE

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400

5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES

6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O

7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.

8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.

9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN, RS
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 08/07/26

SHEET
ENLARGED- MULTIPURPOSE ROOM
A417

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400

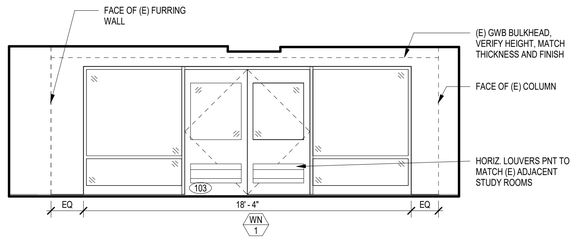
5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES

6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O

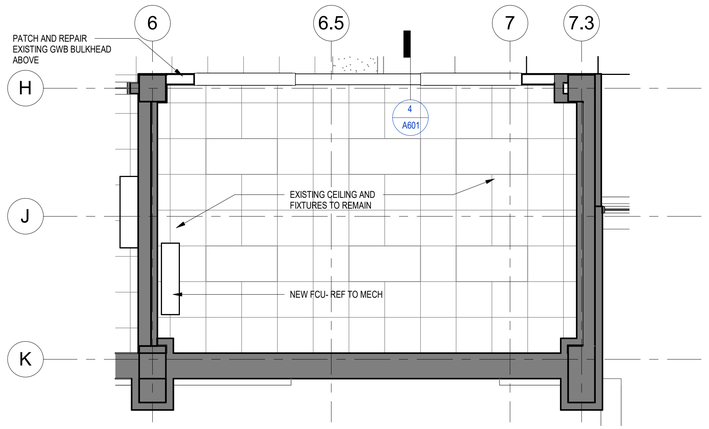
7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.

8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.

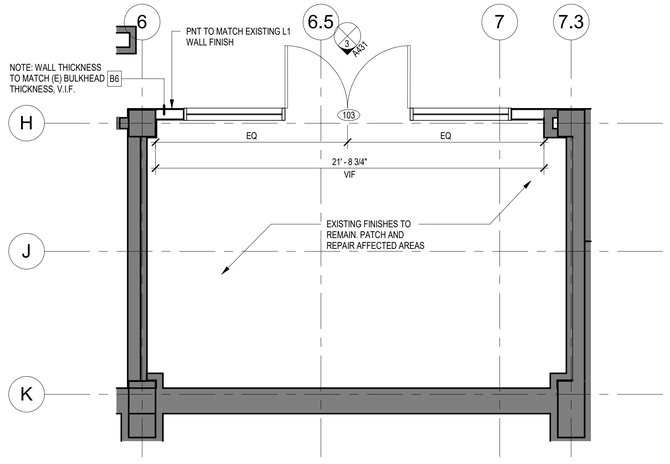
9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.



3 A431 | A431 **FLEX MEETING SPACE ENTRANCE**
1/4" = 1'-0"



2 A133 | A431 **ENLARGED RCP - FLEX MEETING SPACE**
1/4" = 1'-0"



1 A131 | A431 **ENLARGED PLAN - FLEX MEETING SPACE**
1/4" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

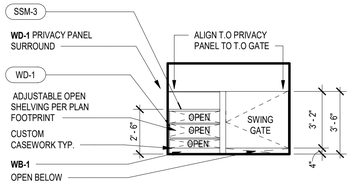
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

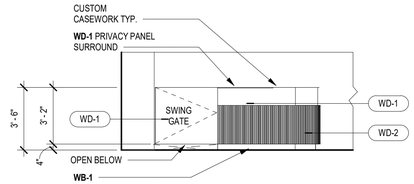
ENLARGED- FIRST FLOOR FLEX

A431



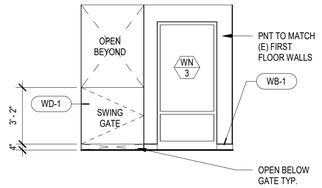
8 A432 | A432 SECURITY DESK BEHIND

1/4" = 1'-0"



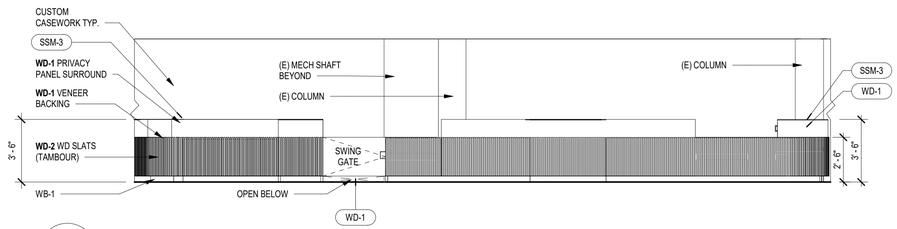
7 A432 | A432 SECURITY DESK FRONT

1/4" = 1'-0"



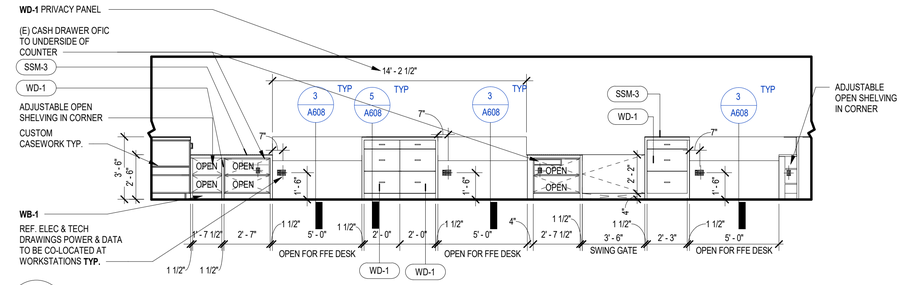
6 A432 | A432 (N) FRIST FLOOR WALL-W

1/4" = 1'-0"



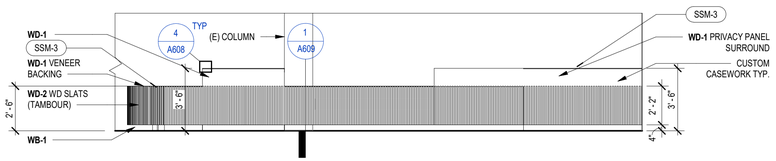
5 A432 | A432 FIRST FLOOR HELP DESK FRONT- E

1/4" = 1'-0"



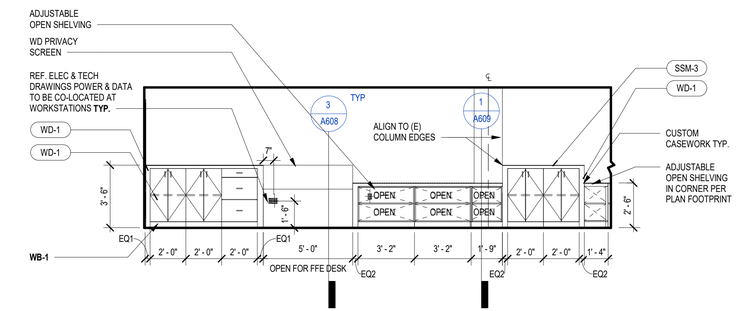
4 A432 | A432 FIRST FLOOR HELP DESK BEHIND - E

1/4" = 1'-0"



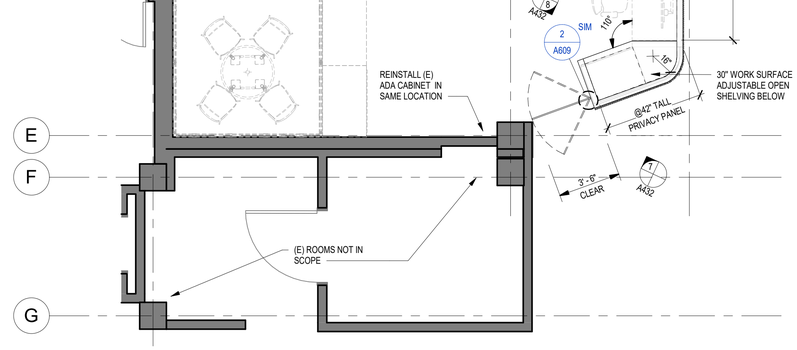
3 A432 | A432 FIRST FLOOR HELP DESK FRONT - N

1/4" = 1'-0"



2 A432 | A432 FIRST FLOOR HELP DESK BEHIND- N

1/4" = 1'-0"



1 A131 | A432 ENLARGED FIRST FLOOR HELP DESK

1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400
5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES
6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O
7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.
8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.
9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.

FINISH LEGEND

SSM-3	12 36 00 - SOLID SURFACE COUNTERTOP
WB-1	09 65 13 - RESILIENT WALL BASE
WD-1	06 40 00 -WOOD VENEER
WD-2	06 40 00 - ARCHITECTURAL WOODWORK

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

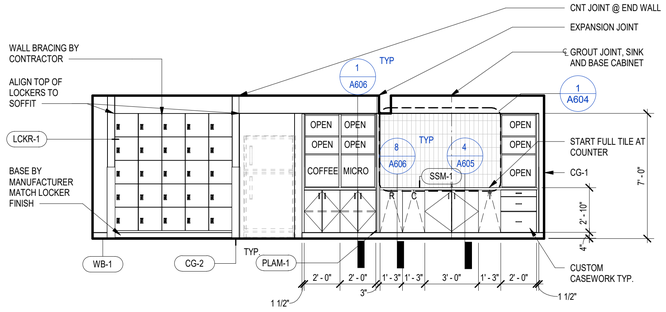
No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

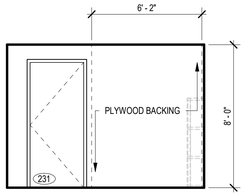
SHEET

ENLARGED- FIRST FLOOR HELP DESK

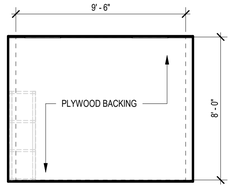
A432



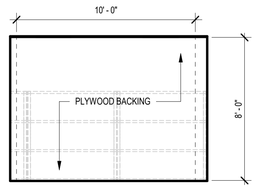
8 KITCHENETTE AND LOCKERS - N WALL
A441 | A441
1/4" = 1'-0"



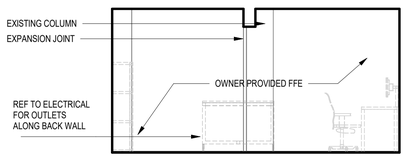
7 STORAGE-S
A441 | A441
1/4" = 1'-0"



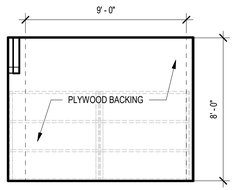
6 STORAGE - E WALL
A441 | A441
1/4" = 1'-0"



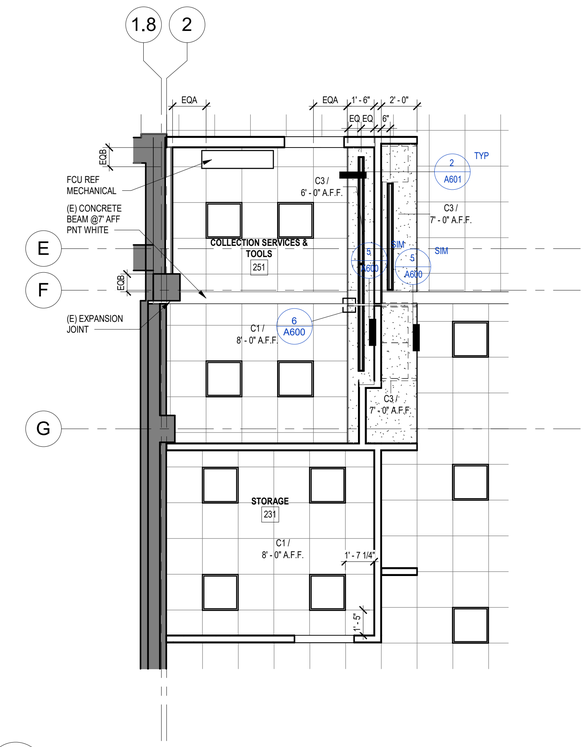
5 STORAGE - N WALL
A441 | A441
1/4" = 1'-0"



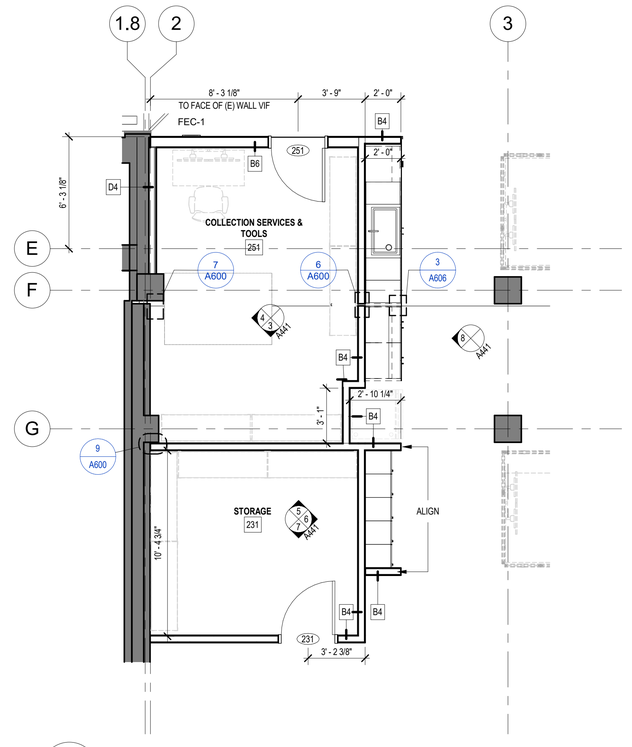
4 COLLECTIONS & SERVICES- W WALL
A441 | A441
1/4" = 1'-0"



3 COLLECTIONS & SERVICES- S WALL
A441 | A441
1/4" = 1'-0"



2 ENLARGED RCP - LEVEL 2 COLLECTIONS & SERVICES
A143 | A441
1/4" = 1'-0"



1 ENLARGED PLAN - LEVEL 2 COLLECTIONS & SERVICES
A141 | A441
1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400

5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES

6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O

7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.

8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.

9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.

FINISH LEGEND

CG-2	10 26 00 - Metal Corner Guards- END CAP
LCKR-1	10 51 13 - METAL LOCKERS
PLAM-1	06 40 00 - PLASTIC LAMINATE
SSM-1	12 36 00 - SOLID SURFACE COUNTERTOP
WB-1	09 65 13 - RESILIENT WALL BASE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

ENLARGED-COLLECTIONS& SERVICES

A441

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400

5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES

6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O

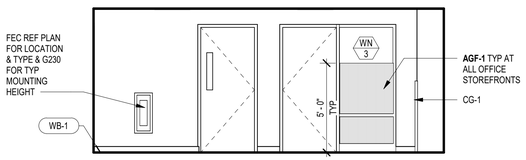
7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.

8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.

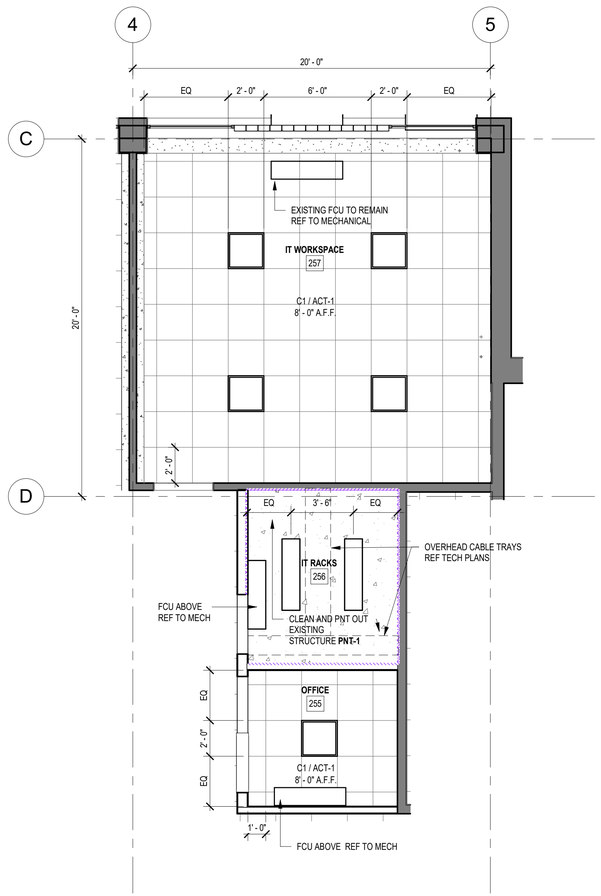
9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.

FINISH LEGEND

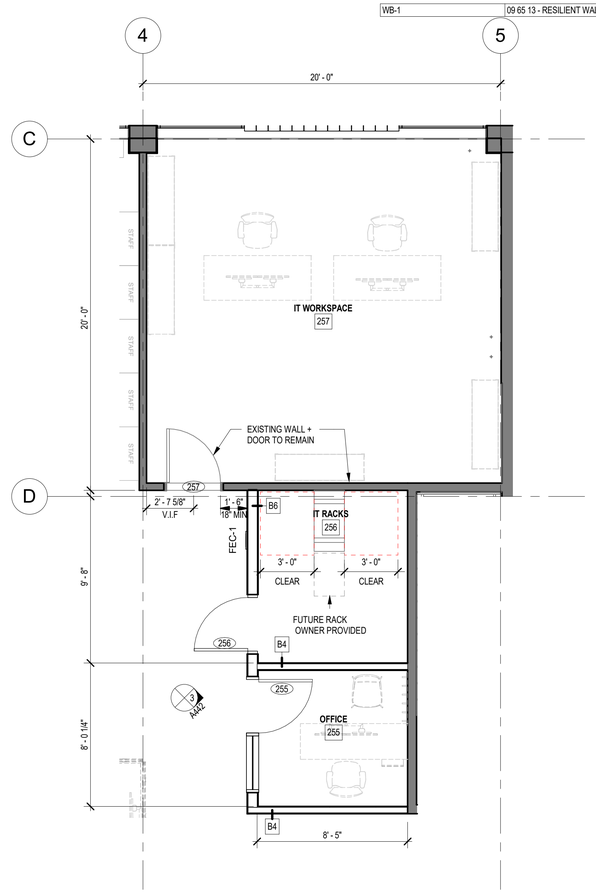
WB-1	09 65 13 - RESILIENT WALL BASE



3 A442 | A442 — **IT RACK RM / OFFICE ELEVATION**
1/4" = 1'-0"



2 A143 | A442 — **ENLARGED RCP - IT WORKSPACE**
1/4" = 1'-0"



1 A141 | A442 — **ENLARGED PLAN - IT WORKSPACE**
1/4" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

ENLARGED- IT ROOM & RACKS

A442

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

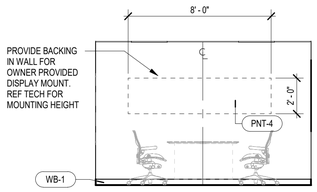
9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

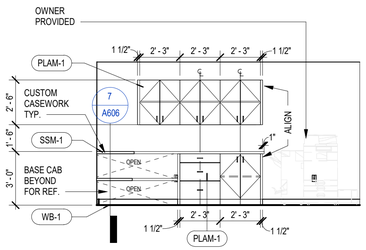
1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400
5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES
6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O
7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.
8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.
9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.

FINISH LEGEND

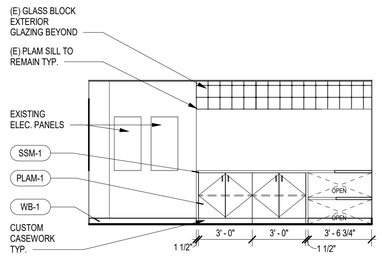
AGF-1	08 87 17 - GLAZING FILM
CG-2	10 26 00 - Metal Corner Guards- END CAP
PLAM-1	06 40 00 - PLASTIC LAMINATE
PNT-4	09 91 23 - INTERIOR PAINTING
SSM-1	12 36 00 - SOLID SURFACE COUNTERTOP
WB-1	09 65 13 - RESILIENT WALL BASE



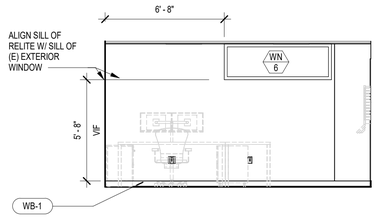
6 A444 | A444 **MEETING ROOM - N**
1/4" = 1'-0"



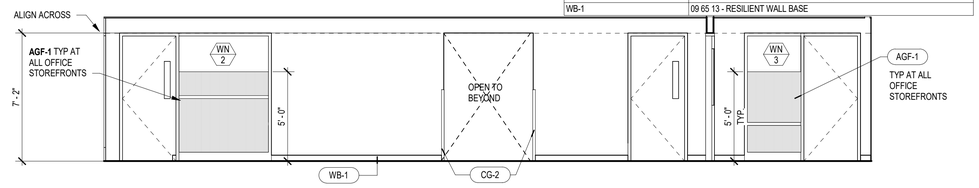
5 A444 | A444 **WORK ROOM - E WALL**
1/4" = 1'-0"



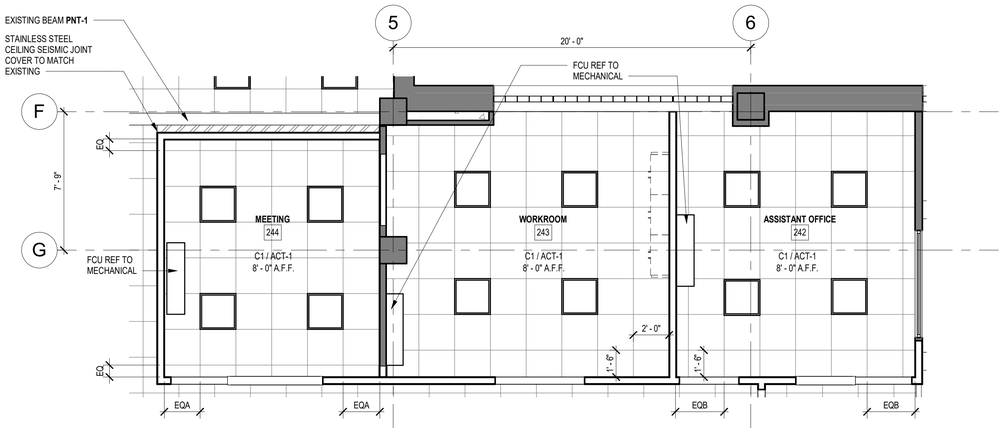
4 A444 | A444 **WORK ROOM - N WALL**
1/4" = 1'-0"



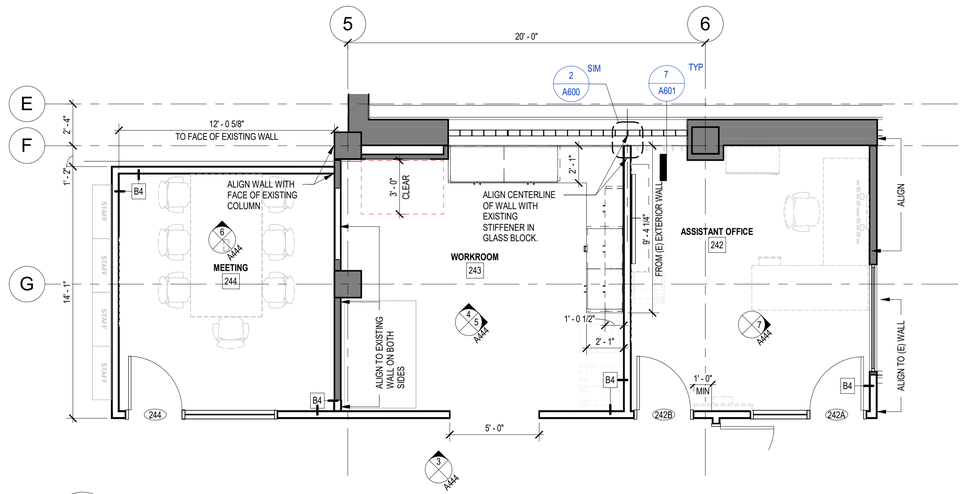
7 A444 | A444 **ADMIN OFFICE- E WALL**
1/4" = 1'-0"



3 A444 | A444 **NORTH OFFICES ELEV**
1/4" = 1'-0"



2 A143 | A444 **ENLARGED RCP - NORTH OFFICES**
1/4" = 1'-0"



1 A141 | A444 **ENLARGED PLAN - NORTH OFFICES**
1/4" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

ENLARGED- MEETING ROOMS

A444

FINISH LEGEND

AGF-1	08 87 17 - GLAZING FILM
CG-1	10 26 00 - METAL CORNER GUARDS
WB-1	09 65 13 - RESILIENT WALL BASE

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400

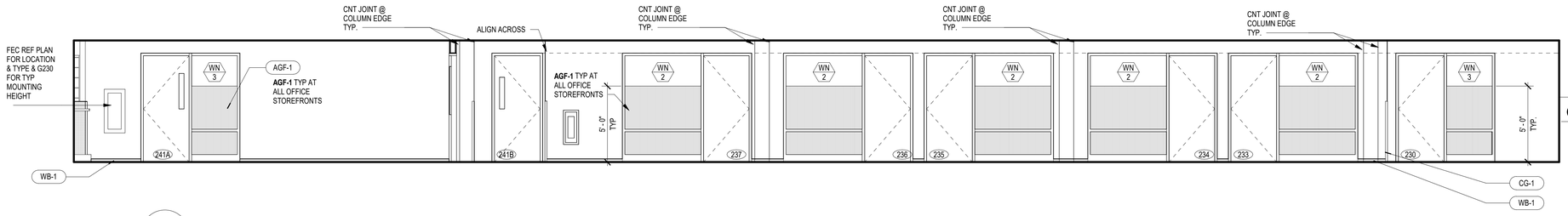
5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES

6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O

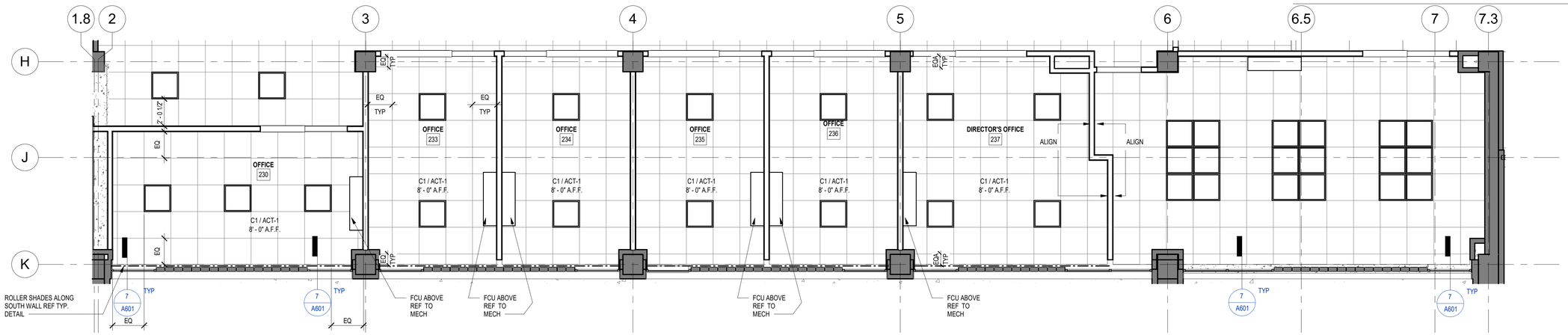
7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.

8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.

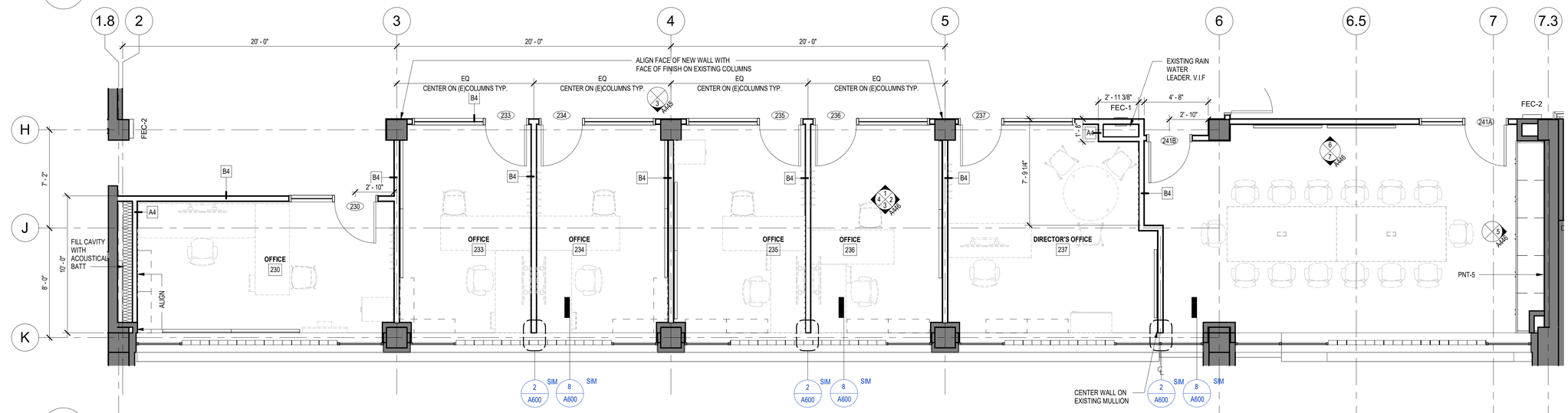
9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.



3 A445 — **STAFF OFFICES - S WALL**
1/4" = 1'-0"



2 A445 — **ENLARGED RCP - STAFF OFFICES**
1/4" = 1'-0"



1 A445 — **ENLARGED PLAN - STAFF OFFICES**
1/4" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

ENLARGED-STAFF OFFICES
A445

GENERAL FLOOR PLAN NOTES

1. ALL FLOOR LEVELS DENOTE TOP OF STRUCTURAL SLAB WITH ALL APPLIED FINISHES ATOP, UNO
2. SEE FINISH PLANS FOR NEW FLOOR FINISH TYPES AND LOCATIONS.
3. COORDINATE WORK EXTENTS WITH OTHER DRAWINGS AND OTHER DISCIPLINES
4. REFER TO SHEET A020 FOR INTERIOR PARTITION AND CEILING ASSEMBLY INFORMATION. ALL INTERIOR PARTITION TYPES ARE NOTED ON FLOOR PLANS OR ENLARGED FLOOR PLANS, WHERE OCCURS.
5. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS VARY FROM THE DOCUMENTS AND THE DIMENSIONS SHOWN.
6. PATCH & REPAIR CARPET WHERE (E) STACKS, CASEWORK, DESKS, AND OTHER BUILT-IN ELEMENTS ARE TO BE REMOVED AND RELOCATED, TYP
7. ALL LIBRARY SHELVING TO BE PROVIDED BY OWNER, AND IS EXISTING TO BE RE-USED. SHELVING IS SHOWN HALFTONE ON SHELVING PLANS FOR REFERENCE.

8. STORAGE ROOMS DO NOT REQUIRE ACOUSTICAL INSULATION UNLESS THEY ARE ADJACENT TO OFFICE WORKSPACE

9. ALL DIMENSIONS TO BE TAKEN FROM FACE OF GYP UNO. CLEAR DIMENSIONS ARE FROM FACE OF FINISH

GENERAL INTERIOR ELEVATION NOTES

1. SEE FLOOR PLANS AND ENLARGED PLANS FOR INTERIOR ELEVATION TAG LOCATIONS.
2. PROVIDE GWB AT WALL AND SOFFIT FACES. SEE WALL ASSEMBLY TYPES FOR LOCATIONS WITH MORE THAN (1) LAYER OF GWB.
3. SEE TYPICAL MOUNTING HEIGHT DIAGRAM FOR TYPICAL INTERIOR FIXTURE MOUNTING. MOUNT PER DIAGRAM UNO.
   A. TOILET ACCESSORIES: A400

5. REFERENCE G230 FOR ACCESSIBILITY REACH HEIGHTS AND CLEARANCES

6. NO ACOUSTICAL INSULATION IN WING WALLS & FURRING WALLS U.N.O

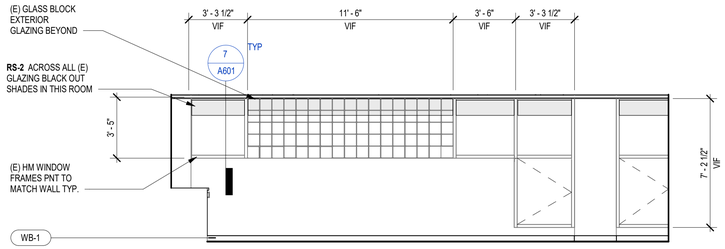
7. INTERIOR GWB PARTITIONS,TO BE PAINTED PNT-1 UNLESS OTHERWISE NOTED. WHEN NOTED, PAINT TO COVER ENTIRE WALL EXTENTS.

8. COLUMNS IN OPEN BOOKSTACKS TO BE PAINTED PNT-1 U.N.O.

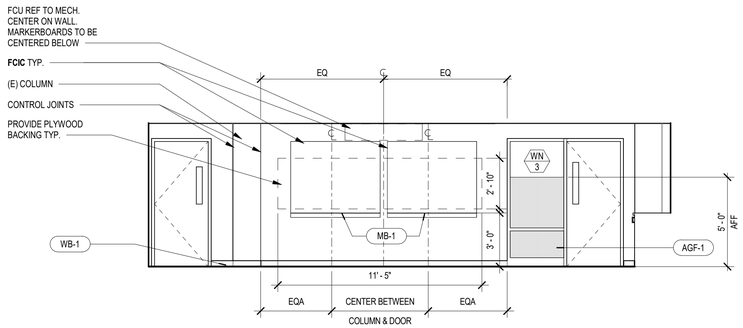
9. ALL HORIZONTAL AND VERTICAL FACES OF SOFFITS AND BULKHEADS TO BE PAINTED PNT-1 U.N.O.

FINISH LEGEND

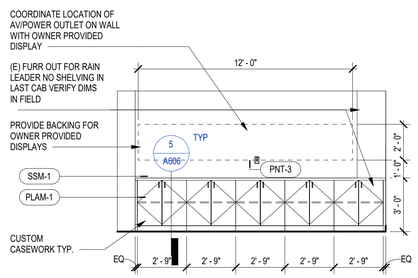
AGF-1	08 87 17 - GLAZING FILM
MB-1	10 11 00 GLASS MARKER BOARD, MAGNETIC
PLAM-1	06 40 00 - PLASTIC LAMINATE
PNT-3	09 91 23 - INTERIOR PAINTING
SSM-1	12 36 00 - SOLID SURFACE COUNTERTOP
WB-1	09 65 13 - RESILIENT WALL BASE



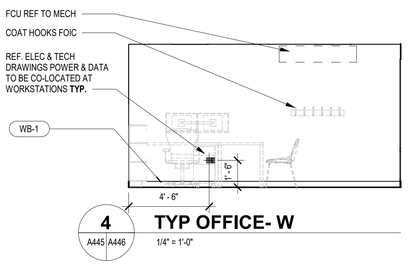
7 A445 A446 **BOARD ROOM-S**
1/4" = 1'-0"



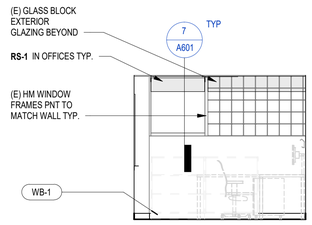
6 A445 A446 **BOARD ROOM -N**
1/4" = 1'-0"



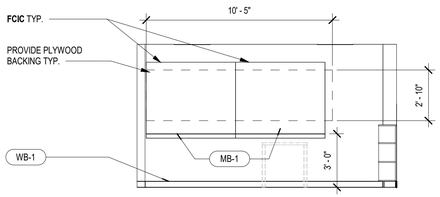
5 A445 A446 **BOARD ROOM AV**
1/4" = 1'-0"



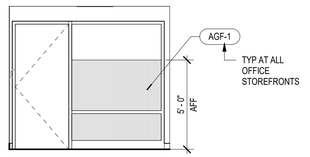
4 A445 A446 **TYP OFFICE- W**
1/4" = 1'-0"



3 A445 A446 **TYP OFFICE- S**
1/4" = 1'-0"



2 A445 A446 **TYP OFFICE- E**
1/4" = 1'-0"



1 A445 A446 **TYP OFFICE- N**
1/4" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

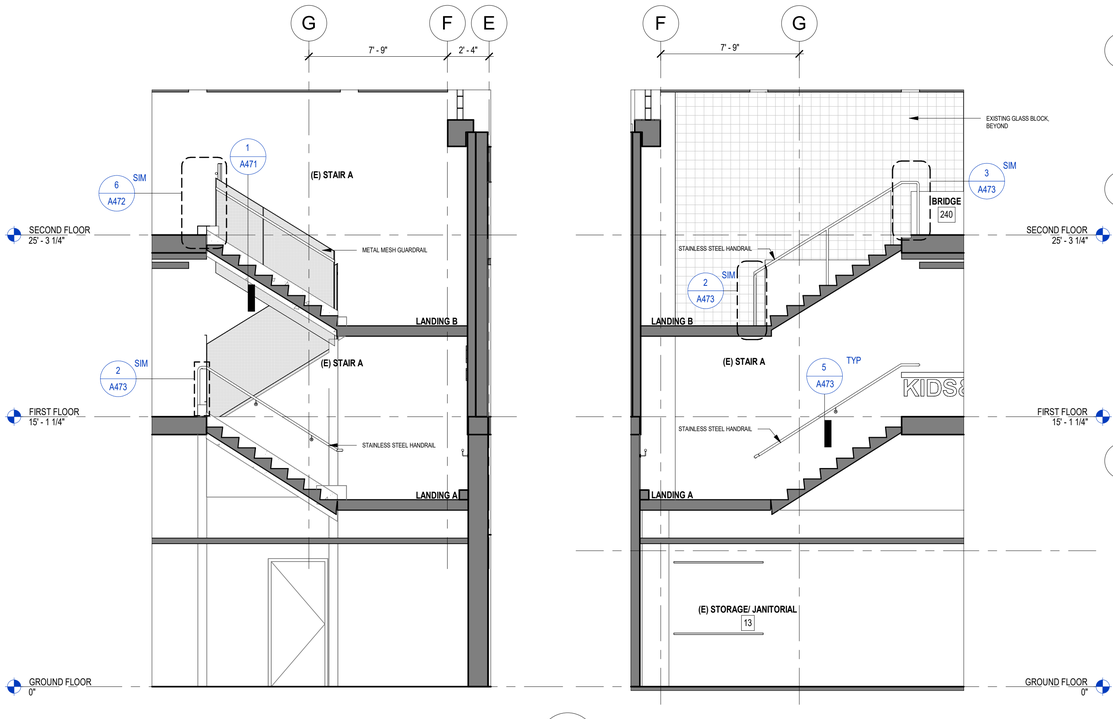
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

ENLARGED- STAFF OFFICES

A446



6 MAIN STAIR - WEST

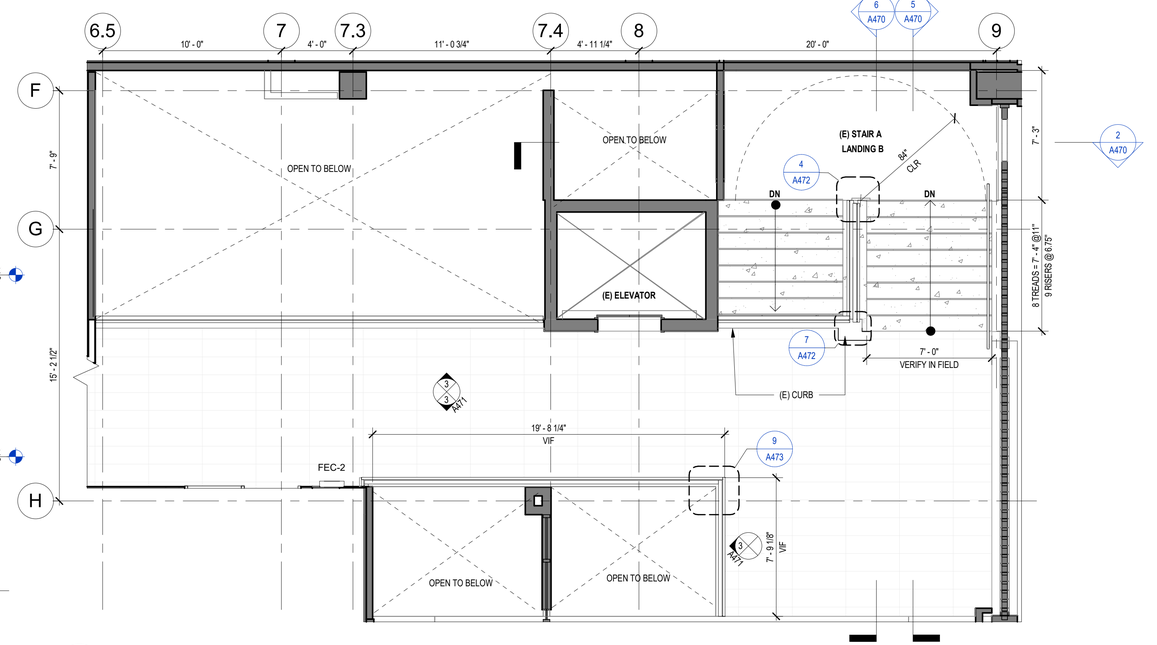
A470 | A470

1/4" = 1'-0"

5 MAIN STAIR - EAST

A470 | A470

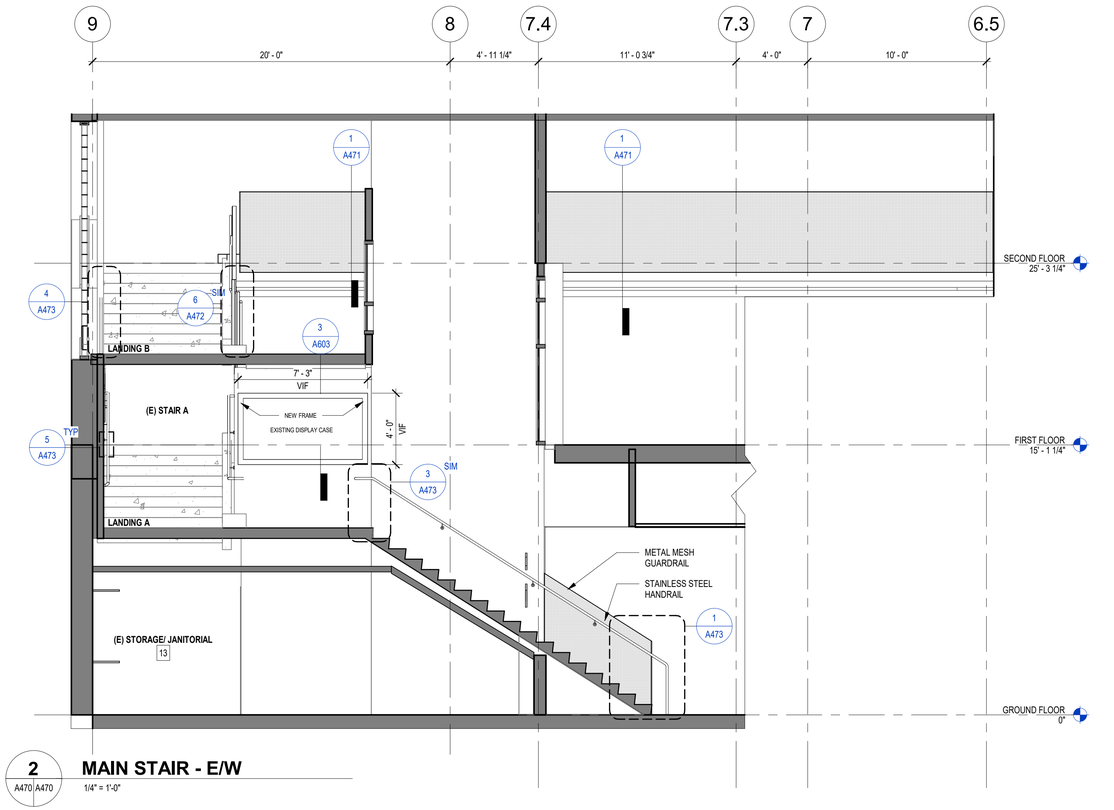
1/4" = 1'-0"



4 MAIN STAIR - LEVEL TWO

A141 | A470

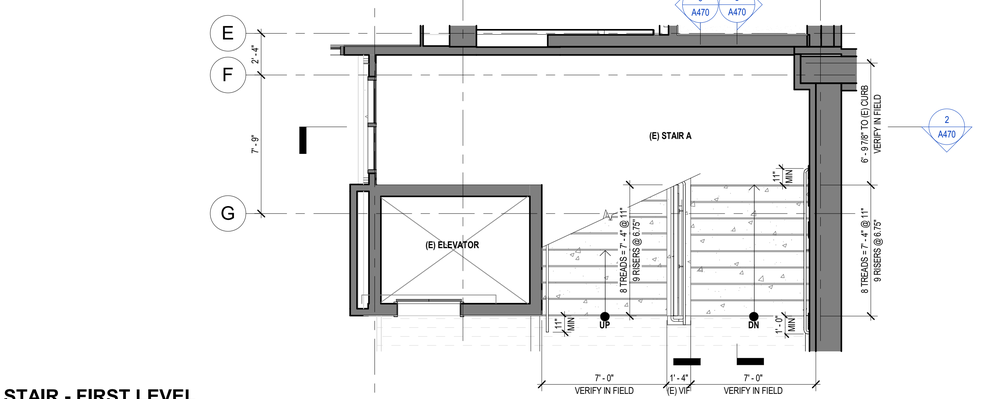
1/4" = 1'-0"



2 MAIN STAIR - E/W

A470 | A470

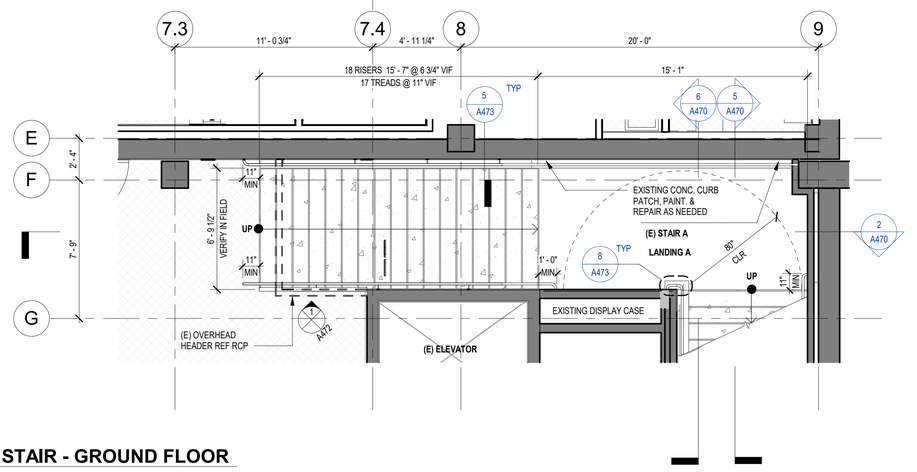
1/4" = 1'-0"



3 MAIN STAIR - FIRST LEVEL

A131 | A470

1/4" = 1'-0"



1 MAIN STAIR - GROUND FLOOR

A470

1/4" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

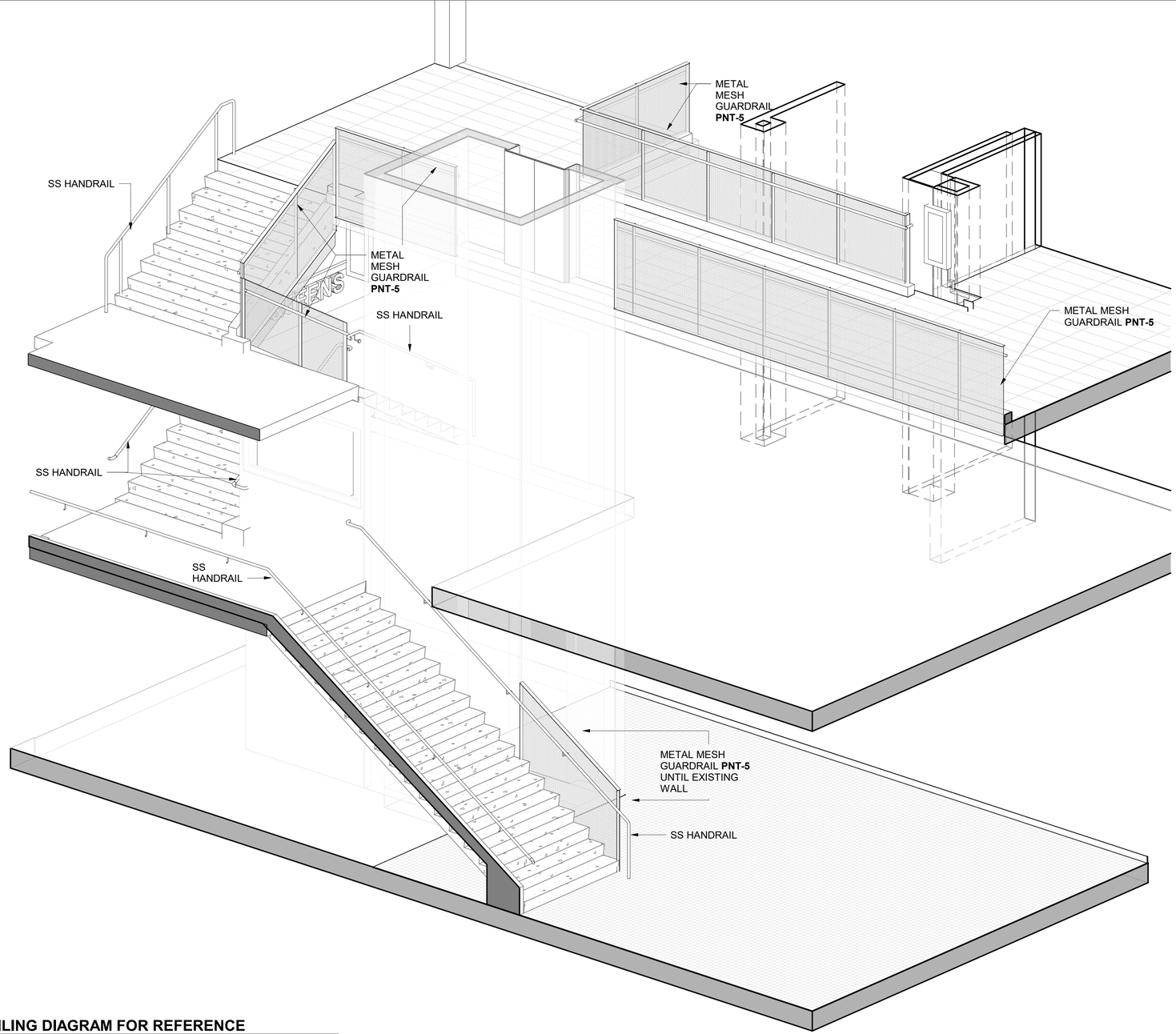
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

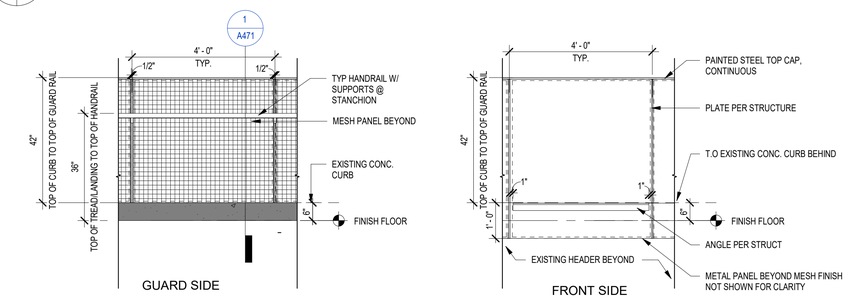
SHEET

VERTICAL TRANSPORTATION

A470

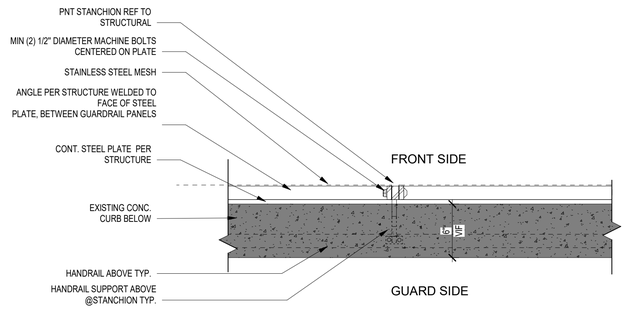


4 A471 EXISTING STAIR RAILING DIAGRAM FOR REFERENCE



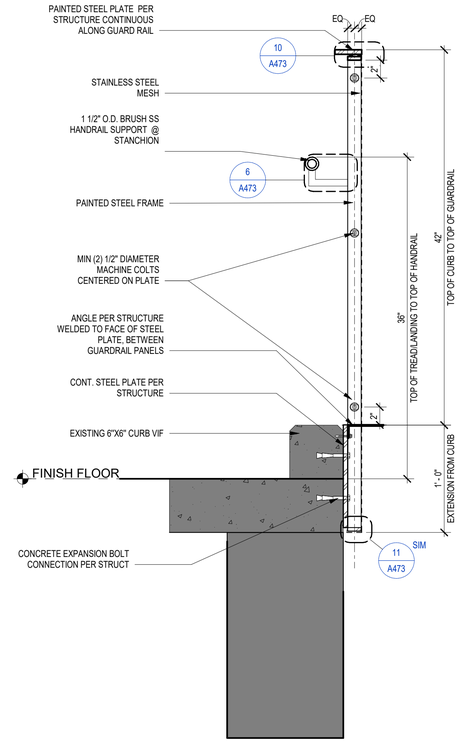
3 A470 A471 GUARDRAIL @ BRIDGE ELEVATION TYP

1/2" = 1'-0"



2 A471 PANEL TO PANEL GUARDRAIL @ BRIDGE

1 1/2" = 1'-0"



1 A470 A471 GAURD RAIL TYP.

1 1/2" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

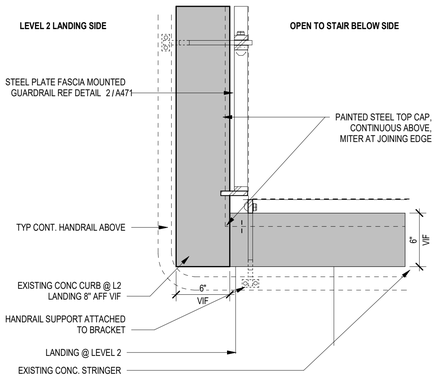
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

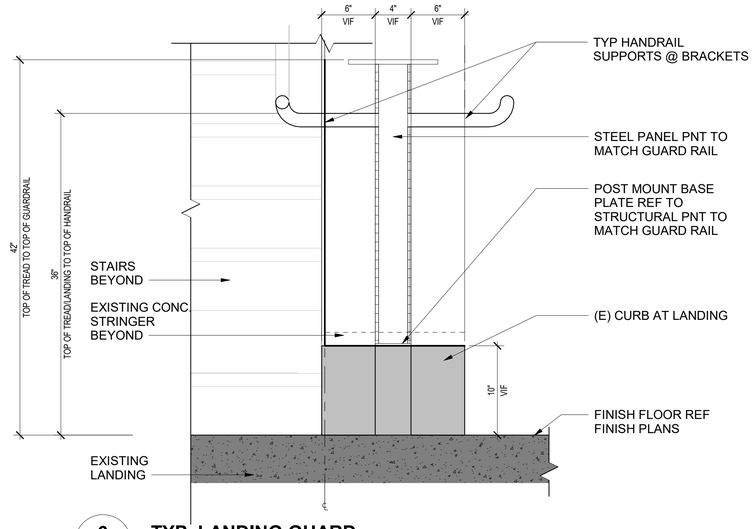
SHEET

VERTICAL TRANSPORTATION - DETAILS

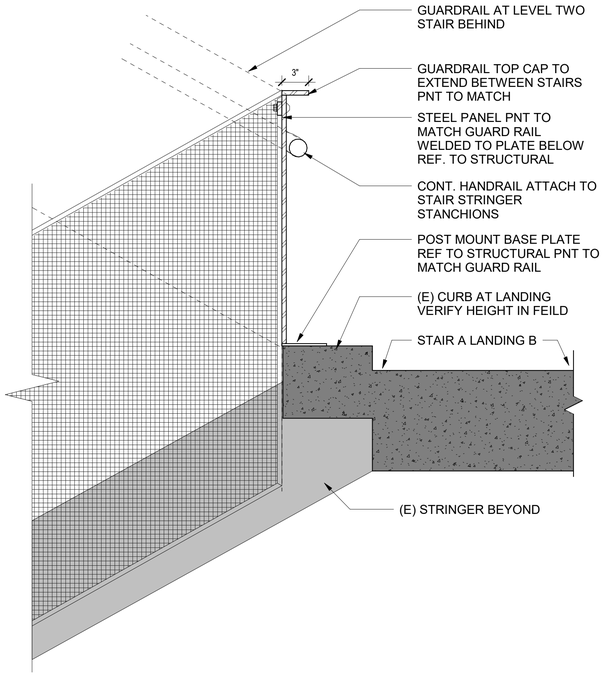
A471



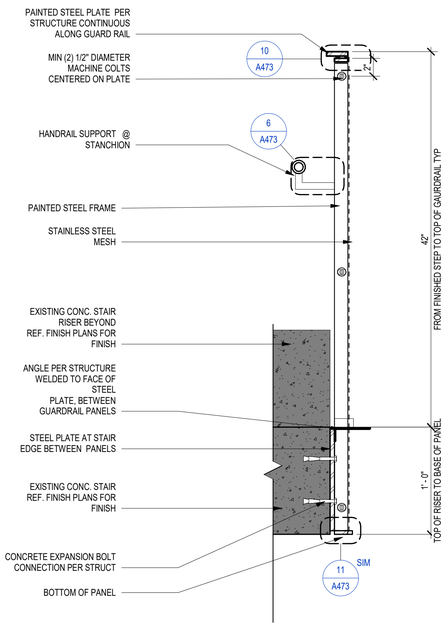
7 A470 | A472 — **GUARD RAIL @ L2 LANDING**
1 1/2" = 1'-0"



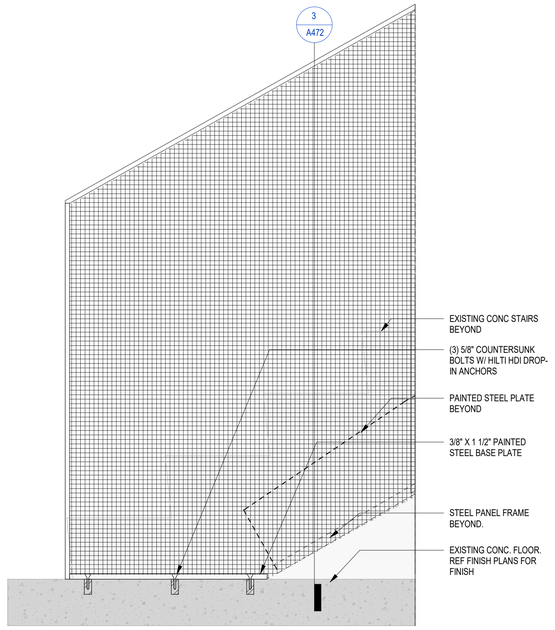
6 A470 | A472 — **TYP. LANDING GUARD**
1 1/2" = 1'-0"



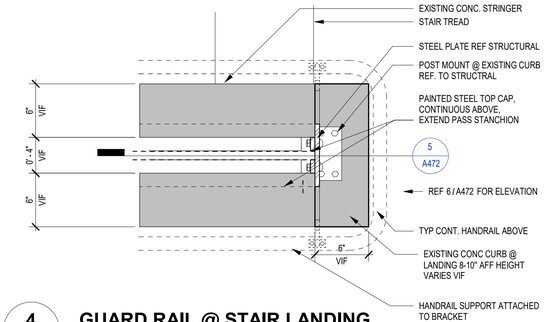
5 A472 | A472 — **SECTION @ GUARD RAIL LANDING**
1 1/2" = 1'-0"



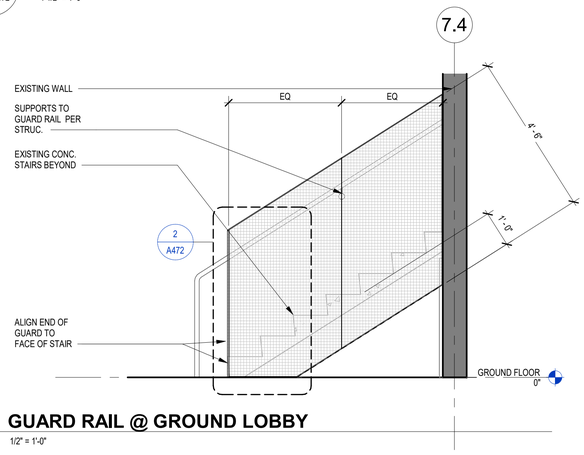
3 A472 | A472 — **GUARD RAIL @ GROUND LOBBY**
1 1/2" = 1'-0"



2 A472 | A472 — **GUARD RAIL BASE @ LOBBY**
1 1/2" = 1'-0"



4 A470 | A472 — **GUARD RAIL @ STAIR LANDING**
1 1/2" = 1'-0"



1 A410 | A472 — **GUARD RAIL @ GROUND LOBBY**
1/2" = 1'-0"

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

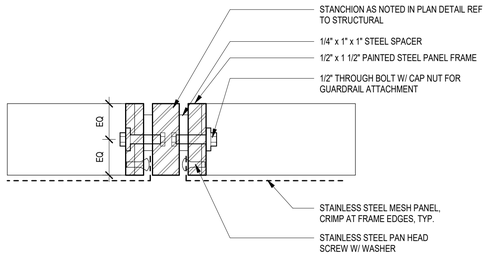
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

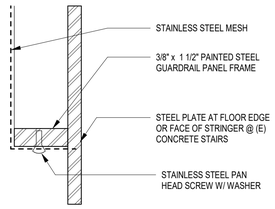
SHEET

VERTICAL TRANSPORTATION - DETAILS

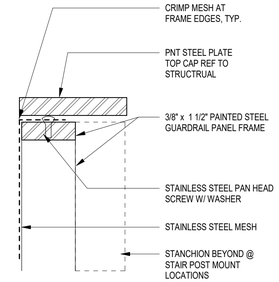
A472



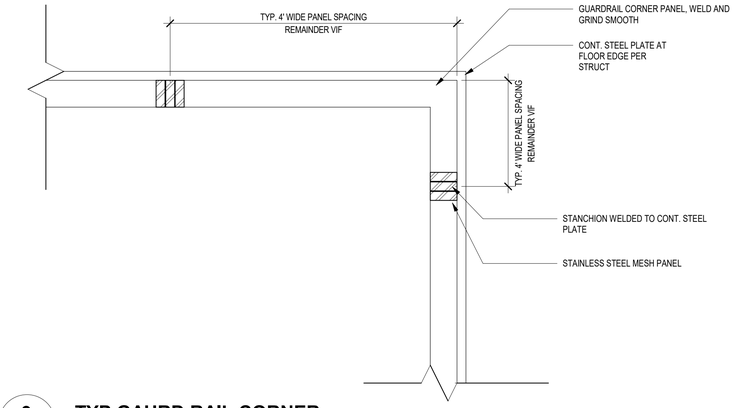
12 A473 — **STANCHION GUARDRAIL CONNECTION**
6" = 1'-0"



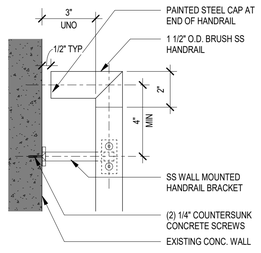
11 A471 A473 — **GUARDRAIL BOTTOM RAIL**
6" = 1'-0"



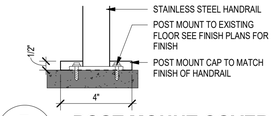
10 A471 A473 — **Guard Rail Top Cap**
6" = 1'-0"



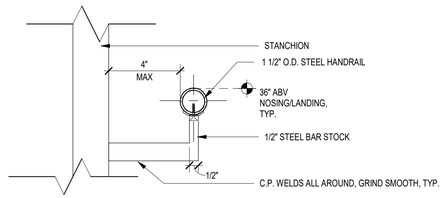
9 A401 A473 — **TYP GAURD RAIL CORNER**
3" = 1'-0"



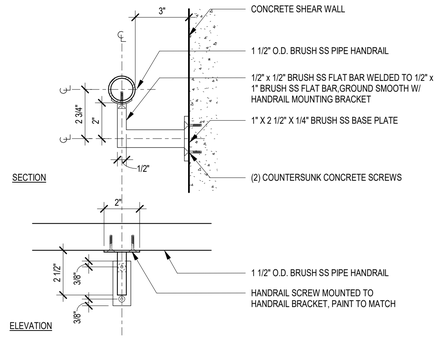
8 A470 A473 — **TYP HANDRAIL RETURN @ WALL**
3" = 1'-0"



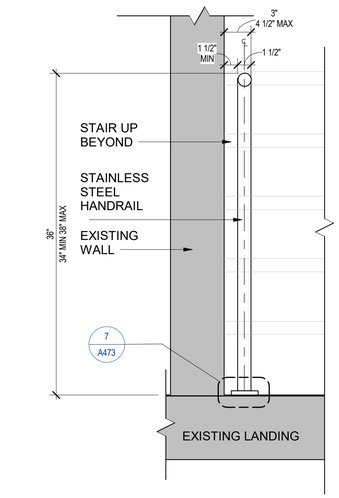
7 A473 A473 — **POST MOUNT COVER TYP.**
3" = 1'-0"



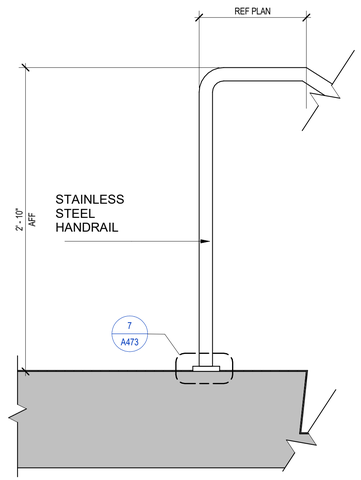
6 A471 A473 — **HANDRAIL @ GAURD POST**
3" = 1'-0"



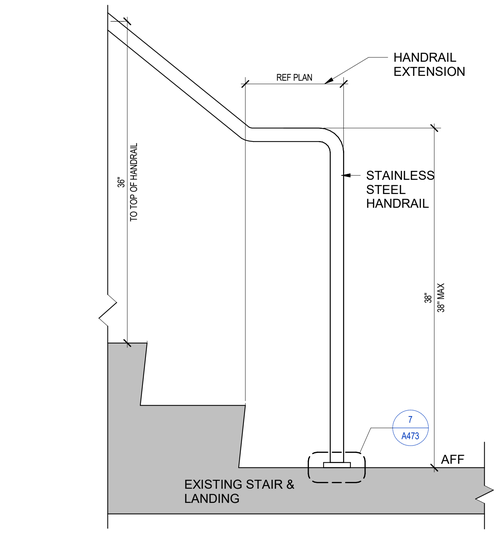
5 A470 A473 — **HANDRAIL BRACKET @ WALL**
3" = 1'-0"



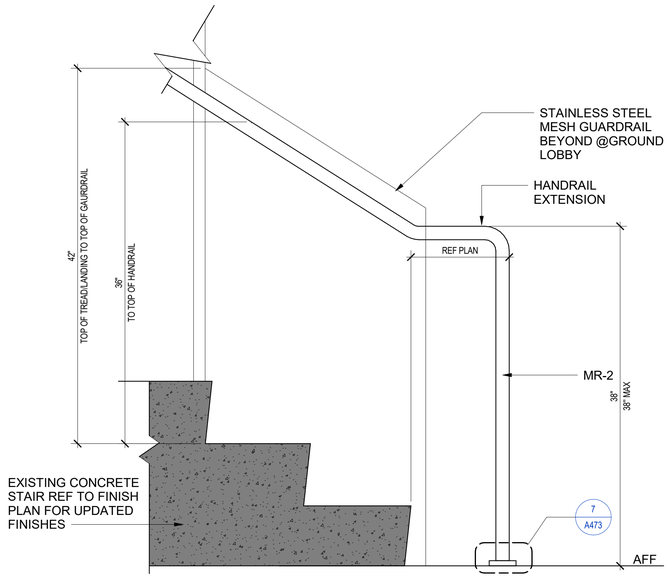
4 A470 A473 — **TYP. RAIL SECTION**
1 1/2" = 1'-0"



3 A470 A473 — **TYP. RAILFLOOR RETURN**
1 1/2" = 1'-0"



2 A470 A473 — **TYP. RAIL TO FLOOR LANDING**
1 1/2" = 1'-0"



1 A470 A473 — **STAIR BASE @ GROUND LOBBY**
1 1/2" = 1'-0"

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

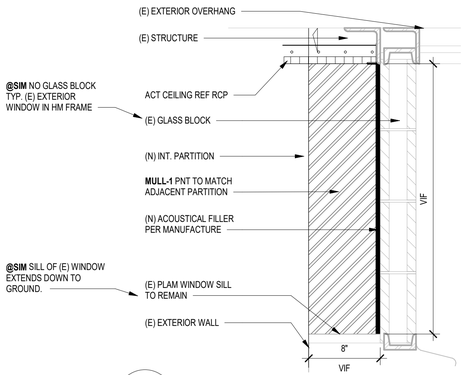
No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

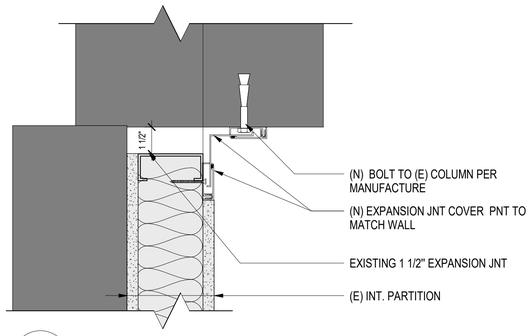
VERTICAL TRANSPORTATION - DETAILS

A473



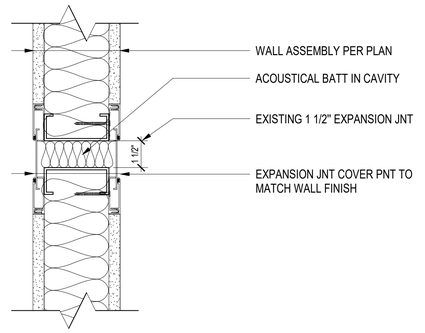
8 A445 | A600 **SECTION INFILL @ GLASS BLOCK**

1 1/2" = 1'-0"



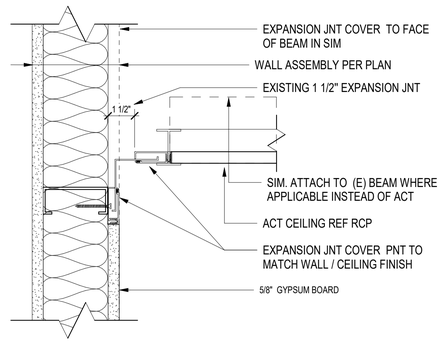
7 A441 | A600 **EXPANSION JOINT @COLUMN TO WALL**

3" = 1'-0"



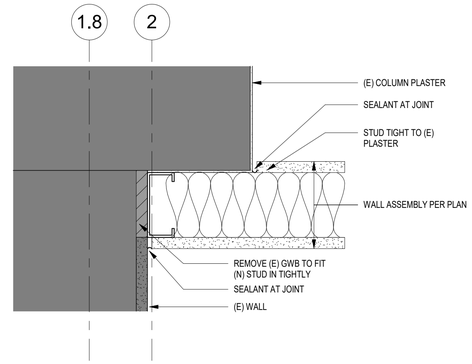
6 A441 | A600 **EXPANSION JOINT @WALL TO WALL**

3" = 1'-0"



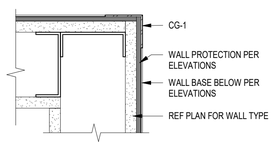
5 A441 | A600 **EXPANSION JOINT @CEILING TO WALL**

3" = 1'-0"



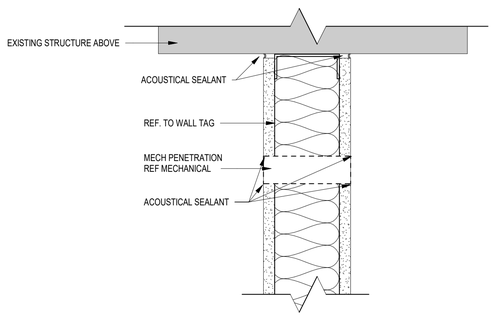
9 A441 | A600 **(N) PARTITION TO (E) COLUMN**

3" = 1'-0"



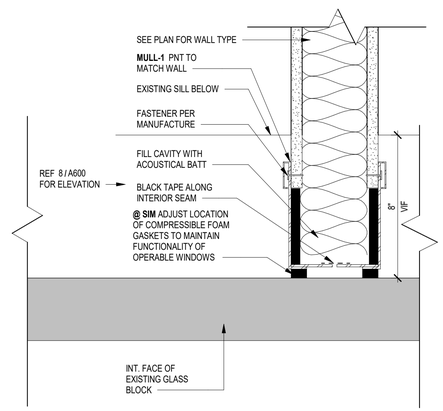
4 A600 **CORNER GUARD DETAIL**

3" = 1'-0"



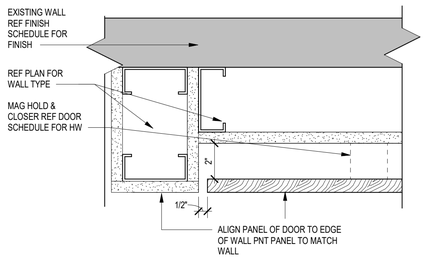
3 A600 **TYP. L2 OFFICE WALL**

3" = 1'-0"



2 A444 | A600 **INT. PARTITION INFILL @ GLASS BLOCK**

3" = 1'-0"



1 A410 | A600 **DOOR POCKET @ GROUND LOBBY**

3" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

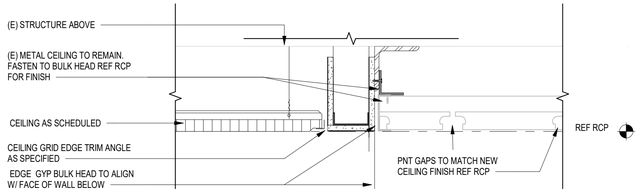
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

INTERIOR DETAILS - WALLS

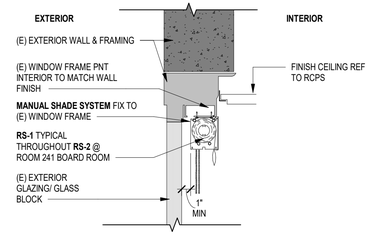
A600



8 (E) METAL CEILING TO (N) ACT

A133 | A601

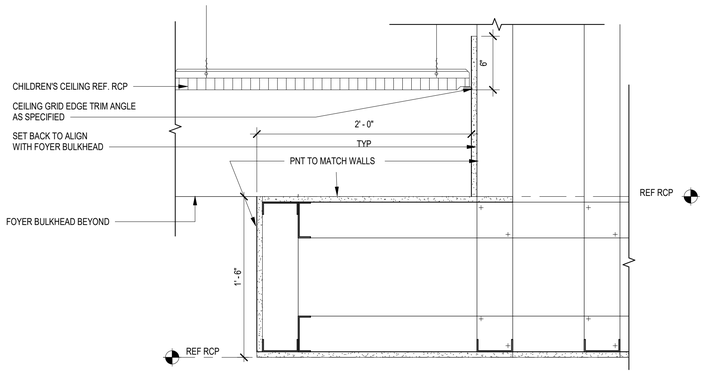
1 1/2" = 1'-0"



7 TYP ROLLER BLIND

A412 | A601

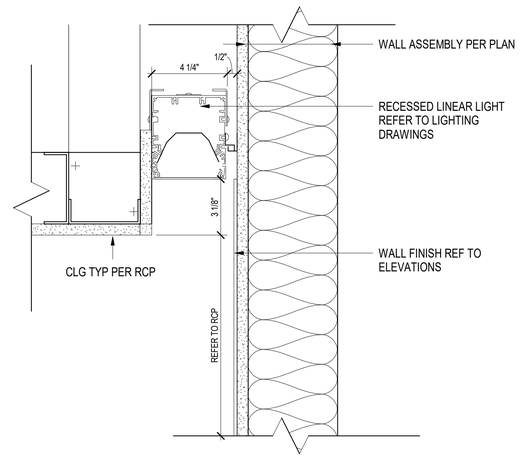
1 1/2" = 1'-0"



6 SOFFIT @ CHILDREN'S HELPDESK

A414 | A601

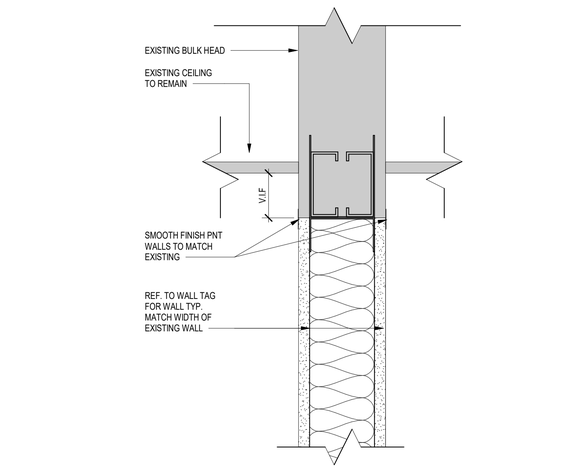
1 1/2" = 1'-0"



5 TYP RR WALL WASH

A401 | A601

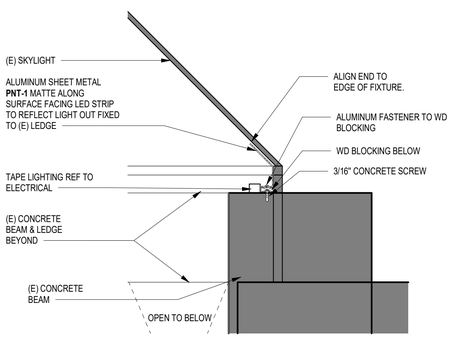
3" = 1'-0"



4 BULKHEAD, FIRST FLOOR

A431 | A601

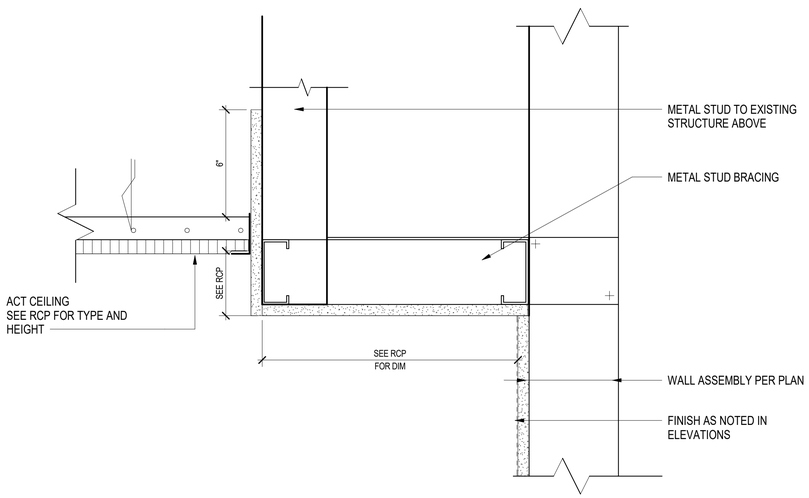
3" = 1'-0"



3 TAPE LIGHT @ SKYLIGHT

A143 | A601

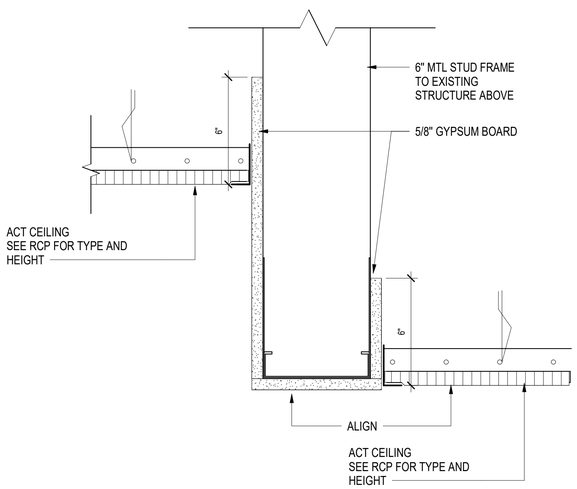
3" = 1'-0"



2 TYP. SOFFIT CONDITION

A401 | A601

3" = 1'-0"



1 TYP. BULKHEAD

A113 | A601

3" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

INTERIOR DETAILS- CEILING

A601

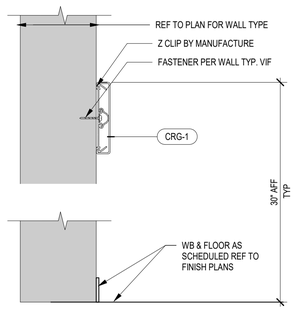
MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

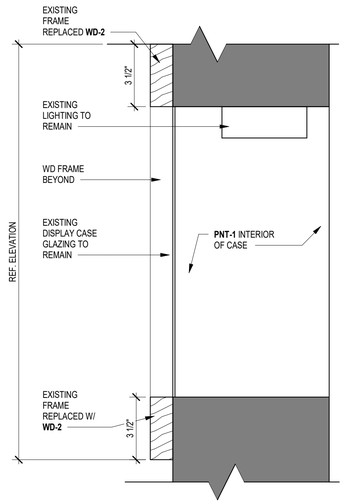
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

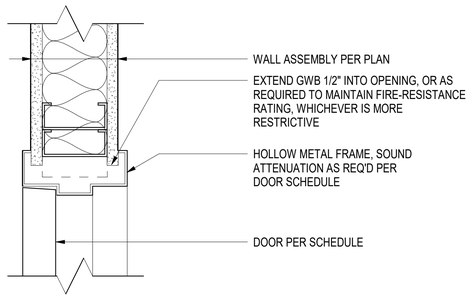
STAMP



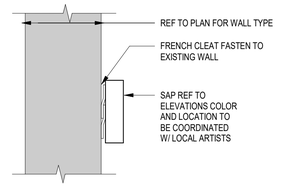
4 A413 A603 **CART RAIL**
3" = 1'-0"



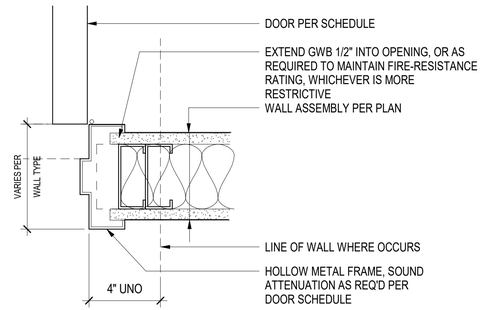
3 A470 A603 **(E) DISPLAY CASE**
3" = 1'-0"



2 A603 **HEAD HM DOOR HM FRAME @ STUD WALL**
3" = 1'-0"



5 A603 **SAP TO WALL TYP**
3" = 1'-0"



1 A603 **JAMB/ SILL HM DOOR FRAME @ STUD WALL**
3" = 1'-0"

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

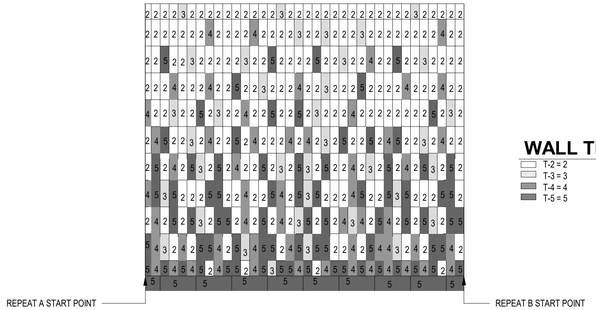
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

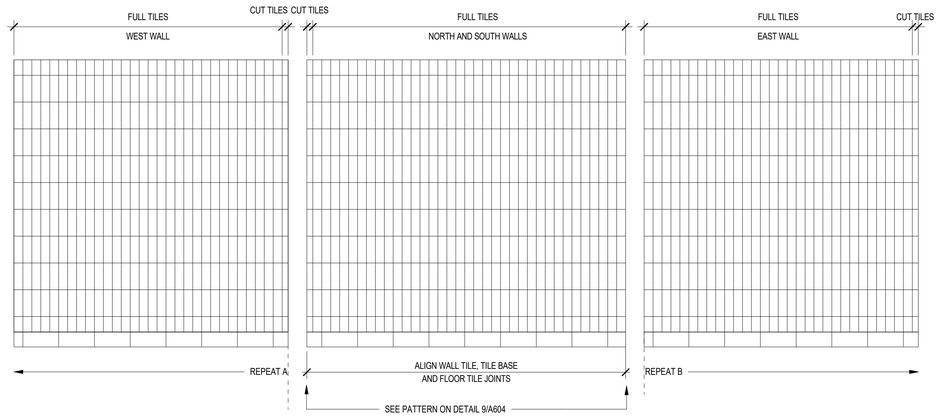
INTERIOR DETAILS - MISC

A603



WALL TILE KEY

- T-2 = 2
- T-3 = 3
- T-4 = 4
- T-5 = 5

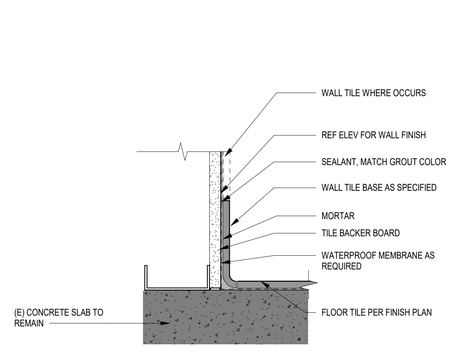


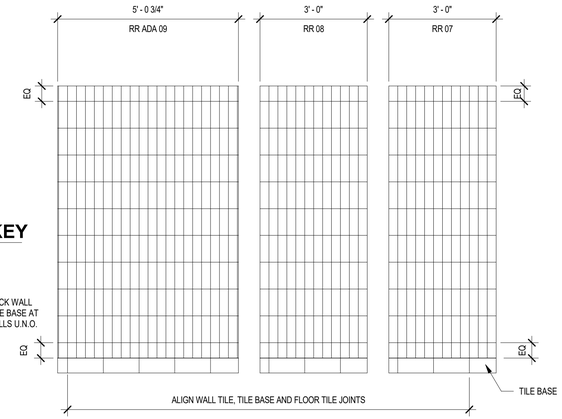
9 A604 GROUND FLOOR FAMILY RR - TILE PATTERN

1/2" = 1'-0"

8 A604 GROUND FLOOR FAMILY RR - TILE LAYOUT

1/2" = 1'-0"

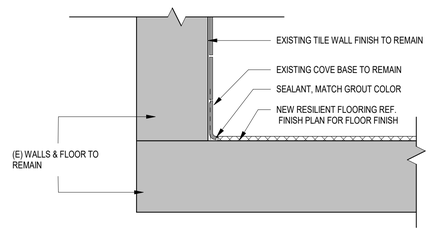




WALL TILE KEY

- T-2 = 2
- T-3 = 3
- T-4 = 4
- T-5 = 5

TILE LAYOUT SHOWN IS FOR BACK WALL ONLY. CONTINUE MATCHING TILE BASE AT ALL REMAINING RESTROOM WALLS U.N.O.



7 A400 A604 WB @ EXISTING STAFF RR

1 1/2" = 1'-0"

6 A401 A604 TYP RR WALL TO FLOOR

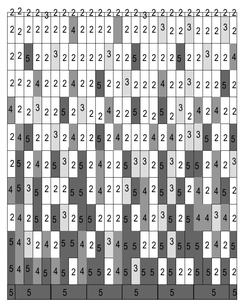
3" = 1'-0"

5 A604 GROUND FLOOR PUBLIC RR STALLS - EAST WALL TILE PATTERN

1/2" = 1'-0"

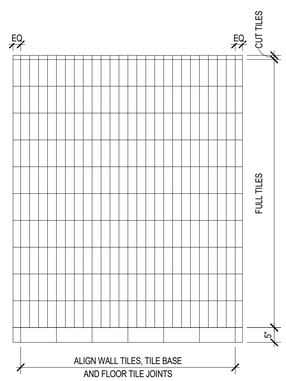
4 A401 A604 GROUND FLOOR PUBLIC RR STALLS - EAST WALL TILE LAYOUT

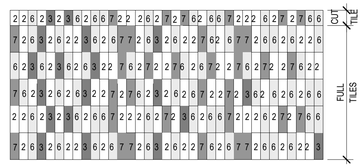
1/2" = 1'-0"



WALL TILE KEY

- T-2 = 2
- T-3 = 3
- T-4 = 4
- T-5 = 5





BACKSPLASH TILE KEY

- T-2 = 2
- T-6 = 6
- T-7 = 7
- T-3 = 3

3 A604 PUBLIC RR SINK AND WATER FOUNTAIN WALL TILE PATTERN

1/2" = 1'-0"

2 A604 PUBLIC RR SINK AND WATER FOUNTAIN WALL TILE LAYOUT TYP.

1/2" = 1'-0"

1 A412 A604 KITCHENETTE - BACKSPLASH TILE PATTERN

1/2" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

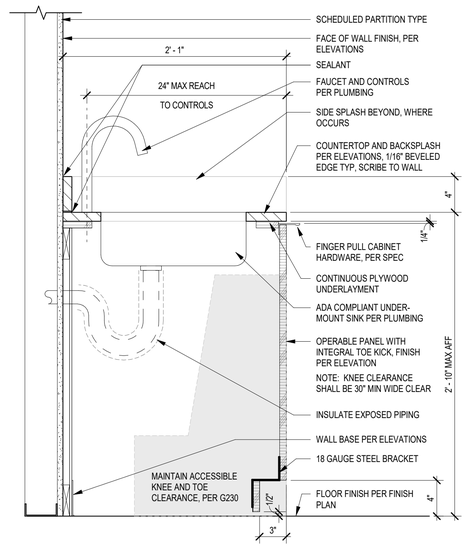
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

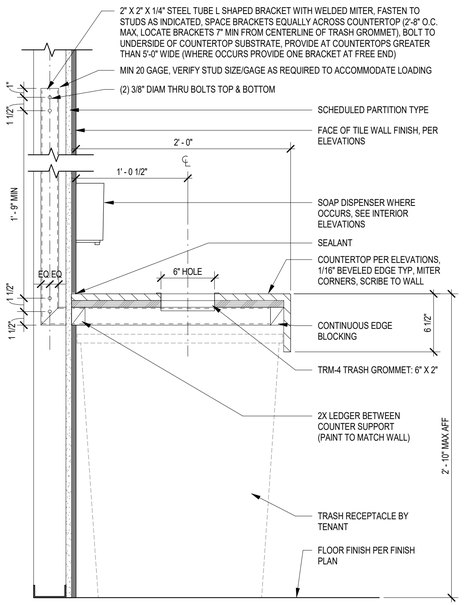
INTERIOR DETAILS- TILE

A604



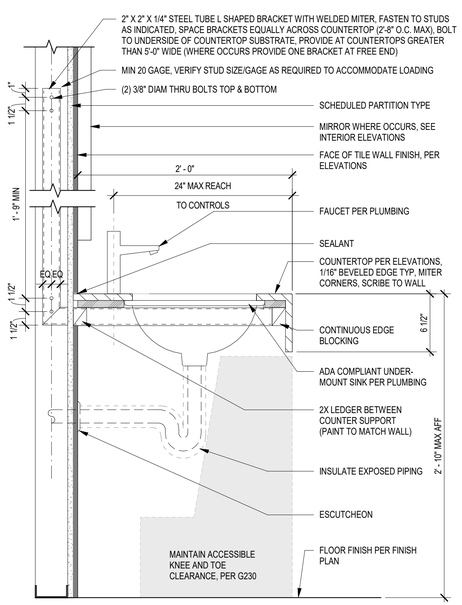
4 A412 | A605 — **SINK @ KITCHENETTES**

1 1/2" = 1'-0"



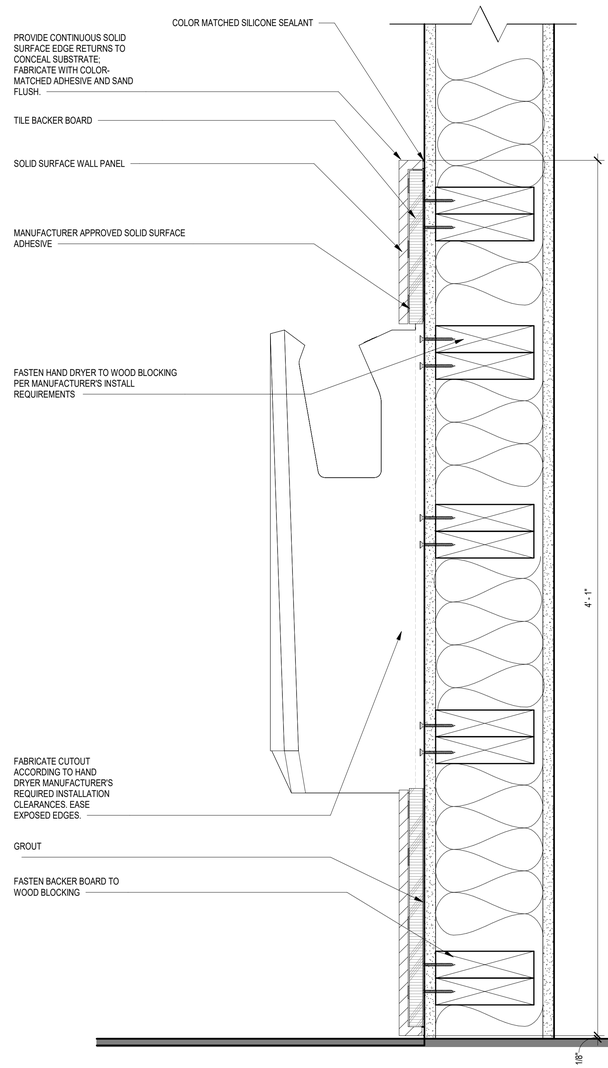
3 A401 | A605 — **TRASH @ PUBLIC RR**

1 1/2" = 1'-0"



2 A401 | A605 — **SINK @ PUBLIC RR**

1 1/2" = 1'-0"



1 A401 | A605 — **PUBLIC RR HAND DRYER SOLID SURFACE PANEL SURROUND**

3" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

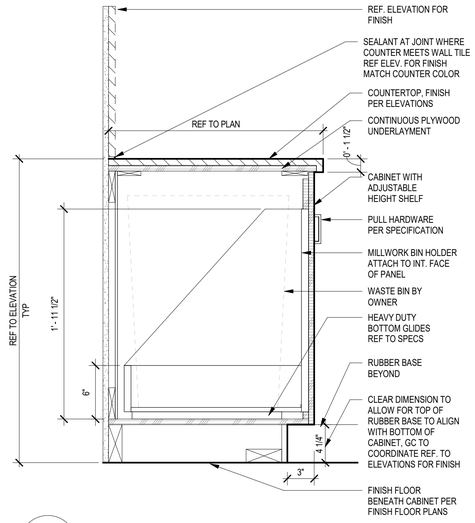
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

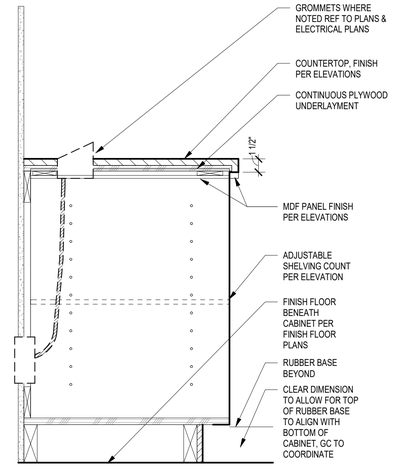
INTERIOR DETAILS- RR & SINKS

A605



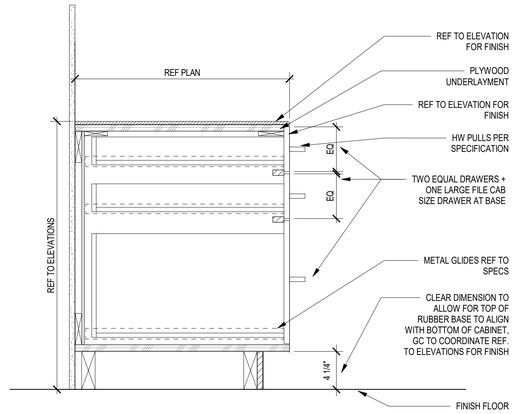
8 A412 | A606 — **PULL OUT TRASH**

1 1/2" = 1'-0"



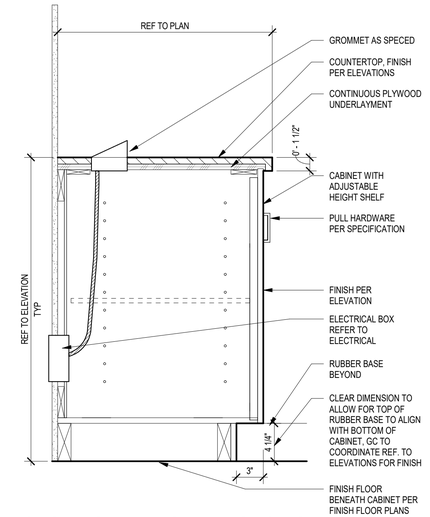
7 A444 | A606 — **OPEN SHELVING TYP**

1 1/2" = 1'-0"



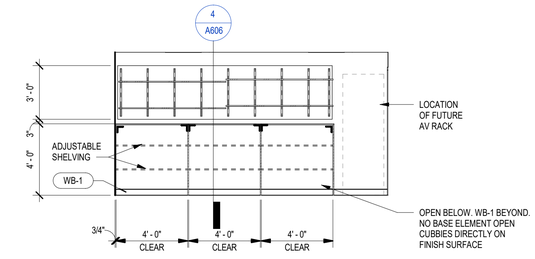
6 A414 | A606 — **CASEWORK DRAWERS TYP**

1 1/2" = 1'-0"



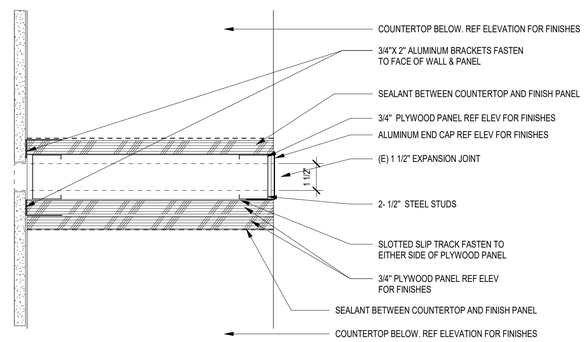
5 A446 | A606 — **CASEWORK AV STAND SECTION**

1 1/2" = 1'-0"



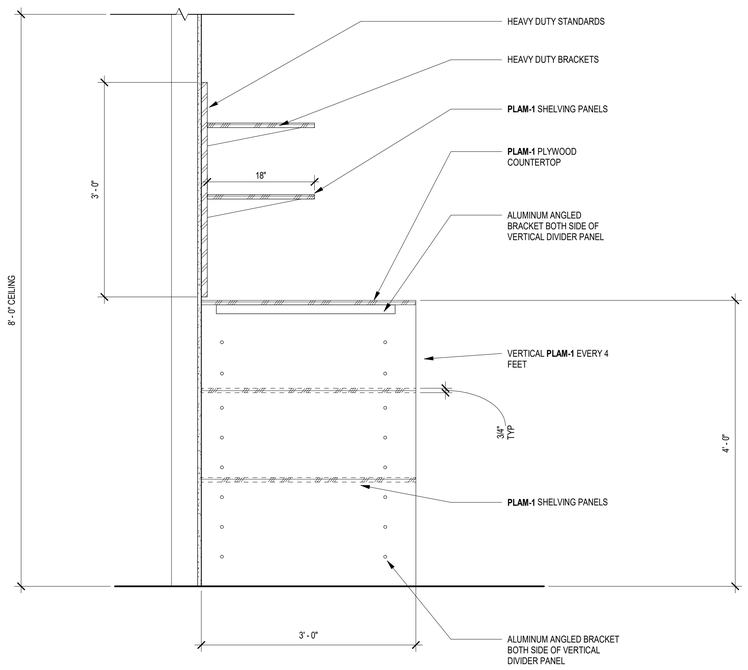
2 A417 | A606 — **STO. ROOM SHELVING**

1/4" = 1'-0"



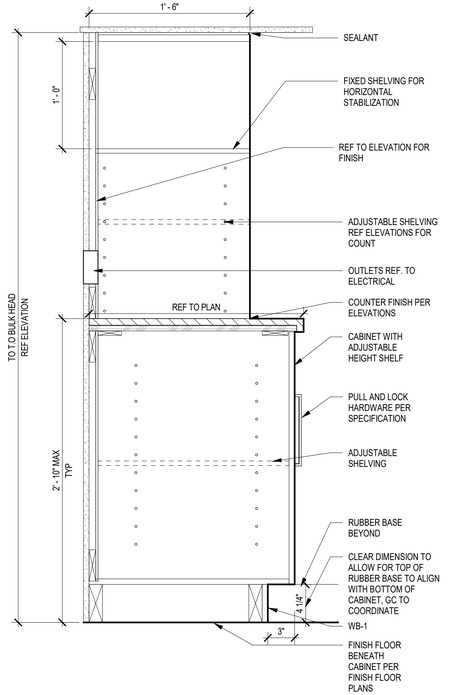
3 A441 | A606 — **CABINETS @ EJ**

3" = 1'-0"



4 A606 | A606 — **STO. ADJUSTABLE SHELVING SECTION**

1" = 1'-0"



1 A412 | A606 — **ADJUSTABLE OPEN SHELVING @ KITCHENETTES TYP**

1 1/2" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

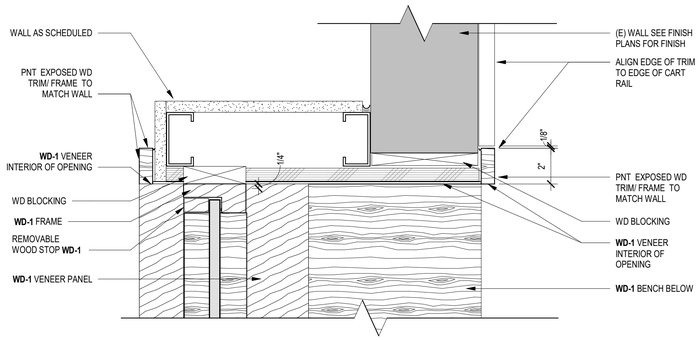
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

INTERIOR DETAILS-MILLWORK

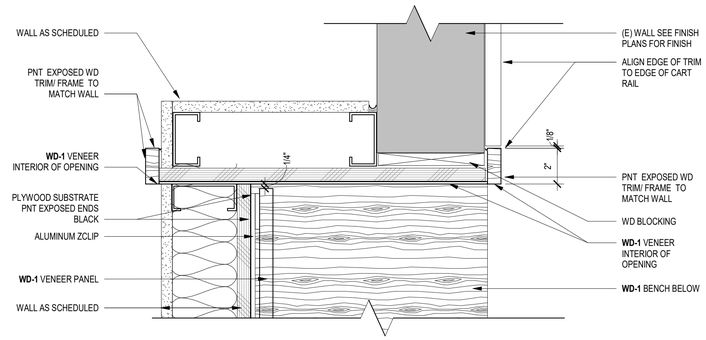
A606



7 A414 A607

JAMB @ AQUARIUM WINDOW

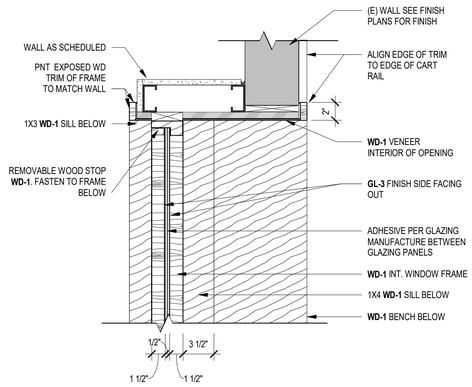
3" = 1'-0"



6 A414 A607

JAMB @ AQUARIUM BENCH

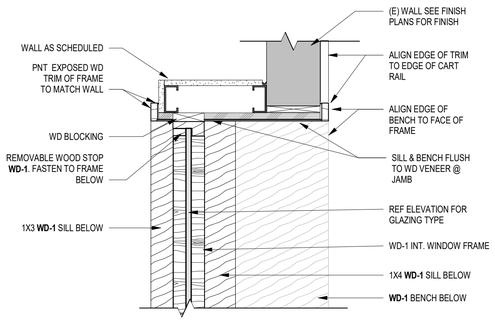
3" = 1'-0"



5 A607 A607

AQUARIUM BACKPAINTED GLASS

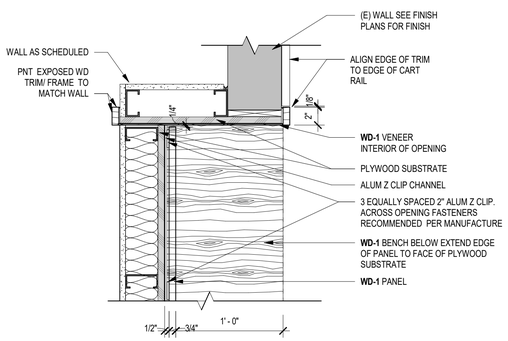
1 1/2" = 1'-0"



4 A607 A607

AQUARIUM PLAN DETAIL

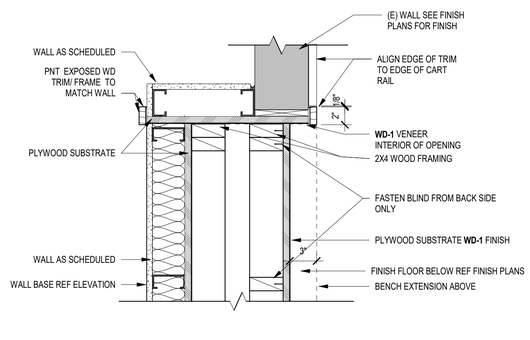
1 1/2" = 1'-0"



3 A607 A607

AQUARIUM BENCH SECTION

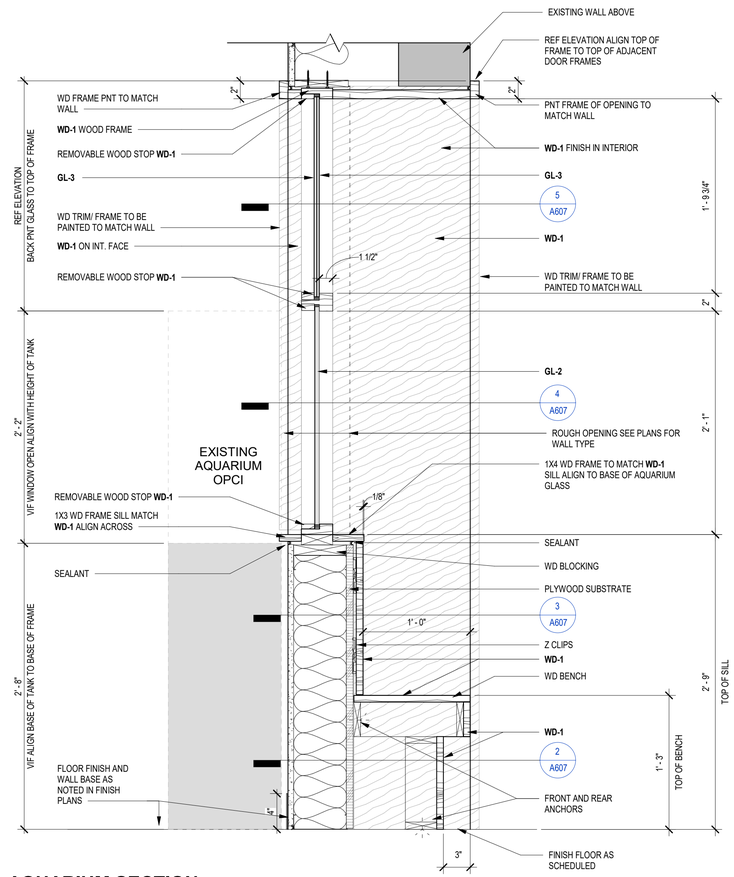
1 1/2" = 1'-0"



2 A607 A607

AQUARIUM BENCH BASE

1 1/2" = 1'-0"



1 A414 A607

AQUARIUM SECTION

1 1/2" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

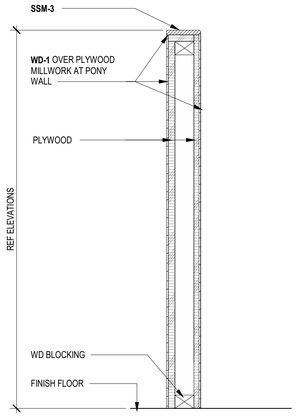
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

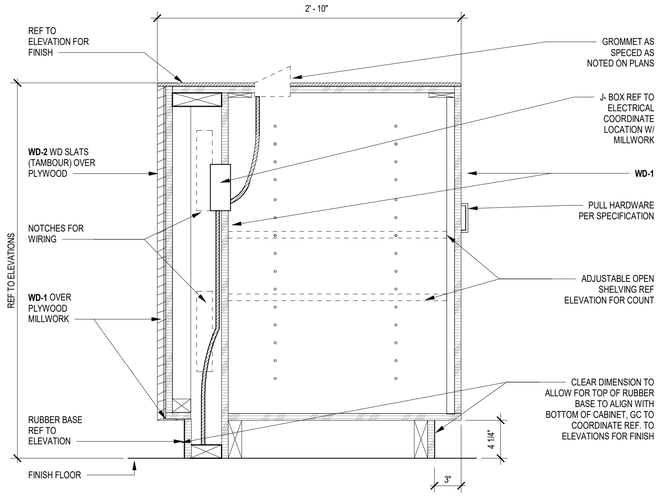
INTERIOR DETAILS- MILLWORK

A607



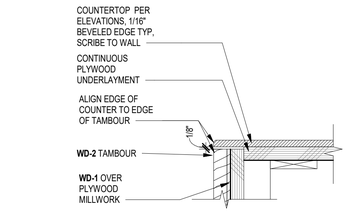
10 A414 | A608 **HELP DESK PRIVACY PANEL PONY WALL**

1 1/2" = 1'-0"



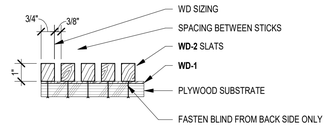
9 A414 | A608 **HELP DESK ADJUSTABLE CABINET**

1 1/2" = 1'-0"



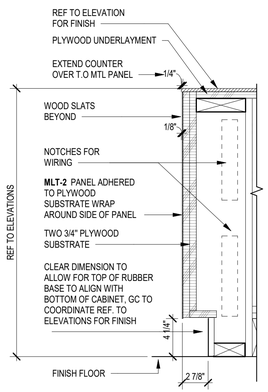
8 A414 | A608 **HELP DESK EDGE @ TAMBOUR TYP**

3" = 1'-0"



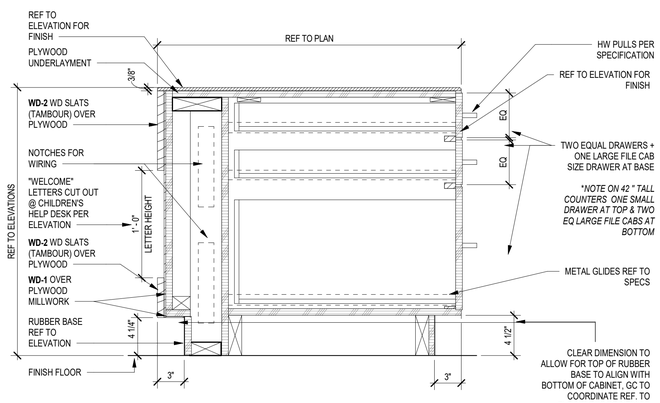
7 A414 | A608 **TAMBOUR WD SLATS TYP**

3" = 1'-0"



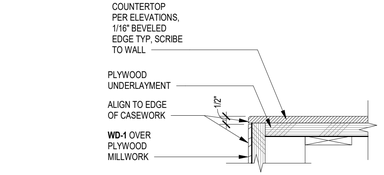
6 A414 | A608 **HELP DESK METAL PANEL**

1 1/2" = 1'-0"



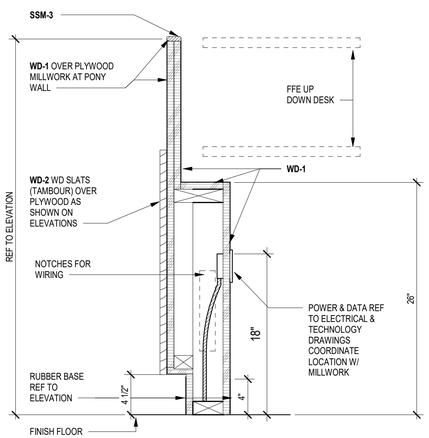
5 A414 | A608 **HELP DESK DRAWERS TYPICAL**

1 1/2" = 1'-0"



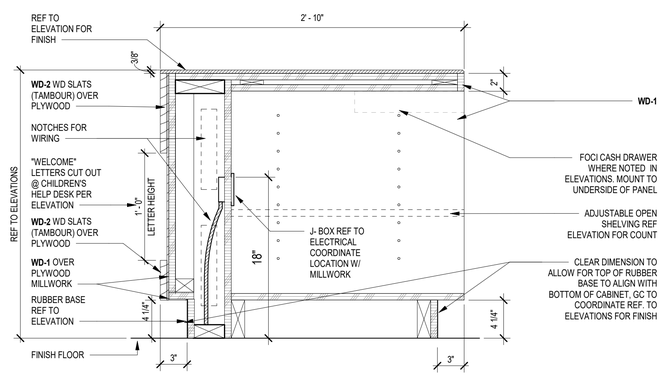
4 A432 | A608 **HELP DESK EDGE TYP**

3" = 1'-0"



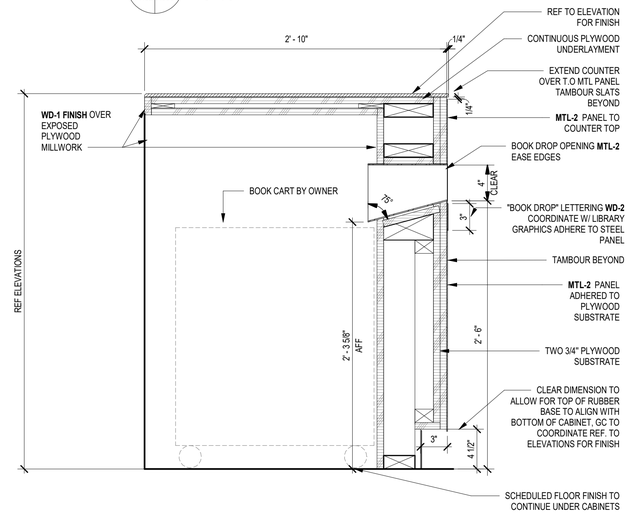
3 A414 | A608 **HELP DESK PRIVACY PANEL TYP**

1 1/2" = 1'-0"



2 A414 | A608 **TYP HELP DESK OPEN SHELVING**

1 1/2" = 1'-0"



1 A414 | A608 **BOOK DROP @CHILDRENS**

1 1/2" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

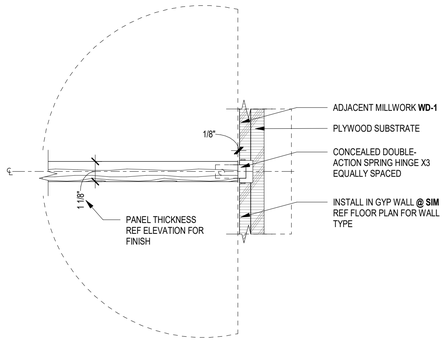
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

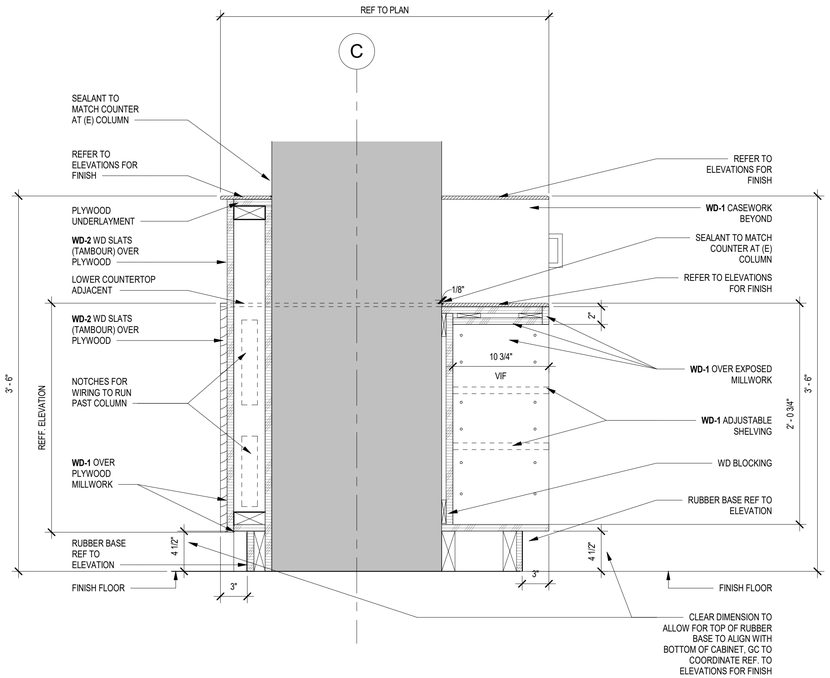
INTERIOR DETAILS-MILLWORK

A608



2 A432 | A609 **SWING GATE JAMB TYP**

3" = 1'-0"



1 A432 | A609 **FIRST FLOOR HELP DESK @COLUMN**

1 1/2" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

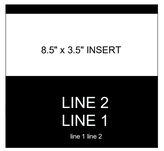
Issue Date: 09/16/26

SHEET

INTERIOR DETAILS-MILLWORK

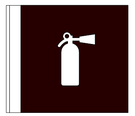
A609

TYPE A1
ROOM ID



TYPE A2
ROOM ID
CHANGEABLE MESSAGE

TYPE A3
ROOM ID
SYMBOL



TYPE B
BLADE ID

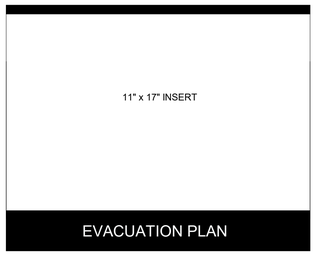
TYPE C
VINYL ON DOOR

TYPE D1
STAIRWELL ID

TYPE D2
STAIRWELL
LEVEL ID

TYPE D3
STAIRWELL
EGRESS

TYPE D4
EXIT ID

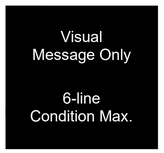


TYPE E1
EVACUATION MAP

TYPE E2
EMERGENCY COMMUNICATION

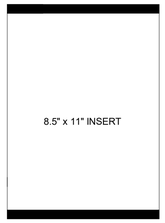
TYPE E3
AREA OF REFUGE

TYPE F
MAXIMUM OCCUPANCY

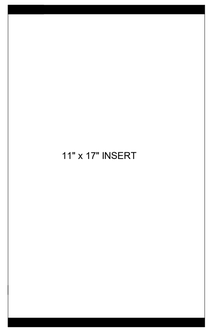


TYPE H1
INFO
SMALL

TYPE H2
INFO
LARGE



TYPE J1
CHANGEABLE INFO
LETTER



TYPE J2
CHANGEABLE INFO
TABLOID

TYPE AA
ACCESSIBLE ENTRANCE

TYPE BB
ACCESSIBLE ENTRANCE
DIRECTIONAL

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

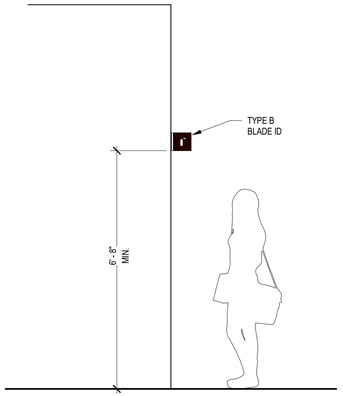
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

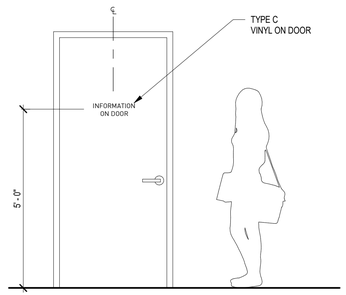
SIGNAGE TYPES
A690



1 SIGNAGE - TYPE B - ELEVATION - MOUNTING CONDITION

A691

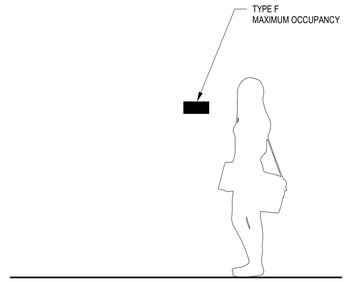
1/2" = 1'-0"



2 SIGNAGE - TYPE C - ELEVATION - MOUNTING CONDITION

A691

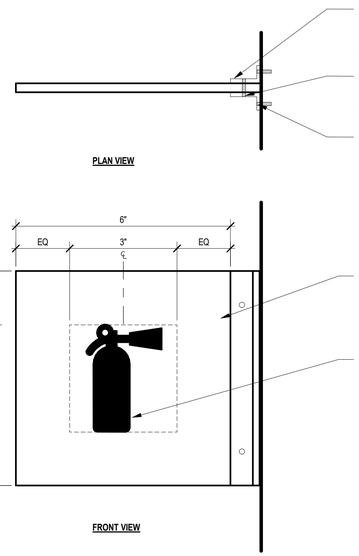
1/2" = 1'-0"



3 SIGNAGE - TYPE F - ELEVATION - MOUNTING CONDITION

A691

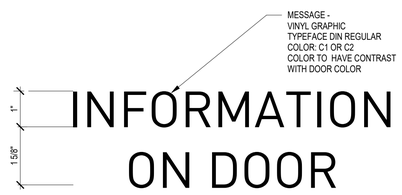
1/2" = 1'-0"



5 SIGNAGE - TYPE B - DETAILS

A691

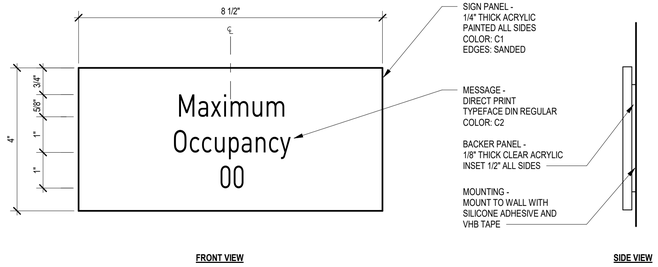
6" = 1'-0"



6 SIGNAGE - TYPE C - DETAILS

A691

6" = 1'-0"



4 SIGNAGE - TYPE F - DETAILS

A691

6" = 1'-0"

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

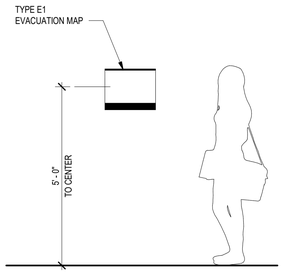
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SIGNAGE DETAILS

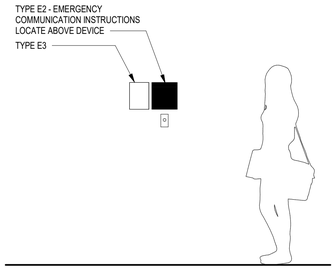
A691



15 SIGNAGE - TYPE E1 - ELEVATION - MOUNTING CONDITION

A692

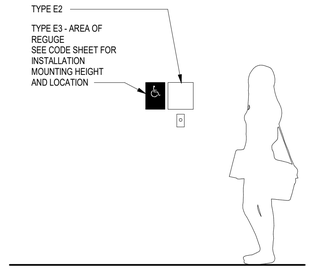
1/2" = 1'-0"



14 SIGNAGE - TYPE E2 - ELEVATION - MOUNTING CONDITION

A692

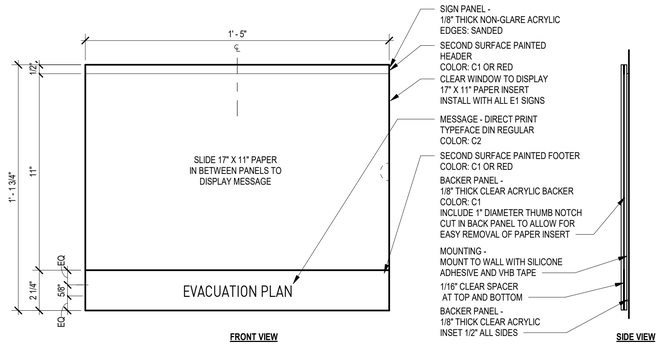
1/2" = 1'-0"



12 SIGNAGE - TYPE E3 - ELEVATION - MOUNTING CONDITION

A692

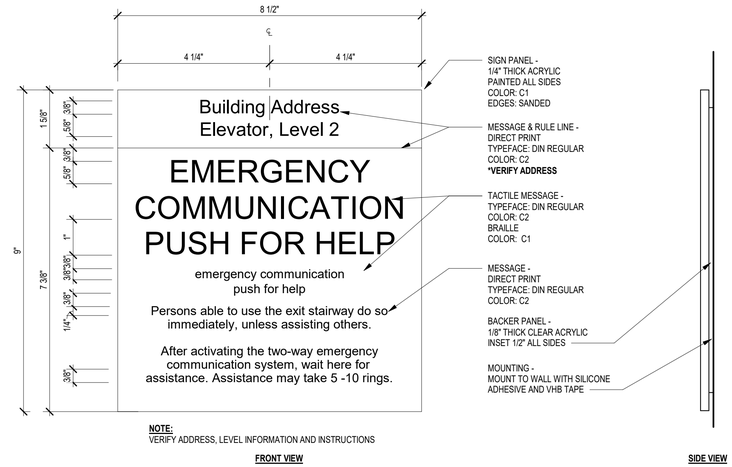
1/2" = 1'-0"



10 SIGNAGE - TYPE E1 - DETAILS

A692

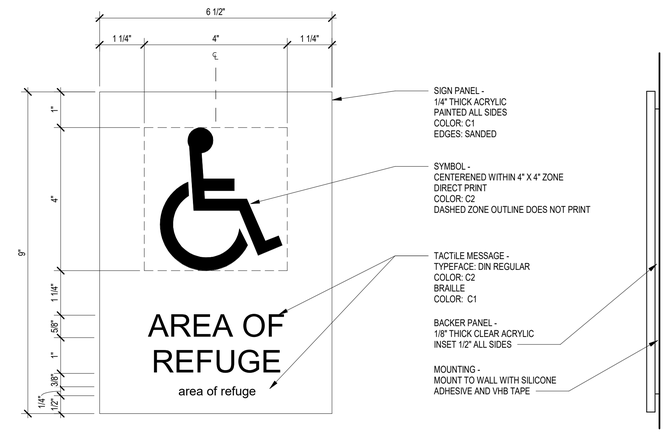
3" = 1'-0"



8 SIGNAGE - TYPE E2 - DETAILS

A692

6" = 1'-0"



3 SIGNAGE - TYPE E3 - DETAILS

A692

6" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

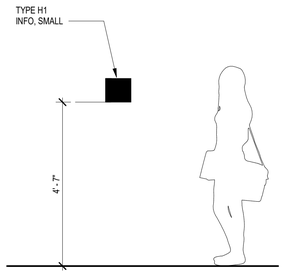
No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

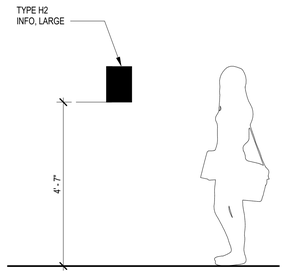
SHEET

SIGNAGE DETAILS
A692



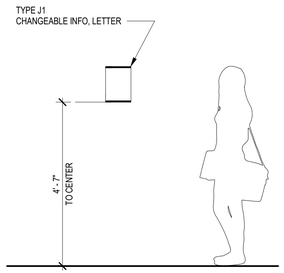
15 A693 **SIGNAGE - TYPE H1 - ELEVATION**

1/2" = 1'-0"



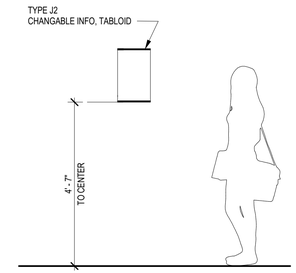
14 A693 **SIGNAGE - TYPE H2 - ELEVATION**

1/2" = 1'-0"



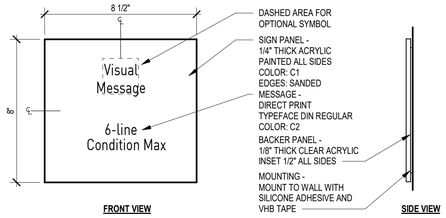
13 A693 **SIGNAGE - TYPE J1 - ELEVATION**

1/2" = 1'-0"



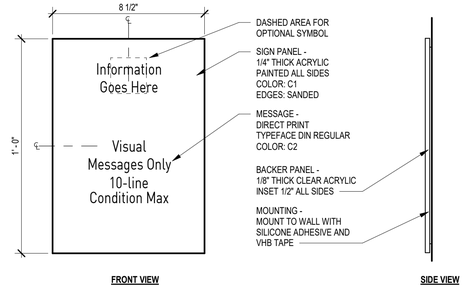
12 A693 **SIGNAGE - TYPE J2 - ELEVATION**

1/2" = 1'-0"



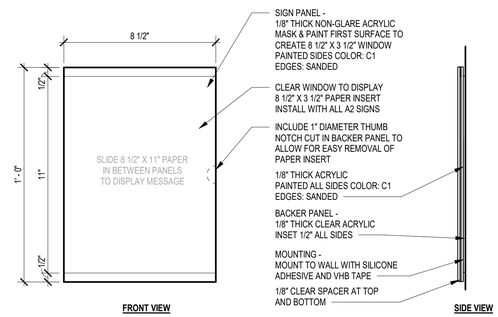
10 A693 **SIGNAGE - TYPE H1 - DETAILS**

3" = 1'-0"



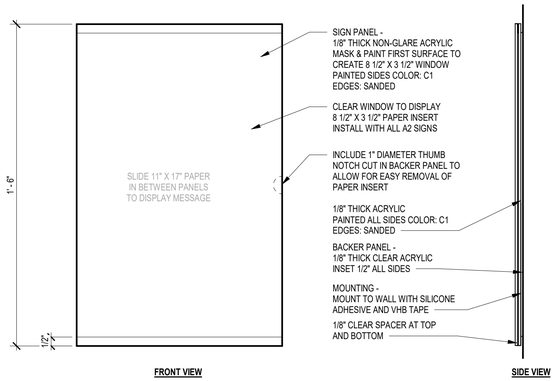
8 A693 **SIGNAGE - TYPE H2 - DETAILS**

3" = 1'-0"



5 A693 **SIGNAGE - TYPE J1 - DETAILS**

3" = 1'-0"



3 A693 **SIGNAGE - TYPE J2 - DETAILS**

3" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

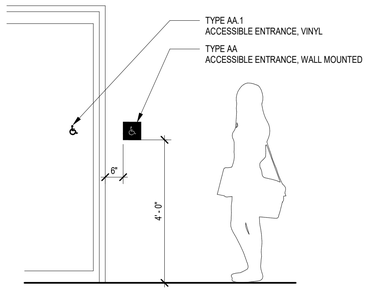
Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

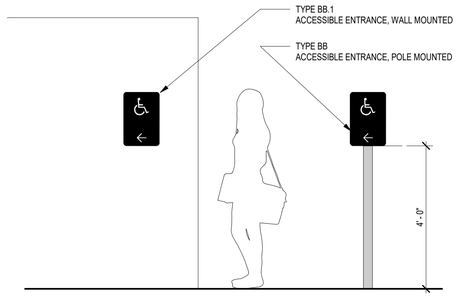
SIGNAGE DETAILS

A693



15 A694 **SIGNAGE - TYPE AA - ELEVATION - MOUNTING CONDITION**

1/2" = 1'-0"

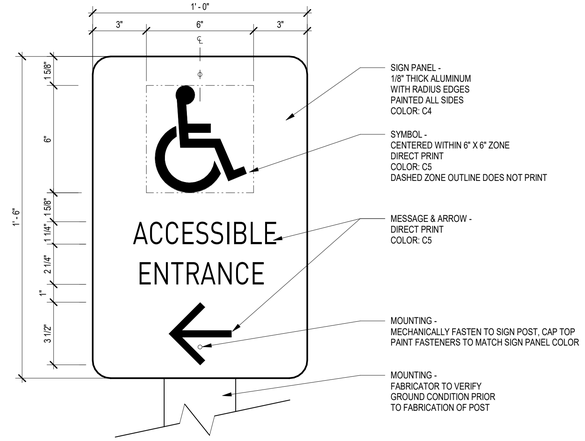


13 A694 **SIGNAGE - TYPE BB - ELEVATION - MOUNTING CONDITION**

1/2" = 1'-0"

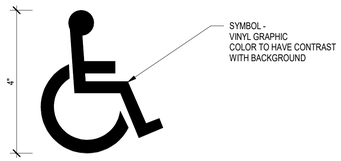
10 A694 **SIGNAGE - TYPE AA - DETAILS**

6" = 1'-0"



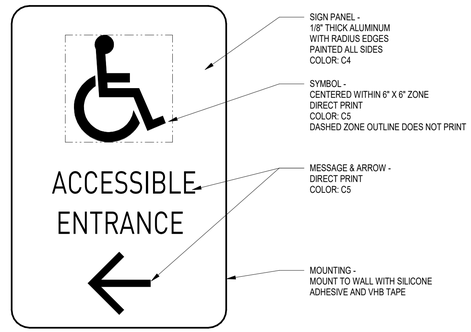
7 A694 **SIGNAGE - TYPE BB - DETAILS**

3" = 1'-0"



5 A694 **SIGNAGE - TYPE AA.1 - DETAILS**

6" = 1'-0"



3 A694 **SIGNAGE - TYPE BB.1 - DETAILS**

3" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning

Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Attn: Eric Nothdurft

STAMP

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: MN
Checked: EN
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SIGNAGE DETAILS
A694

GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, PENETRATIONS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN **BOTH** ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD (2)	PARTITION LOAD	CONCENTRATED LOADS
ROOF	26 PSF	25 PSF (1)	+EQUIPMENT	300#
FIRST FLOOR	46 PSF	75 PSF	15 PSF	
GROUND FLOOR	36 PSF	100 PSF (4)	40 PSF	
GROUND FLOOR - STACKED ROOM	36 PSF	500 PSF (3)		

(1) DRIFT AND UNBALANCED SNOW LOAD PER ASCE 7-16, CHAPTER 7.
(2) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.12.
(3) LIVE LOAD REDUCTION NOT PERMITTED EXCEPT AS NOTED IN IBC SECTION 1607.12.
(4) LIVE LOAD REDUCTION NOT PERMITTED.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

Pg = 20 PSF = GROUND SNOW LOAD
Pf = 0.7CeCtIsPg = FLAT ROOF SNOW LOAD
Ps = CsPf = SLOPED ROOF SNOW LOAD
Is = 1.00 Ce = 1.0, Ct = 1.0, Cs = VARIES

RAIN INTENSITY:

RAIN INTENSITY, *i* = 2.00 IN/HR

LATERAL FORCES

THE STRUCTURAL SCOPE OF WORK DID NOT INCLUDE ANY MODIFICATIONS TO THE EXISTING LATERAL FORCE RESISTING SYSTEM INCLUDING BUT NOT LIMITED TO, DEMO OF EXISTING LATERAL ELEMENTS, SUBSTANTIAL ADDITION OF SEISMIC MASS, OR CHANGES IN OCCUPANCY.

WIND:

THE STRUCTURAL SCOPE OF WORK DID NOT INCLUDE ANY MODIFICATIONS TO THE EXISTING LATERAL FORCE RESISTING SYSTEM INCLUDING, BUT NOT LIMITED TO, DEMO OF EXISTING LATERAL ELEMENTS, SUBSTANTIAL ADDITION OF SEISMIC MASS, OR CHANGES IN OCCUPANCY.

THE BUILDING MEETS THE CRITERIA TO USE THE "ENCLOSED, PARTIALLY ENCLOSED, AND OPEN BUILDING OF ALL HEIGHTS PROCEDURE" PER ASCE 7-16.

- EXPOSURE CATEGORY = B
- BASIC WIND SPEED, (3 SEC. GUST), V_{ULT} = 98 MPH; V_{ASD} = 76 MPH
- RISK CATEGORY PER IBC TABLE 1604.5 = II
- TOPOGRAPHIC FACTOR K_{ZT} = 1.00
- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18

SEISMIC: (ASCE 7-16) V = CsW

WHERE $Cs = \frac{S_{DS}}{(\frac{R}{I_e})}$; WITH

$Cs\ MINIMUM = 0.044\ S_{DS} I_E \geq 0.01$
OR
$Cs\ MINIMUM = \frac{0.5S_1}{\frac{R}{I_e}}$ FOR $S_1 > 0.6g$

$Cs\ MAXIMUM = \frac{S_{D1}}{T(\frac{R}{I_e})}$ FOR $T \leq T_L$
OR
$Cs\ MAXIMUM = \frac{S_{D1}T_L}{T^2(\frac{R}{I_e})}$ FOR $T > T_L$

SEISMIC IMPORTANCE FACTOR, Ie = 1.00
RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 = II
SPECTRAL RESPONSE ACCELERATIONS S_S = 1.00 & S_1 = 0.351
SITE CLASS PER TABLE 20.3-1 = D (DEFAULT)
DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 0.80 & S_{D1} = 0.680
SEISMIC DESIGN CATEGORY = D

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE SHALL CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

C:_Revit Models\23337 Bellingham Central Library Reno R2025 (Central)_ssweney.rvt
8/20/2026 11:46:14 AM

CONCRETE

CAST-IN-PLACE CONCRETE

CODES, SPECIFICATIONS, AND STANDARDS. CONCRETE WORK SHALL CONFORM TO THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, AND THE STANDARDS AND SPECIFICATIONS THEY REFERENCE. THE CONTRACTOR SHALL OBTAIN AND HAVE READILY AVAILABLE ON SITE THE LATEST VERSION OF THE "ACI MANUAL OF CONCRETE PRACTICE".

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. ALL CONCRETE MIXES SHALL BE NORMAL WEIGHT, UNLESS NOTED OTHERWISE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT, OR ASTM C595 - TYPE IL PORTLAND LIMESTONE CEMENT, UNLESS NOTED OTHERWISE. CEMENT IN CONCRETE EXPOSED TO EARTH SHALL BE TYPE II OR TYPE IL-MS.

FLY ASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

SLAG: GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL CONFORM TO ASTM C1602.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER OR FREEZING AND THAWING: PROVIDE TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO EARTH OR FREEZING AND THAWING PER THE AIR ENTRAINMENT TABLE. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +/- 1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

AIR ENTRAINMENT TABLE

NOMINAL MAXIMUM AGGREGATE SIZE (IN)	TARGET AIR CONTENT (%)	
	MEMBERS SUBJECT TO FREEZE/THAW (EXPOSURE CLASS F1)	MEMBERS EXPOSED TO SOIL, WATER, OR DEICING CHEMICALS (EXPOSURE CLASS F2 OR F3)
3/8	6.0	7.5
1/2	5.5	7.0
3/4	5.0	6.0
1	4.5	6.0
1-1/2	4.5	5.5

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLY ASH AND SLAG. AT THE CONTRACTORS OPTION FLY ASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLY ASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE.

CONCRETE MIX DESIGN TABLE

ITEM	DESIGN f'c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLY ASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	EXPOSURE CLASS (F0, S0, W0, C0 U.N.O.)	NOTES
SLABS ON GRADE - UNO	4000	0.45	100	57 OR 67	--	
ALL OTHER CONCRETE	4000	0.50	--	57 OR 67	--	

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

FLOATING & FINISHING OPERATIONS

WATER SHALL NOT BE ADDED TO THE CONCRETE SURFACE DURING FLOATING & FINISHING OPERATIONS. PRE-APPROVED EVAPORATION RETARDER SPECIFICALLY DESIGNED FOR FLOATING & FINISHING OPERATIONS ARE ACCEPTABLE.

COLD WEATHER PLACEMENT:

1. COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
2. NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
3. CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
4. THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
5. NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

CONDITION OF PLACEMENT AND CURING		WALLS & SLABS	FOOTINGS
MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED, DEGREES F.	ABOVE 30° F. 0° TO 30° F. BELOW 0° F.	60° 65° 70°	55° 60° 65°
MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F.		55°	50°
MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F.		50°	40°

HOT OR WINDY WEATHER PLACEMENT

HOT WEATHER IS DEFINED BY ACI 305 AS "ANY COMBINATION OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY, TENDING TO IMPAIR THE QUALITY OF FRESH HARDENED CONCRETE. ACI 305 FIGURE 2.1.5 SHALL BE USED BY THE CONTRACTOR TO ESTIMATE THE RATE OF EVAPORATION. WHEN THE ESTIMATED RATE OF EVAPORATION IS GREATER THAN O.2 PSF/HOUR THE PLACEMENT SHALL BE CONSIDERED A HOT WEATHER PLACEMENT. PRECAUTIONS AGAINST PLASTIC SHRINKAGE CRACKING ARE NECESSARY. PRECAUTIONS TAKEN BY THE CONTRACTOR VARY DEPENDING UPON THE FACTORS ASSOCIATED WITH WATER EVAPORATION AND INCLUDE BUT ARE NOT LIMITED TO:

1. LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.
2. APPLICATION OF AN EVAPORATION RETARDER.
3. USE OF FOG SPRAY.
4. REDUCTION OF POUR SIZE.
5. PLACING CONCRETE AT NIGHT.

CONCRETE CURING AND SEALING

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. SLABS ARE DEFINED AS SLABS ON GRADE, CONCRETE ON METAL DECK, ELEVATED POST-TENSIONED OR MILD REINFORCED DECKS, AND TOPPING SLABS.

ITEM	CONCRETE CURING NOTES
ALL OTHER SLABS	1, (2 OR 3 OR 4)
ALL OTHER CONCRETE	NONE

CONCRETE CURING NOTES:

1. WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.
2. PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
3. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS OR ASTM C1315 TYPE 1 CLASS A SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER FINAL FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH ARCHITECTURAL FLOOR COVERINGS AND SEALERS.
4. PROVIDE "ULTRACURE DOT" MOISTURE RETAINING COVER BY MCTECH GROUP, OR APPROVED EQUAL, FOR A MINIMUM OF 14 DAYS.

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

DETAIL FABRICATE AND PLACE PER ACI 315 AND ACI 318.

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE, Fy=60 KSI (UNLESS NOTED OTHERWISE)

BAR SIZE	MINIMUM LAP SPLICE LENGTHS ("Ls")		MINIMUM DEVELOPMENT LENGTHS ("Ld")		MINIMUM EMBEDMENT LENGTH FOR STANDARD END HOOKS ("Ldh")
	TOP BARS (1)	OTHER BARS	TOP BARS (1)	OTHER BARS	
#3	2'-0"	1'-6"	1'-6"	1'-3"	0'-6"
#4	2'-8"	2'-0"	2'-0"	1'-7"	0'-6"

SPLICE TABLE NOTES:

1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ------------ 3"
EXPOSED TO WEATHER OR EARTH ----------- 2"
TIES ON BEAMS AND COLUMNS ------------ 1-1/2"
WALLS AND SLABS NOT EXPOSED TO WEATHER---- 3/4"

STRUCTURAL DRAWING INDEX

SHEET NUMBER	SHEET DESCRIPTION
S001	GENERAL NOTES
S002	GENERAL NOTES
S003	GENERAL NOTES
S111	GROUND FLOOR FRAMING PLAN
S121	GROUND FLOOR MEZZANINE FRAMING PLAN
S131	FIRST FLOOR FRAMING PLAN
S141	SECOND FLOOR FRAMING PLAN
S151	ROOF FRAMING PLAN
S300	DETAILS
S400	DETAILS
Grand total: 10	

MILLER | HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Eric Nothdurft

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: ARR
Checked: CAJ
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

GENERAL NOTES
S001

GROUT

NON-SHRINK GROUT: SIKA "SIKAGROUT 928" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING. 28-DAY MINIMUM STRENGTH SHALL BE 7,500 PSI MINIMUM.

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS: SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH REBAR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. INSTALLER SHALL BE QUALIFIED AND TRAINED BY THE MANUFACTURER. HOLES SHALL BE HAMMER DRILLED ONLY (ROTARY DRILLED ONLY AT UNREINFORCED MASONRY - NO HAMMER TOOLS).

SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO BID, ALONG WITH CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER (LICENSED IN THE STATE OF THE PROJECT) DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

CONCRETE ANCHORS:

- ADHESIVE ANCHORS: HILTI HIT-HY 200 V3 (ICC-ESR-4868), HILTI HIT-RE 500 V3 (ICC-ESR-3814), DEWALT PURE 110+ (ICC-ESR-3298), OR SIMPSON SET-3G (ICC-ESR-4057), OR PRE-APPROVED EQUAL.
  - *CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT TIME OF INSTALLATION.
  - *CONCRETE SHALL BE IN THE TEMPERATURE RANGE AS REQUIRED BY THE CONCRETE MANUFACTURER.
  - *HOLE SHALL BY HAMMER-DRILLED ONLY.
  - *DO NOT INSTALL IN WATER-FILLED HOLES.
  - *INSTALLER OF HORIZONTAL OR UPWARDLY INCLINED (ANY POSITION EXCEPT DIRECTLY DOWNWARD) ANCHORS SHALL ALSO BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
- EXPANSION ANCHORS: KWIKBOLT TZ2 (ICC ESR-4266) BY HILTI, INC. OR PRE-APPROVED EQUAL.
- SCREW ANCHORS: KWIK HUS-EZ (ICC ESR-3027) BY HILTI, INC. OR PRE-APPROVED EQUAL.

STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS JULY 7, 2016, THE AISC CODE OF STANDARD PRACTICE, JUNE 15, 2016 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, JULY 12, 2016.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDES AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

STEEL FABRICATORS

ALL STEEL FABRICATION SHALL BE PERFORMED BY A FABRICATOR CERTIFIED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. THE FABRICATOR SHALL BE DESIGNATED AN AISC CERTIFIED PLANT, CATEGORY BU AT THE TIME OF BID AND SHALL MAINTAIN THIS CERTIFICATION FOR THE DURATION OF THE PROJECT.

STEEL ERECTORS

NON-AISC CERTIFIED STEEL ERECTORS MAY BE ACCEPTABLE PROVIDED THEY HAVE A MINIMUM OF FIVE YEARS EXPERIENCE ON PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO BID.

STEEL DETAILERS

ALL STEEL DETAILING SHALL BE PERFORMED BY A DETAILER WITH FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO BID.

MATERIAL PROPERTIES

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI) TYP. U.N.O.; ASTM A572 (Fy = 50 KSI) WHERE INDICATED

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE - ASTM A500 GRADE C (Fy = 50 KSI) ROUND - ASTM A500 GRADE C (Fy = 46 KSI)

STRUCTURAL STEEL PIPES: ASTM A53, GRADE B, TYPE E OR S (Fy = 35 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE

WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS) SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE.

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE THE TENSILE STRENGTH AND CHARPY V-NOTCH RATINGS AS FOLLOWS:

GRAVITY FRAME

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHARPY V-NOTCH (CVN) RATING
FILLET	70 KSI	-----
PARTIAL PENETRATION	70 KSI	-----
COMPLETE PENETRATION	70 KSI	20 FT-LBS @ 40 DEG F

WELDED CONNECTIONS INSPECTION:

1. ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.

THE STANDARDS OF ACCEPTANCE FOR WELDS TESTED BY ULTRASONIC METHODS SHALL CONFORM TO AWS D1.1.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.

GENERAL REQUIREMENTS

ADHESIVE ANCHOR RODS: FULLY THREADED ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE.

FINISH: STRUCTURAL STEEL SHALL BE UNPAINTED, UNLESS NOTED OTHERWISE, AND SHALL BE CLEAN OF LOOSE RUST, LOOSE MILL SCALE, OIL, GREASE AND OTHER FOREIGN SUBSTANCES AND SHALL MEET THE REQUIREMENTS OF SSPC-SP1. WHERE STRUCTURAL STEEL IS NOTED TO BE PAINTED, ALL AREAS COMPRISING THE FAYING SURFACES OF BOLTED CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL COMPLY WITH THE REQUIREMENTS OF THE RCSC SPECIFICATION. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS. **AT TIMBER CONNECTIONS**, STEEL PLATES AND SHAPES SHALL BE PAINTED AND BOLTS SHALL BE HOT-DIP GALVANIZED.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS): ALL MEMBERS DESIGNATED AS AESS SHALL CONFORM TO SECTION 10, ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, OF THE AISC CODE OF STANDARD PRACTICE.

AESS CATEGORY	DESCRIPTION
AESS 1	BASIC ELEMENTS
AESS 2	FEATURE ELEMENTS NOT IN CLOSE VIEW (ELEMENTS VIEWED AT A DISTANCE > 20 FEET)
AESS 3	FEATURE ELEMENTS IN CLOSE VIEW (ELEMENTS VIEWED AT A DISTANCE < 20 FEET)
AESS 4	SHOWCASE ELEMENTS (ELEMENTS WITH SPECIAL SURFACE & EDGE TREATMENT BEYOND FABRICATION)
AESS C	CUSTOM ELEMENTS (ELEMENTS WITH CHARACTERISTICS DESCRIBED IN THE CONTRACT DOCUMENTS)

COLD-FORMED STEEL FRAMING CONSTRUCTION:

THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED CARBON OR LOW-ALLOY STEEL, STRUCTURAL AND NON-STRUCTURAL STEEL FRAMING, SHALL BE IN ACCORDANCE WITH IBC SECTION 2211 AND AMERICAN IRON AND STEEL INSTITUTE (AISI) STANDARD S100-16 AND S240-20 AND SHALL BE MANUFACTURED BY A MEMBER OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA), CERTIFIED STEEL STUD ASSOCIATION (CSSA), STEEL FRAMING INDUSTRY ASSOCIATION (SFIA), OR PRE-APPROVED EQUAL, IN ACCORDANCE WITH CURRENT ICC EVALUATION SERVICE REPORT, AISI S202-20 AND S240-20. ALL 54 MIL AND HEAVIER GALVANIZED MEMBERS SHALL BE FORMED FROM STEEL THAT MEETS THE REQUIREMENTS OF ASTM A653, QUALITY SQ, GRADE 50, CLASS 1, FY=50 KSI. ALL 43 MIL AND LIGHTER GALVANIZED MEMBERS SHALL BE FORMED FROM STEEL THAT MEETS THE REQUIREMENTS OF ASTM A653, QUALITY SQ, GRADE 33, FY=33 KSI. BRIDGING PER MANUFACTURER'S REQUIREMENTS AND AS SHOWN IN THE STRUCTURAL DRAWINGS SHALL BE IN PLACE PRIOR TO PLACING OF ANY CONSTRUCTION LOADS. ALL RUNS SHALL BE RIGIDLY ANCHORED TO END WALLS.

INTERIOR NON-BEARING WALL, CEILING, SOFFIT, AND OTHER MISC. COLD-FORMED STEEL FRAMING: COLD-FORMED STEEL FRAMING MEMBERS SHALL MEET THE TYPE, SIZE, AND THICKNESS AS INDICATED IN THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS, AND SHALL CONFORM TO THE MINIMUM PRESCRIPTIVE REQUIREMENTS OF THE GYPSUM CONSTRUCTION HANDBOOK BY CGC, INC. FRAMING CONDITIONS THAT EXCEED THE WEIGHT, SPAN OR HEIGHT LIMITATIONS SHALL BE CONSTRUCTED USING APPLICABLE DETAILS ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL COLD-FORMED FRAMING NOT SPECIFICALLY DETAILED IN THE GYPSUM CONSTRUCTION HANDBOOK OR ON THE STRUCTURAL DRAWINGS. THE DESIGN AND DETAILING OF THE COLD-FORMED STEEL FRAMING AND CONNECTION TO THE STRUCTURE SHALL BE PREPARED UNDER THE DIRECTION OF AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.

POWDER ACTUATED FASTENERS: SHALL BE X-U UNIVERSAL KNURLED SHANK FASTENER BY HILTI OR PRE-APPROVED EQUAL. INSTALL PER ALL MANUFACTURER'S PUBLISHED RECOMMENDATIONS. COLD-FORMED STEEL TO STRUCTURAL STEEL: UNLESS NOTED OTHERWISE, PROVIDE 0.157" SHANK DIAMETER X-U LOW-VELOCITY FASTENER - FASTENER TIP SHALL PENETRATE STRUCTURAL STEEL. COLD-FORMED STEEL TO CONCRETE: UNLESS NOTED OTHERWISE, PROVIDE 0.157" SHANK DIAMETER X-U LOW-VELOCITY FASTENER - EMBED 1-1/2" MINIMUM INTO CONCRETE, UNLESS NOTED OTHERWISE.

SLIP CONNECTIONS: THE STEEL NETWORK "VERTICLIP" OR PRE-APPROVED EQUAL. MATCH CLIP WITH STUD SIZE AND THICKNESS. ATTACH PER MANUFACTURER'S REQUIREMENTS.

POLYSTYRENE/RIGID INSULATION FOR BUILT-UP SLABS:

POLYSTYRENE OR RIGID INSULATION PLACED BELOW CONCRETE SLABS SHALL CONSIST OF RIGID CELLULAR POLYSTYRENE CONFIRMING TO ASTM/ D6817. POLYSTYRENE SHALL HAVE A MINIMUM COMPRESSIVE RESISTANCE OF 5.8 PSI AT 1% DEFORMATION UNLESS NOTED OTHERWISE. SECURE POLYSTYRENE IN PACE PER MANUFACTURE'S RECOMMENDATIONS. FOR LAYERED BLOCKS OF POLYSTYRENE, OFFSET JOINT 24 INCHES BETWEEN ADJACENT LAYER.

MISCELLANEOUS:

PRE-APPROVED SUBSTITUTIONS: SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES, IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.

SHOP DRAWINGS/SUBMITTALS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

		STRUCTURAL ENGR.	BLDG. DEPT.
1.	COLD-FORMED STEEL FRAMING	X	X
2.	MISCELLANEOUS STEEL	X	X
3.	PENETRATIONS IN CONCRETE	X	X
4.	CONTRACTOR'S STATEMENT OF RESPONSIBILITY	X	X

DEFERRED SUBMITTALS

THE FOLLOWING ARE NOT INCLUDED WITH THE BUILDING PERMIT DRAWINGS AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL. SUBMITTALS SHALL BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT AS NOTED.

		ENGINEER STAMP REQUIRED
1.	COLD-FORMED STEEL FRAMING	PE

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

C:\Revit Models\23.037 Bellingham Central Library Reno R2025 (Central)_sawarey.rvt
8/25/2026 11:45:19 AM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Eric Nothdurft

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: ARR
Checked: CAJ
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GENERAL NOTES
S002

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STEEL CONSTRUCTION	INSPECTION TASKS	OBSERVE	PERFORM	COMMENTS	REFERENCES
	PRIOR TO WELDING:			SPECIAL INSPECTIONS IN THIS SECTION **MAY BE** WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5 **AND WITH THE APPROVAL OF THE BUILDING OFFICIAL.**	AISC 360, TABLE N5.4-1 AISC 341, TABLE J6.1
	WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	X			
	WELDING PROCEDURE SPECIFICATIONS		X		
	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		X		
	MATERIAL IDENTIFICATION (TYPE/GRADE)	X			
	WELDER IDENTIFICATION SYSTEM	X			
	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	X			
	FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K—JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	X			
	CONFIGURATION AND FINISH OF ACCESS HOLES	X			
	FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	X			
	DURING WELDING:				AISC 360, TABLE N5.4-2 AISC 341, TABLE J6.2
	CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	X			
	NO WELDING OVER CRACKED TACK WELDS	X			
	ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	X			
	WELDING PROCEDURE SPECIFICATIONS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F, V, H, OH) • INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED (LATERAL CONNECTIONS ONLY)	X			
	WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	X			
	USE OF QUALIFIED WELDERS (FOR LATERAL CONNECTIONS)	X			
	PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS		X		
	AFTER WELDING:				AISC 360, TABLE N5.4-3 AISC 341, TABLE J6.3
	WELDS CLEANED	X			
	SIZE, LENGTH, AND LOCATION OF WELDS		X		
	WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY		X		
	ARC STRIKES		X		
	k-AREA		X		
	WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES		X		
	BACKING REMOVED AND WELD TABLES REMOVED (IF REQUIRED)		X		
	REPAIR ACTIVITIES		X		
	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		X		
	NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER	X			
	PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS AS REQUIRED (LATERAL CONNECTIONS ONLY)		X		

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
CONCRETE	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS INSTALLED IN ANY DIRECTION AND ADHESIVE ANCHORS INSTALLED DOWNWARD)		X	PERIODIC INSPECTION TO INCLUDE A QUANTITY OF 10% WITH A MINIMUM OF (5) ANCHORS INSPECTED PER INSTALLER ON A DAILY BASIS.	ACI 318: 26.7 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (ADHESIVE ANCHORS INSTALLED HORIZONTAL OR UPWARDLY INCLINED)	X			ACI 318: 26.7 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
SUSPENDED CEILINGS	ANCHORAGE AND SEISMIC BRACING		X		
VIBRATION ISOLATION SYSTEMS	INSTALLATION OF SYSTEMS REQUIRING ≤ 1/4 INCH CLEARANCE BETWEEN EQUIPMENT SUPPORT FRAME AND RESTRAINT		X		IBC 1705.13.6, 1705.13.8
ELECTRICAL EQUIPMENT	ANCHORAGE OF EQUIPMENT TO STRUCTURE		X	SPECIAL INSPECTION ONLY REQUIRED IN SEISMIC DESIGN CATEGORY E OR F	IBC 1705.13.6
MECHANICAL AND ELECTRICAL SYSTEMS	MINIMUM CLEARANCE TO SPRINKLER PIPING OF 3"		X		IBC 1705.13.6

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- REVIEW OF TESTING AND INSPECTION REPORTS.
- REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

ABBREVIATION LIST

@	AT	E.F.	EACH FACE	MPL	MASS PLYWOOD LAM
A.B.	ANCHOR BOLT	EL.	ELEVATION	MPP	MASS PLYWOOD PANEL
ADD'L	ADDITIONAL	ELEV.	ELEVATOR	MTL	METAL
A.F.F.	ABOVE FINISH FLOOR	ENGR	ENGINEER	MT SCREW	MASS TIMBER SCREW
ALT.	ALTERNATE	EQ.	EQUAL	N.F.	NEAR FACE
ARCH.	ARCHITECTURAL	E.W.	EACH WAY	N.S.	NEAR SIDE
BLD'G	BUILDING	EXP.	EXPANSION	NTS	NOT TO SCALE
BLK'G	BLOCKING	EXT.	EXTERIOR	O.C.	ON CENTER
BM	BEAM	FDN	FOUNDATION	OPN'G	OPENING
B.O.F.	BOTTOM OF FOOTING	F.F.	FAR FACE	OPP.	OPPOSITE
BOT.	BOTTOM	FLR	FLOOR	P.A.F.	POWDER ACTUATED FASTENER
BRB	BUCKLING RESTRAINED BRACE	F.O.M.	FACE OF MASONRY	PERP.	PERPENDICULAR
BRG	BEARING	F.O.S.	FACE OF STUD	ℙL	PLATE
BTWN	BETWEEN	FRM'G	FRAMING	P.P.	PARTIAL PENETRATION
B.U.	BUILT UP	F.R.T.	FIRE RETARDANT TREATED	P.P.T.	PRESERVATIVE PRESSURE TREATED
(C=)	CAMBER	F.S.	FAR SIDE	P.S.F.	POUNDS PER SQUARE FOOT
CANT.	CANTILEVER	FTG	FOOTING	PSL	PARALLAM
CFS	COLD-FORMED STEEL	GA.	GAGE/GAUGE	P.T.	POST TENSION
C.J.	CONTROL/CONSTRUCTION JOINT	GALV.	GALVANIZED	PW.	PLYWOOD
℄	CENTERLINE	GL.	GLULAM	REINF.	REINFORCEMENT
CLR.	CLEARANCE	GR.	GRADE	REQ'D	REQUIRED
CLT	CROSS-LAMINATED TIMBER	GWB	GYPSUM WALL BOARD	SCHED.	SCHEDULE
CMU	CONCRETE MASONRY UNIT	HDR	HEADER	SCL	STRUCTURAL COMPOSITE LUMBER
COL.	COLUMN	HGR	HANGER	SHT'G	SHEATHING
CONC.	CONCRETE	HORIZ.	HORIZONTAL	SIM.	SIMILAR
CONN.	CONNECTION	HSS	HOLLOW STRUCTURAL SECTION	S.O.G.	SLAB ON GRADE
CONST.	CONSTRUCTION	HT	HEIGHT	SQ.	SQUARE
CONT.	CONTINUOUS	INT.	INTERIOR	STD	STANDARD
CONTR.	CONTRACTOR	JST	JOIST	STIFF.	STIFFENER
COORD.	COORDINATE	JT	JOINT	STL	STEEL
C.P.	COMPLETE PENETRATION	L	ANGLE	STRUCT.	STRUCTURAL
CTR'D	CENTERED	L.F.R.S.	LATERAL FORCE-RESISTING SYSTEM	T&B	TOP & BOTTOM
C.Y.	CUBIC YARD	L.L.	LIVE LOAD	T&G	TONGUE AND GROOVE
DBL.	DOUBLE	LLH	LONG LEG HORIZONTAL	THR'D	THREADED
DCW	DEMAND CRITICAL WELD	LLV	LONG LEG VERTICAL	T.O.F.	TOP OF FOOTING
D.F.	DOUGLAS FIR	LOC.	LOCATION	T.O.S.	TOP OF STEEL
DIA. OR ∅	DIAMETER	LSL	LAMINATED STRAND LUMBER	TRT'D	TREATED
DIAG.	DIAGONAL	LVL	LAMINATED VENEER LUMBER	TYP.	TYPICAL
DIM.	DIMENSION	MAX.	MAXIMUM	U.N.O.	UNLESS NOTED OTHERWISE
D.L.	DEAD LOAD	M.B.	MACHINE BOLT	U.T.	ULTRASONIC TESTED
DLT	DOWEL-LAMINATED TIMBER	MECH.	MECHANICAL	VERT.	VERTICAL
DWG	DRAWING	MEZZ.	MEZZANINE	W/	WITH
DWL	DOWEL	MFR	MANUFACTURER	W.P.	WORK POINT
(E)	EXISTING	MIN.	MINIMUM	WT	WEIGHT
EA.	EACH	MISC.	MISCELLANEOUS	W.W.R.	WELDED WIRE REINFORCING

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Eric Nothdurft

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

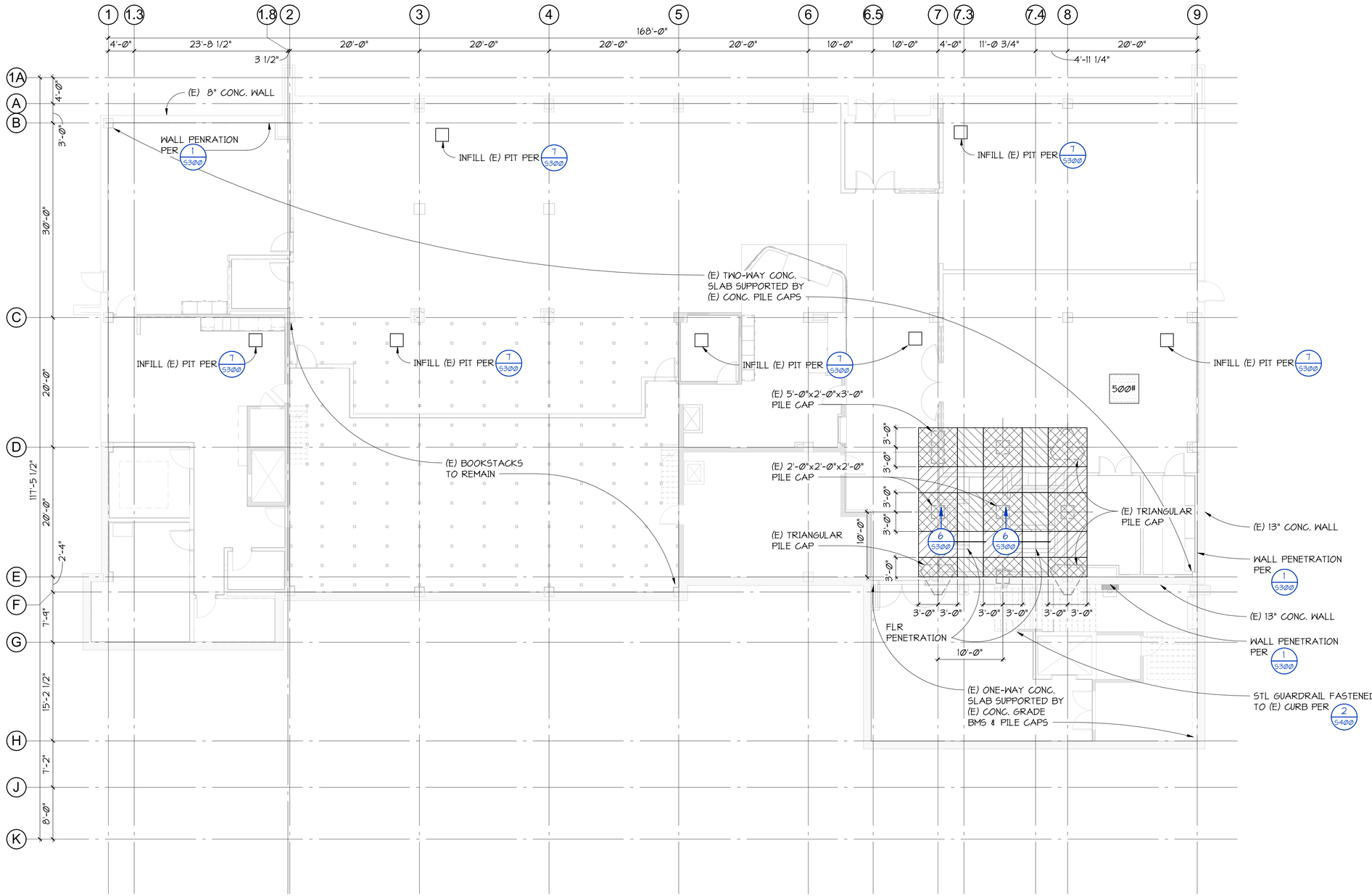
Drawn: ARR
Checked: CAJ
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GENERAL NOTES
S003

C:_Revit Models\23-037 Bellingham Central Library Reno R25\05 (Central)_sewarey.rvt
8/25/2026 11:40:23 AM



GROUND FLOOR PLAN NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL COMPONENTS WITH DETAILS 1/5300 AND 2/5300.
3. 500# INDICATES MECHANICAL UNIT AND MAXIMUM WEIGHT. SEE MECHANICAL FOR LOCATIONS AND REQUIRED OPENINGS IN THE EXISTING CONCRETE SLAB. PROVIDE PENETRATIONS THROUGH THE EXISTING SLAB PER 2/5300. SEE ARCHITECTURAL FOR ANY ADDITIONAL INFORMATION.
4. PENETRATION(S) OKAY THROUGH EXISTING SLAB. MINIMIZE DEMO EXTENTS OF EXISTING SLAB DUE TO SLAB REINFORCEMENT. APPROVE SIZE AND LOCATION OF PENETRATIONS WITH ENGINEER OF RECORD.
5. NO PENETRATION(S) ALLOWED THROUGH EXISTING SLAB.

GROUND FLOOR FRAMING PLAN

1/8" = 1'-0"

C:_Revit Models\23327 Bellingham Central Library Reno R2025 (Central)_DEHotter.rvt
9/3/2026 1:26:19 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Eric Nothdurft

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

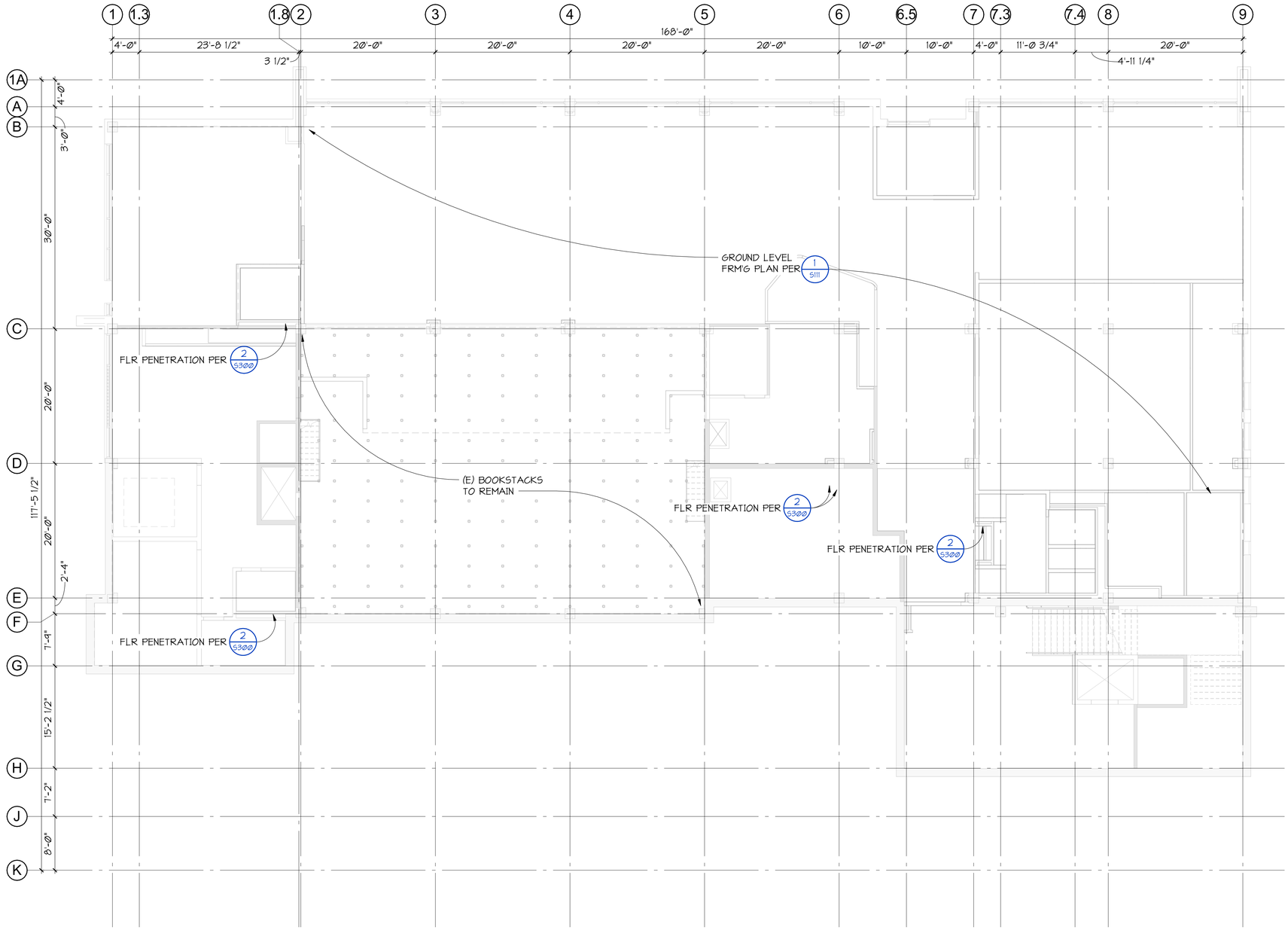
No.	Description	Date

Drawn: DEH
Checked: CAJ
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR FRAMING PLAN
S111



GROUND FLOOR MEZZANINE PLAN NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. NO PENETRATIONS THROUGH STRUCTURAL SLAB AT GROUND FLOOR MEZZANINE.

NORTH

1/S121 GROUND FLOOR MEZZANINE FRAMING PLAN

1/8" = 1'-0"

C:_Revit Models\23337 Bellingham Central Library Reno R2025 (Central)_DEHollar.rvt
9/5/2025 1:25:21 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Eric Nothdurft

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

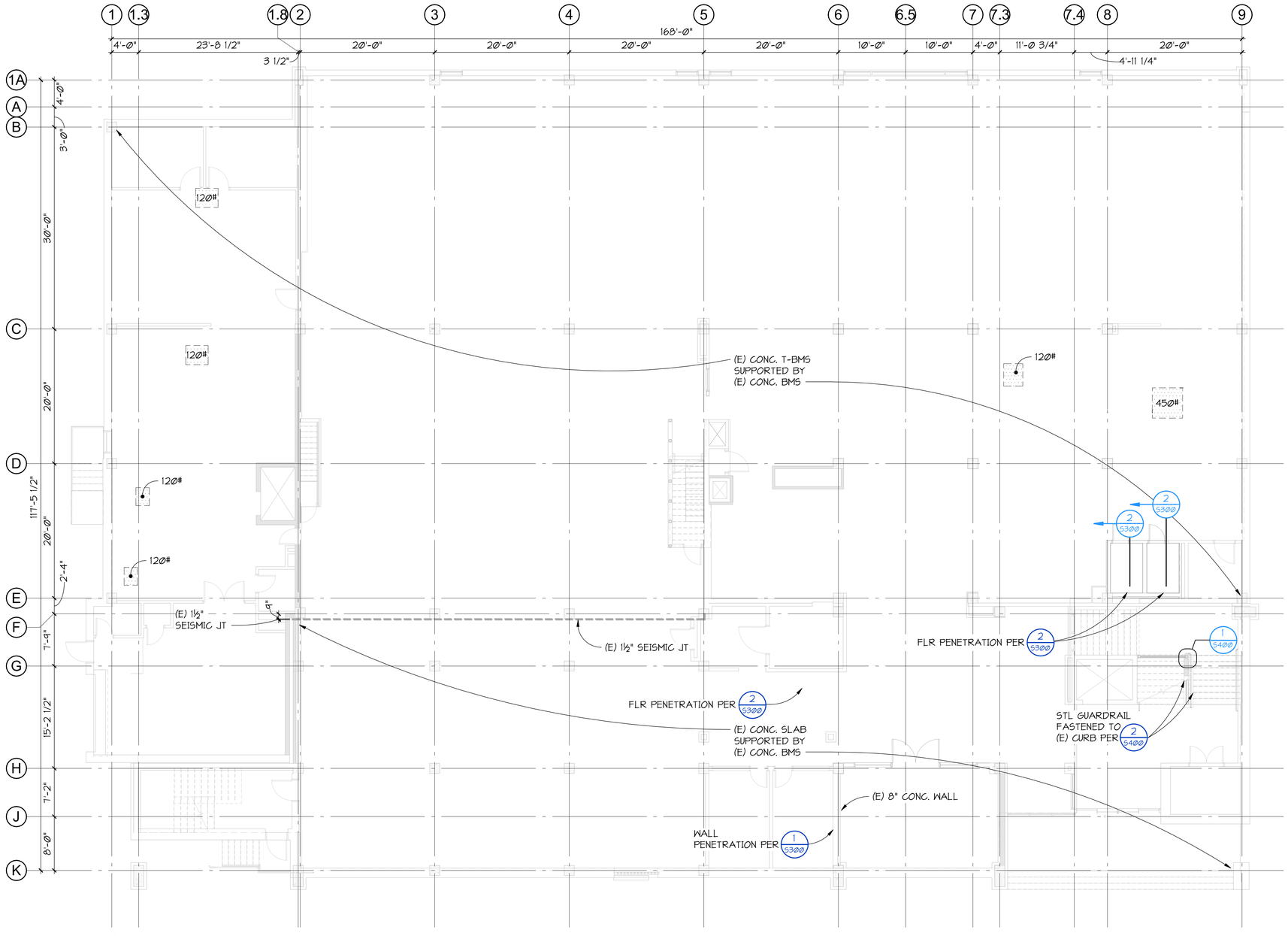
No.	Description	Date

Drawn: DEH
Checked: CAJ
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

GROUND FLOOR MEZZANINE FRAMING PLAN

S121



FIRST FLOOR PLAN NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL COMPONENTS WITH DETAILS 1/S300 AND 2/S300.
3. 500# — INDICATES MECHANICAL UNIT BELOW HUNG FROM EXISTING JOISTS WITH MAXIMUM WEIGHT SHOWN. FOR TYPICAL SUPPORT DETAILS SEE 3/S300 AND 4/S300. SEE MECHANICAL FOR LOCATIONS AND REQUIRED OPENINGS IN THE EXISTING CONCRETE SLAB. PROVIDE PENETRATIONS THROUGH THE EXISTING SLAB PER 2/S300. SEE ARCHITECTURAL FOR ANY ADDITIONAL INFORMATION.

NORTH

1/S131 FIRST FLOOR FRAMING PLAN

1/8" = 1'-0"

C:_Revit Models\23337 Bellingham Central Library Reno R2025 (Central)_Caisenitz@pcs-structural.com.rvt
9/9/2026 1:43:28

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Eric Nothdurft

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

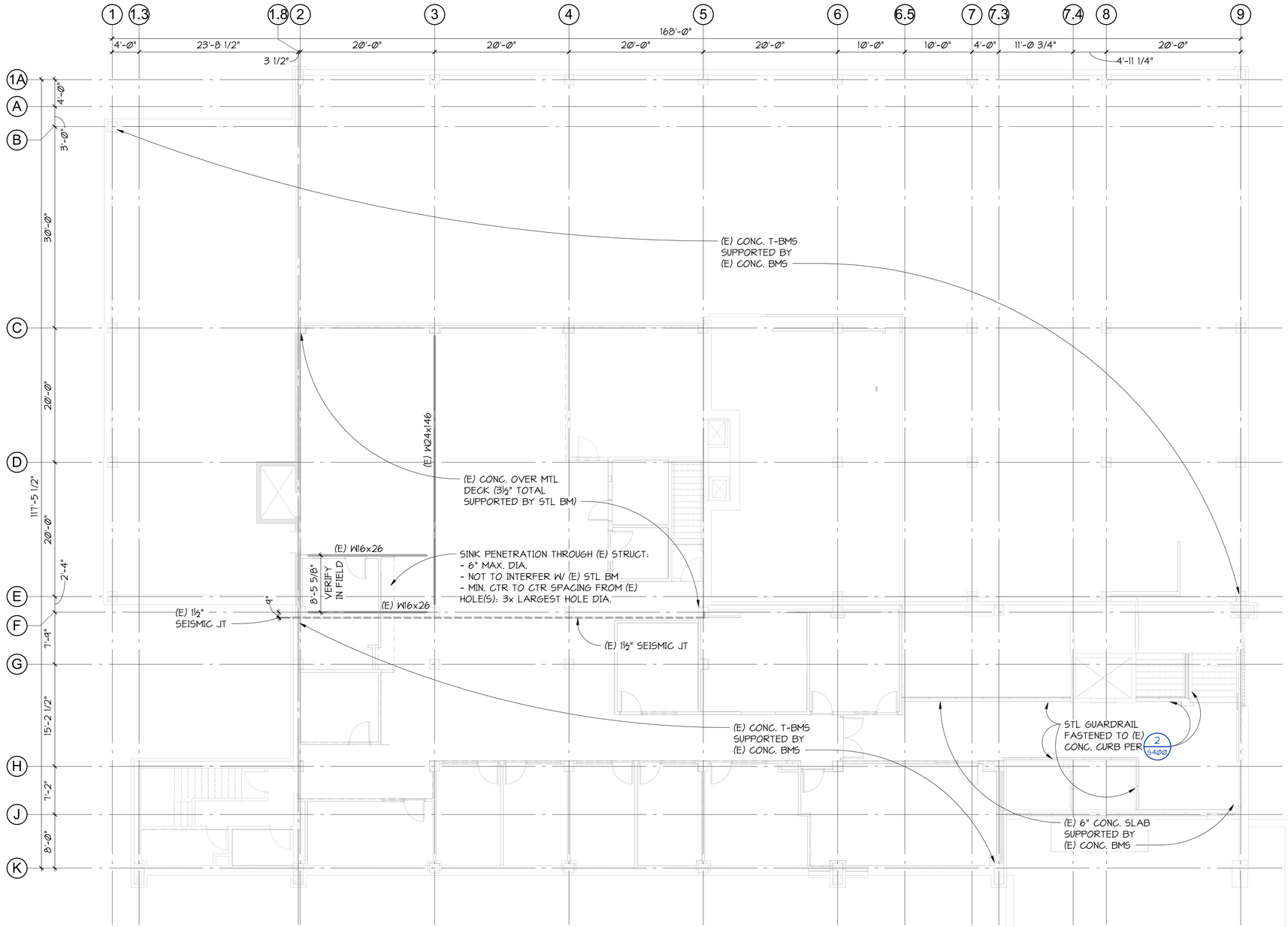
No.	Description	Date

Drawn: DEH
Checked: CAJ
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

FIRST FLOOR FRAMING PLAN
S131



SECOND FLOOR PLAN NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL COMPONENTS WITH DETAILS 1/S300 AND 2/S300.

NORTH

1 / S141 SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

C:_Revit Models\23337 Bellingham Central Library Reno R2020 (Central)_DEHolter.rvt
9/5/2025 1:20:24 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Eric Nothdurft

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

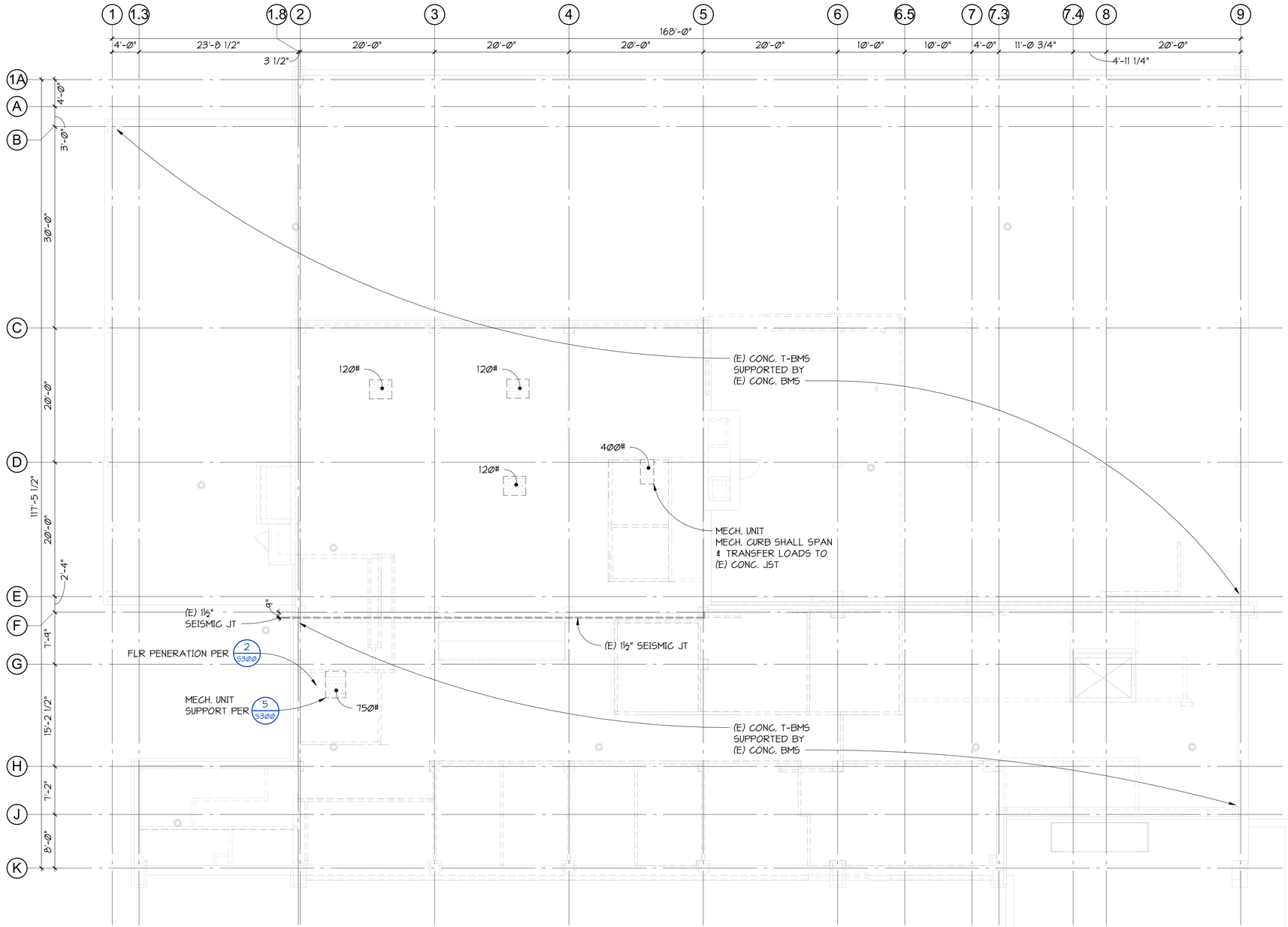
REVISIONS

No.	Description	Date

Drawn: DEH
Checked: CAJ
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SECOND FLOOR FRAMING PLAN
S141



ROOF PLAN NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL COMPONENTS WITH DETAILS 1/S300 AND 2/S300.
3. 500# INDICATES MECHANICAL UNIT AND MAXIMUM WEIGHT. SEE MECHANICAL FOR LOCATIONS AND REQUIRED OPENINGS IN THE EXISTING CONCRETE SLAB. PROVIDE PENETRATIONS THROUGH THE EXISTING SLAB PER 2/S300. SEE ARCHITECTURAL FOR ANY ADDITIONAL INFORMATION.
4. 500# INDICATES MECHANICAL UNIT BELOW HUNG FROM EXISTING JOISTS WITH MAXIMUM WEIGHT SHOWN. FOR TYPICAL SUPPORT DETAILS SEE 3/S300 AND 4/S300. SEE MECHANICAL FOR LOCATIONS AND REQUIRED OPENINGS IN THE EXISTING CONCRETE SLAB. PROVIDE PENETRATIONS THROUGH THE EXISTING SLAB PER 2/S300. SEE ARCHITECTURAL FOR ANY ADDITIONAL INFORMATION.

NORTH

1 / S151 ROOF FRAMING PLAN

1/8" = 1'-0"

C:_Revit Models\23337 Bellingham Central Library Reno R2025 (Central)_DEHolter.rvt
9/5/2025 1:25:38 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Eric Nothdurft

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

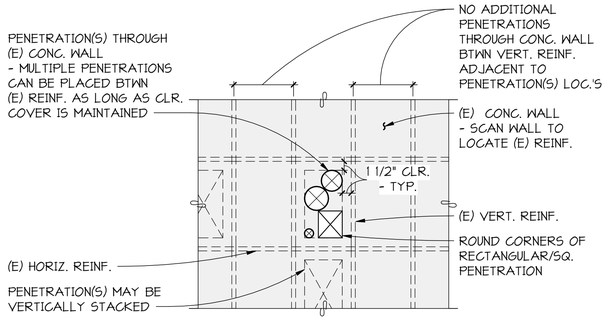
No.	Description	Date

Drawn: DEH
Checked: CAJ
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

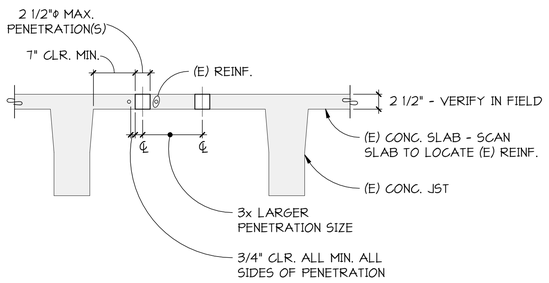
ROOF FRAMING PLAN
S151



NOTES:
1. SCAN WALL TO LOCATE ALL EXISTING REINFORCEMENT.
2. CORE DRILL (NO SAW CUTTING) ALL PENETRATIONS THROUGH EXISTING CONCRETE WALL.
3. VERIFY ALL PENETRATIONS THROUGH CONCRETE SLAB WITH ENGINEER OF RECORD.

TYPICAL PENETRATIONS THROUGH EXISTING CONCRETE WALL

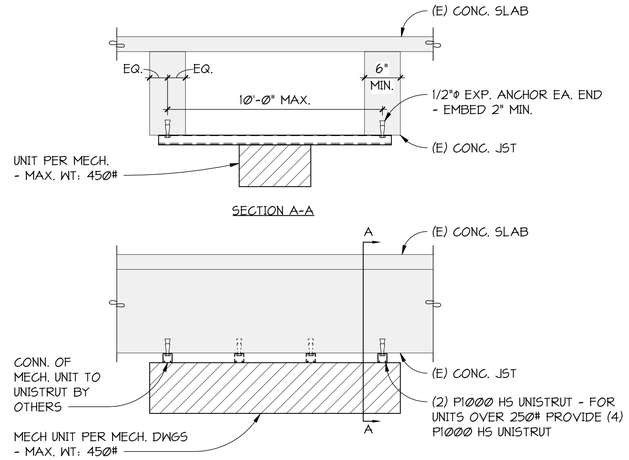
1 / 5300 ELEVATION
NO SCALE



NOTES:
1. SCAN FLOOR TO LOCATE ALL EXISTING REINFORCEMENT.
2. CORE DRILL (NO SAW CUTTING) ALL PENETRATIONS THROUGH EXISTING CONCRETE FLOOR.
3. VERIFY ALL PENETRATIONS THROUGH CONCRETE SLAB WITH ENGINEER OF RECORD.

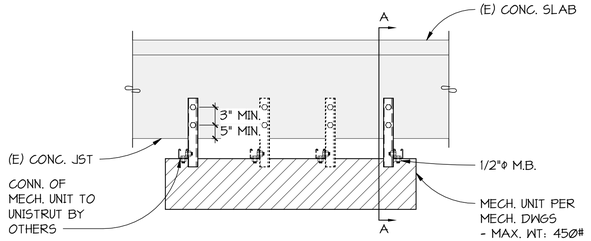
TYPICAL PENETRATIONS THROUGH EXISTING CONCRETE FLOOR/ROOF SLAB

2 / 5300 SECTION
NO SCALE



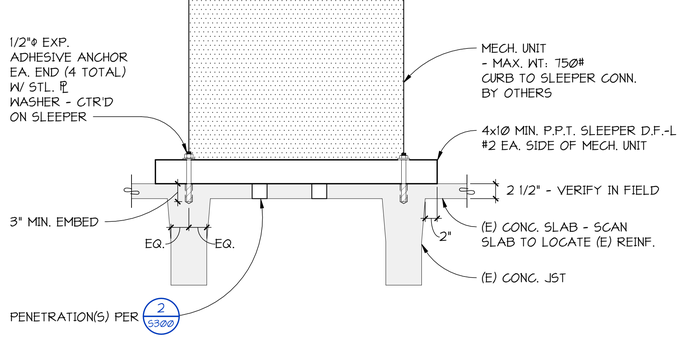
MECHANICAL HANGING UNIT ATTACHMENT TO UNDERSIDE OF JOIST

3 / 5300 SECTION
NO SCALE

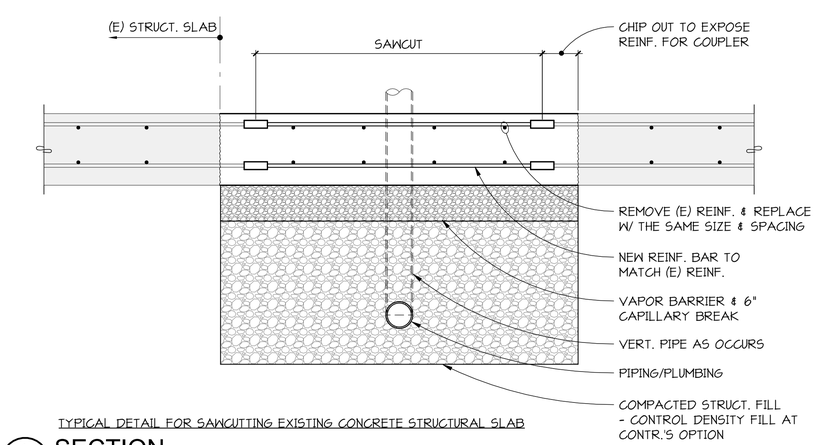


MECHANICAL HANGING UNIT ATTACHMENT TO SIDE OF JOIST

4 / 5300 SECTION
NO SCALE

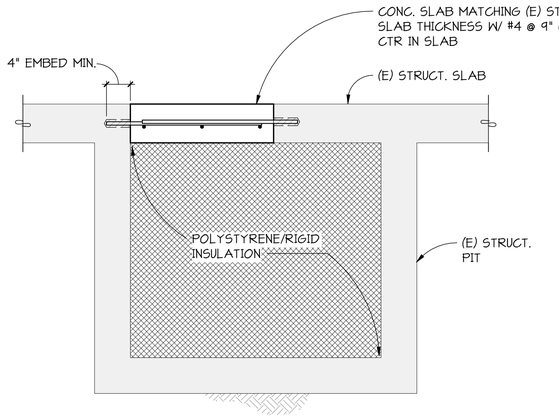


5 / 5300 SECTION
NO SCALE



TYPICAL DETAIL FOR SAWCUTTING EXISTING CONCRETE STRUCTURAL SLAB

6 / 5300 SECTION
NO SCALE



TYPICAL EXISTING RADIANT FLOOR PIT INFILL

7 / 5300 SECTION
NO SCALE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Eric Nothdurft

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

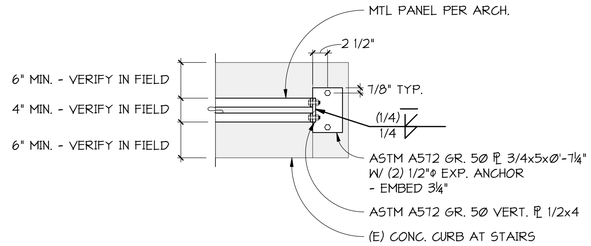
No.	Description	Date

Drawn: DEH
Checked: CAJ
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

DETAILS
S300

C:_Revit Models\23337 Bellingham Central Library Reno R2025 (Central)_CAlsentis@pcs-structural.com.rvt
8/5/2026 1:43:39 PM

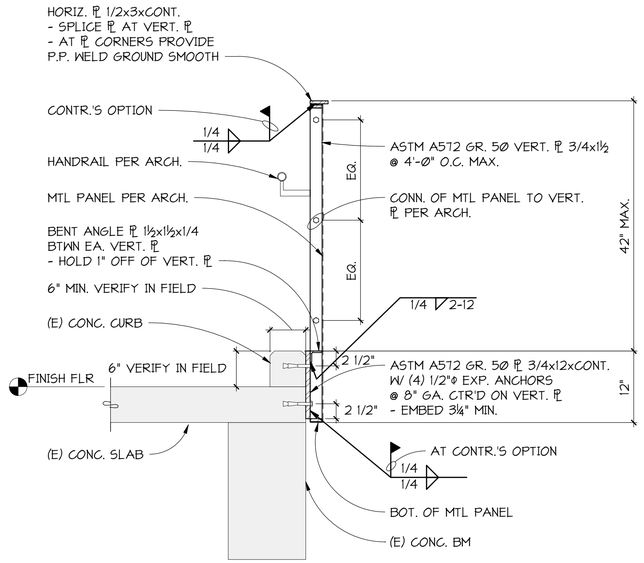


GUARD RAIL AT LANDING

1 / S400

PLAN VIEW

1" = 1'-0"



GUARD RAIL AT CURB

2 / S400

SECTION

1" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Eric Nothdurft

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: SMS
Checked: CAJ
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

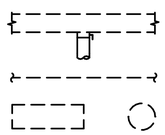
DETAILS
S400

C:_Revit Models\23337 Bellingham Central Library Reno R2025 (Central)_EKHollar.rvt
9/5/2026 1:20:49 PM

STANDARD ABBREVIATIONS

AD	AREA DRAIN	ISOL	ISOLATOR, ISOLATION
ADA	AMERICANS WITH DISABILITIES ACT	KW	KILOWATT
AF	AIRFOIL	KWH	KILOWATT HOUR
AFF	ABOVE FINISHED FLOOR	L	LENGTH
AL	ALUMINUM	LAT	LEAVING AIR TEMP
ALT	ALTERNATIVE	LB	POUND
AP	ACCESS PANEL	LDB	LEAVING DRY BULB
APD	AIR PRSSURE DROP	LF	LINEAR FEET
APPROX	APPROXIMATELY	LFT	LEAVING FLUID TEMPERATURE
ARCH	ARCHITECT, ARCHITECTURAL	LVG	LEAVING
AUTO	AUTOMATIC	LWB	LEAVING WET BULB
BDD	BACKDRAFT DAMPER	LWT	LEAVING WATER TEMPERATURE
BHP	BREAK HORESPOWER	MAX	MAXIMUM
BI	BACKWARD INCLINED	MBH	THOUSAND BTU PER HOUR
BLDG	BUILDING	MCA	MINIMUM CIRCUIT AMPACITY
BOP	BOTTOM OF PIPE	MECH	MECHANICAL
BOS	BOTTOM OF STRUCTURE	MERV	MINIMUM EFFICIENCY REPORTING VALUE
BSMT	BASEMENT	MFR	MANUFACTURER
BTU	BRITISH THERMAL UNIT	MIN	MINIMUM
BTUH	BRITISH THERMAL UNITS PER HOUR	MISC	MISCELLANEOUS
BV	BALANCING VALVE	MOCP	MAXIMUM OVERCURRENT PROTECTION
CALC	CALCULATION	MTD	MOUNTED
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
CFS	CUBIC FEET PER SECOND	NIC	NOT IN CONTRACT
CI	CAST IRON	NO	NORMALLY OPEN
CL	CENTERLINE	NPS	NOMINAL PIPE SIZE
CLG	CEILING OR COOLING	NTS	NOT TO SCALE
CO	CLEANOUT	OAT	OUTSIDE AIR TEMPERATURE
CONC	CONCRETE	OC	ON CENTER DISTANCE
CONN	CONNECT, CONNECTION	OD	OVERFLOW DRAIN
CONT	CONTINUED, CONTINUATION	OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
CP	CIRCULATING PUMP	OSA	OUTSIDE AIR
CV	CHECK VALVE	P/FT	PITCH PER FOOT
DB	DRY BULB	PG	PRESSURE GAUGE
DDC	DIRECT DIGITAL CONTROL	PH	PHASE
DEFL	DEFLECTION	PRV	PRESSURE REDUCING VALVE
DIA	DIAMETER	PS	PRESSURE SWITCH
DN	DOWN (PENETRATES FLOOR)	PSI	POUNDS PER SQUARE INCH
DP	DEW POINT	PSIG	POUNDS PER SQUARE INCH (GAUGE)
DR	DRAIN	PVC	POLYVINYL CHLORIDE
DV	DRAIN VALVE	PVS	PVC COATED STEEL
DROP	DROP (WITHIN FLOOR)	R, RAD	RADIUS
DWDI	DOUBLE WIDTH DOUBLE INLET	RA	RELIEF AIR
DWG	DRAWING	RD	ROOF DRAIN
(E), EXIST	EXISTING	RET	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	REV	REVISION
ECM	ELECTRONICALLY COMMUTATED MOTOR	RH	RELATIVE HUMIDITY
EDB	ENTERING DRY BULB	RISE	RISE (WITHIN FLOOR)
EFF	EFFICIENCY	RPM	REVOLUTIONS PER MINUTE
EFT	ENTERING FLUID TEMPERATURE	SA	SUPPLY AIR
ELEC	ELECTRIC, ELECTRICAL	SAD	SEE ARCHITECTURAL DRAWINGS
ELEV	ELEVATION	SCFM	STANDARD CUBIC FEET PER MINUTE
ENGR	ENGINEER	SD	SMOKE DAMPER (MECHANICAL)
EQ	EQUAL	SECT	SECTION
EQUIP	EQUIPMENT	SENS	SENSIBLE
ESP	EXTERNAL STATIC PRESSURE	SF	SQUARE FOOT, SQUARE FEET
ET	EXPANSION TANK	SIM	SIMILAR
EWB	ENTERING WET BULB	SOV	SHUTOFF VALVE
EWT	ENTERING WATER TEMPERATURE	SP	STATIC PRESSURE
EXP	EXPANSION	SPEC	SPECIFICATION
EXH	EXHAUST OR EXHAUST AIR	SQ	SQUARE
F	DEGREES FAHRENHEIT	SQ IN	SQUARE INCH, SQUARE INCHES
FC	FORWARD CURVED	SS	STAINLESS STEEL (ALL)
FCO	FLOOR CLEANOUT	STL	STEEL
FD	FIRE DAMPER (MECHANICAL)	STRUCT	STRUCTURE, STRUCTURAL
FD	FLOOR DRAIN (PLUMBING)	TDH	TOTAL DISCHARGE HEAD
FFE	FINISHED FLOOR ELEVATION	TDL	TOTAL DEVELOPED LENGTH
FIG	FIGURE	TEMP	TEMPERATURE
FL	FLOOR	TOP	TOP OF PIPE
FLA	FULL LOAD AMPACITY	TSP	TOTAL STATIC PRESSURE
FLEX	FLEXIBLE	TYP	TYPICAL
FPD	FLUID PRESSURE DROP	UG	UNDERGROUND
FPM	FEET PER MINUTE	UP	UP (PENETRATES FLOOR SLAB)
FPS	FEET PER SECOND	UON	UNLESS OTHERWISE NOTED
FS	FLOOR SINK	V	VOLTS
FSD	FIRE SMOKE DAMPER	VD	VOLUME DAMPER
FT	FEET/FOOT	VEL	VELOCITY
(F)	FUTURE	VERT	VERTICAL
G	GRADE	VFD	VARIABLE FREQUENCY DRIVE
GA	GAGE/GAUGE	VTR	VENT THROUGH ROOF
GAL	GALLON	W	WIDTH
GALV	GALVANIZED	WB	WET BULB
GPH	GALLONS PER HOUR	WG	WATER GAUGE
GPM	GALLONS PER MINUTE	WPD	WATER PRESSURE DROP
GV	GATE VALVE	WTD	WATER TEMPERATURE DROP
H	HEIGHT	WTR	WATER TEMPERATURE RISE
HB	HOSE BIBB	W/	WITH
HD	HUB DRAIN	W/O	WITHOUT
HORIZ	HORIZONTAL		
HP	HORSEPOWER		
HR	HOUR		
HT	HEAT TRACE		
HTG	HEATING		
ID	INSIDE DIAMETER, INSIDE DIMENSION		
IE	INVERT ELEVATION		
IN	INCH, INCHES		
INSUL	INSULATION		

DEMOLITION LEGEND

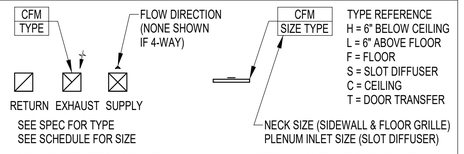


REMOVE EXISTING DUCTWORK

REMOVE EXISTING PIPE

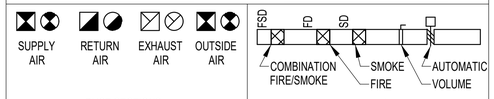
REMOVE EXISTING EQUIPMENT

DUCT LEGEND



CEILING DIFFUSERS & GRILLES

SIDEWALL, SLOT & FLOOR GRILLES



DUCT SECTIONS

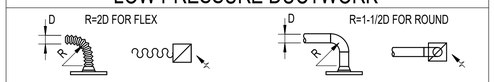
DAMPERS

RETURN OR EXHAUST AIR FLOW

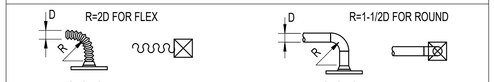
SUPPLY OR OUTSIDE AIR FLOW

UC 1/2" UNDERCUT DOOR

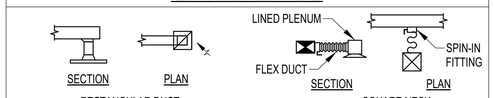
LOW PRESSURE DUCTWORK



RETURN OR EXHAUST GRILLE CONNECTION

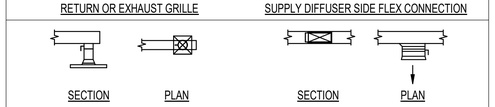


SUPPLY DIFFUSER CONNECTION



RETURN OR EXHAUST GRILLE

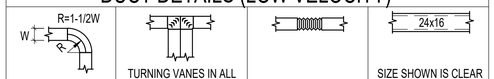
SUPPLY DIFFUSER SIDE FLEX CONNECTION

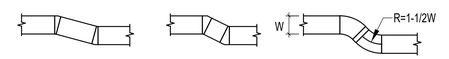


SUPPLY DIFFUSER HARD CONNECTION

SIDEWALL SUPPLY GRILLE CONNECTION

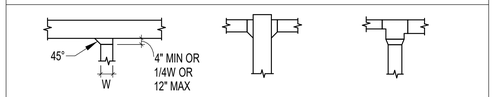
DUCT DETAILS (LOW VELOCITY)





DUCT OFFSETS

TRANSITIONS

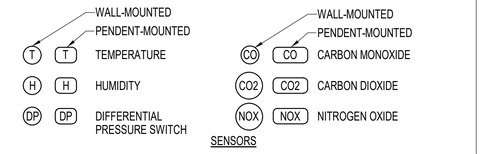


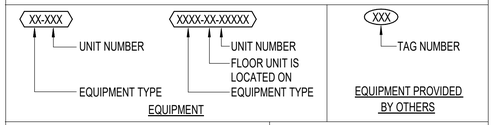
RECTANGULAR DUCT FITTING

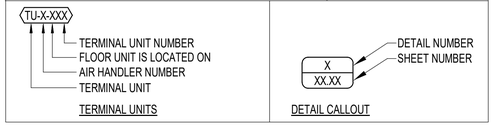
RECTANGULAR TO ROUND FITTING

SYMBOLS

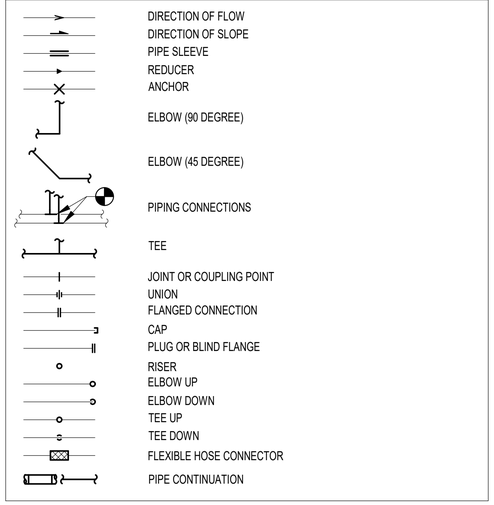
A	ACCESS PANEL	#	NUMBERED NOTE
	POINT OF CONNECTION	X	REMOVE EXISTING
E	EXISTING TO REMAIN	K	CAP EXISTING / CAP FOR FUTURE
B	BELOW GRADE / FLOOR	R	RELOCATE EXISTING
1	REVISION NUMBER	F	FUTURE







MISC. FITTINGS & SYMBOLS



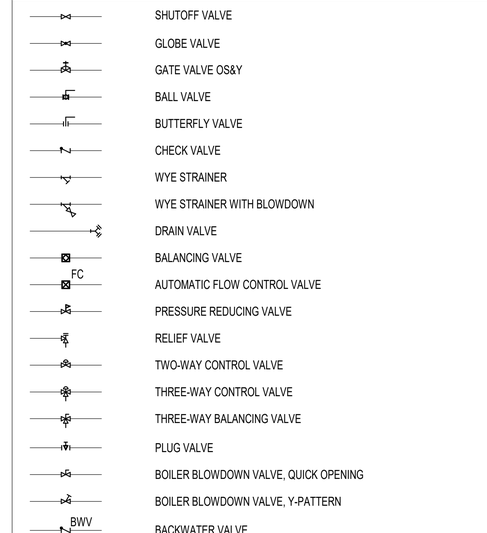
MECHANICAL SHEET LIST

SHEET #	SHEET NAME
M701	CONTROL DIAGRAMS - MECHANICAL
M702	CONTROL DIAGRAMS - MECHANICAL
M703	CONTROL DIAGRAMS - MECHANICAL
M704	CONTROL DIAGRAMS - MECHANICAL
M705	CONTROL DIAGRAMS - MECHANICAL
M001	SYMBOLS, LEGENDS & ABBREVIATIONS - MECHANICAL
M002	EQUIPMENT SCHEDULE - MECHANICAL
M003	EQUIPMENT SCHEDULE - MECHANICAL
M004	EQUIPMENT SCHEDULE - MECHANICAL
M005	CODE COMPLIANCE - MECHANICAL
M006	CODE COMPLIANCE - MECHANICAL
M010	SITE PLAN - MECHANICAL
MD101	GROUND LEVEL DEMOLITION PLAN - MECHANICAL
MD121	FIRST FLOOR DEMO PLAN - MECHANICAL
MD131	SECOND FLOOR DEMO PLAN - MECHANICAL
MD141	ROOF DEMO PLAN - MECHANICAL
M111	GROUND FLOOR - FLOOR PLAN - MECHANICAL
M131	FIRST FLOOR - FLOOR PLAN - MECHANICAL
M141	SECOND FLOOR - FLOOR PLAN - MECHANICAL
M151	ROOF PLAN - MECHANICAL
M211	GROUND FLOOR - FLOOR PLAN - MECHANICAL PIPING
M231	FIRST FLOOR - FLOOR PLAN - MECHANICAL PIPING
M241	SECOND FLOOR - FLOOR PLAN - MECHANICAL PIPING
M251	ROOF PLAN - MECHANICAL PIPING
M401	ENLARGED PLANS - MECHANICAL
M501	DETAILS - MECHANICAL
M601	FLOW DIAGRAMS - MECHANICAL
M711	GROUND FLOOR - ZONE PLAN - MECHANICAL
M713	FIRST FLOOR - ZONE PLAN - MECHANICAL
M714	SECOND FLOOR - ZONE PLAN - MECHANICAL
Grand total: 30	

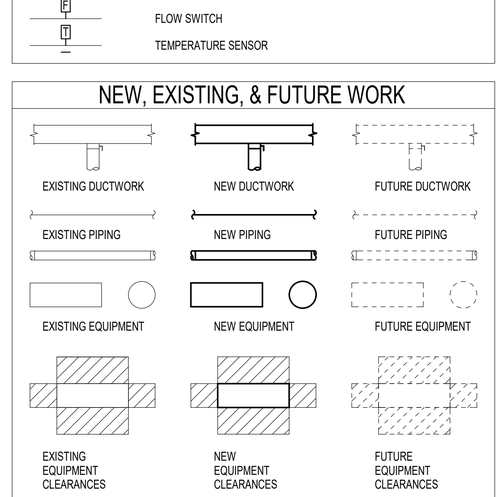
GENERAL NOTES:

A. THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

MISC. VALVES & COCKS



NEW, EXISTING, & FUTURE WORK



HVAC PIPING

BBD	BOILER BLOWDOWN
D	DRAIN (CONDENSATE/INDIRECT)
PC	PUMPED CONDENSATE
CHF	CHEMICAL FEED
ICW	INDUSTRIAL COLD WATER (MAKE-UP)
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
SHWS	SECONDARY HEATING WATER SUPPLY
SHWR	SECONDARY HEATING WATER RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
A	COMPRESSED AIR

DELEGATED DESIGN SCOPE OF WORK:
- SPECIFICATION 23 05 16 - EXPANSION FITTINGS & LOOPS
- SPECIFICATION 23 05 29 - HANGERS & SUPPORTS
- SPECIFICATION 23 05 48 - VIBRATION AND SEISMIC CONTROLS

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SYMBOLS, LEGENDS & ABBREVIATIONS - MECHANICAL

M001

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_ME.IPT23.rvt
8/29/2025 2:38:19 PM

AIR HANDLING UNIT SCHEDULE

GENERAL NOTES:
A. UNITS MOUNTED ON ROOF CURB.
B. MINIMUM OSA CALCULATED BASED ON CODE AND ASHRAE STANDARD 62.
C. HEATING COILS BASED ON MAXIMUM FACE VELOCITY OF 750 FPM, 0.15 IN WG MAXIMUM AIR PRESSURE DROP, 5 FT WG MAXIMUM WATER PRESSURE DROP.
D. FLUID IS 25% PROP. GLYCOL.
E. HEAT RECOVERY SECTION EFFECTIVENESS IS BASED ON AHRI 1060.
F. PROVIDE DUCT SMOKE DETECTOR. INTERLOCK DETECTOR WITH ELECTRICAL SERVICE TO DE-ENERGIZE UNIT UPON DETECTION OF SMOKE.
G. FAN ENERGY INDEX (FEI) BASED ON MANUFACTURERS' CERTIFIED DATA, RATIO OF THE ELECTRIC INPUT POWER OF A REFERENCE FAN TO THE ELECTRIC INPUT POWER OF THE ACTUAL FAN, AS CALCULATED PER AMCA 208.
H. PROVIDE DRAIN PANS DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ASHRAE STANDARD 62.1 INCLUDING BUT NOT LIMITED TO 1/8-INCH PER FOOT SLOPE TOWARD DRAIN OUTLET, PAN LENGTH OF 1/2 THE INSTALLED VERTICAL DIMENSION OF THE COOLING COIL.

NOTES:
1. ARRANGE UNIT FOR SINGLE POINT POWER CONNECTION W/ DISCONNECT SWITCH. PROVIDE A SEPARATE, DEDICATED 120V CONNECTION FOR RECEPTACLE(S) AND LIGHTS.
2. REFUBRISHMENT SCOPE: UPSIZE TO 15HP MOTOR AND FRAME. PROVIDE NEW BELT AND SHEAVE. NEW 480V/3PH CONNECTION. NEW COMPONENTS TO MATCH EXISTING EQUIPMENT PERFORMANCE AND MEET NEW PROJECT SPECIFICATIONS. REPLACE DAMPER ACTUATORS. SEAL LEAKS IN CABINET.
3. PROVIDE PRE-CONSTRUCTION SERVICING OF EXISTING UNIT. INSPECT UNIT AND NOTIFY OWNER OF ANY FAILED OR FAILING COMPONENTS OR OTHER CONCERNS.
4. UNIT IS INCLUDED IN COMMISSIONING SCOPE.

			OUTSIDE AIR		SUPPLY FAN								HYDRONIC HEATING COIL					ELECTRICAL					
									MOTOR														
TAG	LOCATION	SERVICE	MAX OSA (CFM)	FILTER (MERV)	AIRFLOW (CFM)	FAN TYPE	TSP (IN WG)	ESP (IN WG)	POWER (BHP)	RATING (HP)	VOLT/ PHASE	VFD (Y/N)	EAT (°F)	LAT (°F)	GPM	EWT (°F)	WTD (°F)	VOLT/ PHASE	MIN SCCR (kA)	BACKUP POWER (Y/N)	APPROX. WEIGHT (LBS)	MFR & MODEL	NOTES
HV-1	ROOF	LIBRARY	18,300	13	18,300	FC/BELT	2.1	1.75	-	15.0	480/3	Y	54	77	16.0	180	60	480/3	18	N	5,000	YORK/JCI XT	1, 2, 3, 4

ENERGY RECOVERY VENTILATOR SCHEDULE

GENERAL NOTES:
A. INDOOR UNITS HUNG FROM ABOVE WITH 1-INCH DEFLECTION SPRING HANGERS. OUTDOOR UNITS MOUNTED ON ROOF CURB.
B. MINIMUM OSA CALCULATED BASED ON CODE AND ASHRAE STANDARD 62.
C. HEAT RECOVERY SECTION EFFECTIVENESS IS BASED ON AHRI 1060.
D. FUSED DISCONNECT FURNISHED BY MANUFACTURER.
E. SYSTEMS EXEMPT FROM DEMAND-CONTROL VENTILATION REQUIREMENTS PER 2021 WSEC C403.7.1.1.

NOTES:
1. ARRANGE UNIT FOR SINGLE POINT POWER CONNECTION W/ DISCONNECT SWITCH.
2. OUTDOOR UNIT. ROOF CURB SIZED TO SPAN EXISTING CONCRETE BEAMS BEYOND FOOTPRINT OF THE UNIT. FIELD-VERIFY EXACT DIMENSIONS AND COORDINATE WITH GC AND ARCH.
3. CLASS 1 ISOLATION DAMPERS AT SUPPLY AND RETURN.
4. CLASS 1 ISOLATION DAMPERS SHIPPED LOOSE. FIELD WIRING BY CONTROLS CONTRACTOR.
5. PACKAGED CONTROLLER.

			OUTDOOR AIR		SUPPLY FAN						RETURN/EXHAUST FAN					
								MOTOR						MOTOR		
TAG	LOCATION	SERVICE	OSA (CFM)	FILTER (MERV)	AIRFLOW (CFM)	ESP (IN WG)	SPEED (RPM)	POWER (W)	RATING (HP)	VOLT/ PHASE	AIRFLOW CFM	ESP (IN WG)	SPEED (RPM)	POWER (W)	RATING (HP)	VOLT/ PHASE
ERV-1	MULTIPURPOSE RM	MULTIPURPOSE RM	600	13	600	0.7			-	208/1	600	0.4			-	208/1
ERV-2	ROOF	2ND FLOOR	800	13	800	0.6			-	460/3	700	0.4			-	460/3

ENERGY RECOVERY VENTILATOR SCHEDULE (CONTINUED)

	HEAT RECOVERY												ELECTRICAL							
				WINTER				SUMMER												
TAG	OSA CFM	EXHAUST CFM	TYPE	OSA EAT (°F DB)	OSA LAT (°F DB)	EXH EAT (°F DB)	EFF. (%)	OSA EAT (°F DB/WB)	OSA LAT (°F DB/WB)	EXH EAT (°F DB/WB)	EFF. (%)	VOLT/ PHASE	MCA (A)	MOCP (A)	MIN SCCR (kA)	BACKUP POWER (Y/N)	EFFICACY (WATT/ CFM)	APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
ERV-1	600	600	PLATE FRAME	21	55	70	72	85/68	78/65	75/64	70	208/1	3.9	15	-	N	0.76	450	RENEWAIRE	1, 4, 5
ERV-2	800	700	PLATE FRAME	21	55	70	67	85/68	78/65	75/64	65	460/3	2.7	15	18	N	1.00	400	RENEWAIRE	1, 2, 3, 5

DEMOLITION SCHEDULE

GENERAL NOTES:
A. EXISTING EQUIPMENT AS DOCUMENTED IN AS-BUILT DRAWINGS AND/OR SITE INVESTIGATIONS.
B. FIELD VERIFY CONDITIONS PRIOR TO DEMOLITION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

NOTES:
1. NO EXISTING TAG. NEW TAG ESTABLISHED.
2. INTEGRAL TO RANGE HOOD
3. 5HP MOTOR, HEAT PUMP PACKAGE, AND 13.5KW ELECTRIC COIL

				PERFORMANCE		ELECTRICAL		
TAG	LOCATION	SERVICE	TYPE	FLOW (CFM/ GPM)	ESP (IN WG/ FT HEAD)	POWER (W)	VOLT/ PHASE	NOTES
AC-1	BOILER ROOM	CONTROL AIR (ABANDONED)	AIR COMPRESSOR AND AIR COOLER	-	-	-	-	1
CP-1	BOILER ROOM	HEATING COILS	CIRCULATION PUMP	70	40	1492	208/3	
CP-2	BOILER ROOM	RADIANT HEATING	CIRCULATION PUMP	45	15	373	208/3	
EF-1	RESTROOMS	GROUND FLOOR RESTROOMS	EXHAUST FAN	1,150	0.25	187	115/1	
EF-2	CONFERENCE	CONFERENCE	EXHAUST FAN	200	0.125	105	115/1	
EF-3	CONFERENCE	CONFERENCE	EXHAUST FAN	90	0.1	50	115/1	
EF-4	MOTHERS	SMOKING LOUNGE	EXHAUST FAN	300	0.25	130	115/1	
EF-5	BREAKROOM	RANGE HOOD	EXHAUST FAN	400	0.1	-	-	2
HC-1	BOILER ROOM	COLLECTIONS SOUTH	HOT WATER HEATING COIL	4700/11	-	-	-	
HC-2	CHILDRENS	CHILDRENS	HOT WATER HEATING COIL	3100/7	-	-	-	
HC-5	COLLECTIONS NORTH	COLLECTIONS NORTH	HOT WATER HEATING COIL	5000/9	-	-	-	
HC-6	COLLECTIONS EAST	COLLECTIONS EAST	HOT WATER HEATING COIL	3600/7	-	-	-	
HC-8	2ND FLOOR	MENDERY	HOT WATER HEATING COIL	350/1	-	-	-	
HP-1	ROOF	2ND FLOOR	PACKAGED ROOFTOP HEAT PUMP	4,000	1.00	17229	208/3	3
HV-2	2ND FLOOR	MENDERY	VENTILATOR	2000/7	0.75	560	208/3	

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

EQUIPMENT SCHEDULE - MECHANICAL

M002

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/3/2026 2:39:23 PM

PUMP SCHEDULE

GENERAL NOTES:
A. PROVIDE TEFC TYPE MOTORS WHERE SCHEDULED AND WHERE PUMP IS LOCATED WITHIN THE AIRSTREAM.
B. PROVIDE LARGEST IMPELLER SIZE AVAILABLE FOR VOLUTE THAT DOES NOT OVERLOAD THE MOTOR SIZE.
C. PUMP SIZING BASED ON OPERATING POINT.
D. PUMP ENERGY INDEX (PEI) BASED ON MANUFACTURERS' CERTIFIED DATA, PER TEST PROCEDURE 10 CFR PART 431.
NOTES:
1. PUMP SUPPORT FRAME ENGINEERED BY CONTRACTOR. SEE DETAILS, SPECIFICATION 23 05 29, AND SPECIFICATION 23 05 48.
KEY:
PL = PARALLEL, LEAD-LAG: INDIVIDUAL PUMP CAPACITY IS SUCH THAT BOTH PUMPS OPERATE TO PROVIDE DESIGN FLOW.
PS = PARALLEL, STANDBY: INDIVIDUAL PUMP CAPACITY IS SUCH THAT ONE PUMP IS FULLY REDUNDANT.
S = STANDALONE: PUMP IS SIZED TO PROVIDE DESIGN FLOW; NO REDUNDANCY PROVIDED.

						PERFORMANCE				ELECTRICAL										
						FLOW		HEAD	PUMP					MOTOR		MIN	BACKUP	APPROX.		
TAG	LOCATION	SERVICE	TYPE	PUMP STAGING	GLYCOL (%)	MAX (GPM)	MIN (GPM)	DESIGN (FT WG)	ENERGY INDEX	VOLT/ PHASE	MOTOR TYPE	POWER (BHP)	RATING (HP)	SPEED (RPM)	VFD (Y/N)	SCCR (kA)	POWER (Y/N)	WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
CP-1	BOILER ROOM	SECONDARY HWS	VERTICAL IN-LINE	PS	25	100	30	85	0.79	460/3	ODP	3.3	5	3600	Y	10	N	200	TACO KV	1
CP-2	BOILER ROOM	SECONDARY HWS	VERTICAL IN-LINE	PS	25	100	30	85	0.79	460/3	ODP	3.3	5	3600	Y	10	N	200	TACO KV	1

FAN SCHEDULE

GENERAL NOTES:
A. HUNG FROM ABOVE WITH MIN. 0.35-INCH DEFLECTION RUBBER HANGERS.
B. IP44 MOTOR ENCLOSURE CLASS.
C. ENERGY STAR RATED.
NOTES:
1. EC MOTOR.
2. SIX FT POWER CORD.
3. ALTERNATE #1.

					AIRFLOW			ELECTRICAL					
TAG	LOCATION	SERVICE	TYPE	DRIVE	MAX (CFM)	ESP (IN WG)	FAN SPEED (RPM)	INPUT POWER (W)	VOLT/ PHASE	BACKUP POWER (Y/N)	APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
EF-1	STORAGE 04	RESTROOMS	IN-LINE	DIRECT	300	0.5	2,321	80	120/1	N	20	FANTECH FG	1, 2, 3
EF-2	YOUTH STAFF	FAMILY RR	IN-LINE	DIRECT	120	0.5	1,626	80	120/1	N	20	FANTECH FG	1, 2

DIFFUSERS AND GRILLES

GENERAL NOTES:
A. NOISE CRITERIA (NC) BASED ON ROOM ABSORPTION OF 10 dB, MEASURED PER ANSI/ASHRAE STANDARD 70.
B. THROW VALUES GIVEN FOR TERMINAL VELOCITIES 150, 100, AND 50 FPM FOR ISOTHERMAL CONDITIONS.
C. ADJUST THROW DIRECTION AND QUANTITY PRIOR TO AIR BALANCING.
NOTES:
1. 4-WAY THROW UNLESS NOTED OTHERWISE ON PLANS. THROW (FT) BASED ON 4-WAY THROW.
2. PROVIDE LINED SHEET METAL PLENUM; SEE DETAILS.
3. PROVIDE CEILING MODULES COMPATIBLE WITH ARCH SYSTEM FOR FACE SIZES LESS THAN 24x24. COORD WITH GC.

			AIRFLOW RANGE		INLET	FACE SIZE					
			MIN	MAX	SIZE	T-BAR	HARD LID	MAX	THROW	MANUFACTURER	
TAG	TYPE	DESCRIPTION	(CFM)	(CFM)	(IN)	(IN)	(IN)	NC	(FT)	& MODEL	NOTES
C-1	CEILING SUPPLY DIFFUSER	ALUMINUM, MODULAR CORE, ADJUSTABLE 4-WAY THROW	0	100	6x6	12x12	10x10	15	2-6-8	PRICE AMCD	1,2,3
			101	170	8x8	12x12	12x12	16	4-7-10		1,2,3
			171	280	10x10	24x24	14x14	18	4-7-12		1,2
			281	400	12x12	24x24	16x16	19	7-11-16		1,2
C-2	CEILING RETURN/ EXHAUST GRILLE	ALUMINUM, LOUVERED FACE, 3/4-INCH BLADE SPACING, 45 DEG FIXED DEFLECTION	0	150	8x8	12x12	12x12	15	-	PRICE 630L	3
			151	360	12x12	24x24	16x16	18	-		3
			361	640	16x16	24x24	-	19	-		
			641	1,050	20x20	24x24	-	21	-		
			1,051	1,580	22x22	24x24	-	22	-		
C-8	CEILING TRANSFER	SIM. TO C-2	-	-	10x10	12x12	12x12	15	-	PRICE 630L	
C-9			-	-	22x22	24x24	24x24	15	-		

DUCT COIL SCHEDULE

GENERAL NOTES:
A. UON, HEATING CAPACITY BASED ON 55°F EAT, 90°F LAT, 180°F EWT, 20°F WTD, 25% PROP. GLYCOL
B. MAXIMUM FINS PER INCH = 8. MINIMUM 2 ROWS.
C. MAXIMUM WATER PRESSURE DROP = 8 FT WG
D. MAXIMUM AIR PRESSURE DROP = 0.25 IN WG
NOTES:
1. 40°F EAT, 55°F LAT
2. PROVIDE PRESSURE INDEPENDENT CONTROL VALVE
3. PROVIDE THREE-WAY VALVE.

				HEATING			DIMENSIONS				
TAG	LOCATION	SERVICE	AIRFLOW (CFM)	CAPACITY (MBH)	RUN-OUT (IN)	FLOW (GPM)	WIDTH (IN)	HEIGHT (IN)	MANUFACTURER & MODEL	NOTES
HC-1	MECHANICAL RM	1ST FLOOR SOUTH	4,700	178.5	1-1/2	18.5	48	24	AEROFIN	2
HC-2	YOUTH	CHILDREN'S	3,100	117.7	1-1/4	12.2	36	24	AEROFIN	2
HC-5	COLLECTIONS NORTH	COLLECTIONS NORTH	4,100	155.0	1-1/2	16.0	48	24	AEROFIN	2
HC-6	COLLECTIONS EAST	COLLECTIONS EAST	3,600	136.7	1-1/2	14.2	36	24	AEROFIN	2
HC-7	TEEN	TEEN	800	30.4	3/4	3.1	18	12	AEROFIN	3
HC-8	MULTI-PURPOSE	MULTI-PURPOSE	600	9.7	3/4	1.0	16	12	AEROFIN	1, 3

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/28/2026 2:39:29 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

EQUIPMENT SCHEDULE - MECHANICAL

M003

SPLIT SYSTEM HEAT PUMP SCHEDULE

GENERAL NOTES:
A. MINIMUM EFFICIENCY IS AT AHRI STANDARD CONDITIONS.
B. PROVIDE WASHABLE MERV 8 FILTERS IN WALL-MOUNT UNITS.
C. PROVIDE REPLACEABLE MERV 8 FILTERS FOR DUCTED UNITS. PROVIDE 0.5-INCH W.G. DIRTY FILTER ALLOWANCE. SCHEDULED ESP DOES NOT INCLUDE DIRTY FILTER.
D. CONTRACTOR TO VERIFY FINAL LINE LENGTHS AND REFRIGERANT CHARGE PRIOR TO INSTALLATION.
NOTES:
1. INTEGRAL CONDENSATE PUMP (INDOOR UNIT). SEE PLUMBING DRAWINGS FOR CONDENSATE ROUTING.
2. INTEGRAL SOFT START ON OUTDOOR UNIT.
3. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT.
4. EXTERNAL CONDENSATE PUMP. BASIS OF DESIGN: LITTLE GIANT EC-1U-DV, 2.5GPH, 120V/1PH, 18 WATTS, INTEGRAL CONTROLS. SEE PLUMBING DRAWINGS FOR CONDENSATE ROUTING.
5. ALTERNATE #2.

						COOLING CAPACITY			HEATING...		DESIGN...		MIN EFFICIENCY		REFRIGERANT		IDU ELECTRICAL			ODU ELECTRICAL			APPROX.	APPROX. WEIGHT		
TAG	LOCATION	SERVICE	TYPE	AIRFLOW (CFM)	ESP (IN. W.G.)	SENSIBLE (TONS)	TOTAL (TONS)	EAT (°F DB/WB)	TOTAL (MBH)	EAT (°F)	SEER2	HSPF	SEER2	HSPF2	TYPE	CHARGE (LBS)	VOLT/ PHASE	MCA (A)	MOCP (A)	VOLT/ PHASE	MCA (A)	MOCP (A)	LINE LENGTH (LF)	(ODU / IDU) (LBS)	MFR & MODEL	NOTES
ODU-2 / FCU-5	ROOF/BASEMENT	MULTI-PURPOSE RM	DUCTED	1520	0.5	2.9	4.3	78/64	14	70	16	8.5	14.3	7.5	R-32	7.5	208/1	3.6	15	208/1	34.6	35	120	250 / 120	DAIKIN	1, 2
ODU-3 / FCU-6	ROOF/LEVEL 1	FLEX MEETING SPACE	WALL-MOUNT	-	-	0.7	0.8	78/64	8	70	25.2	10.7	14.3	7.5	R-32	2.50	-	-	-	208/1	12.3	15	55	100 / 40	DAIKIN	2, 3, 4, 5
ODU-4 / FCU-22	ROOF/LEVEL 2	IT ROOM	WALL-MOUNT	-	-	2.0	2.1	78/64	-	-	22.0	10.0	14.3	7.5	R-32	3.00	-	-	-	208/1	19.8	20	20	140 / 40	DAIKIN	2, 3, 4

VRF OUTDOOR UNIT SCHEDULE

GENERAL NOTES:
A. MINIMUM EFFICIENCY IS AT AHRI STANDARD CONDITIONS.
B. PROVIDE SIZING FOR REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS BASED ON ACTUAL ROUTING OF REFRIGERANT LINES.
C. REFRIGERANT CHARGE INDICATED IS FOR THE EQUIPMENT ONLY. PROVIDE NECESSARY REFRIGERANT QUANTITY TO MEET THE REQUIREMENTS FOR THE SPECIFIC INSTALLATION.
D. SUPPLEMENTAL HEATING IS AUTOMATICALLY DISABLED AT OUTDOOR AIR TEMPERATURES ABOVE 40°F.
NOTES:
1. INTEGRAL SOFT START.

			MIN CAPACITY		DESIGN EFFIENCY		MIN EFFICIENCY		REFRIGERANT		ELECTRICAL				APPROX.		
TAG	LOCATION	SERVICE	COOLING (TON)	HEATING (MBH)	COOLING SEER2	HSPF2	COOLING SEER	HSPF	TYPE	CHARGE (LBS)	VOLT/ PHASE	MCA (A)	MOCP (A)	SCCR (A)	WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
ODU-1	ROOF	GROUND STAFF	5	57	20.5	9.50	13.0	7.70	R-32	8	208/1	34.6	35		250	DAIKIN	1
ODU-5	ROOF	2ND FLOOR	10	100					R-32	26	460/3	18.2	25		750	DAIKIN	1

VRF INDOOR UNIT SCHEDULE

GENERAL NOTES:
A. MINIMUM EFFICIENCY IS AT ARI STANDARD CONDITIONS.
B. ALL DUCTED AND CASSETTE UNITS ARE PROVIDED WITH AN INTEGRAL CONDENSATE PUMP CAPABLE OF 27 IN WG OF LIFT.
C. ALL FAN MOTORS ARE EC TYPE
D. DUCTWORK CONNECTED TO DUCTED FAN-COIL UNITS IS LOW PRESSURE
E. MINIMUM AND MAXIMUM ALLOWABLE SUPPLY AIR TEMPERATURES ARE 55°F AND 105°F, RESPECTIVELY.
F. PROVIDE REPLACEABLE MERV 8 FILTERS FOR DUCTED UNITS. PROVIDE 0.5-INCH W.G. DIRTY FILTER ALLOWANCE. SCHEDULED ESP DOES NOT INCLUDE DIRTY FILTER.
G. REFRIGERANT LEAK SENSORS AND SHUT-OFF VALVES FURNISHED STANDARD BY MANUFACTURER UNLESS OTHERWISE NOTED.
H. FOR SYSTEMS WITH HEAT REVOVERY BOXES, APPROXIMATE LINE LENGTH IS MEASURED FROM HEAT RECOVERY BOX TO INDOOR UNIT.
NOTES:
1. PROVIDE REFRIGERANT LEAK SENSOR.
2. INTEGRAL CONDENSATE PUMP (INDOOR UNIT). SEE PLUMBING DRAWINGS FOR CONDENSATE ROUTING.
3. EXTERNAL CONDENSATE PUMP. BASIS OF DESIGN: LITTLE GIANT EC-1U-DV, 2.5GPH, 120V/1PH, 18 WATTS, INTEGRAL FLOAT CONTROL. SEE PLUMBING DRAWINGS FOR CONDENSATE ROUTING.

			HEAT				COOLING			HEATING CAPACITY		ELECTRICAL				APPROX.	APPROX.		
TAG	LOCATION	OUTDOOR UNIT	RECOVERY BOX	TYPE	AIRFLOW (CFM)	ESP (IN. W.G.)	SENSIBLE (TONS)	TOTAL (TONS)	EAT (°F DB/WB)	TOTAL (MBH)	EAT (°F)	VOLT/ PHASE	MCA (A)	MOCP (A)	CONDENSATE PUMP	LINE LENGTH (LF)	WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
FCU-1	YOUTH STAFF	ODU-1	-	DUCTED	1,130	0.5	2.1	3.0	78/64	3.3	68	208/1	2.5	15	INTEGRAL	65	120	DAIKIN	1, 2
FCU-2	BREAK ROOM	ODU-1	-	DUCTED	750	0.5	1.7	2.0	78/64	2.3	68	208/1	1.8	15	INTEGRAL	90	80	DAIKIN	1, 2
FCU-3	MOTHERS	ODU-1	-	DUCTED	300	0.5	0.2	0.5	78/64	0.6	68	208/1	0.8	15	INTEGRAL	105	60	DAIKIN	1, 2
FCU-4	FRIENDS OF THE LIBRARY	ODU-1	-	DUCTED	300	0.5	0.4	0.6	78/64	0.7	68	208/1	0.8	15	INTEGRAL	120	60	DAIKIN	1, 2
FCU-7	OPEN WORK PLAN	ODU-5	HR-5-1	DUCTED	340	0.5	0.7	1.0	78/64	13	68	208/1	0.8	15	INTEGRAL	50	80	DAIKIN	2
FCU-8	OPEN WORK PLAN	ODU-5	HR-5-1	DUCTED	320	0.5	0.5	0.75	80/67	10	68	208/1	0.8	15	INTEGRAL	70	80	DAIKIN	2
FCU-9	OPEN WORK PLAN	ODU-5	HR-5-1	DUCTED	640	0.5	1.1	1.5	80/67	15	68	208/1	1.9	15	INTEGRAL	55	100	DAIKIN	2
FCU-10	OFFICE	ODU-5	HR-5-1	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	EXTERNAL	60	40	DAIKIN	3
FCU-11	OFFICE 230	ODU-5	HR-5-2	WALL-MOUNT	-	-	0.6	0.75	80/67	9	68	208/1	0.3	15	EXTERNAL	40	40	DAIKIN	3
FCU-12	OFFICE	ODU-5	HR-5-2	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	EXTERNAL	50	40	DAIKIN	3
FCU-13	OFFICE	ODU-5	HR-5-2	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	EXTERNAL	50	40	DAIKIN	3
FCU-14	OFFICE	ODU-5	HR-5-2	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	EXTERNAL	75	40	DAIKIN	3
FCU-15	OFFICE	ODU-5	HR-5-2	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	EXTERNAL	70	40	DAIKIN	3
FCU-16	DIRECTOR'S OFFICE	ODU-5	HR-5-2	WALL-MOUNT	-	-	0.6	0.75	80/67	9	68	208/1	0.3	15	EXTERNAL	80	40	DAIKIN	3
FCU-17	TOOLS	ODU-5	HR-5-2	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	EXTERNAL	25	40	DAIKIN	3
FCU-18	MEETING	ODU-5	HR-5-1	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	EXTERNAL	50	40	DAIKIN	3
FCU-19	WORKROOM	ODU-5	HR-5-1	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	EXTERNAL	60	40	DAIKIN	3
FCU-20	ASSISTANT OFFICE	ODU-5	HR-5-1	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	EXTERNAL	80	40	DAIKIN	3
FCU-21	BOARD ROOM	ODU-5	HR-5-2	WALL-MOUNT			1.0	1.5	80/67	16	68	208/1	0.4	15	EXTERNAL	110	50	DAIKIN	3

VRF HEAT RECOVERY BOX SCHEDULE

GENERAL NOTES:
A. PROVIDE ISOLATION BALL VALVES FOR EACH REFRIGERANT BRANCH.
B. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS BASED ON FINAL COORDINATED ROUTING.
C.APPROXIMATE LINE LENGTH IS MEASURED FROM OUTDOOR UNIT TO HEAT RECOVERY BOX.
NOTES:
1. NONE

			ELECTRICAL			BACKUP POWER	APPROX LINE	APPROX. WEIGHT		
TAG	OUTDOOR UNIT	LOCATION	VOLT/ PHASE	MCA (A)	MOCP (A)	(Y/N)	LENGTH (LF)	(LBS)	MANUFACTURER & MODEL	NOTES
HR-5-1	ODU-5	LEVEL 2	208/1	1.9	15	NO	20	125	DAIKIN	
HR-5-2	ODU-5	LEVEL 2	208/1	1.9	15	NO	20	125	DAIKIN	

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

EQUIPMENT SCHEDULE - MECHANICAL

M004

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/30/2026 2:58:30 PM

WSEC 2021 - COMMISSIONING

GENERAL

THE FOLLOWING SECTIONS IN THIS TABLE ARE REQUIRED TO BE PERFORMED AND COMPLETED BY A CERTIFIED COMMISSIONING PROFESSIONAL.

COMMISSIONING PLAN

COMMISSIONING PLAN REQUIRED TO BE DEVELOPED BY A CERTIFIED COMMISSIONING PROFESSIONAL COMPLYING WITH ALL THE REQUIREMENTS LISTED IN THE WSEC SECTION C408.1.

COMMISSIONED SYSTEMS

COMMISSIONING FOR MECHANICAL SYSTEMS MUST BE COMPLETED BY A CERTIFIED COMMISSIONING PROFESSIONAL FOR ALL SYSTEMS LISTED IN WASHINGTON STATE ENERGY CODE (WSEC) SECTION C408.1.

ALL HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH WSEC SECTION C408.2.2.

FUNCTIONAL PERFORMANCE TESTS SHALL BE PERFORMED ON ALL EQUIPMENT, SYSTEMS AND CONTROLS IN ACCORDANCE WITH WSEC SECTION C408.2.3. WRITTEN TEST PROCEDURES AND RESULTS SHALL BE DOCUMENTED. TESTS SHALL INCLUDE ALL MODES AND SEQUENCE OF OPERATION INCLUDING FULL-LOAD, PART-LOAD AND EMERGENCY CONDITIONS LISTED IN WSEC SECTION C408.2.3.1.

VERIFY SERVICE HOT WATER HEATING SYSTEMS COMMISSIONING SATISFIES ALL THE REQUIREMENTS OF WSEC SECTION C408.4.

VERIFY METERING SYSTEM COMMISSIONING SATISFIES ALL THE REQUIREMENTS OF WSEC SECTION C408.6.

SUPPORTING DOCUMENTS (C103.6)

SYSTEM DOCUMENTATION AND MANUALS TO BE PROVIDED TO OWNER PRIOR TO CERTIFICATION.
RECORD DOCUMENTS TO BE PROVIDED TO OWNER PRIOR TO CERTIFICATION.
TRAINING WILL BE PROVIDED TO THE OWNER PRIOR TO CERTIFICATION.

PRELIMINARY COMMISSIONING REPORT (C408.1.4.1)

PRELIMINARY COMMISSION TO BE PROVIDED TO OWNER WILL INCLUDE:

1. ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING THAT ARE PART OF THE ENERGY CODE AND THAT WERE NOT CORRECTED BY THE TIME OF REPORT PREPARATION.
2. DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION WITH THE ANTICIPATED COMPLETION DATE.
3. STATUS OF THE PROJECT SUPPORTING DOCUMENTS (SEE ABOVE).

FINAL COMMISSIONING REPORT (C408.1.3)

PROVIDE A FINAL COMMISSIONING REPORT, INCLUDING ALL THE REQUIREMENTS STATED IN SECTION C408.1.3, COMPLETED AND CERTIFIED BY THE CERTIFIED COMMISSIONING PROFESSIONAL AND DELIVERED TO THE BUILDING OWNER PRIOR TO THE FINAL INSPECTIONS OR OBTAINING A CERTIFICATE OF OCCUPANCY.
INCLUDE THE FOLLOWING IN THE REPORT:

1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
3. FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR REPEATABILITY.

DESIGN CONDITIONS - BELLINGHAM WA

GENERAL NOTES:

A. INDOOR AND OUTDOOR TEMPERATURE CONDITIONS BASED ON 2021 WASHINGTON STATE ENERGY CODE APPENDIX C.
B. INDOOR AND OUTDOOR HUMIDITY CONDITIONS BASED ON ASHRAE STANDARD 62.1-2019 AND FUNDAMENTALS 2021 99.6% AND 0.4% DATA.

SPACE	WINTER		SUMMER	
	TEMPERATURE	HUMIDITY	TEMPERATURE	HUMIDITY
OUTDOOR	19˚ F DB	2.6˚ F DP / 6.3 HR / 25.7 ˚ F MCDB	78˚ F DB / 65˚ F MCWB	61.7˚ F DP / 82.6 HR / 70.7˚ F MCDB
INDOOR	72˚ F ± 2˚ F DB	60˚ F DP MAX, NO MINIMUM	75˚ F ± 2˚ F DB	60˚ F DP MAX, NO MINIMUM

MINIMUM NOMINAL FULL-LOAD EFFICIENCY (%) (WASHINGTON)

GENERAL NOTES:

A. NOMINAL EFFICIENCIES SHALL BE ESTABLISHED IN ACCORDANCE WITH DOE 10 CFR 431.
B. FOR PURPOSES OF DETERMINING THE REQUIRED MINIMUM NOMINAL FULL-LOAD EFFICIENCY OF AN ELECTRIC MOTOR THAT HAS A HORSEPOWER OR KILOWATT RATING BETWEEN TWO HORSEPOWER OR TWO KILOWATT RATINGS LISTED IN THIS TABLE, EACH SUCH MOTOR SHALL BE DEEMED TO HAVE A LISTED HORSEPOWER OR KILOWATT RATING, DETERMINED AS FOLLOWS:
   1. A HORSEPOWER AT OR ABOVE THE MIDPOINT BETWEEN THE TWO CONSECUTIVE HORSEPOWERS SHALL BE ROUNDED UP TO THE HIGHER OF THE TWO HORSEPOWERS.
   2. A HORSEPOWER BELOW THE MIDPOINT BETWEEN THE TWO CONSECUTIVE HORSEPOWERS SHALL BE ROUNDED DOWN TO THE LOWER OF THE TWO HORSEPOWERS.
   3. A KILOWATT RATING SHALL BE DIRECTLY CONVERTED FROM KILOWATTS TO HORSEPOWER USING THE FORMULA 1 KW = (1/0.746) HORSEPOWER. THE CONVERSION SHOULD BE CALCULATED TO THREE SIGNIFICANT DECIMAL PLACES, AND THE RESULTING HORSEPOWER SHALL BE ROUNDED IN ACCORDANCE WITH 1 OR 2,WHICHEVER APPLIES.

MOTOR		NEMA DESIGN A, NEMA DESIGN B, AND IEC DESIGN N MOTORS (EXCLUDING FIRE PUMP)								NEMA DESIGN C AND IEC DESIGN H MOTORS AT 60HZ					
		2 POLE		4 POLE		6 POLE		8 POLE		4 POLE		6 POLE		8 POLE	
HP	KW	ENCLOSED	OPEN	ENCLOSED	OPEN	ENCLOSED	OPEN	ENCLOSED	OPEN	ENCLOSED	OPEN	ENCLOSED	OPEN	ENCLOSED	OPEN
1	0.75	77	77	85.5	85.5	82.5	82.5	75.5	75.5	85.5	85.5	82.5	82.5	75.5	75.5
1.5	1.1	84	84	86.5	86.5	87.5	86.5	78.5	77.5	86.5	86.5	87.5	86.5	78.5	77.5
2	1.5	85.5	85.5	86.5	86.5	88.5	87.5	84	86.5	86.5	86.5	88.5	87.5	84	86.5
3	2.2	86.5	85.5	89.5	89.5	89.5	88.5	85.5	87.5	89.5	89.5	89.5	88.5	85.5	87.5
5	3.7	88.5	86.5	89.5	89.5	89.5	89.5	86.5	88.5	89.5	89.5	89.5	89.5	86.5	88.5
7.5	5.5	89.5	88.5	91.7	91	91	90.2	86.5	89.5	91.7	91	91	90.2	86.5	89.5
10	7.5	90.2	89.5	91.7	91.7	91	91.7	89.5	90.2	91.7	91.7	91	91.7	89.5	90.2
15	11	91	90.2	92.4	93	91.7	91.7	89.5	90.2	92.4	93	91.7	91.7	89.5	90.2
20	15	91	91	93	93	91.7	92.4	90.2	91	93	93	91.7	92.4	90.2	91
25	18.5	91.7	91.7	93.6	93.6	93	93	90.2	91	93.6	93.6	93	93	90.2	91
30	22	91.7	91.7	93.6	94.1	93	93.6	91.7	91.7	93.6	94.1	93	93.6	91.7	91.7
40	30	92.4	92.4	94.1	94.1	94.1	94.1	91.7	91.7	94.1	94.1	94.1	94.1	91.7	91.7
50	37	93	93	94.5	94.5	94.1	94.1	92.4	92.4	94.5	94.5	94.1	94.1	92.4	92.4
60	45	93.6	93.6	95	95	94.5	94.5	92.4	93	95	95	94.5	94.5	92.4	93
75	55	93.6	93.6	95.4	95	94.5	94.5	93.6	94.1	95.4	95	94.5	94.5	93.6	94.1
100	75	94.1	93.6	95.4	95.4	95	95	93.6	94.1	95.4	95.4	95	95	93.6	94.1
125	90	95	94.1	95.4	95.4	95	95	94.1	94.1	95.4	95.4	95	95	94.1	94.1
150	110	95	94.1	95.8	95.8	95.8	95.4	94.1	94.1	95.8	95.8	95.8	95.4	94.1	94.1
200	150	95.4	95	96.2	95.8	95.8	95.4	94.5	94.1	96.2	95.8	95.8	95.4	94.5	94.1
250	186	95.8	95	96.2	95.8	95.8	95.8	95	95						
300	224	95.8	95.4	96.2	95.8	95.8	95.8								
350	261	95.8	95.4	96.2	95.8	95.8	95.8								
400	298	95.8	95.8	96.2	95.8										
450	336	95.8	96.2	96.2	96.2										
500	373	95.8	96.2	96.2	96.2										

MINIMUM AVERAGE FULL-LOAD EFFICIENCY SMALL MOTORS (%) (WASHINGTON)

GENERAL NOTES:

A. AVERAGE FULL LOAD EFFICIENCIES SHALL BE ESTABLISHED IN ACCORDANCE WITH 10 CFR 431

MOTOR HP	OPEN MOTORS					
	POLYPHASE			CAPACITOR & INDUCTION		
NUMBER OF POLES	2	4	6	2	4	6
SYNCHRONOUS SPEED (RPM)	3,600	1,800	1,200	3,600	1,800	1,200
0.25	65.6	69.5	67.5	66.6	68.5	62.2
0.33	69.5	73.4	71.4	70.5	72.4	66.6
0.5	73.4	78.2	75.3	72.4	76.2	76.2
0.75	76.8	81.1	81.7	76.2	81.8	80.2
1	77	83.5	82.5	80.4	82.6	81.1
1.5	84	86.5	83.8	81.5	83.8	
2	85.5	86.5		82.9	84.5	
3	85.5	86.9		84.1		

VENTILATION SCHEDULE - MULTIPLE SPACES - WASHINGTON

GENERAL NOTES:

A. SYSTEM OUTDOOR AIR CALCULATION IS BASED ON THE SECTION 403 OF THE 2021 INTERNATIONAL MECHANICAL CODE WITH WASHINGTON AMMENDMENTS.
B. REFER TO AIR HANDLING UNIT SCHEDULE FOR ACTUAL OUTDOOR AIR FLOW RATE.

NOTES:

1. DESIGN OCCUPANCY REPRESENTS THE ACTUAL OCCUPANCY DOCUMENTED ON THE PLANS, WHICH IS NOT LESS THAN 1/2 THE CODE OCCUPANCY.

	AHU-XXX												
LOCATION	FLOOR AREA (SF)	PRIMARY AIRFLOW RATE (CFM)	OCCUPANCY CLASSIFICATION	PEOPLE OUTDOOR AIRFLOW RATE Rp (CFM/PERSON)	AREA OUTDOOR AIRFLOW RATE Ra (CFM/SF)	DEFAULT OCCUPANT DENSITY (PEOPLE/1000SF)	CODE POPULATION	DESIGN POPULATION	OUTDOOR AIRFLOW RATE Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	OUTDOOR AIR INTAKE Voz (CFM)	PRIMARY OUTDOOR AIR FRACTION Zp	NOTES
G-005-YOUTH STAFF	745	88	Office spaces	5	0.06	5	3.7	5.0	69.7	0.8	88	1	
G-010 STAFF BREAK ROOM	690	115	Office spaces	5	0.06	5	3.5	10.0	91.4	0.8	115	1	
G-015-MOTHERS	140	17	Office spaces	5	0.06	5	0.7	1.0	13.4	0.8	17	1	
G-020-FRIENDS OF THE LIBRARY	254	32	Office spaces	5	0.06	5	1.3	2.0	25.2	0.8	32	1	
G-025-TEEN BOOKS	1025	354	Classrooms (age 9 plus)	10	0.12	35	35.9	16.0	283.0	0.8	354	1	
G-030-MULTIPURPOSE RM	1282	584	Multipurpose assembly	5	0.06	120	153.8	78.0	466.9	0.8	584	1	
01-005-FLEX RM	363	78	Conference/meeting	5	0.06	50	18.2	8.0	61.8	0.8	78	1	
02-005-OPEN OFFICE NW	576	69	Office spaces	5	0.06	5	2.9	4.0	54.6	0.8	69	1	
02-010-OPEN OFFICE N	400	55	Office spaces	5	0.06	5	2.0	4.0	44.0	0.8	55	1	
02-015-OPEN OFFICE C	1000	113	Office spaces	5	0.06	5	5.0	6.0	90.0	0.8	113	1	
02-020-TOOLS	200	28	Office spaces	5	0.06	5	1.0	2.0	22.0	0.8	28	1	
02-025-STORAGE	135	0		-	-	-	-	0.0	-	0.8	-	-	
02-030-CIRCULATION	936	71	Corridors	--	0.06	--	0.0	0.0	56.2	0.8	71	1	
02-035-IT OFFICE	380	48	Office spaces	5	0.06	5	1.9	3.0	37.8	0.8	48	1	
02-040-IT RACKS	82	0		-	-	-	-	0.0	-	0.8	-	-	
02-045-OFFICE E	64	12	Office spaces	5	0.06	5	0.3	1.0	8.8	0.8	12	1	
02-050-MEETING	167	44	Conference/meeting	5	0.06	50	8.4	5.0	35.0	0.8	44	1	
02-055-WORKROOM	230	30	Office spaces	5	0.06	5	1.2	2.0	23.8	0.8	30	1	
02-060-ASSISTANT OFFICE	198	28	Office spaces	5	0.06	5	1.0	2.0	21.9	0.8	28	1	
02-065-OFFICE SW	175	26	Office spaces	5	0.06	5	0.9	2.0	20.5	0.8	26	1	
02-070-OFFICE S#1	152	24	Office spaces	5	0.06	5	0.8	2.0	19.1	0.8	24	1	
02-075-OFFICE S#2	152	24	Office spaces	5	0.06	5	0.8	2.0	19.1	0.8	24	1	
02-080-OFFICE S#3	152	24	Office spaces	5	0.06	5	0.8	2.0	19.1	0.8	24	1	
02-085-OFFICE S#4	152	24	Office spaces	5	0.06	5	0.8	2.0	19.1	0.8	24	1	
02-090-DIRECTOR OFFICE	152	31	Office spaces	5	0.06	5	0.8	3.0	24.1	0.8	31	1	
02-095-BOARDROOM	429	120	Conference/meeting	5	0.06	50	21.5	14.0	95.7	0.8	120	1	
TOTALS:	10231	2039					267	176	1622		2039	Zp max = 1.00	

TOTAL AIRFLOW: 2,039
SYSTEM POPULATION: 150

SYSTEM VENTILATION EFFICIENCY - Ev: 0.73
OCCUPANT DIVERSITY - D: 0.85
UNCORRECTED OUTDOOR AIR INTAKE - Vou: 1,481
CODE REQUIRED OUTDOOR AIR INTAKE FLOWRATE - Vot: 2,039

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
6/4/2026 2:38:32 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CODE COMPLIANCE - MECHANICAL

M005

MINIMUM DUCT AND PLENUM INSULATION (WASHINGTON - 4C)

GENERAL NOTES:

A. REFER TO SPECIFICATION 23 07 13 DUCT INSULATION AND WASHINGTON STATE ENERGY CODE C403.10.1; TABLES C403.10.1.1 AND C403.10.1.2 FOR ADDITIONAL REQUIREMENTS.
B. INSULATION R-VALUE AND THICKNESS ARE FOR THE INSULATION AS INSTALLED WITH MAXIMUM THERMAL CONDUCTIVITY OF 0.27 BTU·IN/(H·SF·°F) FOR FIBERGLASS WRAP BASED ON 25% COMPRESSION AND 0.24 BTU·IN/(H·SF·°F) FOR FIBERGLASS LINER WHEN TESTED IN ACCORDANCE WITH ASTM C518 AT 75°F MEAN TEMPERATURE.
C. OUTSIDE THE BUILDING INCLUDES ATTICS ABOVE INSULATED CEILINGS, PARKING GARAGES AND CRAWL SPACES.

NOTES:

1. INSULATION THICKNESS FOR SOUND ATTENUATION, PROVIDE INSULATION THICKNESS NO LESS THAN AS REQUIRED FOR THERMAL INSULATION AND SOUND ATTENUATION.
   MINIMUM SOUND ABSORPTION COEFFICIENTS:
   1-INCH THICKNESS: MINIMUM NRC 0.70
   1.5-INCH THICKNESS: MINIMUM NRC 0.85
   2-INCH THICKNESS: MINIMUM NRC 0.95
2. GREASE EXHAUST DUCTS INSTALLED WITHIN 18 INCHES OF COMBUSTIBLE CONSTRUCTION OR 6 INCHES OF NONCOMBUSTIBLE CONSTRUCTION TO BE PROVIDED WITH FIRE RATED DUCT ENCLOSURE; THICKNESS AS REQUIRED TO ACHIEVE ZERO CLEARANCE TO COMBUSTIBLES AND NOT LESS THAN 1 HOUR.
3. GREASE EXHAUST DUCTS PENETRATING CEILING, FLOOR, WALL, OR CONCEALED SPACE TO BE PROVIDED WITH FIRE RATED DUCT ENCLOSURE; THICKNESS AS REQUIRED TO ACHIEVE FIRE-RESISTANCE RATING OF NOT LESS THAN THAT OF THE ASSEMBLY PENETRATED AND NOT LESS THAN 1 HOUR.
4. DUCT OR PLENUM IS SEPARATED FROM BUILDING ENVELOPE ASSEMBLY WITH THE MINIMUM INSULATION VALUE.

SYSTEM	LOCATION		INSULATION TYPE	INSULATION R-VALUE	INSULATION THICKNESS (IN)	NOTES
OUTDOOR AIR ≥ 2,800 CFM	WITHIN CONDITIONED SPACE AND UPSTREAM OF AUTOMATIC SHUTOFF DAMPER		FIBERGLASS WRAP	R-16	5-3/4	
	WITHIN CONDITIONED SPACE AND DOWNSTREAM OF AUTOMATIC SHUTOFF DAMPER	EXPOSED OR VISIBLE	FIBERGLASS DUCT LINER	R-8	2	
		CONCEALED OR WITHIN MECHANICAL ROOMS	FIBERGLASS WRAP	R-8	3	
OUTDOOR AIR < 2,800 CFM	WITHIN CONDITIONED SPACE	EXPOSED OR VISIBLE	FIBERGLASS DUCT LINER	R-7	2	
		CONCEALED OR WITHIN MECHANICAL ROOMS	FIBERGLASS WRAP	R-7	3	
RELIEF AND EXHAUST AIR	WITHIN CONDITIONED SPACE AND DOWNSTREAM OF AUTOMATIC SHUTOFF DAMPER		FIBERGLASS WRAP	R-16	5-3/4	
	WITHIN CONDITIONED SPACE DOWNSTREAM OF ENERGY RECOVERY AND UPSTREAM OF AUTOMATIC SHUTOFF DAMPER	EXPOSED OR VISIBLE	FIBERGLASS DUCT LINER	R-8	2	
		CONCEALED OR WITHIN MECHANICAL ROOMS	FIBERGLASS WRAP	R-8	3	
	WITHIN 15 FEET OF DUCTED FAN		FIBERGLASS DUCT LINER	-	1-1/2	1
SUPPLY AIR	OUTSIDE THE BUILDING (OUTDOORS AND EXPOSED TO WEATHER)		FIBERGLASS DUCT LINER	R-8	2	
	UNCONDITIONED SPACE	ENCLOSED BUT NOT IN CONDITIONED ENVELOPE	FIBERGLASS WRAP	R-6	2-1/5	
		15°F BETWEEN INSIDE AND OUTSIDE OF DUCT	FIBERGLASS WRAP	R-3.3	1-1/2	3
	LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY		FIBERGLASS WRAP	R-16	5-3/4	4
	WITHIN CONDITIONED SPACE AND SUPPLY AIR < 55°F OR > 105°F	EXPOSED OR VISIBLE	FIBERGLASS DUCT LINER	R-3.3	1	2
		CONCEALED OR WITHIN MECHANICAL ROOMS	FIBERGLASS WRAP	R-3.3	1-1/2	2
	WITHIN 15 FEET OF DUCTED FAN		FIBERGLASS DUCT LINER	-	1-1/2	1
	DOWNSTREAM OF AIR TERMINAL UNITS		FIBERGLASS DUCT LINER	-	1-1/2	1
RETURN AIR	OUTSIDE THE BUILDING (OUTDOORS AND EXPOSED TO WEATHER)		FIBERGLASS DUCT LINER	R-8	2	
	UNCONDITIONED SPACE	ENCLOSED BUT NOT IN CONDITIONED ENVELOPE	FIBERGLASS WRAP	R-6	2-1/5	
		15°F BETWEEN INSIDE AND OUTSIDE OF DUCT	FIBERGLASS WRAP	R-3.3	1-1/2	3
	LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY		FIBERGLASS WRAP	R-16	5-3/4	4
	WITHIN 15 FEET OF DUCTED FAN		FIBERGLASS DUCT LINER	-	1-1/2	1
TRANSFER AIR	ALL LOCATIONS		FIBERGLASS DUCT LINER	-	1-1/2	1
GREASE EXHAUST	ALL LOCATIONS		DUCT ENCLOSURE, FIRE RATED	-	-	2, 3

MINIMUM PIPE INSULATION - WASHINGTON

GENERAL NOTES:

A. REFER TO SPECIFICATION 23 07 19 HVAC PIPING INSULATION AND WASHINGTON STATE ENERGY CODE C403.10.3 FOR ADDITIONAL REQUIREMENTS.
B. FOR PIPING SMALLER THAN 1-1/2 INCH AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION FOR THESE THICKNESSES BY 1 INCH (25 MM) IS PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN GENERAL NOTE D) BUT NOT TO A THICKNESS LESS THAN 1 INCH.
C. FOR DIRECT-BURIED HEATING AND HOT WATER SYSTEM PIPING, REDUCTION OF THESE THICKNESSES BY 1-1/2 INCHES IS PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN NOTE D) BUT NOT TO THICKNESSES LESS THAN 1 INCH.
D. MINIMUM PIPE INSULATION THICKNESSES BASED ON THERMAL CONDUCTIVITY RANGES STIPULATED IN WASHINGTON STATE ENERGY CODE TABLE C403.10.3. FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, DETERMINE THE MINIMUM THICKNESS (T) AS FOLLOWS:
   T = r{(1 + t/r)^(K/k) - 1}
   WHERE:
   T = MINIMUM INSULATION THICKNESS
   r = ACTUAL OUTSIDE RADIUS OF THE PIPE
   t = INSULATION THICKNESS LISTED IN THE TABLE FOR APPLICABLE FLUID TEMPERATURE AND PIPE SIZE
   K = CONDUCTIVITY OF ALTERNATE MATERIAL AT MEAN RATING TEMPERATURE INDICATED FOR THE APPLICABLE FLUID TEMPERATURE (BTU-IN/(HR-SF-°F))
   k = THE UPPER VALUE OF THE CONDUCTIVITY RANGE LISTED INTHE TABLE FOR THE APPLCIABLE FLUID TEMPERATURE
E. COVER ALL PIPING WITH ALUMINUM PIPE JACKET WHERE EXPOSED TO WEATHER AND OVER HEAT TRACE CABLE WHERE INSTALLED. ELASTOMERIC INSULATION NOT ALLOWED OVER HEAT TRACE CABLE.

NOTES:

1. MINIMUM INSULATION THICKNESS AS REQUIRED BY CODE, REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.

PIPE SYSTEM	FLUID TEMPERATURE (DEGREES F)	INSULATION TYPE	PIPE SIZE (IN)	INSULATION THICKNESS (IN)	NOTES
LOW TEMPERATURE HEATING WATER	105 - 140	FIBERGLASS	< 1-1/2	1	
			≥ 1-1/2	1-1/2	
HEATING WATER	141 - 200	FIBERGLASS	< 1-1/2	1-1/2	
			≥ 1-1/2	2	
HIGH TEMPERATURE HEATING WATER	201 - 250	FIBERGLASS	< 4	2-1/2	
			≥ 4	3	
CONDENSATE OR OTHER COLD WATER DRAINS (WITHIN THE BUILDING)	-	ELASTOMERIC	ALL	1/2	
REFRIGERANT HIGH PRESSURE LIQUID	-	ELASTOMERIC	ALL	1	1
REFRIGERANT HIGH PRESSURE VAPOR (SUCTION)	-	ELASTOMERIC	ALL	2-1/2	1
REFRIGERANT LOW PRESSURE VAPOR (SUCTION)	-	ELASTOMERIC	< 1-1/2	1/2	1
			≥ 1-1/2	1	1

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/23-1065 - City of Bellingham Cent Lib Renv_MEPT23.rvt
8/29/2025 2:38:33 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

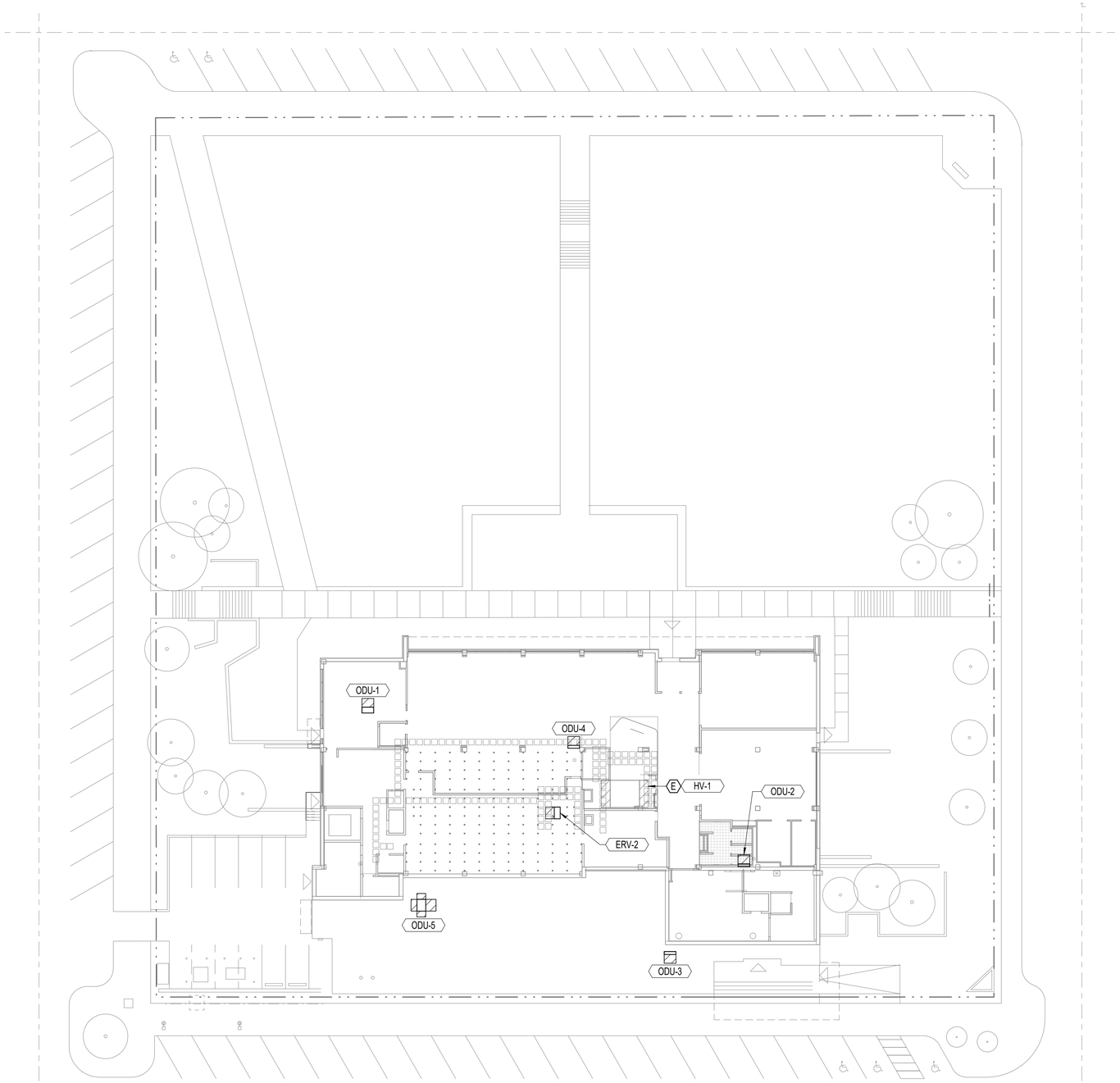
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CODE COMPLIANCE - MECHANICAL

M006



1 SITE PLAN - MECHANICAL
1" = 20'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SITE PLAN - MECHANICAL
M010

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/23-1065 - City of Bellingham Cent Lib Renv_MEPT25.rvt
9/29/2025 2:38:39 PM

(#) NOTES:

1. NEW TAG FOR EXISTING EQUIPMENT.
2. DRAIN/EVACUATE AND DEMOLISH EXISTING RADIANT PIPING. REMOVE EXISTING RADIANT MANIFOLD(S). FILL, CAP, AND ABANDON ANY INACCESSIBLE PIPING.

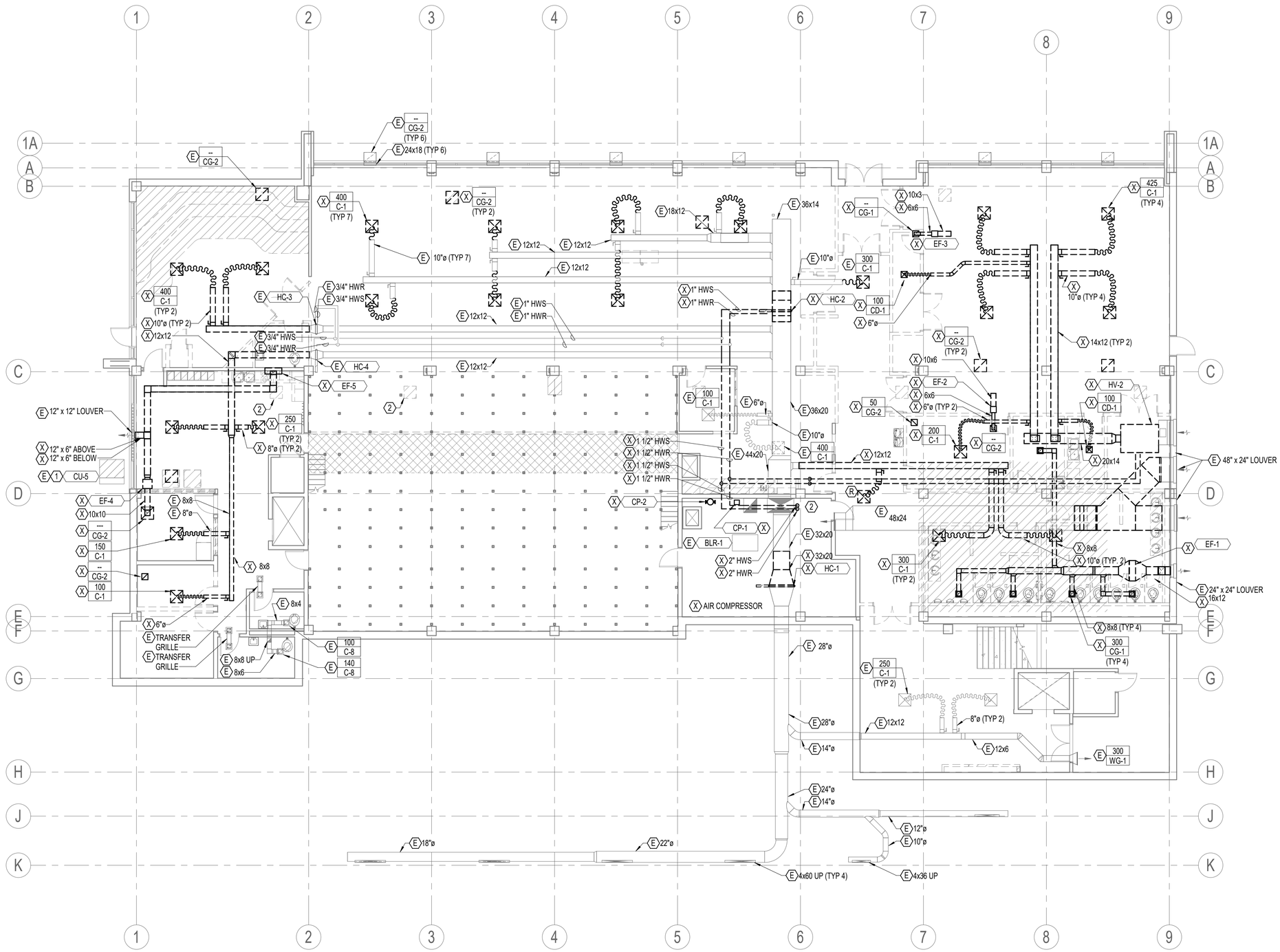
GENERAL NOTES:

A. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS.

B. OBTAIN AIRFLOW AND WATER FLOW MEASUREMETNS FOR THE EXISTING MECHANICAL SYSTEM PRIOR TO MODIFICATION OF THE EXISTING SYSTEM.

C. PATCH AND REPAIR OPENINGS MADE BY REMOVALS.

D. DEMOLITION WORK INCLUDES BUT IS NOT LIMITED TO REMOVAL OF EQUIPMENT, SUPPORTS, ANCHORS, PIPING, DUCTWORK AND APPURTENANCES. NO EXISTING WORK WILL BE ABANDONED IN PLACE.



1 GROUND LEVEL DEMOLITION PLAN - MECHANICAL
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEP25.rvt
9/30/2026 2:06:45 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

GROUND LEVEL DEMOLITION PLAN - MECHANICAL

MD101

(#) NOTES:

1. SPARE CAPACITY FROM 2020 REMODEL PROJECT.
2. DRAIN/EVACUATE AND DEMOLISH EXISTING RADIANT PIPING. REMOVE EXISTING RADIANT MANIFOLD(S). FILL, CAP, AND ABANDON ANY INACCESSIBLE PIPING.

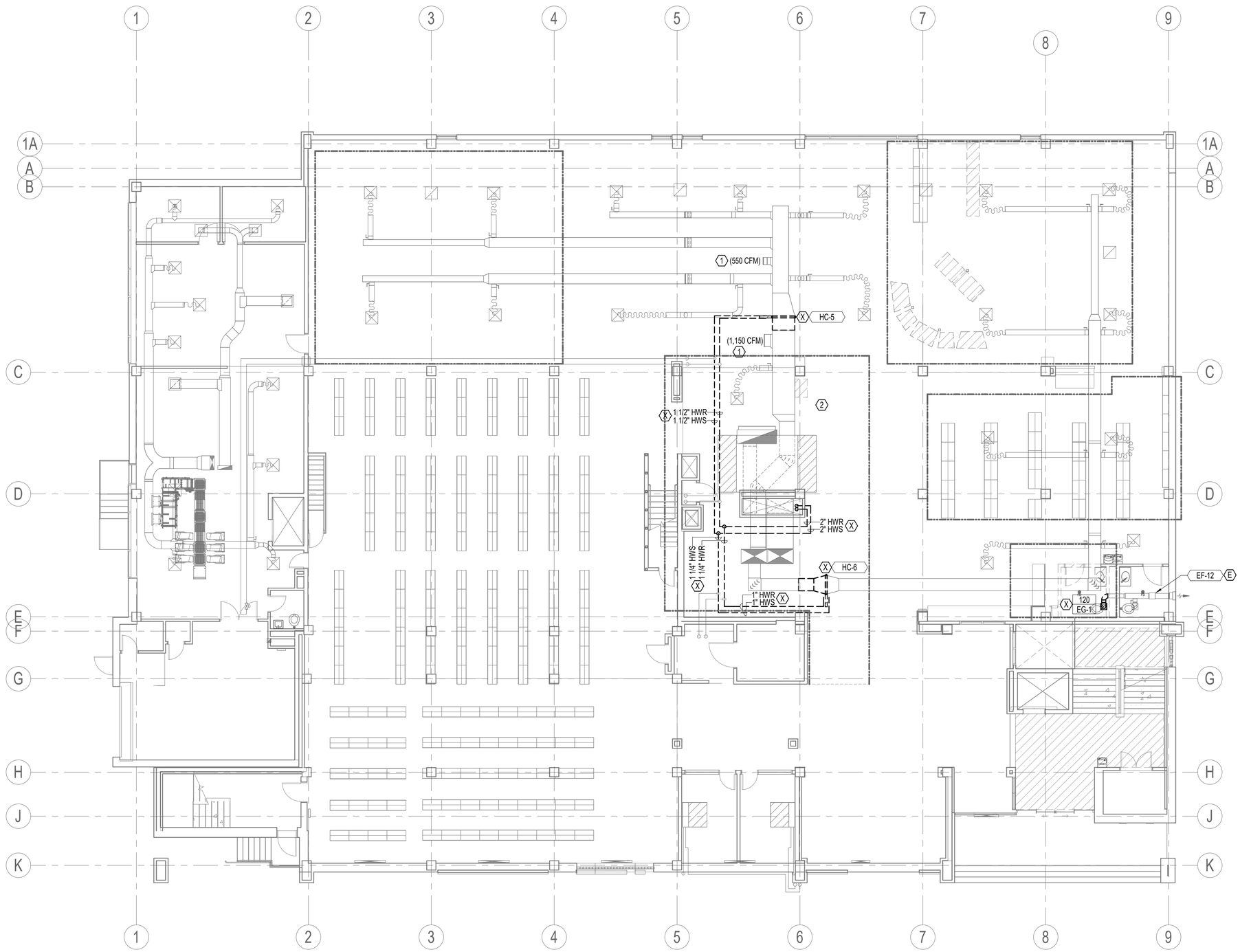
GENERAL NOTES:

A. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS.

B. OBTAIN AIRFLOW AND WATER FLOW MEASUREMETNS FOR THE EXISTING MECHANICAL SYSTEM PRIOR TO MODIFICATION OF THE EXISTING SYSTEM.

C. PATCH AND REPAIR OPENINGS MADE BY REMOVALS.

D. DEMOLITION WORK INCLUDES BUT IS NOT LIMITED TO REMOVAL OF EQUIPMENT, SUPPORTS, ANCHORS, PIPING, DUCTWORK AND APPURTENANCES. NO EXISTING WORK WILL BE ABANDONED IN PLACE.



1 FIRST FLOOR DEMO PLAN - MECHANICAL
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP123.rvt
9/30/2026 7:06:45 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

FIRST FLOOR DEMO PLAN - MECHANICAL
MD121

NOTES:

1. NEW TAG FOR EXISTING EQUIPMENT.
2. DEMOLISH UNIT CONNECTION AND DUCT ELBOW.

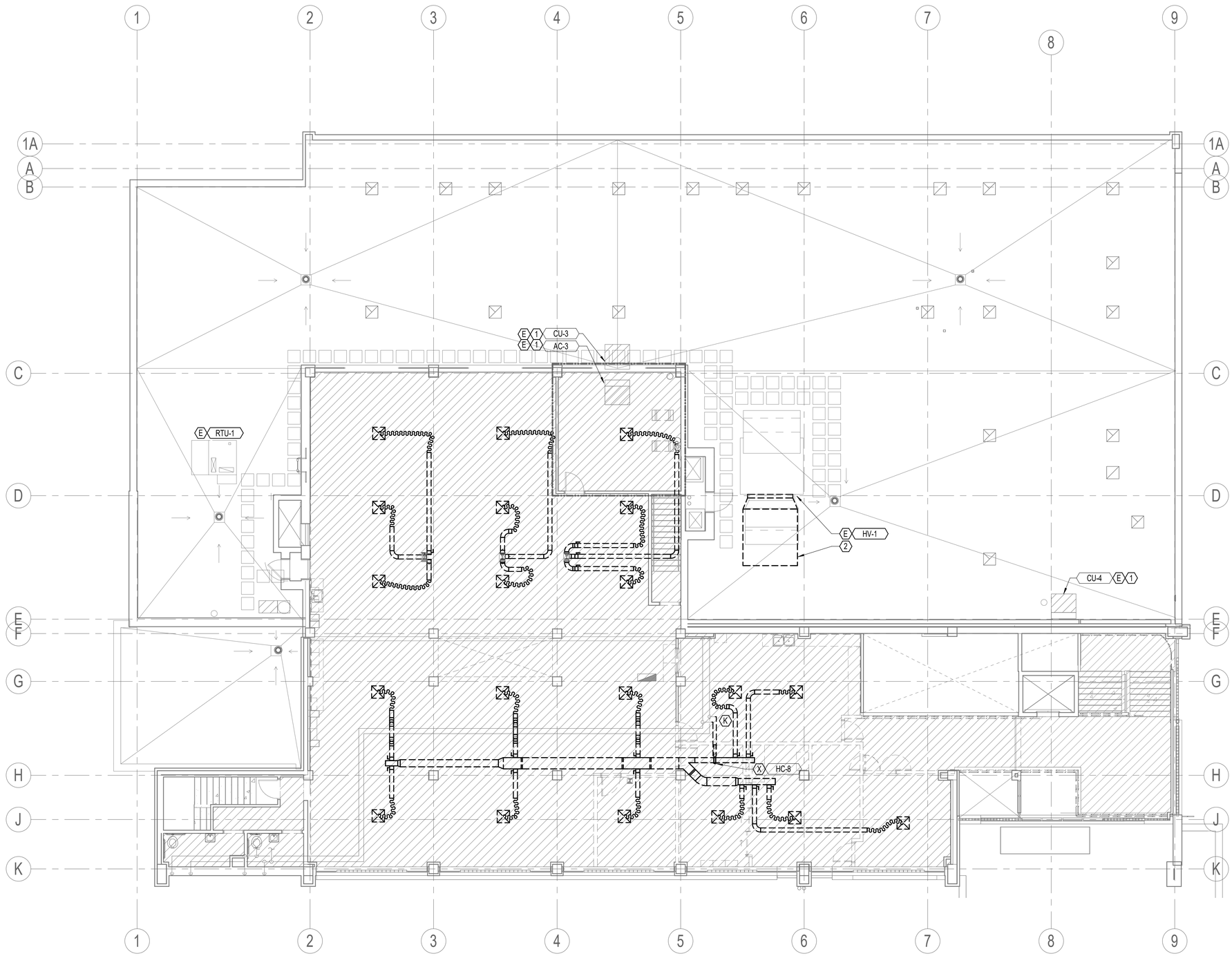
GENERAL NOTES:

A. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS.

B. OBTAIN AIRFLOW AND WATER FLOW MEASUREMETNS FOR THE EXISTING MECHANICAL SYSTEM PRIOR TO MODIFICATION OF THE EXISTING SYSTEM.

C. PATCH AND REPAIR OPENINGS MADE BY REMOVALS.

D. DEMOLITION WORK INCLUDES BUT IS NOT LIMITED TO REMOVAL OF EQUIPMENT, SUPPORTS, ANCHORS, PIPING, DUCTWORK AND APPURTENANCES. NO EXISTING WORK WILL BE ABANDONED IN PLACE.



1 SECOND FLOOR DEMO PLAN - MECHANICAL
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SECOND FLOOR DEMO PLAN - MECHANICAL

MD131

Autodesk Docs://23-1055 - City of Bellingham Cent Lib Renov/23-1055 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/30/2026 7:26:07 PM

(#) NOTES:

1. NONE.

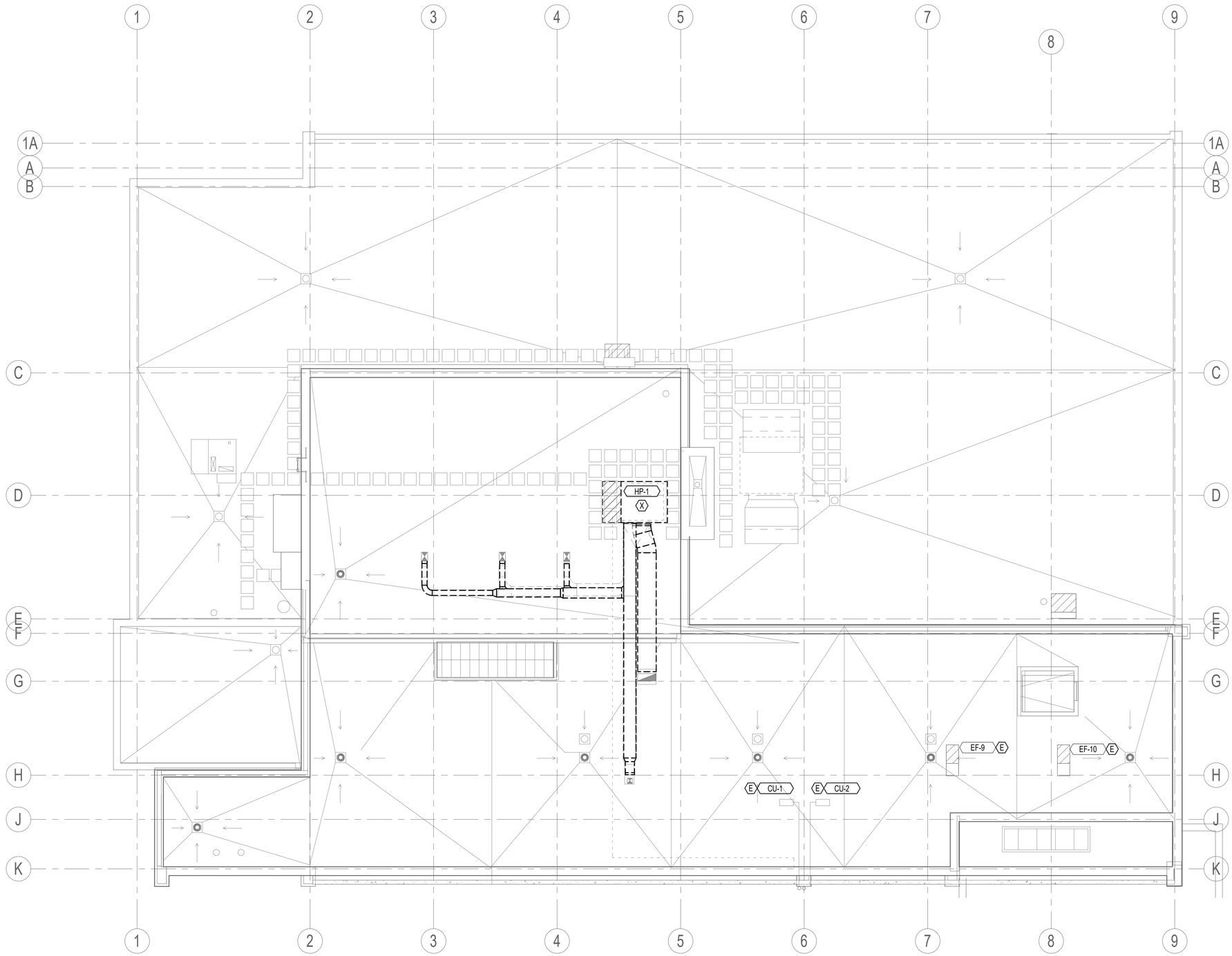
GENERAL NOTES:

A. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS.

B. OBTAIN AIRFLOW AND WATER FLOW MEASUREMETNS FOR THE EXISTING MECHANICAL SYSTEM PRIOR TO MODIFICATION OF THE EXISTING SYSTEM.

C. PATCH AND REPAIR OPENINGS MADE BY REMOVALS.

D. DEMOLITION WORK INCLUDES BUT IS NOT LIMITED TO REMOVAL OF EQUIPMENT, SUPPORTS, ANCHORS, PIPING, DUCTWORK AND APPURTENANCES. NO EXISTING WORK WILL BE ABANDONED IN PLACE.



1 ROOF DEMO PLAN - MECHANICAL
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

ROOF DEMO PLAN - MECHANICAL

MD141

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/23-1065 - City of Bellingham Cent Lib Renv_MEPT25.rvt
9/23/2026 7:29:57 PM

NOTES:

1. CLASS 1 MOTORIZED DAMPER.
2. BIFURCATED LOUVER PLENUM.
3. REBALANCE EXISTING DIFFUSER OR GRILLE.

GENERAL NOTES:

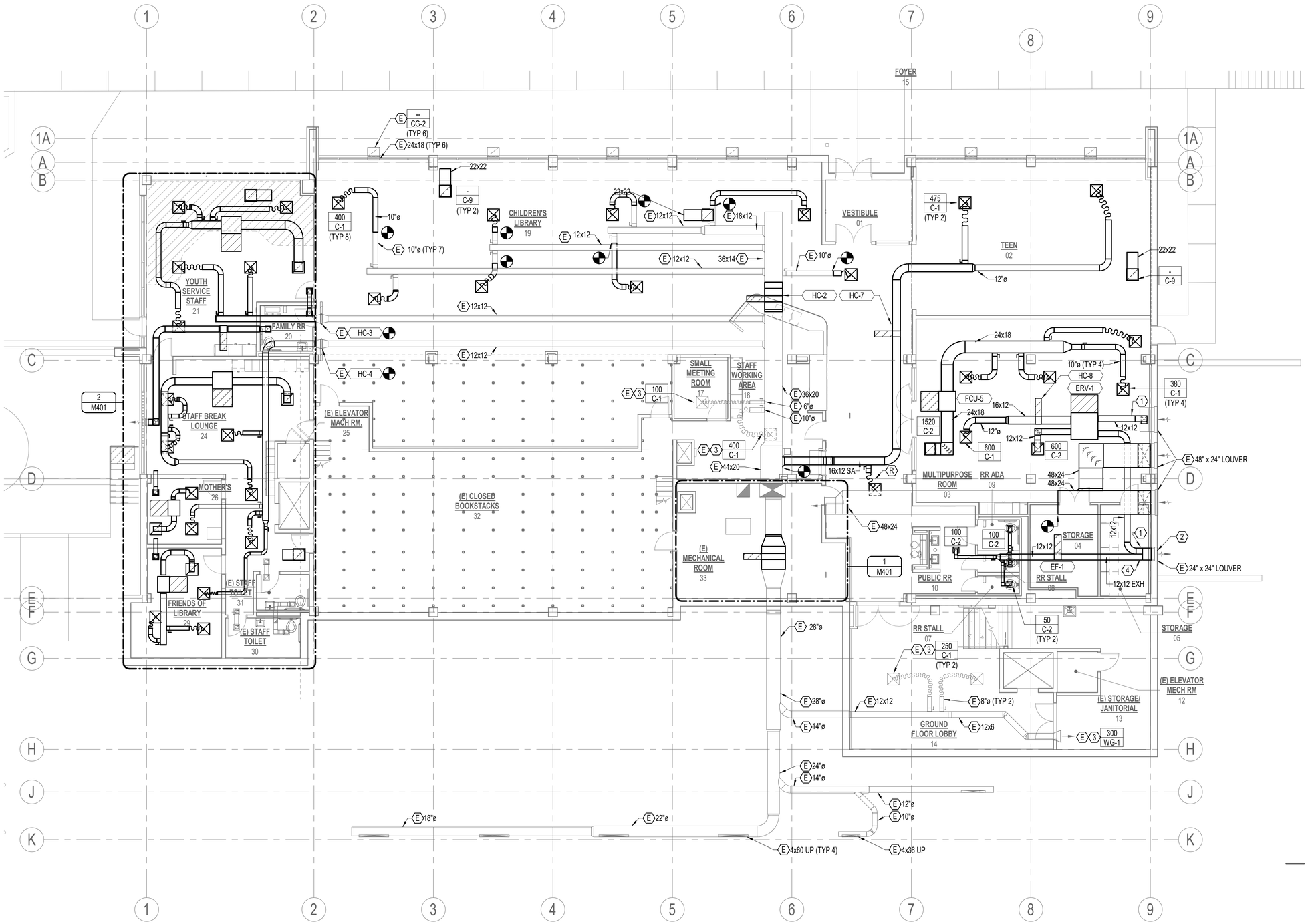
A. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS, BENDS, ELBOWS, OR CUSTOM FITTINGS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. COORDINATE WITH OTHER TRADES AND VERIFY PATHWAYS PRIOR TO SUBMITTING SHOP DRAWINGS.

B. RUN DUCTWORK AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.

C. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. FIELD VERIFY AND COORDINATE DIMENSIONS PRIOR TO FABRICATION.

D. DUCT DIMENSIONS ARE INSIDE SHEET METAL DIMENSIONS OR CLEAR OPENING INSIDE LINED DUCT.

E. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATIONS OF AIR TERMINALS.



1 GROUND FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

Autodesk Docs://23-1055 - City of Bellingham Cent Lib Reno/23-1055 - City of Bellingham Cent Lib Reno_MEP25.rvt
9/16/2026 7:29:07 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

GROUND FLOOR - FLOOR PLAN - MECHANICAL

M111

NOTES:

1. PROVIDE MINIMUM HALF-INCH DOOR UNDERCUT.
2. REBALANCE EXISTING DIFFUSER OR GRILLE.
3. NEW COUNTER-BALANCED BACKDRAFT DAMPER.

GENERAL NOTES:

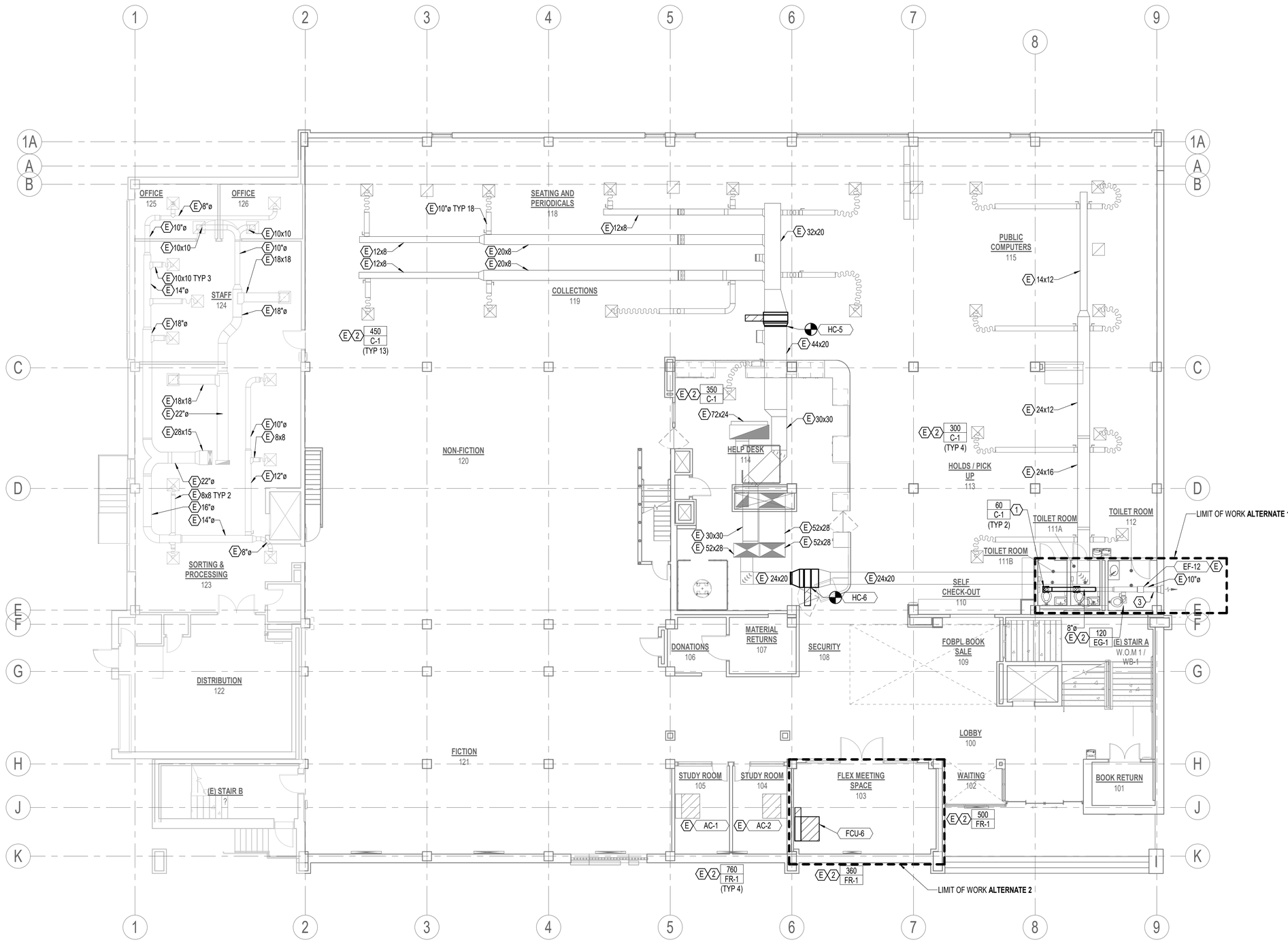
A. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS, BENDS, ELBOWS, OR CUSTOM FITTINGS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. COORDINATE WITH OTHER TRADES AND VERIFY PATHWAYS PRIOR TO SUBMITTING SHOP DRAWINGS.

B. RUN DUCTWORK AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.

C. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. FIELD VERIFY AND COORDINATE DIMENSIONS PRIOR TO FABRICATION.

D. DUCT DIMENSIONS ARE INSIDE SHEET METAL DIMENSIONS OR CLEAR OPENING INSIDE LINED DUCT.

E. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATIONS OF AIR TERMINALS.



1 FIRST FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEP25.rvt
8/29/2025 7:05:58 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

FIRST FLOOR - FLOOR PLAN - MECHANICAL

M131

(#) NOTES:

1. NEW TAG FOR EXISTING EQUIPMENT.
2. NEW DUCT ELBOW AND FLEX CONNECTION TO MATCH AHU OUTLET DIMENSIONS. NEW CLASS 1 MOTORIZED DAMPER UPSTREAM OF ROOF PENETRATION.
3. SEE EQUIPMENT SCHEDULE FOR PRE-CONSTRUCTION NOTES.

GENERAL NOTES:

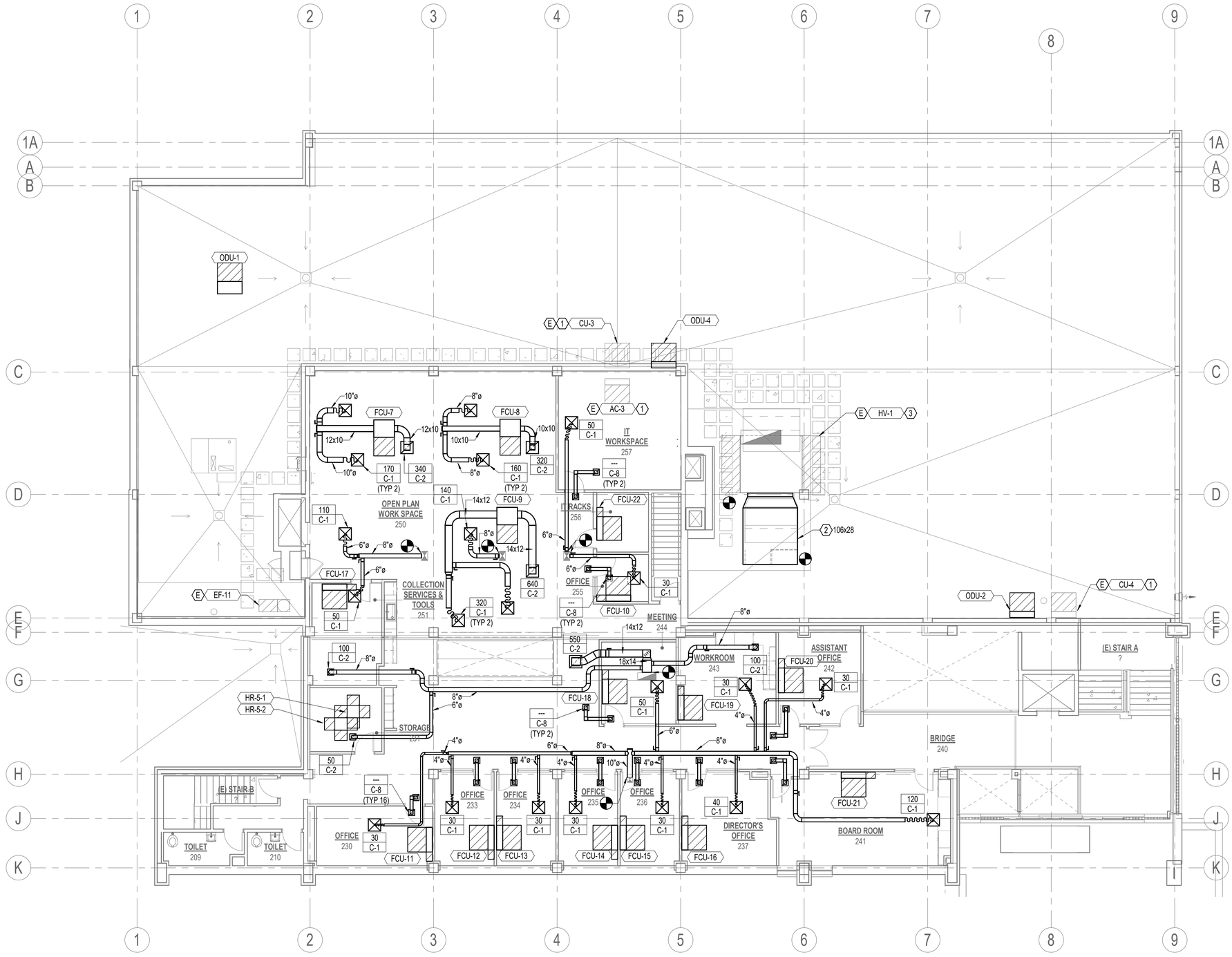
A. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS, BENDS, ELBOWS, OR CUSTOM FITTINGS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. COORDINATE WITH OTHER TRADES AND VERIFY PATHWAYS PRIOR TO SUBMITTING SHOP DRAWINGS.

B. RUN DUCTWORK AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.

C. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. FIELD VERIFY AND COORDINATE DIMENSIONS PRIOR TO FABRICATION.

D. DUCT DIMENSIONS ARE INSIDE SHEET METAL DIMENSIONS OR CLEAR OPENING INSIDE LINED DUCT.

E. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATIONS OF AIR TERMINALS.



1 SECOND FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/29/2025 7:05:27 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET
SECOND FLOOR - FLOOR PLAN - MECHANICAL
M141

NOTES:

1. OUTDOOR DUCTWORK.
2. EXPANSION JOINT.
3. CLASS 1 ISOLATION DAMPERS LOCATED AT UNIT.

GENERAL NOTES:

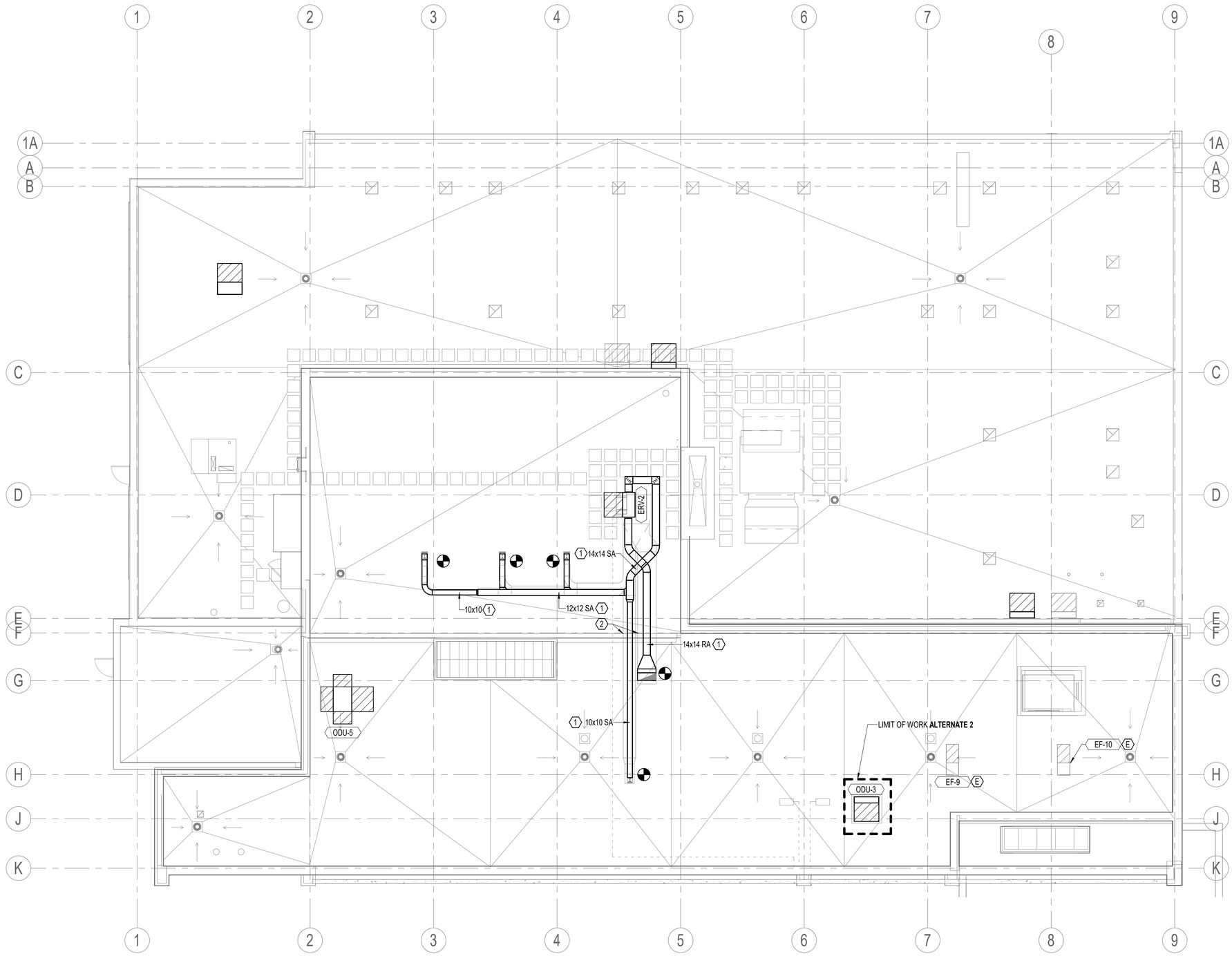
A. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS, BENDS, ELBOWS, OR CUSTOM FITTINGS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. COORDINATE WITH OTHER TRADES AND VERIFY PATHWAYS PRIOR TO SUBMITTING SHOP DRAWINGS.

B. RUN DUCTWORK AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.

C. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. FIELD VERIFY AND COORDINATE DIMENSIONS PRIOR TO FABRICATION.

D. DUCT DIMENSIONS ARE INSIDE SHEET METAL DIMENSIONS OR CLEAR OPENING INSIDE LINED DUCT.

E. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATIONS OF AIR TERMINALS.



1 ROOF PLAN - MECHANICAL
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

ROOF PLAN - MECHANICAL

M151

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/23-1065 - City of Bellingham Cent Lib Renv_MEPT25.rvt
9/23/2026 7:29:47 PM

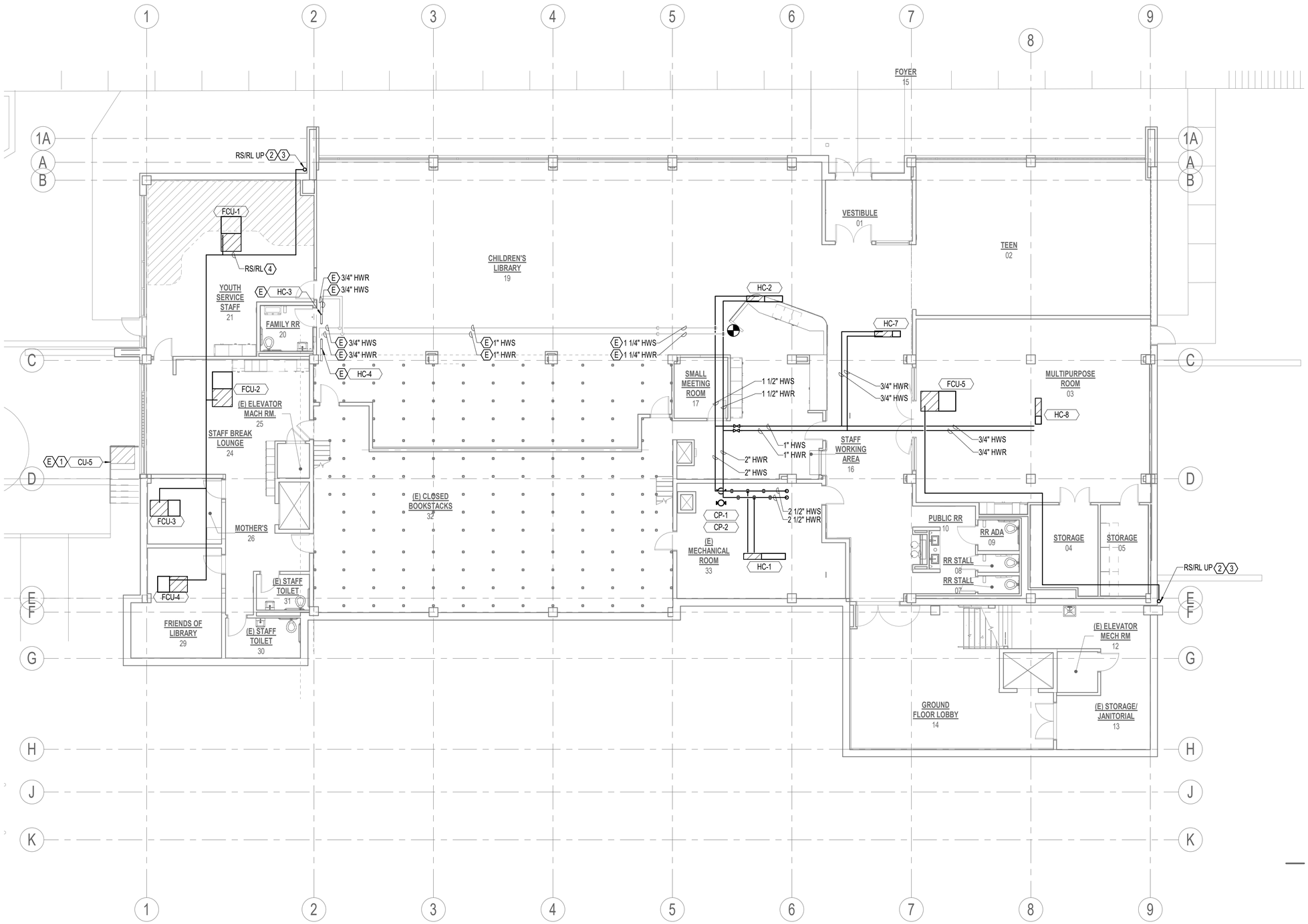
(#) NOTES:

1. NEW TAG FOR EXISTING EQUIPMENT.
2. PROVIDE STAINLESS STEEL "BEAUTY COVER" FOR EXTERIOR REFRIGERANT LINESET. SIMILAR TO EXISTING CONDITION AT SOUTH STUDY ROOMS.
3. REFRIGERANT SUCTION/LIQUID LINE SIZES PER MANUFACTURER.
4. APPROX. REFRIGERANT PATH. FINAL PATHWAY BY CONTRACTOR.

GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS, BENDS, ELBOWS, OR CUSTOM FITTINGS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. COORDINATE WITH OTHER TRADES AND VERIFY PATHWAYS PRIOR TO SUBMITTING SHOP DRAWINGS.

B. PROVIDE MANUAL AIR VENTS AT LOCAL HIGH POINTS AND DRAIN VALVES AT LOCAL LOW POINTS.



1 GROUND FLOOR PLAN - MECHANICAL PIPING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
8/28/2026 7:26:08 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET
GROUND FLOOR - FLOOR PLAN - MECHANICAL PIPING
M211

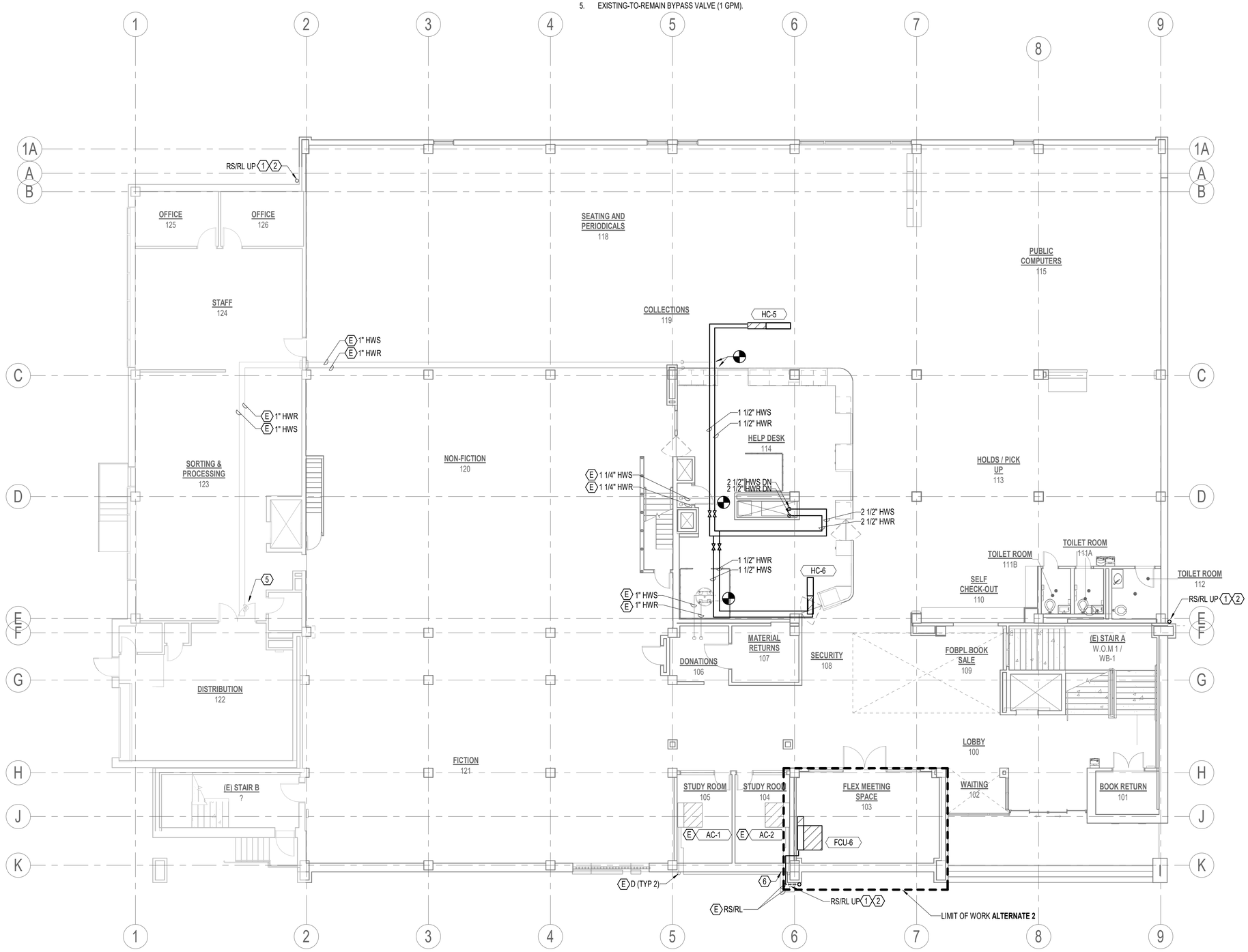
(#) NOTES:

1. PROVIDE STAINLESS STEEL "BEAUTY COVER" FOR EXTERIOR REFRIGERANT LINESET. SIMILAR TO EXISTING CONDITION AT SOUTH STUDY ROOMS.
2. REFRIGERANT SUCTION/LIQUID LINE SIZES PER MANUFACTURER.
3. DEMOLISH EXISTING AND PROVIDE NEW STAINLESS STEEL "BEAUTY COVER" FOR FCU-6 REFRIGERANT LINESETS AND EXISTING "FCU-#" AND "FCU-#" LINESETS.
4. PENETRATION THROUGH EXISTING GLASS BLOCK FOR REFRIGERANT LINESET AND CONDENSATE DRAIN.
5. EXISTING-TO-REMAIN BYPASS VALVE (1 GPM).

GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS, BENDS, ELBOWS, OR CUSTOM FITTINGS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. COORDINATE WITH OTHER TRADES AND VERIFY PATHWAYS PRIOR TO SUBMITTING SHOP DRAWINGS.

B. PROVIDE MANUAL AIR VENTS AT LOCAL HIGH POINTS AND DRAIN VALVES AT LOCAL LOW POINTS.



1 FIRST FLOOR PLAN - MECHANICAL PIPING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPF25.rvt
8/29/2025 7:05:47 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

FIRST FLOOR - FLOOR PLAN - MECHANICAL PIPING

M231

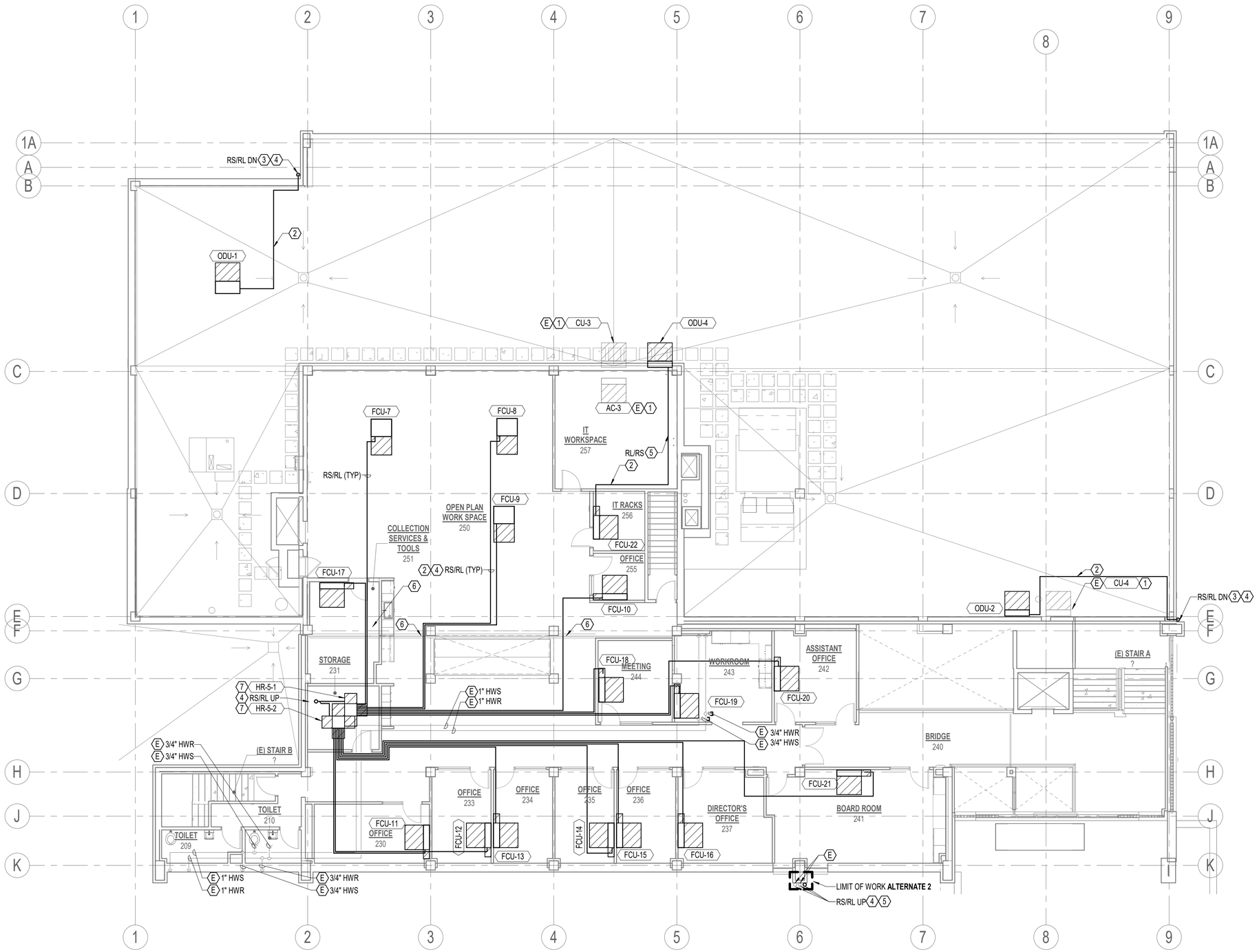
(#) NOTES:

1. NEW TAG FOR EXISTING EQUIPMENT.
2. APPROX. REFRIGERANT PATH. FINAL PATHWAY BY CONTRACTOR.
3. PROVIDE STAINLESS STEEL "BEAUTY COVER" FOR EXTERIOR REFRIGERANT LINESET. SIMILAR TO EXISTING CONDITION AT SOUTH STUDY ROOMS.
4. REFRIGERANT SUCTION/LIQUID LINE SIZES PER MANUFACTURER.
5. DEMOLISH EXISTING AND PROVIDE NEW STAINLESS STEEL "BEAUTY COVER" FOR FCU-6 REFRIGERANT LINESETS AND EXISTING "FCU-#" AND "FCU-#" LINESETS.
6. EXPANSION JOINT. PROVIDE FLEXIBLE PIPING.
7. INDIVIDUAL REFRIGERANT SUCTION/LIQUID RUN-OUTS TO EACH INDOOR UNIT.

GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS, BENDS, ELBOWS, OR CUSTOM FITTINGS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. COORDINATE WITH OTHER TRADES AND VERIFY PATHWAYS PRIOR TO SUBMITTING SHOP DRAWINGS.

B. PROVIDE MANUAL AIR VENTS AT LOCAL HIGH POINTS AND DRAIN VALVES AT LOCAL LOW POINTS.



1 SECOND FLOOR PLAN - MECHANICAL PIPING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/23-1065 - City of Bellingham Cent Lib Renv_MEP23.rvt
9/3/2026 2:24:57 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SECOND FLOOR - FLOOR PLAN - MECHANICAL PIPING

M241

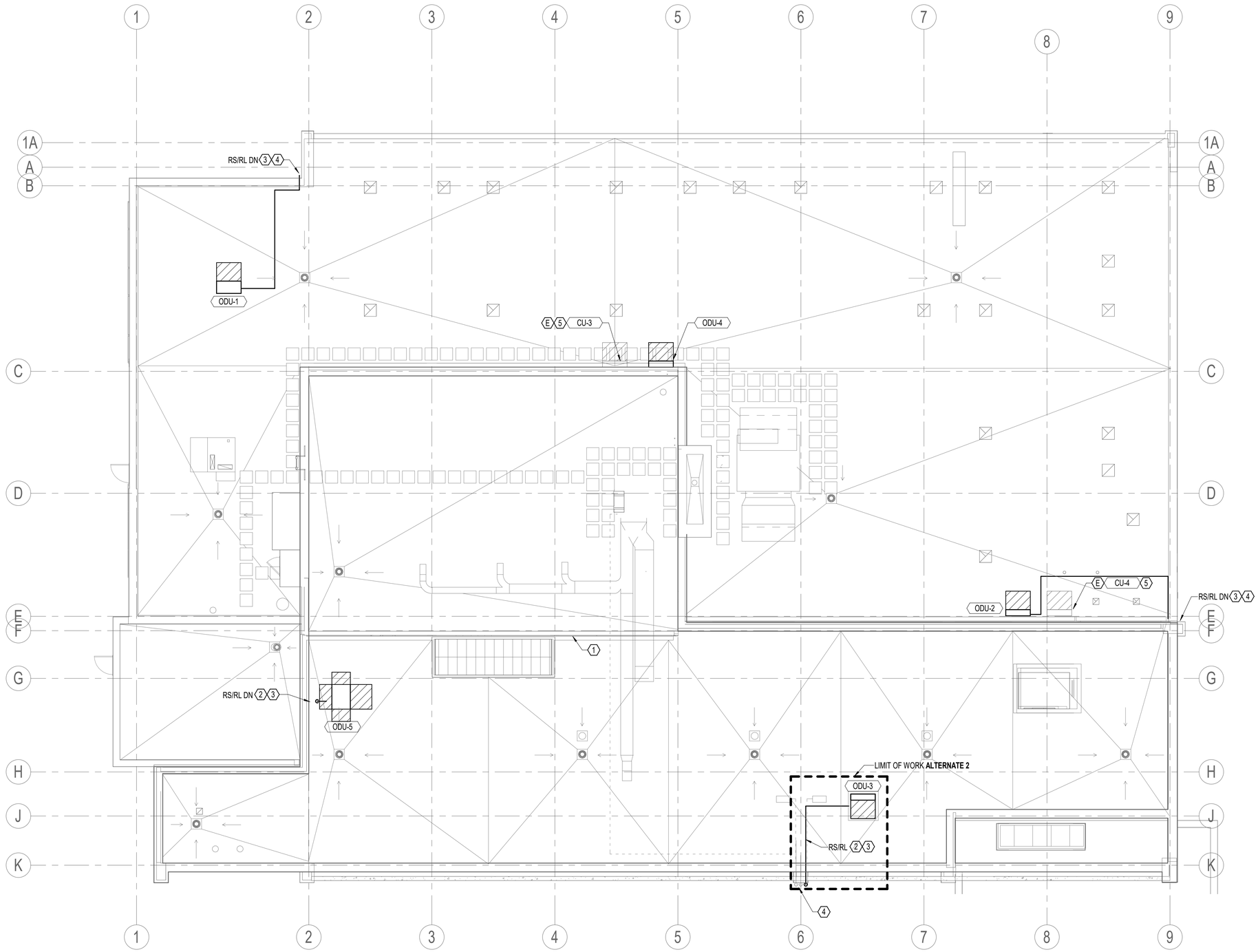
(#) NOTES:

1. EXPANSION JOINT.
2. APPROX. REFRIGERANT PATH. FINAL PATHWAY BY CONTRACTOR.
3. REFRIGERANT SUCTION/LIQUID LINE SIZES PER MANUFACTURER.
4. DEMOLISH EXISTING AND PROVIDE NEW STAINLESS STEEL "BEAUTY COVER" FOR FCU-6 REFRIGERANT LINESETS AND EXISTING "FCU-#" AND "FCU-#" LINESETS.
5. NEW TAG FOR EXISTING EQUIPMENT.

GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS, BENDS, ELBOWS, OR CUSTOM FITTINGS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. COORDINATE WITH OTHER TRADES AND VERIFY PATHWAYS PRIOR TO SUBMITTING SHOP DRAWINGS.

B. PROVIDE MANUAL AIR VENTS AT LOCAL HIGH POINTS AND DRAIN VALVES AT LOCAL LOW POINTS.



1 ROOF PLAN - MECHANICAL PIPING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
9/29/2025 7:49:07 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

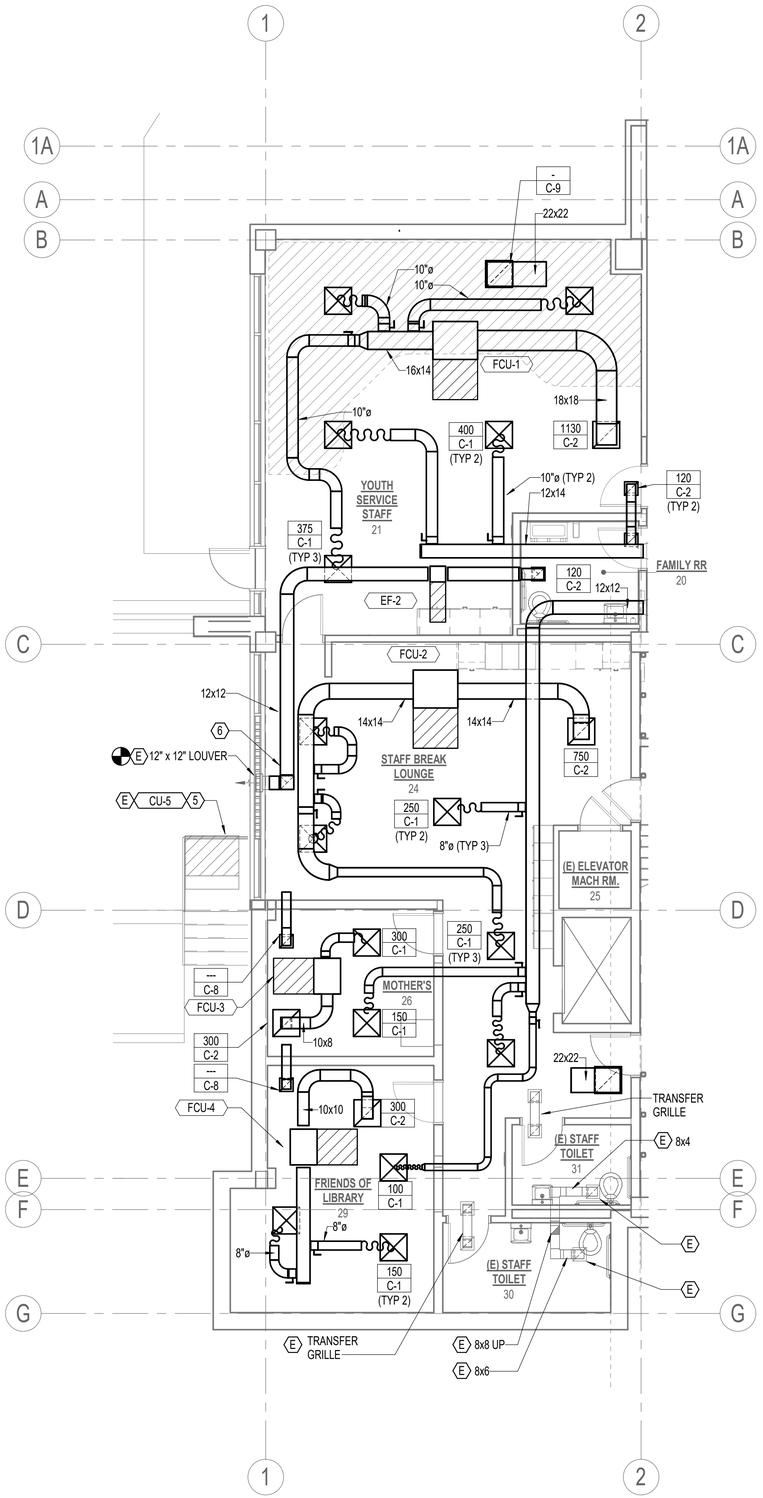
REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

ROOF PLAN - MECHANICAL PIPING
M251



2 GROUND FLOOR PLAN - MECHANICAL
3/16" = 1'-0"

NOTES:

1. SEE M501 FOR PIPING DETAILS.
2. SEE M601 FOR PIPING DIAGRAM.
3. PROVIDE PRE-CONSTRUCTION SERVICING OF EXISTING BOILER. INSPECT UNIT AND NOTIFY OWNER OF ANY FAILED OR FAILING COMPONENTS OR OTHER CONCERNS.
4. UNIT IS INCLUDED IN COMMISSIONING SCOPE.
5. NEW TAG FOR EXISTING EQUIPMENT.
6. COUNTER-BALANCED BACKDRAFT DAMPER.

GENERAL NOTES:

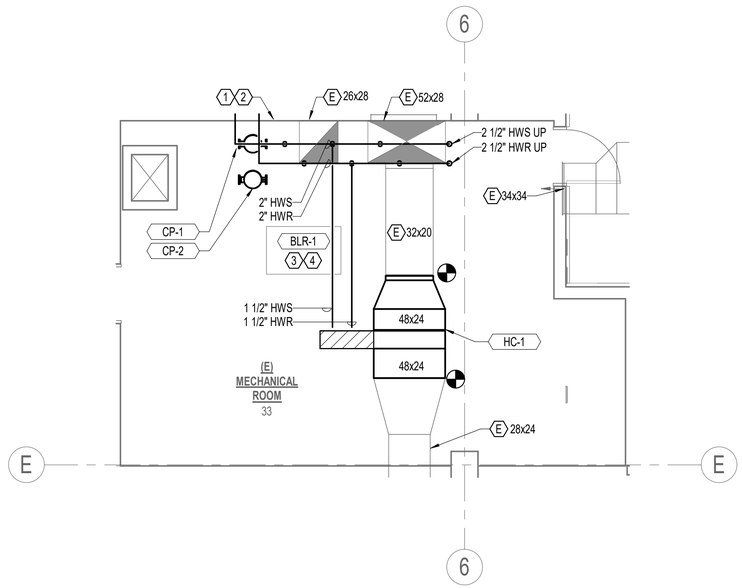
A. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS, BENDS, ELBOWS, OR CUSTOM FITTINGS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. COORDINATE WITH OTHER TRADES AND VERIFY PATHWAYS PRIOR TO SUBMITTING SHOP DRAWINGS.

B. RUN DUCTWORK AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.

C. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. FIELD VERIFY AND COORDINATE DIMENSIONS PRIOR TO FABRICATION.

D. DUCT DIMENSIONS ARE INSIDE SHEET METAL DIMENSIONS OR CLEAR OPENING INSIDE LINED DUCT.

E. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATIONS OF AIR TERMINALS.



1 GROUND FLOOR MECHANICAL ROOM
1/4" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

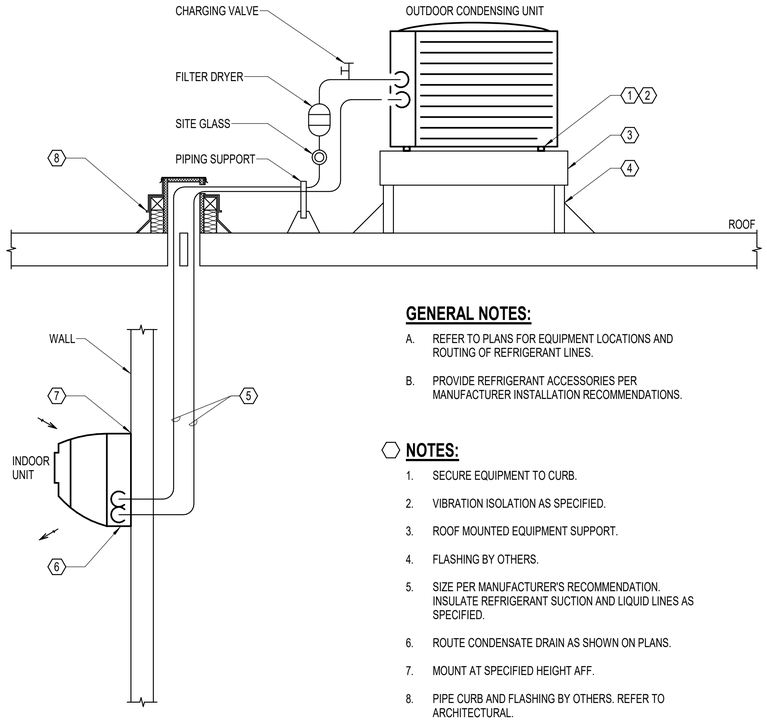
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

ENLARGED PLANS - MECHANICAL

M401

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
9/29/2025 2:40:10 PM



GENERAL NOTES:

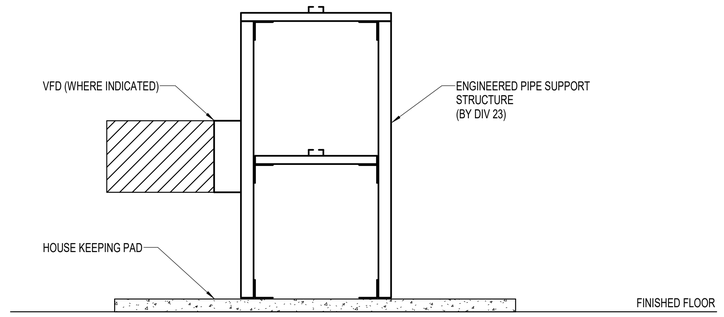
A. REFER TO PLANS FOR EQUIPMENT LOCATIONS AND ROUTING OF REFRIGERANT LINES.

B. PROVIDE REFRIGERANT ACCESSORIES PER MANUFACTURER INSTALLATION RECOMMENDATIONS.

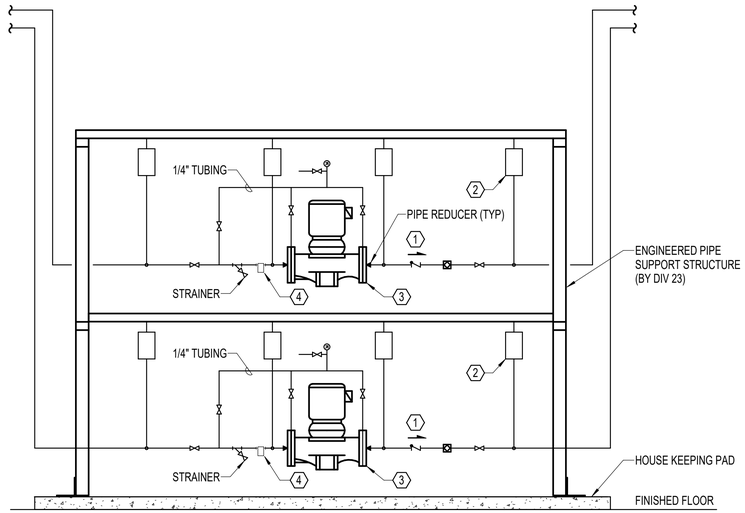
NOTES:

1. SECURE EQUIPMENT TO CURB.
2. VIBRATION ISOLATION AS SPECIFIED.
3. ROOF MOUNTED EQUIPMENT SUPPORT.
4. FLASHING BY OTHERS.
5. SIZE PER MANUFACTURER'S RECOMMENDATION. INSULATE REFRIGERANT SUCTION AND LIQUID LINES AS SPECIFIED.
6. ROUTE CONDENSATE DRAIN AS SHOWN ON PLANS.
7. MOUNT AT SPECIFIED HEIGHT AFF.
8. PIPE CURB AND FLASHING BY OTHERS. REFER TO ARCHITECTURAL.

1 SPLIT SYSTEM DETAIL
NONE



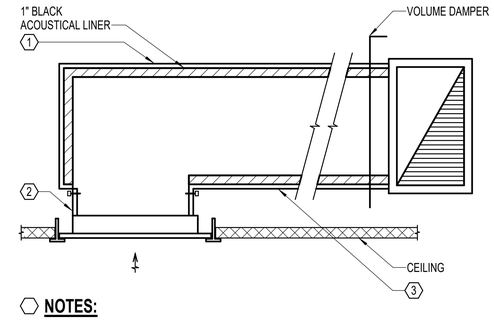
SIDE VIEW



FRONT VIEW

NOTES:

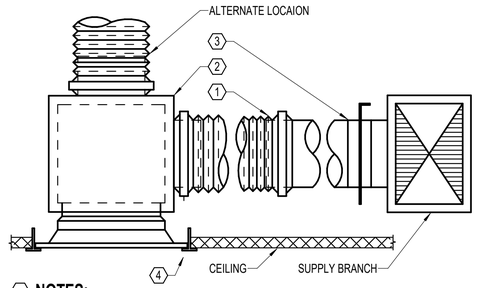
1. PROVIDE CHECK VALVE ONLY FOR PUMPS INSTALLED IN PARALLEL.
2. SEE SPECIFICATIONS FOR VIBRATION ISOLATION AND SEISMIC RESTRAINT. ASSUME 1-INCH DEFLECTION SPRING HANGERS.
3. FLANGED CONNECTIONS.
4. PROVIDE MAGNETIC FILTER UPSTREAM OF EC MOTOR DRIVEN PUMPS.



NOTES:

1. SHEET METAL DUCT. SEE PLANS FOR SIZE.
2. NECK SIZE PER SCHEDULE.
3. EXTEND AND CONNECT TO RETURN/EXHAUST SYSTEM.

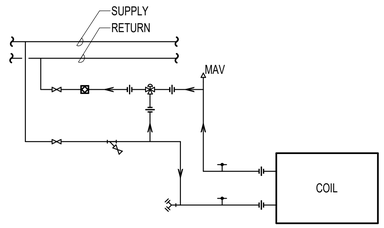
7 DUCTED RETURN/EXHAUST GRILLE
NONE



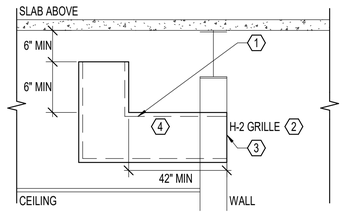
NOTES:

1. FLEX DUCT. 4' MAX LENGTH.
2. SHEETMETAL PLENUM SIZED 3-INCHES LARGER THAN DIFFUSER DUCT CONNECTION SIZE WITH 1-INCH BLACK DUCT LINER.
3. SPIN-IN FITTING WITH VOLUME DAMPER.
4. SURFACE MOUNT DIFFUSER SIMILAR WITH SURFACE MOUNT FRAME.

8 TYPICAL SQUARE NECK T-BAR DIFFUSER
NONE



2 HYDRONIC COIL PIPING DETAIL - THREE-WAY
NONE

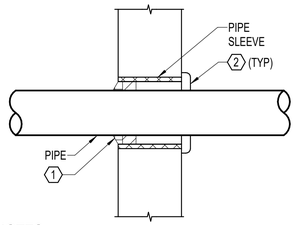


GENERAL NOTES:

A. APPLY CAULKING AT ACOUSTICAL WALL PENETRATION.

B. FOR PENETRATIONS ACROSS FIRE-RATED WALLS, USE UL AND FM APPROVED DETAIL FROM STI, SPECIFIED TECHNOLOGIES.

C. TRANSFER BOOT ELBOW CAN BE ORIENTED HORIZONTALLY OR VERTICALLY.



NOTES:

1. PROVIDE FIRESTOPPING/SEAL PER SPECIFICATIONS. TYPICAL FOR RATED WALLS.
2. ESCUTCHEON, FOR FINISHED INTERIOR WALLS.

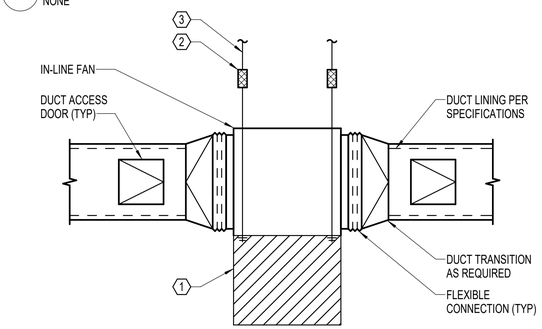
3 INTERIOR WALL PENETRATION DETAIL
NONE

NOTES:

1. 1" ACOUSTICAL LINING.
2. DUCT SIZE SHOWN ON FLOOR PLAN TO MATCH GRILLE SIZE.
3. INSTALL TRANSFER DUCT AS HIGH AS POSSIBLE.
4. TRANSFER AIR DUCT THROUGH WALL #1.

4 TRANSFER AIR DUCT DETAIL
NONE

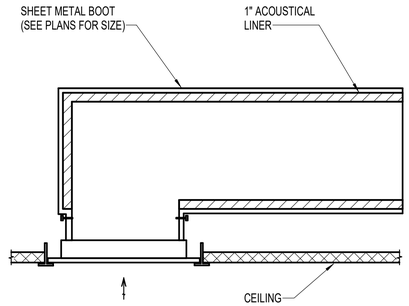
5 STAND SUPPORTED INLINE PUMP
NONE



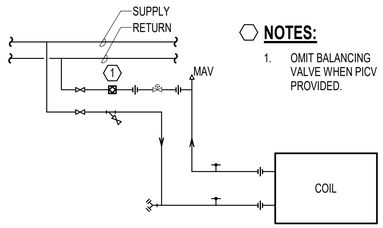
NOTES:

1. MAINTAIN MANUFACTURER AND NATIONAL ELECTRIC CODE CLEARANCE AROUND FAN AND MOTOR FOR SERVICE.
2. SEISMIC RESTRAINT AND VIBRATION ISOLATION PER SPECIFICATIONS.
3. SUPPORT FROM STRUCTURE ABOVE (TYP).

6 IN-LINE FAN
NONE



9 RETURN AIR BOOT
NONE



NOTES:

1. OMIT BALANCING VALVE WHEN PICV PROVIDED.

10 HYDRONIC COIL PIPING DETAIL - TWO-WAY
NONE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

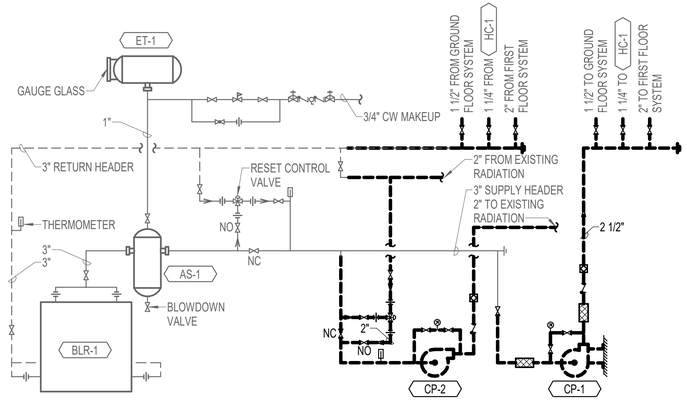
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

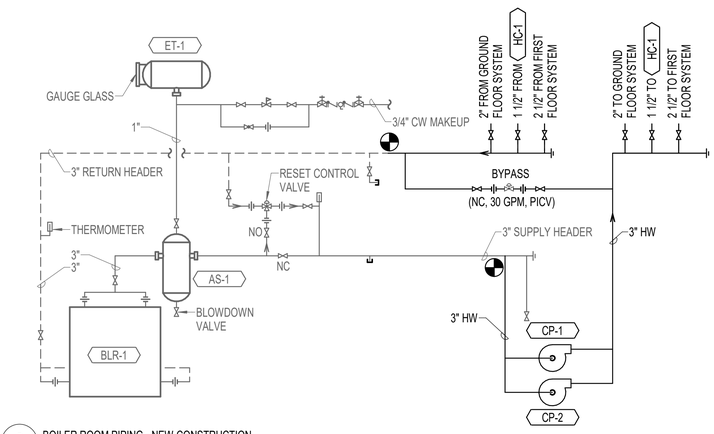
SHEET

DETAILS - MECHANICAL
M501

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renv_MEPf25.rvt
9/30/2025 2:40:19 PM



1 BOILER ROOM PIPING - DEMOLITION
NONE



2 BOILER ROOM PIPING - NEW CONSTRUCTION
NONE

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

FLOW DIAGRAMS - MECHANICAL

M601

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renv_MEPF25.rvt
8/29/2025 2:40:19 PM

(#) NOTES:

1. ONE THERMOSTAT SERVES THE FAN COIL UNIT. ONE THERMOSTAT SERVES THE DUCT HEATING COIL.
2. MONITORING ONLY CO2 SENSOR. GENERATE ALARM IF ROOM PPM EXCEEDS SETPOINT.

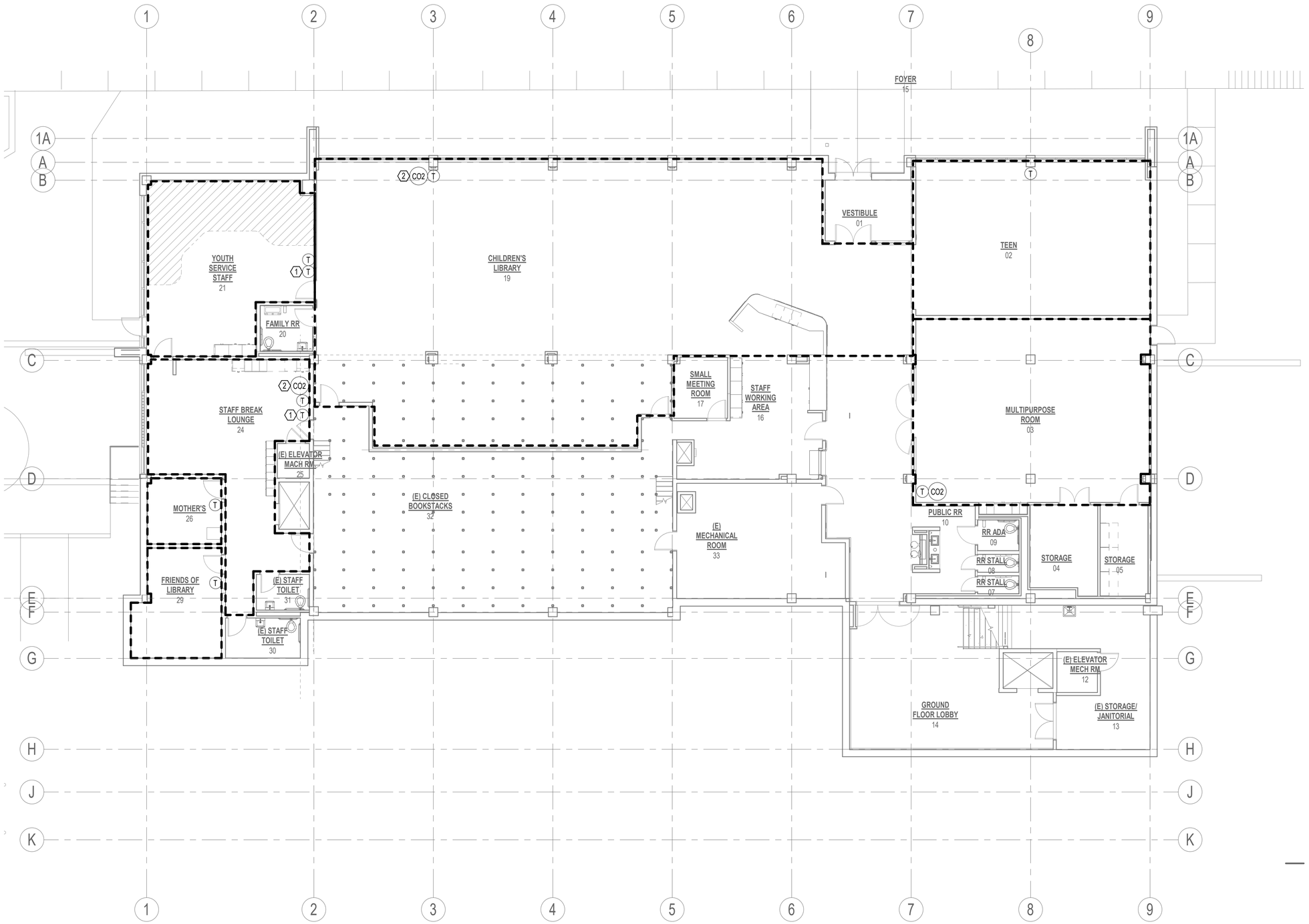
GENERAL NOTES:

A. ZONE DIAGRAM IS SCHEMATIC AND INTENDED TO ILLUSTRATE TEMPERATURE CONTROL RELATIONSHIPS ONLY. REFER TO FLOOR PLANS, SEQUENCE OF OPERATION, AND CONTROLS DRAWINGS FOR COMPLETE REQUIREMENTS.

B. COORDINATE FINAL LOCATION OF ALL THERMOSTATS, SENSORS, AND CONTROL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE THERMOSTAT MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND ADA REQUIREMENTS.

C. DO NOT LOCATE THERMOSTATS BEHIND DOORS, NEAR WINDOWS, OR IN DIRECT SUNLIGHT. THERMOSTATS INSTALLED ON EXTERIOR WALLS REQUIRE AN INSULATED BACKPAN.

D. FOR REFRIGERANT-BASED SYSTEMS, PROVIDE LOCAL CONTROLLERS, TEMPERATURE SENSORS, AND OTHER CONTROL DEVICES AS REQUIRED BY MANUFACTURER.



1 GROUND FLOOR ZONE PLAN - MECHANICAL
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
8/28/2026 7:40:21 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET
GROUND FLOOR - ZONE PLAN - MECHANICAL
M711

(#) NOTES:

1. NONE.

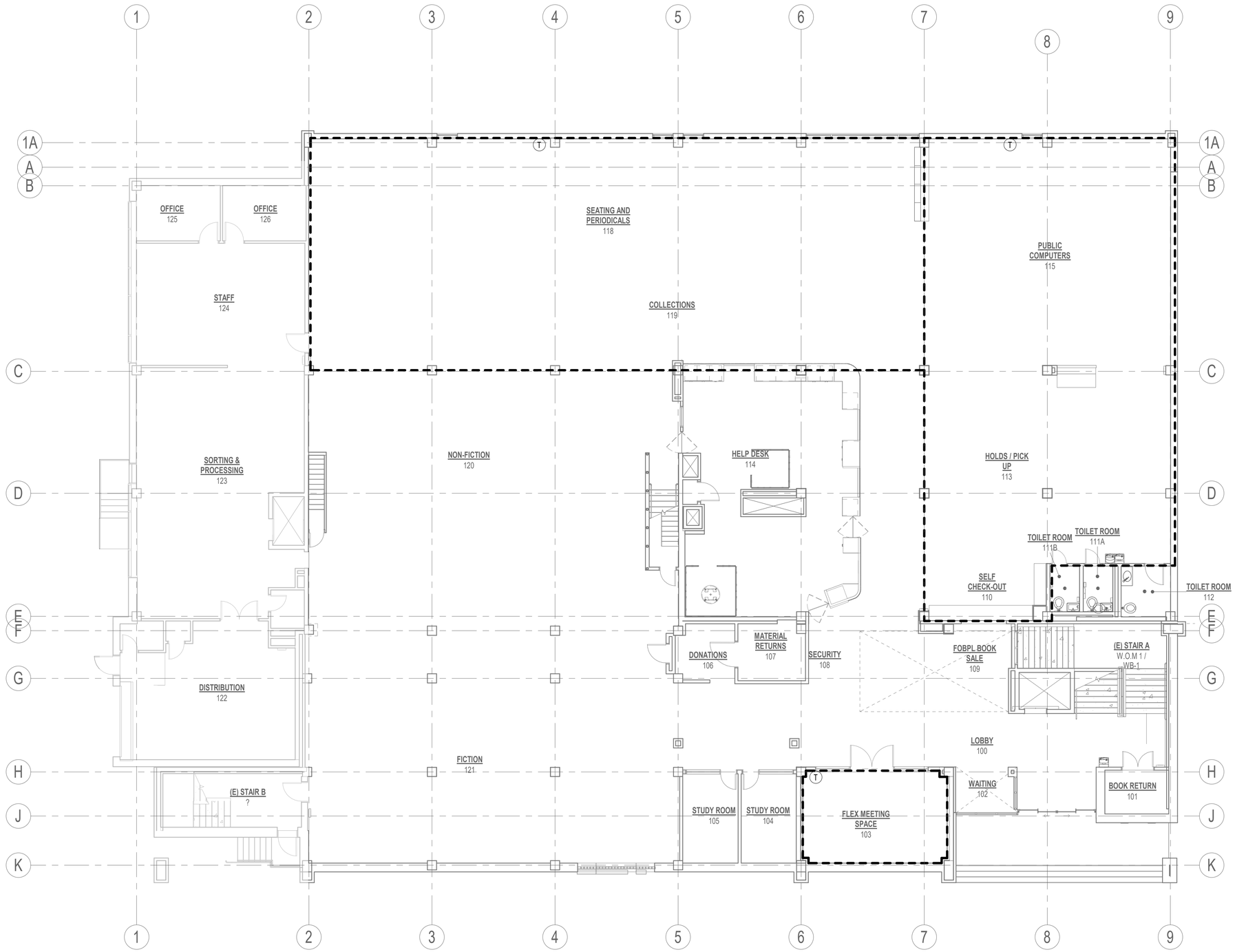
GENERAL NOTES:

A. ZONE DIAGRAM IS SCHEMATIC AND INTENDED TO ILLUSTRATE TEMPERATURE CONTROL RELATIONSHIPS ONLY. REFER TO FLOOR PLANS, SEQUENCE OF OPERATION, AND CONTROLS DRAWINGS FOR COMPLETE REQUIREMENTS.

B. COORDINATE FINAL LOCATION OF ALL THERMOSTATS, SENSORS, AND CONTROL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE THERMOSTAT MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND ADA REQUIREMENTS.

C. DO NOT LOCATE THERMOSTATS BEHIND DOORS, NEAR WINDOWS, OR IN DIRECT SUNLIGHT. THERMOSTATS INSTALLED ON EXTERIOR WALLS REQUIRE AN INSULATED BACKPAN.

D. FOR REFRIGERANT-BASED SYSTEMS, PROVIDE LOCAL CONTROLLERS, TEMPERATURE SENSORS, AND OTHER CONTROL DEVICES AS REQUIRED BY MANUFACTURER.



1 FIRST FLOOR ZONE PLAN - MECHANICAL
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Reno_MEPT23.rvt
9/3/2026 7:25:27 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

FIRST FLOOR - ZONE PLAN - MECHANICAL

M713

(#) NOTES:

1. NONE.

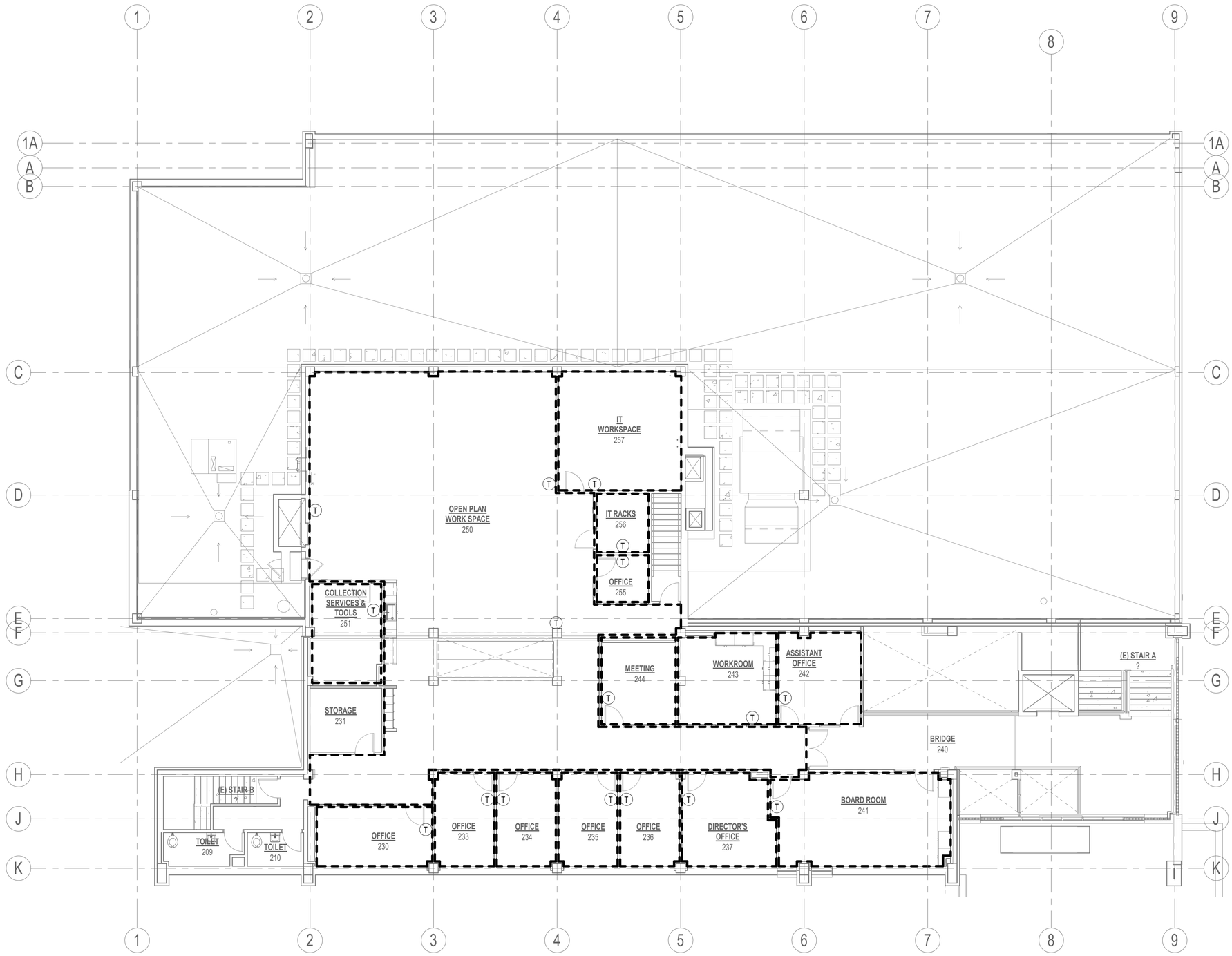
GENERAL NOTES:

A. ZONE DIAGRAM IS SCHEMATIC AND INTENDED TO ILLUSTRATE TEMPERATURE CONTROL RELATIONSHIPS ONLY. REFER TO FLOOR PLANS, SEQUENCE OF OPERATION, AND CONTROLS DRAWINGS FOR COMPLETE REQUIREMENTS.

B. COORDINATE FINAL LOCATION OF ALL THERMOSTATS, SENSORS, AND CONTROL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE THERMOSTAT MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND ADA REQUIREMENTS.

C. DO NOT LOCATE THERMOSTATS BEHIND DOORS, NEAR WINDOWS, OR IN DIRECT SUNLIGHT. THERMOSTATS INSTALLED ON EXTERIOR WALLS REQUIRE AN INSULATED BACKPAN.

D. FOR REFRIGERANT-BASED SYSTEMS, PROVIDE LOCAL CONTROLLERS, TEMPERATURE SENSORS, AND OTHER CONTROL DEVICES AS REQUIRED BY MANUFACTURER.



1 SECOND FLOOR ZONE PLAN - MECHANICAL
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP125.rvt
9/30/2026 2:04:37 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

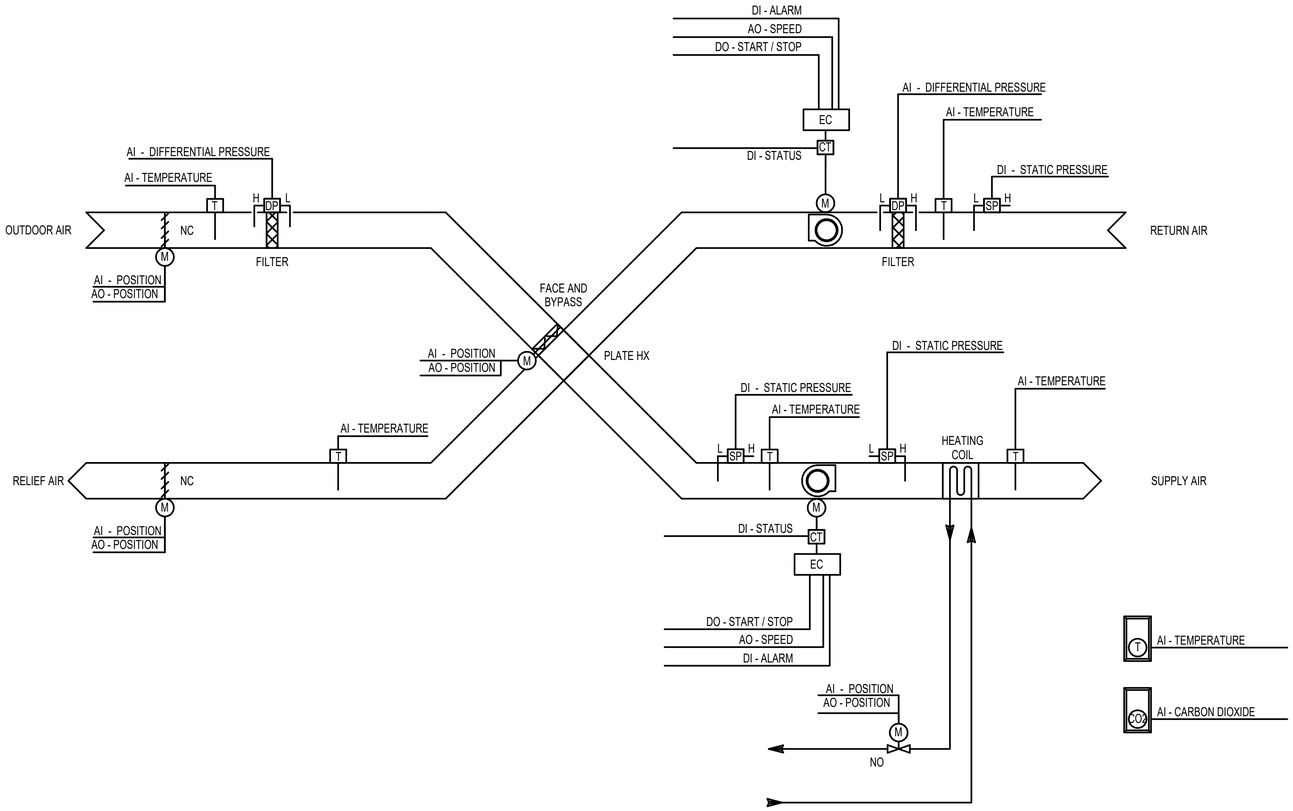
SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET
SECOND FLOOR - ZONE PLAN - MECHANICAL
M714



1 ERV-1 - DOAS - SINGLE ZONE
NONE

AIR HANDLING UNIT - ERV-1 - SINGLE ZONE

- GENERAL
  - SINGLE ZONE AIR HANDLING UNIT OPERATES AT CONSTANT VOLUME
  - PACKAGED CONTROLS OPERATE FANS, SAFETIES, FROST PROTECTION, ALARMS, BYPASS, FILTER MONITORING. THIS SEQUENCES MAY BE SUBSTITUTED WHERE PACKAGED SEQUENCES PROVIDE AN EQUIVALENT FUNCTIONALITY.
  - FIELD CONTROLS OPERATE HEATING COIL, VALVE, AND SCHEDULING.
- SCHEDULE OF OPERATION
  - UNIT OPERATES WHEN COMMANDED BY CONTROL SYSTEM
- HEAT EXCHANGER FACE AND BYPASS DAMPER CONTROL
  - FACE AND BYPASS DAMPERS MODULATE BASED ON OUTDOOR AIR TEMPERATURE TO ACHIEVE AIR-SIDE ECONOMIZER OPERATION IN COOLING MODE
    - ZONE TEMPERATURE BELOW HEATING SETPOINT
      - FACE DAMPER OPEN
      - BYPASS DAMPER CLOSED
    - ZONE TEMPERATURE ABOVE COOLING SETPOINT AND OUTDOOR AIR TEMPERATURE BELOW ZONE TEMPERATURE
      - FACE DAMPER CLOSED
      - BYPASS DAMPER OPEN
    - ZONE TEMPERATURE ABOVE COOLING SETPOINT AND OUTDOOR AIR TEMPERATURE ABOVE ZONE TEMPERATURE
      - FACE DAMPER OPEN
      - BYPASS DAMPER CLOSED
  - FACE AND BYPASS DAMPERS MODULATE BASED ON RELIEF AIR AND OUTDOOR AIR TEMPERATURES TO PREVENT FROSTING OF HEAT EXCHANGER SURFACES
    - OUTDOOR AIR TEMPERATURE BELOW 32 DEGREES F
      - FACE DAMPER AND BYPASS DAMPER MODULATE TO MAINTAIN RELIEF AIR TEMPERATURE ABOVE 34 DEGREES F
- SUPPLY AIR TEMPERATURE SETPOINT
  - MAXIMUM SETPOINT = 55 DEGREES F
- HEATING COIL CONTROL
  - HEATING COIL MODULATES TO MAINTAIN LEAVING AIR TEMPERATURE SETPOINT
- OCCUPIED MODE
  - AIR HANDLING UNIT BEGINS OPERATION AT MINIMUM SPEED
    - OUTSIDE AIR DAMPER OPEN
    - RELIEF AIR DAMPER OPEN
  - SUPPLY FAN CONTROL
    - FAN STARTS AT MINIMUM SPEED
    - FAN SPEED RESET - ZONE CARBON DIOXIDE SETPOINT
      - SUPPLY FAN SPEED IS RESET LINEARLY BASED ON ZONE CARBON DIOXIDE LEVEL
        - ZONE CARBON DIOXIDE AT 400 PPM OR LESS
          - FAN SPEED SETPOINT = 30%
        - ZONE CARBON DIOXIDE AT SETPOINT OR HIGHER
          - FAN SPEED SETPOINT = 100%
  - RETURN FAN CONTROL
    - FAN STARTS AT MINIMUM SPEED
    - FAN SPEED RESET - SUPPLY FAN SPEED
      - RETURN FAN SPEED IS RESET BASED ON SUPPLY FAN SPEED TO MAINTAIN A CONSISTENT PRESSURIZATION ACRESS THE FULL EXPECTED RANGE OF OPERATION
      - RETURN FAN SPEED IS OFFSET FROM SUPPLY FAN SPEED BASED ON INPUT FROM TAB CONTRACTOR SITE TESTING OF AIR HANDLING SYSTEM
        - AT A MINIMUM, RETURN FAN SPEED OFFSET CURVE TO BE ESTABLISHED BASED UPON MAINTAINING PROPER BUILDING PRESSURIZATION AT SUPPLY FAN SPEEDS OF 30%, 50%, 75%, AND 100%.
- UNOCCUPIED MODE
  - AIR HANDLING UNIT SHUT OFF. ALL COMPONENTS IN NORMAL DE-ENERGIZED POSITIONS.
  - DAMPERS CLOSED.
- ALARMS/SAFETIES
  - HIGH LEAVING AIR TEMPERATURE ALARM: LEAVING AIR TEMPERATURE IS MORE THAN 10 DEGREES F ABOVE SETPOINT FOR 5 MINUTES (DOWNSTREAM OF HEATING COIL)
  - LOW LEAVING AIR TEMPERATURE ALARM: LEAVING AIR TEMPERATURE IS LESS THAN 50 DEGREES F FOR 5 MINUTES (DOWNSTREAM OF ERV)
  - FIRE ALARM SHUTDOWN SAFETY: UPON RECEIVING FIRE ALARM SIGNAL FROM FIRE ALARM SYSTEM TURN AIR HANDLER OFF, ALL COMPONENTS IN NORMAL DE-ENERGIZED POSITIONS
  - FILTER CHANGE ALARM: WHEN DIFFERENTIAL PRESSURE MEASURED ACROSS FILTER BANK INDICATES THE STATIC PRESSURE DROP EXCEEDS 0.5 INCHES W.G. ABOVE CLEAN
  - SUPPLY FAN DISCHARGE PRESSURE HIGH LIMIT SAFETY: IN THE EVENT THE STATIC PRESSURE EXCEEDS 2.0 INCHES W.G. HARD WIRED MANUAL RESET PRESSURE SWITCH SHUTS DOWN FAN
  - SUPPLY FAN INLET PRESSURE LOW LIMIT SAFETY: IN THE EVENT THE STATIC PRESSURE EXCEEDS -1.50 INCHES W.G. HARD WIRED MANUAL RESET PRESSURE SWITCH SHUTS DOWN FAN
  - RETURN FAN INLET PRESSURE LOW LIMIT SAFETY: IN THE EVENT THE STATIC PRESSURE EXCEEDS -1.50 INCHES W.G. HARD WIRED MANUAL RESET PRESSURE SWITCH SHUTS DOWN FAN
- POINTS FOR MONITORING
  - HEATING COIL POSITION
  - ALL AVAILABLE BACNET POINTS FROM PACKAGED CONTROLLER
- NOTES
  - SETPOINTS AND VARIABLES ARE TO BE INDIVIDUALLY ADJUSTABLE THROUGH CONTROL SYSTEM GRAPHICAL USER INTERFACE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

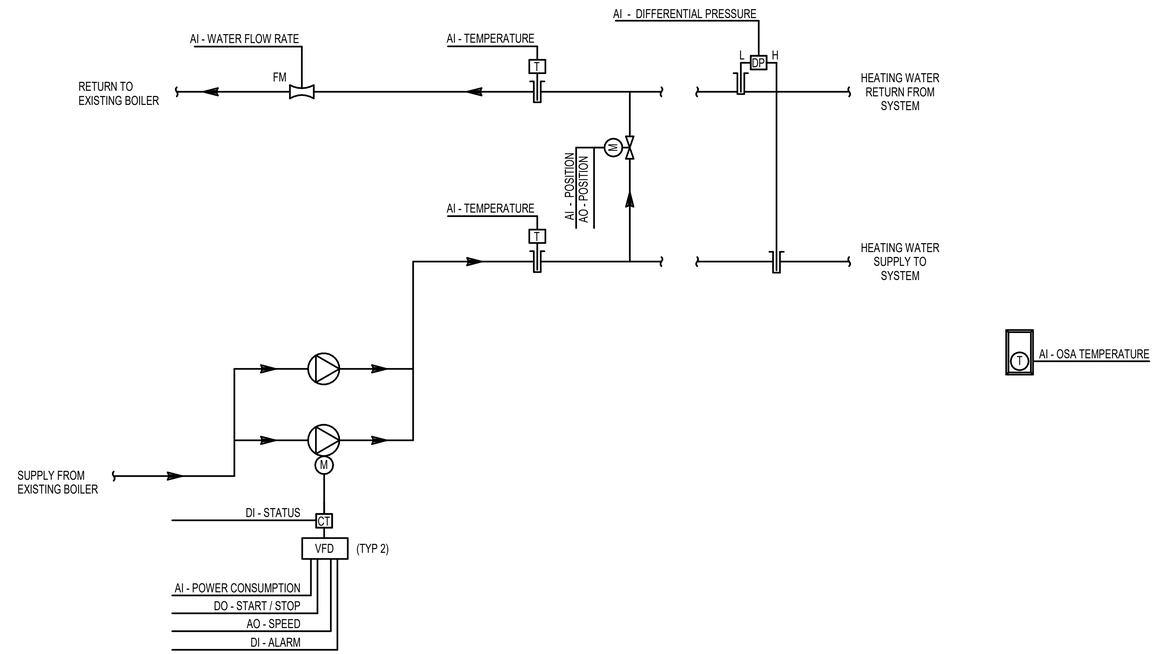
CONTROL DIAGRAMS - MECHANICAL

M703

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Reno_MEP25.rvt
9/30/2025 2:43:38 PM

HEATING WATER DISTRIBUTION – PUMPS – VARIABLE PRIMARY

- GENERAL
  - SEE EXISTING CONTROLS SECTION FOR MORE INFORMATION. ALL ITEMS NOT LISTED BELOW ARE EXISTING TO REMAIN
  - CIRCULATION PUMPS OPERATE AT VARIABLE SPEED TO MAINTAIN DIFFERENTIAL PRESSURE SETPOINT
- SCHEDULE OF OPERATION
  - OPERATES 24 HOURS A DAY 7 DAYS A WEEK
  - OPERATES WHEN COMMANDED BY CONTROL SYSTEM
- OCCUPIED MODE
  - PUMP CONTROL
    - PUMPS DISABLED WHEN OUTDOOR AIR TEMPERATURE IS ABOVE 70 DEGREES F
    - SYSTEM DIFFERENTIAL PRESSURE SETPOINT IS ESTABLISHED AS PART OF THE TESTING ADJUSTING AND BALANCING OF THE SYSTEM TO ACHIEVE THE DESIGN FLOW RATE OF THE CRITICAL BRANCH.
    - PUMP SPEED MODULATES TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE SETPOINT
      - HOLD PUMP SPEED CONSTANT WHEN BOILERS STAGING ON/OFF
    - HEATING WATER SYSTEM DEMAND FLOW RESET - TRIM AND RESPOND
      - HEATING WATER SYSTEM FLOW STARTING SETPOINT = PUMP MINIMUM
      - HEATING WATER DIFFERENTIAL PRESSURE SETPOINT IS RESET TO LOWEST POSSIBLE VALUE USING TRIM AND RESPOND LOGIC TO MAINTAIN CRITICAL TERMINAL EQUIPMENT VALVES AT 90% OPEN
        - EVERY 5 MINUTES HEATING WATER DIFFERENTIAL PRESSURE SETPOINT IS DECREASED TO REDUCE FLOW BY 2 PERCENT
        - WHEN TWO OR MORE TERMINAL EQUIPMENT VALVES ARE MORE THAN 90% OPEN THE HEATING WATER DIFFERENTIAL PRESSURE SETPOINT IS INCREASED TO INCREASE FLOW BY 3 PERCENT
        - MAXIMUM HEATING WATER SYSTEM FLOW = PUMP MAXIMUM
    - LEAD STANDBY SEQUENCE
      - WHEN LEAD PUMP FAILS THE STANDBY PUMP OPERATES TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE SETPOINT
      - FAILED PUMP IS DISABLED UNTIL RE-ENABLED BY CONTROL SYSTEM USER
    - LEAD PUMP DESIGNATION ALTERNATES WEEKLY TO DIVIDE OPERATING TIME EQUALLY BETWEEN PUMPS
  - HEATING WATER BYPASS VALVE CONTROL
    - MODULATE BYPASS VALVE TO MAINTAIN SYSTEM MINIMUM FLOW RATE AS MEASURED BY HEATING WATER FLOW METER. BYPASS VALVE PREFERENTIALLY CLOSED.
- UNOCCUPIED MODE
  - GENERAL: EQUIPMENT AND VALVES IN DE-ENGERGIZED POSITIONS
  - UPON CALL FOR HEATING FROM THE DDC SYSTEM THE SYSTEM ENTERS OCCUPIED MODE
- ALARMS/SAFETIES
  - VARIABLE FREQUENCY DRIVE (VFD) ALARMS: PROVIDE INDIVIDUAL SIGNALS TO THE DDC CONTROLLER INDICATING ALARM CONDITION AND ALARM TYPE
  - HEATING WATER PUMP FAILURE ALARM: PUMP FAILURE INDICATED BY CURRENT TRANSFORMER SWITCH
- POINTS FOR MONITORING
  - BYPASS VALVE POSITION
  - VARIABLE FREQUENCY DRIVE SPEED
  - VARIABLE FREQUENCY DRIVE CURRENT
  - VARIABLE FREQUENCY DRIVE ENERGY USE
  - HEATING WATER SUPPLY TEMPERATURE
  - HEATING WATER RETURN TEMPERATURE
  - WATER FLOW METER FLOW RATE
- NOTES
  - SETPOINTS AND VARIABLES ARE TO BE INDIVIDUALLY ADJUSTABLE THROUGH CONTROL SYSTEM GRAPHICAL USER INTERFACE



1 HEATING WATER DISTRIBUTION
NONE

EXISTING CONTROL SEQUENCES

- GENERAL
  - THE FOLLOWING SEQUENCES ARE PER THE 1985 BUILDING RENOVATION AND ADDITION
  - THE ACTUAL SEQUENCES OF OPERATIONS MAY DIFFER FROM THE INFORMATION PROVIDED. CONTROLS CONTRACTOR TO REVIEW AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO MODIFYING EXISTING SEQUENCES
  - EXISTING SEQUENCES THAT REQUIRE MODIFICATIONS ARE NOTED BELOW.
- 1. PROGRAM TIMER:
  - CLOCK INDIVIDUALLY SCHEDULES DAY/NIGHT OPERATION OF HEAT PUMP (HP-1), TWO HEAT VENT UNITS (HV-1 AND 2), AND RADIATION CONTROL VALVE (AT CP-2). PUBLIC TOILET EXHAUST FAN (EF-1) AND VENTILATION HEATING PUMP (CP-1) OPERATE WITH EITHER HV-1 OR HV-2.
  - NIGHT THERMOSTAT INTERLOCKED WITH RADIATN CONTROL VALVE PERMITS REDUCED NIGHT MODE TEMPERATURES. BY-PASS TIMERS IN EACH CONTROL ZONE PERMIT UP TO 6 HOURS OF OPERATION DURING OFF SCHEDULE PERIODS. RADIATION CONTROL VALVE IS INTERLOCKED WITH BY-PASS TIMER OF HV-1.
  - MODIFICATIONS: REMOVE PROGRAMMING ASSOCIATED WITH DEMOLISHED EQUIPMENT AND DEVICES. EF-1 SCHEDULE TO MATCH HV-1.
- 2. PRIMARY HEATING SYSTEM
  - BOILER WITH INTEGRAL CONTROLS MAINTAINS 200°F WATER TEMPERATURE. DISTRIBUTION HOT WATER SUPPLY IS PROPORTIONALLY RESET FROM OUTSIDE AIR TEMPERATURE IN ACCORD WITH THE FOLLOWING SCHEDULE:
    - OUTSIDE AIR 60°F AND ABOVE: HOT WATER SUPPLY TEMPERATURE = 160°F
    - OUTSIDE AIR 20°F AND BELOW: HOT WATER SUPPLY TEMPERATURE = 200°F
  - RADIATION PUMP (CP-2) OPERATES CONTINUOUSLY DURING WINTER. (SEASONAL ON-OFF FOR ALL EQUIPMENT IS MANUAL). HOT WATER SUPPLY TEMPERATURE TO RADIATION PIPING IS CONTROLLED BY ROOM THERMOSTAT AND MIXING VALVE.
  - VENTILATION HEATING PUMP (CP-1) OPERATES DURING WINTER WITH HV-1 AND HV-2.
  - MODIFICATIONS: REMOVE PROGRAMMING ASSOCIATED WITH DEMOLISHED EQUIPMENT AND DEVICES.
- 3. GENERAL LIBRARY VENTILATION (HV-1)
  - UNIT OPERATES AS SCHEDULED BY PROGRAM TIMER. UNIT FAN RUNS CONTINUOUSLY DURING DAY MODE AND IS OFF AT NIGHT. OUTSIDE AIR DAMPERS ARE CLOSED DURING NIGHT AND MORNING WARM-UP.
  - MIXED AIR CONTROLLER AND HEATING COIL FUNCTION IN SEQUENCE TO PROVIDE ASHRAE II CYCLE IN RESPONSE TO ROOM THERMOSTAT. MINIMUM SUPPLY AIR TEMPERATURE IS 60°F.
  - COIL CIRCULATING PUMP (CP-3) RUNS CONTINUOUSLY AT OUTSIDE TEMPERATURES BELOW 40°F. FREEZE-STAT STOPS FAN AND CLOSES OUTSIDE AIR DAMPERS WHEN FAN DISCHARGE TEMPERATURE FALLS BELOW 40°F.
  - DUCT HEATING COILS PROVIDE SUPPLEMENTAL HEAT TO EXERIOR ZONES IN RESPONSE TO ROOM THERMOSTATS. VENTILATION SYSTEM THERMOSTATS ACTIVATE AT LOWER TEMPERATURE RADIANT SYSTEM THERMOSTAT. VENTILATION HEATING SUPPLEMENTS RADIANT HEATING. MODIFICATION:
  - MODIFICATIONS: REMOVE PROGRAMMING ASSOCIATED WITH DEMOLISHED EQUIPMENT AND DEVICES. NEW VARIABLE FREQUENCY DRIVE MODULATES FAN SPEED TO MAINTAIN NEW DUCT STATIC PRESSURE SETPOINT DETERMINED BY BALANCER. INTERLOCK NEW ISOLATION DAMPER WITH SUPPLY FAN. FAN SHALL NOT START UNTIL DAMPER HAS PROVEN OPEN.
  - MODIFICATIONS: SEE HEATING COIL CONTROL FOR REVISED DUCT COIL CONTROLS.
- 4. CONFERENCE ROOM VENTILATION (HV-2) (DEMOLISHED)
  - HV-2 OPERATION IS SIMILAR TO HV-1, EXCEPT THERE ARE NO DUCT HEATING COILS OR CIRCULATION PUMP.
- 5. MEZZANINE HEAT PUMP (HP-1) (DEMOLISHED)
  - UNIT OPERATES AS SCHEDULED BY PROGRAM TIMER. UNIT FAN RUNS CONTINUOUSLY DURING DAY MODE AND CYCLES AT NIGHT ONLY TO MAINTAIN ROOM TEMPERATURE (HEATING). OUTSIDE AIR DAMPERS ARE CLOSED AND COOLING IS LOCKED OUT AT NIGHT. ROOM TEMPERATURE IS NOT SET BACK AT NIGHT.
  - FACTORY FURNISHED THERMOSTAT SEQUENCES COOLING, HEAT PUMP HEATING AND RESISTANCE HEATING. UNIT HAS FACTORY-FURNISHED ECONOMIZER CONTROL.
- 6. MISCELLANEOUS
  - EXHUAST FANS ARE CONTROLLED VIA TIME CLOCK, VARIABLE SPEED SWITCH, INTEGRAL STARTER, LIGHT SWITCH, THERMOSTAT, OR MANUALLY.
  - FINE TUBE RADIATION UNITS ARE MANUALLY CONTROLLED WITH RADIATOR VALVES

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name
PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

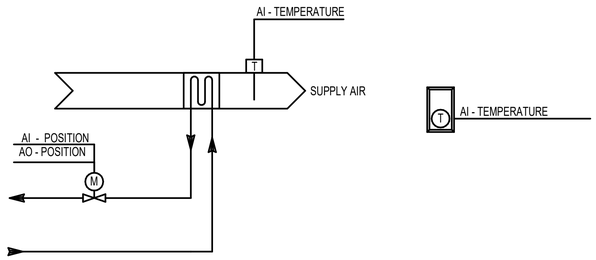
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CONTROL DIAGRAMS - MECHANICAL

M701

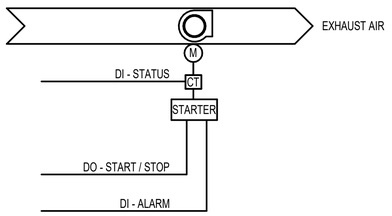
Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/28/2026 2:43:49 PM



1 DUCT HEATING COIL
NONE

DUCT HEATING COIL

- GENERAL
  - DUCT HEATING COIL INTEGRAL TO HV-1 VENTILATION SYSTEM. PROVIDES SUPPLEMENTAL HEAT.
  - DUCT HEATING COIL OPERATES AS VARIABLE FLOW TO MAINTAIN ZONE TEMPERATURE SETPOINT
  - APPLIES TO UNITS WITH PRESSURE-INDEPENDENT CONTROL VALVES AND STANDARD TWO-WAY VALVES
- SCHEDULE OF OPERATION
  - DUCT HEATING COIL SCHEDULE MATCHES ASSOCIATED AIR HANDLER SEQUENCE OF OPERATION
- OCCUPIED MODE
  - ZONE TEMPERATURE CONTROL
    - ZONE TEMPERATURE BELOW HEATING SETPOINT
      - LEAVING AIR TEMPERATURE SETPOINT SET TO MAXIMUM VALUE
      - HEATING COIL MODULATES TO MAINTAIN LEAVING AIR TEMPERATURE SETPOINT
    - ZONE TEMPERATURE ABOVE HEATING SETPOINT
      - HEATING COIL CLOSED.
- UNOCCUPIED MODE
  - HEATING COIL CLOSED.
- ALARMS/SAFETIES
  - LOW SPACE TEMPERATURE ALARM: SPACE TEMPERATURE IS MORE THAN 10 DEGREES BELOW SETPOINT FOR 10 MINUTES
  - LOW LEAVING AIR TEMPERATURE ALARM: LEAVING AIR TEMPERATURE IS MORE THAN 10 DEGREES BELOW SETPOINT FOR 5 MINUTES
  - HIGH LEAVING AIR TEMPERATURE ALARM: LEAVING AIR TEMPERATURE IS MORE THAN 10 DEGREES ABOVE SETPOINT FOR 5 MINUTES
- POINTS FOR MONITORING
  - HEATING COIL VALVE POSITION
- NOTES
  - SETPOINTS AND VARIABLES ARE TO BE INDIVIDUALLY ADJUSTABLE THROUGH CONTROL SYSTEM GRAPHICAL USER INTERFACE
  - ZONES SERVED BY SPLIT SYSTEM FAN COIL UNITS AND DUCT HEATING COILS: CONFIGURE ROOM TEMPERATURE SETPOINT FOR DUCT HEATING COIL TO BE 5 DEG F (ADJ) BELOW FAN COIL UNIT ROOM SETPOINT

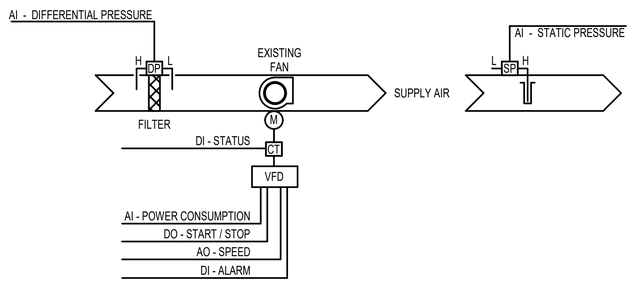


2 EF-XXX - GENERAL EXHAUST
NONE

EXHAUST FAN - GENERAL

- GENERAL
  - FAN OPERATES AT CONSTANT SPEED
- SCHEDULE OF OPERATION
  - FAN ENABLED WHEN COMMANDED BY CONTROL SYSTEM
- OCCUPIED MODE
  - FAN OPERATES AT SPEED SET BY BALANCER
- UNOCCUPIED MODE
  - FAN OFF
- ALARMS/SAFETIES
  - FAN STATUS
- POINTS FOR MONITORING
  - NONE
- NOTES
  - SETPOINTS AND VARIABLES ARE TO BE INDIVIDUALLY ADJUSTABLE THROUGH CONTROL SYSTEM GRAPHICAL USER INTERFACE

AHU CABINET AND OTHER DEVICES NOT SHOWN



3 HV-1 - CAV - SINGLE ZONE
NONE

AIR HANDLING UNIT - CAV - SINGLE ZONE (HV-1)

- GENERAL
  - SEE EXISTING CONTROLS SECTION FOR MORE INFORMATION. ALL ITEMS NOT LISTED BELOW ARE EXISTING TO REMAIN
  - SINGLE ZONE AIR HANDLING UNIT OPERATES AT VARIABLE VOLUME
  - SUPPLY FAN CONTROL
    - FAN STARTS AT MINIMUM SPEED
      - VFD MODULATES FAN SPEED TO MAINTAIN SUPPLY DUCT STATIC PRESSURE SETPOINT.
      - SETPOINT ESTABLISHED DURING TAB TO MAINTAIN DESIGN AIRFLOW
- POINTS FOR MONITORING
  - VARIABLE FREQUENCY DRIVE SPEED
  - VARIABLE FREQUENCY DRIVE CURRENT
  - VARIABLE FREQUENCY DRIVE ENERGY USE
- NOTES
  - SETPOINTS AND VARIABLES ARE TO BE INDIVIDUALLY ADJUSTABLE THROUGH CONTROL SYSTEM GRAPHICAL USER INTERFACE

SYSTEM CONTROLS

- GENERAL
  - THE FOLLOWING OUTLINES THE SYSTEM LEVEL CONTROLS FOR THE PROJECT
  - THE SEQUENCES OF OPERATION PRESENTED ARE INTENDED TO BE PERFORMANCE BASED. IMPLEMENTED CONTROL SEQUENCES THAT PROVIDE THE SAME FUNCTIONAL RESULT USING DIFFERENT DETAILED LOGIC ARE ACCEPTABLE.
- SCHEDULE OF OPERATION
  - PROVIDE A MINIMUM OF SIX SCHEDULES FOR EQUIPMENT OPERATION INCLUDING THE FOLLOWING COMPONENTS AS A MINIMUM
    - SEVEN UNIQUE DAYS PER WEEK
    - INDIVIDUAL TIME CYCLE CAPABILITY FOR EACH PIECE OF EQUIPMENT
- OCCUPIED MODE
  - EACH SYSTEM ENTERS OCCUPIED MODE AS DETERMINED BY THE SCHEDULE OF OPERATION
    - OPTIMUM START: PROVIDE CONTROLS FOR EACH SYSTEM THAT VARY THE START-UP TIME TO MEET THE TEMPERATURE SET POINT AT THE TIME OF OCCUPANCY
  - MANUAL OVERRIDE: ALLOW TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS BASED ON INPUT FROM ANY ONE OF THE FOLLOWING
    - CONTROLS SYSTEM USER INPUT
    - ROOM TEMPERATURE SENSORS WITH OVERRIDE REQUEST BUTTON
    - MANUAL OPERATED TIMER
    - OCCUPANCY SENSOR
- UNOCCUPIED MODE
  - EACH SYSTEM ENTERS UNOCCUPIED MODE AS DETERMINED BY THE SCHEDULE OF OPERATION
    - ZONE TEMPERATURE SETPOINTS CHANGE TO SETBACK VALUES
- INPUTS/OUTPUTS
  - DIGITAL INPUTS (DI): TWO STATE SIGNAL FROM SENSING DEVICE TO CONTROL SYSTEM. EXAMPLES: ON/OFF, OPEN/CLOSE, ENABLE/DISABLE.
  - DIGITAL OUTPUTS (DO): TWO STATE SIGNAL FROM CONTROL SYSTEM TO CONTROL DEVICE. EXAMPLES: ON/OFF, OPEN/CLOSE, ENABLE/DISABLE.
  - ANALOG INPUTS (AI): LOW VOLTAGE, CURRENT, OR RESISTANCE SIGNAL FROM SENSING DEVICE TO CONTROL SYSTEM. EXAMPLES: 0 TO 10 VDC, 4 TO 20 mA.
  - ANALOG OUTPUTS (AO): LOW VOLTAGE, CURRENT, OR RESISTANCE SIGNAL FROM CONTROL SYSTEM TO CONTROL DEVICE. EXAMPLES: 0 TO 10 VDC, 4 TO 20 mA.
- ZONE TEMPERATURE CONTROLS
  - DEADBAND:
    - WHERE USED TO CONTROL BOTH HEATING AND COOLING PROVIDE A MINIMUM DEADBAND OF 5 DEGREEES F BETWEEN HEATING AND...
    - WHEN ZONE TEMPERATURE IS WITHIN DEADBAND: HEATING AND COOLING ENERGY TO THE ZONE IS SET TO MINIMUM OR OFF
  - TEMPERATURE SENSORS WITH USER ADJUSTMENT CAPABILITY
    - WARMER: INCREASE HEATING AND COOLING SETPOINTS BY 2 DEGREES F
    - COLDER: DECREASE HEATING AND COOLING SETPOINTS BY 2 DEGREES F
- ZONE TEMPERATURE SETPOINTS
  - OFFICE/CONFERENCE/OCCUPIED ZONES
    - HEATING SETPOINT: 70 DEGREES F
    - COOLING SETPOINT: 75 DEGREES F
  - IDF/MDF ZONES
    - HEATING SETPOINT: 55 DEGREES F
    - COOLING SETPOINT: 78 DEGREES F
  - ALL ZONES:
    - SETBACK: PROVIDE CONTROLS FOR EACH ZONE TO ALLOW THE SYSTEM TO OPERATE TO MAINTAIN THE FOLLOWING RELAXED SETPOINTS
      - SETBACK HEATING SETPOINT: 55 DEGREES F
      - SETBACK COOLING SETPOINT: 85 DEGREES F
- ZONE CARBON DIOXIDE SETPOINTS
  - OFFICE ZONES
    - SETPOINT: 900 PPM
  - CONFERENCE / MULTIPURPOSE / BREAKROOM / PLAY AREA ZONES
    - SETPOINT: 1200 PPM
- ZONE REFRIGERANT SETPOINTS
  - REFRIGERANT MACHINERY ZONES
    - R-32 SETPOINT: 1,000 PPM
- ALARMS/SAFETIES
  - ZONE TEMPERATURE:
    - HEATING ALARM: ZONE TEMPERATURE DROPS BELOW HEATING SETPOINT BY 5 DEGREES F FOR 15 MINUTES
    - COOLING ALARM: ZONE TEMPERATURE RISES ABOVE COOLING SETPOINT BY 5 DEGREES F FOR 15 MINUTES
  - ZONE CARBON DIOXIDE ALARM:
    - ZONE CARBON DIOXIDE LEVEL RISES ABOVE SETPOINT BY 200 PPM FOR 15 MINUTES
  - ZONE REFRIGERANT ALARM:
    - ZONE REFRIGERANT LEVEL RISES ABOVE SETPOINT
- NOTES
  - SETPOINTS AND VARIABLES ARE TO BE INDIVIDUALLY ADJUSTABLE THROUGH CONTROL SYSTEM GRAPHICAL USER INTERFACE

ENERGY MANAGEMENT SYSTEM

- GENERAL
  - THE FOLLOWING OUTLINES THE MEASURING AND DISPLAY REQUIREMENTS FOR THE ENERGY MANAGEMENT SYSTEM
  - SOURCE METERING
    - ELECTRICAL ENERGY METERS
      - PROVIDE METERS AT CONNECTIONS TO UTILITY, REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR QUANTITY AND LOCATIONS
  - END-USE METERING
    - WATER FLOW METERS
      - PROVIDE METERS AT CONNECTIONS TO HVAC AND PLUMBING SYSTEMS, REFER TO HVAC AND PLUMBING ONE-LINE DIAGRAMS FOR QUANTITY AND LOCATIONS
    - ELECTRICAL ENERGY METERS
      - PROVIDE METERS AT CONNECTIONS TO HVAC, LIGHTING, PLUG LOADS, AND PLUMBING SYSTEMS, REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR QUANTITY AND LOCATIONS
    - BTU METERS
      - PROVIDE METERS AT HVAC SYSTEMS TO RECORD ENERGY USE, REFER TO MECHANICAL ONE-LINE DIAGRAM FOR QUANTITY AND LOCATIONS
    - VARIABLE FREQUENCY DRIVE POWER METERING
      - COLLECT ENERGY USE DATA FROM VARIABLE FREQUENCY DRIVES

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

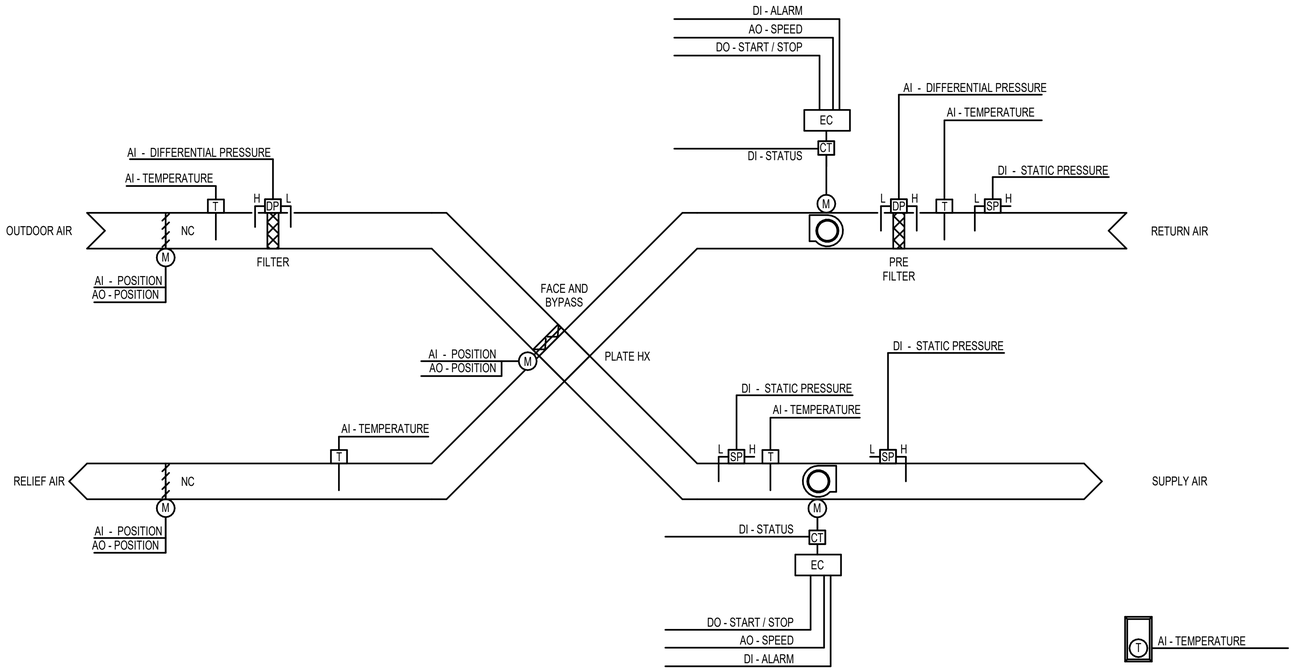
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CONTROL DIAGRAMS - MECHANICAL

M702

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/23-1065 - City of Bellingham Cent Lib Renv_MEP25.rvt
9/29/2025 2:42:41 PM



1 ERV-2 - DOAS - SINGLE ZONE
NONE

AIR HANDLING UNIT - ERV-2 - SINGLE ZONE

- GENERAL
  - SINGLE ZONE AIR HANDLING UNIT OPERATES AT CONSTANT VOLUME
  - PACKAGED CONTROLS OPERATE FANS, SAFETIES, FROST PROTECTION, ALARMS, BYPASS, FILTER MONITORING. THIS SEQUENCES MAY BE SUBSTITUTED WHERE PACKAGED SEQUENCES PROVIDE AN EQUIVALENT FUNCTIONALITY.
  - FIELD CONTROLS OPERATE SCHEDULING.
- SCHEDULE OF OPERATION
  - UNIT OPERATES WHEN COMMANDED BY CONTROL SYSTEM
- HEAT EXCHANGER FACE AND BYPASS DAMPER CONTROL
  - FACE AND BYPASS DAMPERS MODULATE BASED ON OUTDOOR AIR TEMPERATURE TO ACHIEVE AIR-SIDE ECONOMIZER OPERATION IN COOLING MODE
    - ZONE TEMPERATURE BELOW HEATING SETPOINT
      - FACE DAMPER OPEN
      - BYPASS DAMPER CLOSED
    - ZONE TEMPERATURE ABOVE COOLING SETPOINT AND OUTDOOR AIR TEMPERATURE BELOW ZONE TEMPERATURE
      - FACE DAMPER CLOSED
      - BYPASS DAMPER OPEN
    - ZONE TEMPERATURE ABOVE COOLING SETPOINT AND OUTDOOR AIR TEMPERATURE ABOVE ZONE TEMPERATURE
      - FACE DAMPER OPEN
      - BYPASS DAMPER CLOSED
  - FACE AND BYPASS DAMPERS MODULATE BASED ON RELIEF AIR AND OUTDOOR AIR TEMPERATURES TO PREVENT FROSTING OF HEAT EXCHANGER SURFACES
    - OUTDOOR AIR TEMPERATURE BELOW 32 DEGREES F
      - FACE DAMPER AND BYPASS DAMPER MODULATE TO MAINTAIN RELIEF AIR TEMPERATURE ABOVE 34 DEGREES F
- OCCUPIED MODE
  - AIR HANDLING UNIT BEGINS OPERATION AT MINIMUM SPEED
    - OUTSIDE AIR DAMPER OPEN
    - RELIEF AIR DAMPER OPEN
  - SUPPLY FAN CONTROL
    - FAN STARTS AT MINIMUM SPEED AND MODULATES TO BALANCED SETPOINT
  - RETURN FAN CONTROL
    - FAN STARTS AT MINIMUM SPEED AND MODULATES TO BALANCED SETPOINT
- UNOCCUPIED MODE
  - AIR HANDLING UNIT SHUT OFF. ALL COMPONENTS IN NORMAL DE-ENERGIZED POSITIONS.
  - DAMPERS CLOSED.
- ALARMS/SAFETIES
  - LOW LEAVING AIR TEMPERATURE ALARM: LEAVING AIR TEMPERATURE IS LESS THAN 55 DEGREES F FOR 10 MINUTES
  - FIRE ALARM SHUTDOWN SAFETY: UPON RECEIVING FIRE ALARM SIGNAL FROM FIRE ALARM SYSTEM TURN AIR HANDLER OFF, ALL COMPONENTS IN NORMAL DE-ENERGIZED POSITIONS
  - FILTER CHANGE ALARM: WHEN DIFFERENTIAL PRESSURE MEASURED ACROSS FILTER BANK INDICATES THE STATIC PRESSURE DROP EXCEEDS 0.5 INCHES W.G. ABOVE CLEAN
  - SUPPLY FAN DISCHARGE PRESSURE HIGH LIMIT SAFETY: IN THE EVENT THE STATIC PRESSURE EXCEEDS 2.0 INCHES W.G. HARD WIRED MANUAL RESET PRESSURE SWITCH SHUTS DOWN FAN
  - SUPPLY FAN INLET PRESSURE LOW LIMIT SAFETY: IN THE EVENT THE STATIC PRESSURE EXCEEDS -1.50 INCHES W.G. HARD WIRED MANUAL RESET PRESSURE SWITCH SHUTS DOWN FAN
  - RETURN FAN INLET PRESSURE LOW LIMIT SAFETY: IN THE EVENT THE STATIC PRESSURE EXCEEDS -1.50 INCHES W.G. HARD WIRED MANUAL RESET PRESSURE SWITCH SHUTS DOWN FAN
- POINTS FOR MONITORING
  - ALL AVAILABLE BACNET POINTS FROM PACKAGED CONTROLLER
- NOTES
  - SETPOINTS AND VARIABLES ARE TO BE INDIVIDUALLY ADJUSTABLE THROUGH CONTROL SYSTEM GRAPHICAL USER INTERFACE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CONTROL DIAGRAMS - MECHANICAL

M704

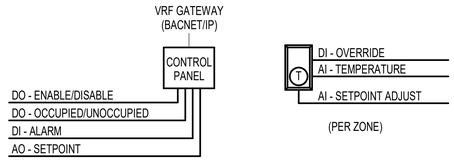
Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/16/2026 2:45:47 PM

VRF SYSTEM

- GENERAL
  - PACKAGED CONTROLLER FURNISHED WITH UNIT.
  - BMS MONITORS EQUIPMENT AND SETS SCHEDULE
  - PACKAGED CONTROLLER MONITORS REFRIGERANT SYSTEM, INITIATES ALARM AND VENTILATION IN CASE OF REFRIGERANT LEAK
- SCHEDULE OF OPERATION
  - UNIT OPERATES IN OCCUPIED MODE DURING OCCUPIED HOURS
  - UNIT OPERATES IN NIGHT SETBACK MODE DURING UNOCCUPIED HOURS
  - UNIT OPERATES WITH OPTIMUM START TO ACHIEVE OCCUPIED SETPOINT PRIOR TO SCHEDULED OCCUPIED TIME.
- OCCUPIED MODE
  - PACKAGED CONTROLLER OPERATES INDOOR AND OUTDOOR UNITS TO MAINTAIN SPACE TEMPERATURE SETPOINTS
  - PACKAGED CONTROLLER INITIATES COOLING, HEATING, DEADBAND, UNOCCUPIED, NIGHT SETBACK, AND DEFROST CONTROL MODES.
  - PACKAGED CONTROLLER MODULATES INDOOR UNIT SUPPLY FAN(S)
  - PACKAGED CONTROLLER MANAGES REFRIGERANT FLOW.
- OCCUPIED MODE
  - UNIT OPERATES AT REDUCED CAPACITY (NIGHT SET-BACK)
  - ZONE TEMPERATURE SETPOINTS INCREASED BY 5 DEG F UNLESS OVERRIDDEN AT THERMOSTAT
- ALARMS/SAFETIES
  - HIGH REFRIGERANT PRESSURE
  - LOW REFRIGERANT PRESSURE
  - COMPRESSOR OVERLOAD
  - LOSS OF AIRFLOW
  - FAN FAILURE (INDOOR OR OUTDOOR)
  - SENSOR FAILURE
  - FAULT
  - DUCTED UNITS: DIRTY FILTER (MEASURED PRESSURE DROP OR RUNTIME)
- POINTS FOR MONITORING
  - UNIT RUN STATUS
  - GENERAL ALARM
  - SPACE TEMPERATURE
  - SPACE TEMPERATURE SETPOINT
  - ALL AVAILABLE BACNET POINTS
- NOTES
  - SETPOINTS AND VARIABLES ARE TO BE INDIVIDUALLY ADJUSTABLE THROUGH CONTROL SYSTEM GRAPHICAL USER INTERFACE
  - ALARMS SHALL BE VISIBLE AT THE GRAPHICAL USER INTERFACE

SPLIT SYSTEM HEAT PUMP

- GENERAL
  - PACKAGED CONTROLLER FURNISHED WITH UNIT.
  - BMS MONITORS EQUIPMENT AND SETS SCHEDULE
- SCHEDULE OF OPERATION
  - UNIT OPERATES IN OCCUPIED MODE DURING OCCUPIED HOURS
  - UNIT OPERATES IN NIGHT SETBACK MODE DURING UNOCCUPIED HOURS
  - UNIT OPERATES WITH OPTIMUM START TO ACHIEVE OCCUPIED SETPOINT PRIOR TO SCHEDULED OCCUPIED TIME.
- OCCUPIED MODE
  - PACKAGED CONTROLLER OPERATES INDOOR AND OUTDOOR UNITS TO MAINTAIN SPACE TEMPERATURE SETPOINTS
  - PACKAGED CONTROLLER INITIATES COOLING, HEATING, DEADBAND, UNOCCUPIED, NIGHT SETBACK, AND DEFROST CONTROL MODES.
  - PACKAGED CONTROLLER MODULATES INDOOR UNIT SUPPLY FAN(S)
  - PACKAGED CONTROLLER MANAGES REFRIGERANT FLOW.
- OCCUPIED MODE
  - UNIT OPERATES AT REDUCED CAPACITY (NIGHT SET-BACK)
  - ZONE TEMPERATURE SETPOINTS INCREASED BY 5 DEG F UNLESS OVERRIDDEN AT THERMOSTAT
- ALARMS/SAFETIES
  - HIGH REFRIGERANT PRESSURE
  - LOW REFRIGERANT PRESSURE
  - COMPRESSOR OVERLOAD
  - LOSS OF AIRFLOW
  - FAN FAILURE (INDOOR OR OUTDOOR)
  - SENSOR FAILURE
  - FAULT
  - DUCTED UNITS: DIRTY FILTER (MEASURED PRESSURE DROP OR RUNTIME)
- POINTS FOR MONITORING
  - UNIT RUN STATUS
  - GENERAL ALARM
  - SPACE TEMPERATURE
  - SPACE TEMPERATURE SETPOINT
  - ALL AVAILABLE BACNET POINTS
- NOTES
  - SETPOINTS AND VARIABLES ARE TO BE INDIVIDUALLY ADJUSTABLE THROUGH CONTROL SYSTEM GRAPHICAL USER INTERFACE
  - ALARMS SHALL BE VISIBLE AT THE GRAPHICAL USER INTERFACE



1 VRF & SPLIT SYSTEM INTERFACE
NONE

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CONTROL DIAGRAMS - MECHANICAL

M705

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renv_MEPT23.rvt
9/29/2025 2:42:49 PM

MISC. FITTINGS & SYMBOLS

- DIRECTION OF FLOW
- DIRECTION OF SLOPE
- PIPE SLEEVE
- REDUCER
- ANCHOR
- ELBOW (90 DEGREE)
- ELBOW (45 DEGREE)
- PIPING CONNECTIONS
- TEE
- JOINT OR COUPLING POINT
- UNION
- FLANGED CONNECTION
- CAP
- PLUG OR BLIND FLANGE
- RISER
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- FLEXIBLE HOSE CONNECTOR
- MC — MECHANICAL COUPLING
- HEAT TRACE
- PIPE CONTINUATION

DEMOLITION LEGEND

- REMOVE EXISTING PIPE
- REMOVE EXISTING EQUIPMENT

NEW, EXISTING, & FUTURE WORK

EXISTING PIPING | NEW PIPING | FUTURE PIPING

EXISTING EQUIPMENT | NEW EQUIPMENT | FUTURE EQUIPMENT

EXISTING EQUIPMENT CLEARANCES | NEW EQUIPMENT CLEARANCES | FUTURE EQUIPMENT CLEARANCES

PLUMBING SPECIALITIES

- CLEANOUT
- FLOOR CLEANOUT
- CLEANOUT TO GRADE
- WALL CLEANOUT
- AREA DRAIN
- CATCH BASIN
- FLOOR DRAIN
- OVERFLOW ROOF DRAIN
- ROOF DRAIN
- TRENCH SHOWER DRAIN
- TRENCH DRAIN
- HOSE BIBB
- GROUND HYDRANT
- WALL HYDRANT
- WALL BOX
- FLOOR SINK
- THRUST BLOCK

SYMBOLS

A	ACCESS PANEL	#	NUMBERED NOTE
	POINT OF CONNECTION	X	REMOVE EXISTING
E	EXISTING TO REMAIN	K	CAP EXISTING / CAP FOR FUTURE
B	BELOW GRADE / FLOOR	R	RELOCATE EXISTING
1	REVISION NUMBER	F	FUTURE

SENSORS

T (WALL-MOUNTED) / T (PENDENT-MOUNTED)	TEMPERATURE	CO / CO	CARBON MONOXIDE
H / H	HUMIDITY	CO2 / CO2	CARBON DIOXIDE
DP / DP	DIFFERENTIAL PRESSURE SWITCH	NOX / NOX	NITROGEN OXIDE

EQUIPMENT

- XX-XXX — UNIT NUMBER; FLOOR UNIT IS LOCATED ON; EQUIPMENT TYPE
- XXXX-XX-XXXXX — UNIT NUMBER; FLOOR UNIT IS LOCATED ON; EQUIPMENT TYPE

EQUIPMENT PROVIDED BY OTHERS

- XXX — TAG NUMBER

FIXTURES

- XX-XXX
- XXX — FIXTURE NUMBER
- FIXTURE UNITS
- FIXTURE TYPE

DETAIL CALLOUT

- X — DETAIL NUMBER
- XX.XX — SHEET NUMBER

RISER TAG

- SYSTEM TYPE
- RISER NUMBER — X / XX

PLUMBING SHEET LIST

SHEET #	SHEET NAME
P001	SYMBOLS AND LEGENDS - PLUMBING
P002	ABBREVIATIONS AND NOTES - PLUMBING
P003	EQUIPMENT SCHEDULE - PLUMBING
PD100	UNDERGROUND DEMOLITION PLAN - PLUMBING
PD101	GROUND LEVEL DEMOLITION PLAN - PLUMBING
PD111	GROUND FLOOR MEZZANINE DEMO PLAN - PLUMBING
PD121	FIRST FLOOR DEMOLITION PLAN - PLUMBING
PD131	SECOND FLOOR DEMO PLAN - PLUMBING
PD141	ROOF DEMOLITION PLAN - PLUMBING
P100	UNDERGROUND PLAN - PLUMBING
P101	GROUND FLOOR PLAN - PLUMBING
P111	GROUND FLOOR MEZZANINE PLAN - PLUMBING
P121	FIRST FLOOR PLAN - PLUMBING
P131	SECOND FLOOR PLAN - PLUMBING
P141	ROOF PLAN - PLUMBING
P401	ENLARGED PLANS - PLUMBING
P501	DETAILS - PLUMBING
Grand total: 17	

GENERAL NOTES:

A. THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

MISC. VALVES & COCKS

- SHUTOFF VALVE
- GLOBE VALVE
- GATE VALVE OS&Y
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- WYE STRAINER
- WYE STRAINER WITH BLOWDOWN
- DRAIN VALVE
- BALANCING VALVE
- FC — AUTOMATIC FLOW CONTROL VALVE
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- TRIPLE DUTY VALVE
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- THREE-WAY BALANCING VALVE
- GAS COCK VALVE
- PLUG VALVE
- BOILER BLOWDOWN VALVE, QUICK OPENING
- BOILER BLOWDOWN VALVE, Y-PATTERN
- NON-RETURN STOP VALVE
- F&T — FLOAT AND THERMOSTATIC STEAM TRAP
- IB — INVERTED BUCKET STEAM TRAP
- DOUBLE CHECK VALVE ASSEMBLY (DCVA)
- REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
- BWV — BACKWATER VALVE
- PIV — POST INDICATOR VALVE
- UG — UNDERGROUND GATE VALVE WITH VALVE BOX
- WATER FLOW METER

- THERMOMETER
- PRESSURE GAUGE
- PRESSURE-TEMPERATURE TEST PLUG
- MAV — MANUAL AIR VENT
- AAV — AUTOMATIC AIR VENT
- F — FLOW SWITCH
- T — TEMPERATURE SENSOR
- S (SIZE) — SHOCK ARRESTOR
- V — VACUUM BREAKER
- S — SHUTOFF VALVE WITH TAMPER SWITCH
- S — SOLENOID VALVE
- P — PRESSURE SENSOR

PLUMBING PIPING

———	W	WASTE ABOVE GRADE
— — —	W	WASTE BELOW GRADE
———	PW	PUMPED WASTE ABOVE GRADE
— — —	PW	PUMPED WASTE BELOW GRADE
———	SD	STORM DRAIN ABOVE GRADE
— — —	SD	STORM DRAIN BELOW GRADE
———	PSD	PUMPED STORM DRAIN ABOVE GRADE
— — —	PSD	PUMPED STORM DRAIN BELOW GRADE
———	OD	OVERFLOW DRAIN ABOVE GRADE
— — —	OD	OVERFLOW DRAIN BELOW GRADE
———	GW	GREASE WASTE ABOVE GRADE
— — —	GW	GREASE WASTE BELOW GRADE
- - - -	GV	GREASE VENT
———	D	DRAIN (CONDENSATE/INDIRECT)
- - - -	V	VENT
——— – ———	CW	COLD WATER
——— – – ———	HW	HOT WATER
——— – - – ———	RHW	RECIRCULATING HOT WATER

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SYMBOLS AND LEGENDS - PLUMBING

P001

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/28/2026 2:26:48 PM

MINIMUM PLUMBING CHASE WALL WIDTH REQUIREMENTS

FIXTURE TYPE	FIXTURE MOUNTING DESCRIPTION	DIMENSION FROM OUTER EDGE OF STUD TO OUTER EDGE OF STUD (INCHES)	
		SINGLE	DOUBLE BACK TO BACK
DRINKING FOUNTAINS AND WATER COOLERS	WALL HUNG DRINKING FOUNTAIN	6"	6"
	WALL HUNG WATER COOLER	12"	12"
FLOOR DRAIN	IN FLOOR	6"	6"
LAVATORY	WALL HUNG	6"	6"
	COUNTER MOUNT	6"	6"
SINK (KITCHEN)	COUNTER MOUNT	6"	6"
WATER CLOSET	WALL HUNG, FLUSH VALVE	14 - 1/2"	18"

NOTES:
1. FOR CONCRETE BLOCK WALLS, ALL DIMENSIONS SHOWN IN THIS TABLE ARE THE UNITERRUPTED INSIDE DIMENSIONS (NOT OUTSIDE DIMENSIONS).
2. WALL WIDTHS ARE THE MINIMUM REQUIRED FOR FIXTURE INSTALLATION. RISERS MAY REQUIRE ADDITIONAL WALL THICKNESS.

DOMESTIC COLD WATER PIPE SIZING

ALL WATER PIPE SIZED PER 2021 UPC APPENDIX A

BASED ON:
5 PSI PER 100 FT PRESSURE DROP
VELOCITY UNDER 8 FT/SEC

PIPE SIZE (IN)	MAX FLOW (GPM)	MAXIMUM FIXTURE UNITS	
		FLUSH TANK	FLUSH VALVE
3/4"	5	6	-
1"	11	15	-
1-1/4"	18	26	-
1-1/2"	28	49	11
2"	60	175	76
2-1/2"	110	431	295

DOMESTIC HOT WATER PIPE SIZING

ALL WATER PIPE SIZED PER: 2021 UPC APPENDIX A

BASED ON:
5 PSI PER 100 FT PRESSURE DROP
VELOCITY UNDER 5 FT/SEC

PIPE SIZE (IN)	MAX FLOW (GPM)	MAXIMUM FIXTURE UNITS	
		FLUSH TANK	FLUSH VALVE
3/4"	5	6	-
1"	11	15	-
1-1/4"	18	26	-
1-1/2"	28	49	-
2"	45	107	-

CONDENSATE DRAIN PIPE SIZING

ALL CONDENSATE DRAINAGE PIPING FROM AIR COOLING COILS SIZED PER: 2021 UPC, CH.8

THE SIZING IS FOR ONE OR MULTIPLE UNITS OR AS RECOMMENDED BY THE MANUFACTURER. THE CAPACITY OF WASTE PIPES ASSUMES 1/8" PER FOOT SLOPE AT 3/4 FULL FLOW.

EQUIPMENT CAPACITY OF REFRIGERATION (TONS)	PIPE SIZE (IN)
0 - 20	3/4"
21 - 40	1"
41 - 90	1-1/4"
91 - 125	1-1/2"
126 - 250	2"

WASHINGTON STATE BUILDING CODE CHAPTER 11 ACCESSIBILITY

NOTE NUMBER	NOTE DESCRIPTION
1	WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE A MINIMUM OF 17 INCHES AND A MAXIMUM OF 19 INCHES MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT SPRING TO RETURN TO A LIFTED POSITION. THE FORCE TO ACTIVATE FLUSH VALVES SHALL NOT BE HIGHER THAN 5 POUNDS AND SHALL PERMIT OPERATION BY WRIST OR ARM PRESSURE ON THEACCESS SIDE OF THE FIXTURE.
2	LAVATORIES AND SINKS: FAUCET CONTROL HANDLES SHALL BE LOCATED NOT MORE THAN 17 INCHES FROM THE FRONT EDGE OF THE LAVATORY/SINK OR COUNTER. THE FORCE TO ACTIVATE VALVES SHALL NOT BE GREATER THAN 5 POUNDS AND SHALL PERMIT OPERATION BY WRIST OR ARM PRESSURE. SELF-CLOSING VALVES SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS PER OPERATION. HOT WATER AND DRAIN PIPES EXPOSED UNDER LAVATORIES AND SINKS SHALL BE INSULATED.
3	DRINKING FOUNTAINS: SPOUTS SHALL BE LOCATED NOT MORE THAN 36 INCHES ABOVE THE FLOOR. SPOUTS SHALL BE LOCATED AT THE FRONT OF THE UNIT AND SHALL DIRECT A WATER FLOW NOT LESS THAN 4 INCHES IN HEIGHT, IN A TRAJECTORY PARALLEL TO THE FRONT OF THE UNIT. CONTROLS SHALL BE LOCATED NOT MORE THAN 6 INCHES FROM THE FRONT OF THE UNIT AND SHALL PERMIT OPERATION BY WRIST OR ARM PRESSURE. THE FORCE TO ACTIVATE THE CONTROL SHALL NOT BE GREATER THAN 5 POUNDS.

PLUMBING NOTES

NUMBER	DESCRIPTION
1	ALL PLUMBING AND PIPING SHALL BE INSTALLED PER CURRENT UPC AND APPLICABLE LOCAL AMMENDMENTS.
2	DOMESTIC WATER PIPING AND PRODUCTS USED FOR POTABLE WATER SHALL CONFORM TOP THE REQUIREMENTS OF NSF-61.
3	PROVIDE COMPLETE SUBMITTAL PACKAGE FOR REVIEW. PLUMBING SUBMITTAL PACKAGE SHALL BE REVIEWED BY ENGINEER AND ARCHITECT PRIOR TO EQUIPMENT AND MATERIAL PURCHASE AND INSTALLATION.
4	PLUMBING FOREMAN SHALL PROVIDE MARKUP OF DEVIATIONS FROM CONTRACT DRAWINGS FOR INCORPORATION INTO AS-BUILT SET ON FULL SIZE DWGS.
5	COORDINATE FOOTING PENETRATIONS, BEAM PENETRATIONS AND FLOOR SLEEVES WITH STRUCTURAL ENGINEER.
6	PROTECT PIPING ENCASED IN PILE CAP OR MAT SLAB FOUNDATION CONCRETE WITH 1" WALL THICKNESS CELLULAR FOAM INSULATION.
7	ALL PIPE SIZING NOTED ON THE DRAWINGS ARE MINIMUM.
8	THESE PLANS ARE DIAGRAMMATIC AND DO NOT INDICATE EVERY OFFSET REQUIRED FOR ROUTING. IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO COORDINATE PIPE ROUTING AND ELEVATIONS WITH OTHER EFFECTED TRADES BEFORE CONSTRUCTION. WHERE CONFLICTS OCCUR, REROUTING MAY BE NECESSARY.
9	DUE TO THE DIAGRAMMATIC NATURE OF THE DRAWINGS AND FINAL ROUTING BY CONTRACTOR, NOT ALL CLEANOUTS ARE SHOWN ON THE DRAWINGS. PROVIDE CLEANOUTS ON ALL DRAINAGE SYSTEMS AND THEIR SHOP DRAWINGS TO INCLUDE BUT NOT LIMITED TO SANITARY SEWER AND STORM SYSTEM AS REQUIRED BY CODE AND PROJECT...
10	THE PLUMBER SHALL VERIFY ALL DRAIN AND PIPING LOCATIONS WITH THE ARCHITECTURAL, STRUCTURAL DRAWINGS. FIXTURE LOCATIONS AND ELEVATIONS ARE AS DEFINED IN THE ARCHITECTURAL AND LANDSCAPE PLANS.
11	ALL FIRE STOPPING OF MEMBRANE PENETRATIONS AS REQUIRED BY THE APPLICABLE BUILDING CODE SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.
12	ALL VALVES SHALL HAVE A MINIMUM OF 125 PSIG WORKING PRESSURE RATING. USE GATE VALVES, BUTTERFLY OR BALL VALVES ON ALL VALVES 2- 1/2" AND LARGER AND BALL VALVES ON ALL VALVES 2" AND SMALLER, EXCEPT WHERE NOTED OTHERWISE. ALL BALL AND GATE VALVES SHALL BE FULLWAY TYPE.
13	ALL HANGERS AND SUPPORTS PER MSS SP69. PIPING SYSTEMS INSULATED FOR THERMAL PERFORMANCE SHALL MAINTAIN CONTINUOUS INSULATION THROUGH HANGERS. INSULATION INSTALLED THROUGH HANGERS SHALL BE PROTECTED FROM COMPRESSION THROUGH THE USE OF PIPE SADDLES AND / OR HIGH DENSITY INSERTS. PROVIDE SUITABLE BRACING FOR HORIZONTAL CAST IRON PER UPC CHAPTER 3.
14	THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED ACCESS PANELS FOR ISOLATION VALVES AND CLEANOUTS AND OTHER ACCESSORIES. PLUMBING CONTRACTOR TO COORDINATE LOCATIONS WITH THE GENERAL CONTRACTOR.
15	ALL PIPING EXPOSED TO POTENTIALLY FREEZING CONDITIONS, INCLUDING BUT NOT LIMITED TO WATER AND IRRIGATION PIPING INSTALLED OUTDOORS OR WITHIN 100' OF AN UNCONDITIONED PARKING GARAGE ENTRY SHALL BE HEAT TRACED AND INSULATED. HEAT TRACE AND ACCESSORIES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL CIRCUIT WIRING, ELECTRICAL CONNECTIONS AND DISCONNECTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
16	THE PLUMBING CONTRACTOR SHALL PROVIDE AT A SINGLE LOCATION, ACCESSIBLE ISOLATION SHUTOFF VALVES FOR ALL DOMESTIC WATER PIPING SYSTEMS SERVING EACH RESTROOM GROUP.
17	INSTALL SHOCK-ARRESTING DEVICES TO PREVENT WATER HAMMER IN ALL PIPING SUBJECT TO FAST ACTING VALVES.
18	MOP SINK FAUCETS SHALL HAVE INTEGRAL CHECK STOPS OR SHALL BE PROVIDED WITH SPRING CHECKS IN ACCESSIBLE LOCATION FOR DOMESTIC HOT AND COLD WATER FIXTURE BRANCHES. MOP SINK FAUCETS USED FOR CHEMICAL DISPENSING SHALL HAVE LISTED REDUCED PRESSURE BACKFLOW PREVENTERS INSTALLED ON DOMESTIC HOT AND COLD SUPPLIES SERVING THE FAUCET.
19	PUBLIC LAVATORIES AND HAND SINKS SHALL SUPPLY DOMESTIC HOT WATER AT NO MORE THAN 120 DEG F. PROVIDE THERMOSTATIC TEMPERING VALVES CONFORMING TO ASSE 1070 AT PUBLIC LAVS AND HAND SINKS. FOR SINGLE SUPPLY LAVATORY FAUCETS WITHOUT USER TEMPERATURE CONTROL, SUPPLY HOT WATER AT NO MORE THAN 110 DEG F.
20	ALL PLUMBING FIXTURE INSTALLATIONS SHALL COMPLY WITH APPLICABLE BUILDING AND PLUMBING CODE INSTALLATION REQUIREMENTS. PLUMBING FIXTURES REQUIRED TO COMPLY WITH SPECIFIC ACCESSIBILITY STANDARDS SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A117.1. REFER TO THE ARCHITECTURAL PLANS FOR REQUIRED ACCESSIBILITY CLEARANCES, ELEVATIONS, DISTANCES FROM OBSTRUCTIONS, AND ALL OTHER ACCESSIBILITY REQUIREMENTS.

UPC [W] 609.9 DISINFECTION OF POTABLE WATER SYSTEM

NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR, IN CASE NO METHOD IS PRESCRIBED BY IT, THE FOLLOWING:

(1) THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL POTABLE WATER APPEARS AT THE POINT OF THE OUTLET.

(2) THE SYSTEM OF PARTS THEREOF SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED-OFF AND ALLOWED TO STAND FOR 24 HOURS; OR, THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING NOT LESS THAN 200 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS.

(3) FOLLOWING THE ALLOWED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL THE CHLORINE RESIDUAL IN THE WATER COMING FROM THE SYSTEM DOES NOT EXCEED THE CHLORINE RESIDUAL IN THE FLUSHING WATER.

(4) THE PROCEDURE SHALL BE REPEATED WHEN A STANDARD BACTERIOLOGICAL TEST FOR DRINKING WATER, PERFORMED BY A LABORATORY CERTIFIED FOR DRINKING WATER IN WASHINGTON STATE, SHOWS UNSATISFACTORY RESULTS INDICATING THAT CONTAMINATION PERSISTS IN THE SYSTEM.

STANDARD ABBREVIATIONS

AD	AREA DRAIN	EEW	EMERGENCY EYE WASH	ID	INSIDE DIAMETER, INSIDE DIMENSION	RM	ROOF MANIFOLD
ADA	AMERICANS WITH DISABILITIES ACT	EFF	EFFICIENCY	IE	INVERT ELEVATION	RN	RISER NIPPLE
AF	AIRFOIL	EFT	ENTERING FLUID TEMPERATURE	IN	INCH, INCHES	RPM	REVOLUTIONS PER MINUTE
AFF	ABOVE FINISHED FLOOR	ELEC	ELECTRIC, ELECTRICAL	INSUL	INSULATION	S	SINK
AHP	APPARATUS HOUSING PLENUM	ELEV	ELEVATION	IPS	IRON PIPE SIZE	SA	SUPPLY AIR
AL	ALUMINUM	ENGR	ENGINEER	ISO	ISOMETRIC	SB	SWAY BRACE
ALT	ALTERNATIVE	EQ	EQUAL	ISOL	ISOLATOR, ISOLATION	SCFM	STANDARD CUBIC FEET PER MINUTE
AP	ACCESS PANEL	EQUIP	EQUIPMENT	JP	JOCKEY PUMP	SD	SHOWER DRAIN (PLUMBING)
APD	AIR PRSSURE DROP	ES	EMERGENCY SHOWER	KW	KILOWATT	SD	SMOKE DAMPER (MECHANICAL)
APPROX	APPROXIMATELY	ESP	EXTERNAL STATIC PRESSURE	KWH	KILOWATT HOUR	SE	SEWAGE EJECTOR
ARCH	ARCHITECT, ARCHITECTURAL	ET	EXPANSION TANK	L	LENGTH	SECT	SECTION
AS	AUTOMATIC SPRINKLER	EWB	ENTERING WET BULB	LAT	LEAVING AIR TEMP	SENS	SENSIBLE
AUTO	AUTOMATIC	EWC	ELECTRIC WATER COOLER	LAV	LAVATORY	SF	SQUARE FOOT, SQUARE FEET
BDD	BACKDRAFT DAMPER	EWH	ELECTRIC WATER HEATER	LB	POUND	SH	SHOWER
BFF	BELOW FINISHED FLOOR	EWT	ENTERING WATER TEMPERATURE	LDB	LEAVING DRY BULB	SIM	SIMILAR
BHP	BREAK HORESPOWER	EX	EXTRACTOR	LF	LINEAR FEET	SOV	SHUTOFF VALVE
BI	BACKWARD INCLINED	EXP	EXPANSION	LFT	LEAVING FLUID TEMPERATURE	SP	STATIC PRESSURE
BLDG	BUILDING	EXH	EXHAUST OR EXHAUST AIR	LVG	LEAVING	SPEC	SPECIFICATION
BOP	BOTTOM OF PIPE	F	DEGREES FAHRENHEIT	LWB	LEAVING WET BULB	SQ	SQUARE
BOS	BOTTOM OF STRUCTURE	FC	FORWARD CURVED	LWT	LEAVING WATER TEMPERATURE	SQ IN	SQUARE INCH, SQUARE INCHES
BSMT	BASEMENT	FCO	FLOOR CLEANOUT	MAX	MAXIMUM	SS	STAINLESS STEEL (ALL)
BTU	BRITISH THERMAL UNIT	FD	FIRE DAMPER (MECHANICAL)	MBH	THOUSAND BTU PER HOUR	SSP	STANDARD SPRAY PENDENT
BTUH	BRITISH THERMAL UNITS PER HOUR	FD	FLOOR DRAIN (PLUMBING)	MCA	MINIMUM CIRCUIT AMPACITY	SSU	STANDARD SPRAY UPRIGHT
BTV	BUTTERFLY VALVE	FDC	FIRE DEPARTMENT CONNECTION	MECH	MECHANICAL	STL	STEEL
BV	BALANCING VALVE	FFE	FINISHED FLOOR ELEVATION	MERV	MINIMUM EFFICIENCY REPORTING VALUE	STRUCT	STRUCTURE, STRUCTURAL
CALC	CALCULATION	FIG	FIGURE	MFR	MANUFACTURER	SWP	SINGLE WALL PLENUM
CB	CATCH BASIN	FL	FLOOR	MIN	MINIMUM	SWSI	SINGLE WIDTH SINGLE INLET
CFH	CUBIC FEET PER HOUR	FLA	FULL LOAD AMPACITY	MISC	MISCELLANEOUS	TD	TRENCH DRAIN
CFM	CUBIC FEET PER MINUTE	FLEX	FLEXIBLE	MOCP	MAXIMUM OVERCURRENT PROTECTION	TDH	TOTAL DISCHARGE HEAD
CFS	CUBIC FEET PER SECOND	FP	FIRE PUMP	MS	MOP SINK	TDL	TOTAL DEVELOPED LENGTH
CI	CAST IRON	FPD	FLUID PRESSURE DROP	MTD	MOUNTED	TEMP	TEMPERATURE
CL	CENTERLINE	FPM	FEET PER MINUTE	NC	NORMALLY CLOSED	TMV	THERMOSTATIC MIXING VALVE
CLG	CEILING OR COOLING	FPS	FEET PER SECOND	NIC	NOT IN CONTRACT	TOP	TOP OF PIPE
CO	CARBON MONOXIDE	FS	FLOOR SINK	NO	NORMALLY OPEN	TP	TRAP PRIMER VALVE
CO	CLEANOUT	FSD	FIRE SMOKE DAMPER	NPS	NOMINAL PIPE SIZE	TS	TAMPER SWITCH
CONC	CONCRETE	FT	FEET/FOOT	NRS	NON-RISING STEM	TSP	TOTAL STATIC PRESSURE
CONN	CONNECT, CONNECTION	FTR	FINNED TUBE RADIATOR	NTS	NOT TO SCALE	TYP	TYPICAL
CONT	CONTINUED, CONTINUATION	FLT	FLUSH TANK	OAT	OUTSIDE AIR TEMPERATURE	U	URINAL
CP	CIRCULATING PUMP	FU	FIXTURE UNIT	OC	ON CENTER DISTANCE	UG	UNDERGROUND
CTG	CLEANOUT TO GRADE	FV	FLUSH VALVE	OD	OVERFLOW DRAIN	UP	UP (PENETRATES FLOOR SLAB)
CV	CHECK VALVE	(F)	FUTURE	OS&Y	OUTSIDE SCREW & YOKE GATE VALVE	UON	UNLESS OTHERWISE NOTED
DB	DRY BULB	G	GRADE	OSA	OUTSIDE AIR	V	VOLTS
DDC	DIRECT DIGITAL CONTROL	GA	GAGE/GAUGE	PD	PLANTER DRAIN	VB	VACUUM BREAKER
DEFL	DEFLECTION	GAL	GALLON	P/FT	PITCH PER FOOT	VD	VOLUME DAMPER
DF	DRINKING FOUNTAIN	GALV	GALVANIZED	PG	PRESSURE GAUGE	VEL	VELOCITY
DFU	DRAINAGE FIXTURE UNIT	GLY	GLYCOL	PH	PHASE	VERT	VERTICAL
DI	DEIONIZED	GH	GROUND HYDRANT	PIV	POST INDICATING VALVE	VFD	VARIABLE FREQUENCY DRIVE
DIA	DIAMETER	GPH	GALLONS PER HOUR	PP	POLYPROPYLENE	VTR	VENT THROUGH ROOF
DIP	DUCTILE IRON PIPE	GPM	GALLONS PER MINUTE	PRV	PRESSURE REDUCING VALVE	W	WIDTH
DN	DOWN (PENETRATES FLOOR)	GV	GATE VALVE	PS	PRESSURE SWITCH	WB	WET BULB
DP	DEW POINT	H	HEIGHT	PSI	POUNDS PER SQUARE INCH	WC	WATER CLOSET
DR	DRAIN	HB	HOSE BIBB	PSIG	POUNDS PER SQUARE INCH (GAUGE)	WCO	WALL CLEANOUT
DV	DRAIN VALVE	HD	HUB DRAIN	PVC	POLYVINYL CHLORIDE	WFU	WATER FIXTURE UNITS
DROP	DROP (WITHIN FLOOR)	HORIZ	HORIZONTAL	PVS	PVC COATED STEEL	WG	WATER GAUGE
DWDI	DOUBLE WIDTH DOUBLE INLET	HP	HORSEPOWER	R, RAD	RADIUS	WH	WALL HYDRANT
DWG	DRAWING	HR	HOUR	RA	RELIEF AIR	WHA	WATER HAMMER ARRESTOR
(E), EXIST	EXISTING	HSW	HORIZONTAL SIDE WALL	RD	ROOF DRAIN	WPD	WATER PRESSURE DROP
EAT	ENTERING AIR TEMPERATURE	HT	HEAT TRACE	RET	RETURN AIR	WTD	WATER TEMPERATURE DROP
EC	EXTENDED COVERAGE	HTG	HEATING	REV	REVISION	WTR	WATER TEMPERATURE RISE
ECM	ELECTRONICALLY COMMUTATED MOTOR	HV	HOSE VALVE	RH	RELATIVE HUMIDITY	W/	WITH
EDB	ENTERING DRY BULB	HVC	HOSE VALVE CABINET	RISE	RISE (WITHIN FLOOR)	W/O	WITHOUT

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
9/26/2025 2:55:56 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

ABBREVIATIONS AND NOTES - PLUMBING

P002

VRF INDOOR FAN COIL UNIT SCHEDULE (FOR REFERENCE ONLY)

GENERAL NOTES:
A. MINIMUM EFFICIENCY IS AT ARI STANDARD CONDITIONS.
B. ALL DUCTED AND CASSETTE UNITS ARE PROVIDED WITH AN INTEGRAL CONDENSATE PUMP CAPABLE OF 27 IN WG OF LIFT.
C. ALL FAN MOTORS ARE EC TYPE
D. DUCTWORK CONNECTED TO DUCTED FAN-COIL UNITS IS LOW PRESSURE
E. MINIMUM AND MAXIMUM ALLOWABLE SUPPLY AIR TEMPERATURES ARE 55°F AND 105°F, RESPECTIVELY.
F. PROVIDE REPLACEABLE MERV 8 FILTERS FOR DUCTED UNITS. PROVIDE 0.5-INCH W.G. DIRTY FILTER ALLOWANCE.

NOTES:
1. NONE.

						COOLING			HEATING CAPACITY		ELECTRICAL							
TAG	LOCATION	OUTDOOR UNIT	TYPE	AIRFLOW (CFM)	ESP (IN. W.G.)	SENSIBLE (TONS)	TOTAL (TONS)	EAT (°F DB/WB)	TOTAL (MBH)	EAT (°F)	VOLT/ PHASE	MCA (A)	MOCP (A)	CONDENSATE PUMP	APPROX. LINE LENGTH (LF)	APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
FCU-1	YOUTH STAFF	ODU-1	DUCTED	1,130	0.5	2.1	3.0	78/64	3.3	68	208/1	2.5	15	INTEGRAL	65	120	DAIKIN	
FCU-2	BREAK ROOM	ODU-1	DUCTED	750	0.5	1.7	2.0	78/64	2.3	68	208/1	1.8	15	INTEGRAL	90	80	DAIKIN	
FCU-3	MOTHERS	ODU-1	DUCTED	300	0.5	0.2	0.5	78/64	0.6	68	208/1	0.8	15	INTEGRAL	105	60	DAIKIN	
FCU-4	FRIENDS OF THE LIBRARY	ODU-1	DUCTED	300	0.5	0.4	0.6	78/64	0.7	68	208/1	0.8	15	INTEGRAL	120	60	DAIKIN	
FCU-7	OPEN WORK PLAN	ODU-5	DUCTED	340	0.5	0.7	1.0	78/64	13	68	208/1	0.8	15	INTEGRAL		80	DAIKIN	
FCU-8	OPEN WORK PLAN	ODU-5	DUCTED	320	0.5	0.5	0.75	80/67	10	68	208/1	0.8	15	INTEGRAL		80	DAIKIN	
FCU-9	OPEN WORK PLAN	ODU-5	DUCTED	560	0.5	0.8	1.2	80/67	15	68	208/1	1.8	15	INTEGRAL		100	DAIKIN	
FCU-10	OFFICE	ODU-5	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-11	OFFICE 230	ODU-5	WALL-MOUNT	-	-	0.6	0.75	80/67	9	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-12	OFFICE	ODU-5	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-13	OFFICE	ODU-5	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-14	OFFICE	ODU-5	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-15	OFFICE	ODU-5	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-16	DIRECTOR'S OFFICE	ODU-5	WALL-MOUNT	-	-	0.6	0.75	80/67	9	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-17	TOOLS	ODU-5	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-18	MEETING	ODU-5	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-19	WORKROOM	ODU-5	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-20	ASSISTANT OFFICE	ODU-5	WALL-MOUNT	-	-	0.4	0.5	80/67	6	68	208/1	0.3	15	INTEGRAL		40	DAIKIN	
FCU-21	BOARD ROOM	ODU-5	WALL-MOUNT			1.0	1.5	80/67	16	68	208/1	0.4	15	INTEGRAL		50	DAIKIN	

MINIMUM PIPE INSULATION

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE DIAMETER (IN)				
	CONDUCTIVITY (BTU-IN/(HR-SF-°F))	MEAN RATING TEMPERATURE (°F)	< 1	1 TO < 1-1/2	1-1/2 TO < 4	4 TO < 8	> 8
NOMINAL INSULATION THICKNESS (IN)							
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
LESS THAN 40	0.20 - 0.26	75	0.5	1.0	1.0	1.0	1.5

GENERAL NOTES:
A. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
B. FOR PIPING SMALLER THAN 1-1/2 INCH AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION FOR THESE THICKNESSES BY 1 INCH (25 MM) SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN NOTE 1) BUT NOT TO A THICKNESS LESS THAN 1 INCH.
C. FOR DIRECT-BURIED HEATING AND HOT WATER SYSTEM PIPING, REDUCTION OF THESE THICKNESSES BY 1-1/2 INCHES SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN NOTE D) BUT NOT TO THICKNESSES LESS THAN 1 INCH.
D. FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE DETERMINED AS FOLLOWS:
T = r{(1 + t/r)^(K/k) - 1}
WHERE:
T = MINIMUM INSULATION THICKNESS,
r = ACTUAL OUTSIDE RADIUS OF THE PIPE,
t = INSULATION THICKNESS LISTED IN THE TABLE FOR APPLICABLE FLUID TEMPERATURE AND PIPE SIZE,
K = CONDUCTIVITY OF ALTERNATE MATERIAL AT MEAN RATING TEMPERATURE INDICATED FOR THE APPLICABLE FLUID TEMPERATURE (BTU-IN/(HR-SF-°F))
k = THE UPPER VALUE OF THE CONDUCTIVITY RANGE LISTED INTHE TABLE FOR THE APPLCIABLE FLUID TEMPERATURE.

PLUMBING FIXTURE SCHEDULE

TAG NUMBER	ACCESSIBILITY	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER			ROUGH-IN CONNECTION SIZE (INCH)				MAXIMUM GPM / GPF	ELEC. CONN Y/N	NOTES
				COMPONENT	MANUFACTURER	MODEL NUMBER	W	V	CW	HW			
WC-1	-	WATER CLOSET	WALL HUNG,SENSOR OPERATED, BATTERY POWERED FLUSH VALVE	BOWL	SLOAN	ST-2459-STG	4	2	1	-	1.1	N	1
				FLUSH VALVE	SLOAN	SLOAN 8111-1.1-CP							
WC-2	ADA	WATER CLOSET	WALL HUNG,SENSOR OPERATED, BATTERY POWERED FLUSH VALVE	BOWL	SLOAN	ST-2459-STG	4	2	1	-	1.1	N	1
				FLUSH VALVE	SLOAN	SLOAN 8111-1.1-CP							
WC-3	ADA	WATER CLOSET	FLOOR MOUNT, BOTTOM OUTLET, SENSOR OPERATED, BATTERY POWERED FLUSH VALVE	BOWL	SLOAN	ST-2029-STG	4	2	1	-	1.1	N	1
				FLUSH VALVE	SLOAN	SLOAN 8111-1.1-CP							
L-1	ADA	LAVATORY	WALL HUNG, BOWL DIMENSIONS: 20" X 18-1/4" X 5" DEEP, BATTERY POWERED SENSOR FAUCET, ADA	BOWL	AMERICAN STANDARD	DECORUM	2	1-1/2	1/2	1/2	0.35	N	1
				FAUCET	KOHLER	ACCLIV K-103A36-SBTA							
L-2	ADA	LAVATORY	COUNTERTOP UNDERMOUNT, BOWL DIMENSIONS: 19-13/16" X 15-5/8" X 6-3/4"" DEEP, BATTERY POWERED SENSOR FAUCET, ADA	BOWL	KOHLER	VERTICYL K-2882	2	1-1/2	1/2	1/2	1.0	N	1
				FAUCET	KOHLER	ACCLIV K-103A36-SBTA							
S-1	ADA	HANDWASH SINK	SS, COUNTERTOP UNDERMOUNT, SINGLE COMPARTMENT, BOWL DIMESSIONS : 32" X 19" X 5-1/2" DEEP	BOWL	KRAUS	KWU110-32/5.5	2	1-1/2	1/2	1/2	0.5	N	3
				FAUCET	CHICAGO	2302-E72ABCP							
SB-1	-	WATER SUPPLY WALL BOX	METAL WATER SUPPLY OUTLET BOX WITH WATER HAMMER ARRESTOR AND 1/4 TURN SHUTOFF VALVE	FIRE RATED BOX	GUY GRAY	FRMIB12ABSHA	-	-	1/2	-	-	N	5
DB-1	-	INDIRECT DRAIN WALL BOX	INDIRECT DRAINAGE OUTLET BOX	FIRE RATED BOX	GUY GRAY	FRAD-12	2	1-1/2	-	-	-	N	5
MS-1	-	MOP SINK	TERRAZZO, DROP FRONT, 24" x 24" SQUARE	BOWL	ACORN	TDF-24	2	1-1/2	1/2	1/2	2.2	N	2
				FAUCET	CHICAGO	814-VBXKCP							
EWC-1	ADA	REFRIGERATED WATER COOLER	WALL HUNG, BI-LEVEL WITH BOTTLE FILLER, STAINLESS STEEL	FOUNTAIN ASSEMBLY	ELKAY	LZWS-LRPBM28K	2	1-1/4	1/2	-	-	Y	4

GENERAL NOTES:
A. FINAL FIXTURE SELECTION TO BE COORDINATED WITH INTERIORS AND OWNER.
B. ALL FIXTURES WITH WATERWAYS TO BE NSF / ANSI 42, 53, 61, 372 & 401 LISTED.
C. MAXIMUM ALLOWABLE PLUMBING FIXTURE FLOW RATES PER STATE OF WASHINGTON, WAC 51-56-0400 INDICATED BELOW. THE JURISDICTION OF THE PROJECT LOCATION SHALL DICTATE MAXIMUM ALLOWABLE FLOW RATES.
WATER CLOSET FLUSH VALVES = 1.28 GALLONS
PUBLIC LAVATORY = .5 GPM
PUBLIC COMMON RESTROOM LAVATORY = METERING FAUCET .25 GALLONS
SHOWERHEADS = 1.8 GPM

NOTES:
1. PROVIDE WATER SENSE LABELED FAUCET, VALVE OR FLUSH VALVE AS APPLICABLE.
2. PROVIDE OPTIONAL SS CAP, WALL HANGER AND WALL GUARD. FAUCET TO BE NSF/ANSI 61, ADA, ASSE 1001, ATM VACUUM BEAKER.
3. PROVIDE GARBAGE DISPOSAL. INSINKERATOR POWER SERIES 1.0 HP, 120V / 60 HZ / 10.2 AMPS.
4. ELECTRICAL REQUIREMENTS 115V / 60 HZ / 370 WATTS, UL LISTED. REFER TO ARCHITECTURL FOR DETAILED MOUNTING INSTRUCTIONS. PROVIDE OPTIONAL FILTER, APRON AND ACCESS PANEL. INSTALL WATER COOLER PER MANUFACTURERS INSTRUCTIONS.
5. INTENDED FOR FISH TANK WATER SUPPLY AND DRAINAGE.

PLUMBING DRAINS AND CLEANOUTS SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	STRAINER	REMARKS
FD-1	FLOOR DRAIN	JR SMITH	2005B-Y-U-NB-P050	5" SQ	NO HUB, VANDAL RESISTANT, NICKEL BRONZE, PRIMER CONNECTION
FCO-1	FLOOR CLEANOUT	JR SMITH	4023Y-F-C-U	8" DIA	CAST IRON BODY, TAPERED BRONZE PLUG, FLASHING FLANGE, VANDAL RESISTANT
FCO-2	FLOOR CLEANOUT	JR SMITH	DX4023Y-F-C-U	8" DIA	CAST IRON BODY, TAPERED BRONZE PLUG, FLASHING FLANGE, VANDAL RESISTANT, WIDE FLANGE
WCO -1	WALL CLEANOUT	JR SMITH	4532S-Y-U	5" DIA	CAST IRON BODY, TAPERED BRONZE PLUG, HUBLESS CONNECTIONS, SS COVER WITH SCREW

PLUMBING PIPING SPECIFICATION SCHEDULE

SYSTEM SERVICE	LOCATION	PIPE SIZE	PIPE, FITTING AND JOINT MATERIALS
DOMESTIC WATER, NONPOTABLE WATER	BELOW GRADE	3" & SMALLER	PIPE: COPPER, HARD DRAWN TUBING, TYPE K. ASTM B88, (150 PSI SERVICE) FITTINGS: WROUGHT COPPER, B16.22 (150 PSI SERVICE) JOINTS: ANSI B16.22 SWEAT
	ABOVE GRADE	2" & SMALLER	PIPE: COPPER, HARD DRAWN TUBING, TYPE L. ASTM B88 FITTINGS: WROUGHT COPPER, B16.22 (150 PSI SERVICE) JOINTS: SWEAT, MECHANICAL PRESS FIT
		2-1/2" & LARGER	PIPE: COPPER, HARD DRAWN TUBING, TYPE L. ASTM B88 FITTINGS: WROUGHT COPPER GROOVED, PRESS FIT JOINTS: MECHANICAL GROOVED, PRESS FIT
SANITARY WASTE & VENT	BELOW GRADE	1-1/2" & SMALLER	PIPE: COPPER DWV B306 FITTINGS: WROUGHT COPPER DWV PER ANSI B16.29 JOINTS: SWEAT, LEAD - FREE SOLDER
		2" & LARGER	PIPE: CAST IRON NO HUB, CISPI 301, ASTM A888 FITTINGS: CAST IRON NO HUB, CISPI 301, ASTM A888 JOINTS: MECHANICAL NO HUB HEAVY DUTY COUPLING, CISP1 301, ASTM C564
	ABOVE GRADE	1-1/2" & SMALLER	PIPE: COPPER DWV B306 FITTINGS: WROUGHT COPPER DWV PER ANSI B16.29 JOINTS: SWEAT, LEAD - FREE SOLDER
		2" & LARGER	PIPE: CAST IRON NO HUB, CISPI 301, ASTM A888 FITTINGS: CAST IRON NO HUB, CISPI 301, ASTM A888 JOINTS: MECHANICAL NO HUB COUPLING, CISP1 301, ASTM C564
INDIRECT WASTE	ABOVE GRADE	2" & SMALLER	PIPE: COPPER DWV B306 FITTINGS: WROT COPPER DWV PER ANSI B16.29 JOINTS: SWEAT, LEAD - FREE SOLDER
TRAP PRIMER DISCHARGE	BELOW GRADE	1" & SMALLER	PIPE: PEX CROSS-LINKED PE, ASTM F876, F877, F2023, E84 FITTINGS: PROPEX EP & PROPEX BRASS, ASTM F1960, F2080, F1807, F2098 JOINTS: MECHANICAL PRESS FIT, SWEAT
	ABOVE GRADE	1" & SMALLER	PIPE: COPPER, HARD DRAWN TUBING, TYPE L. ASTM B88 FITTINGS: WROUGHT COPPER, B16.22 (150 PSI SERVICE) JOINTS: MECHANICAL PRESS FIT, SWEAT

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date
2	PLUMBING REVISION	08/26/2026

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

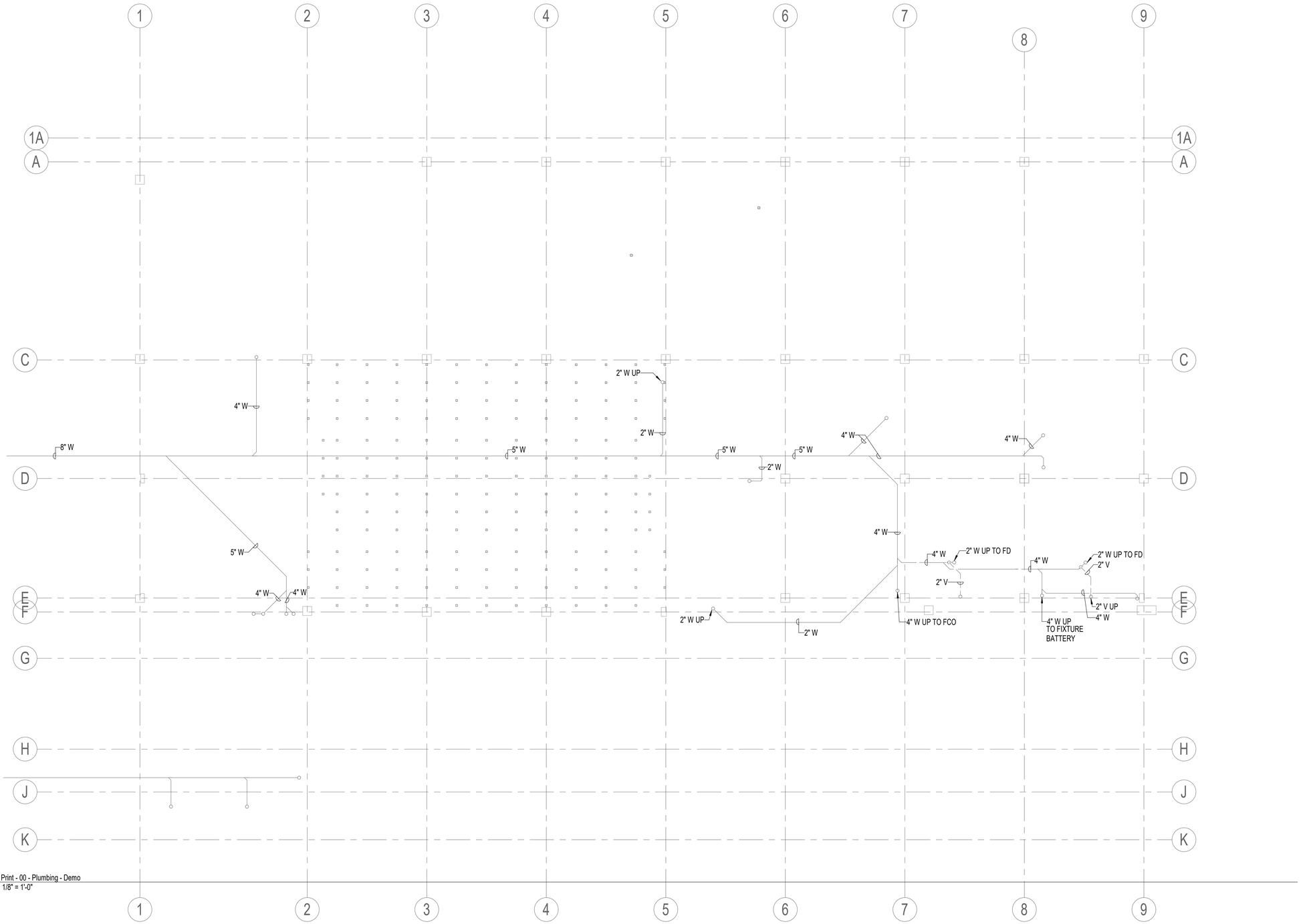
EQUIPMENT SCHEDULE - PLUMBING

P003

Autodesk Docs://23-1065 - City of Bellingham Cont Lib Renov/23-1065 - City of Bellingham Cont Lib Renov_MEPT25.rvt
9/29/2025 2:27:00 PM

GENERAL NOTES:

A. THIS SHEET PROVIDED FOR INFORMATION. NO WORK ON THIS SHEET.



1 Print - 00 - Plumbing - Demo
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPF26.rvt
9/28/2026 7:27:59 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

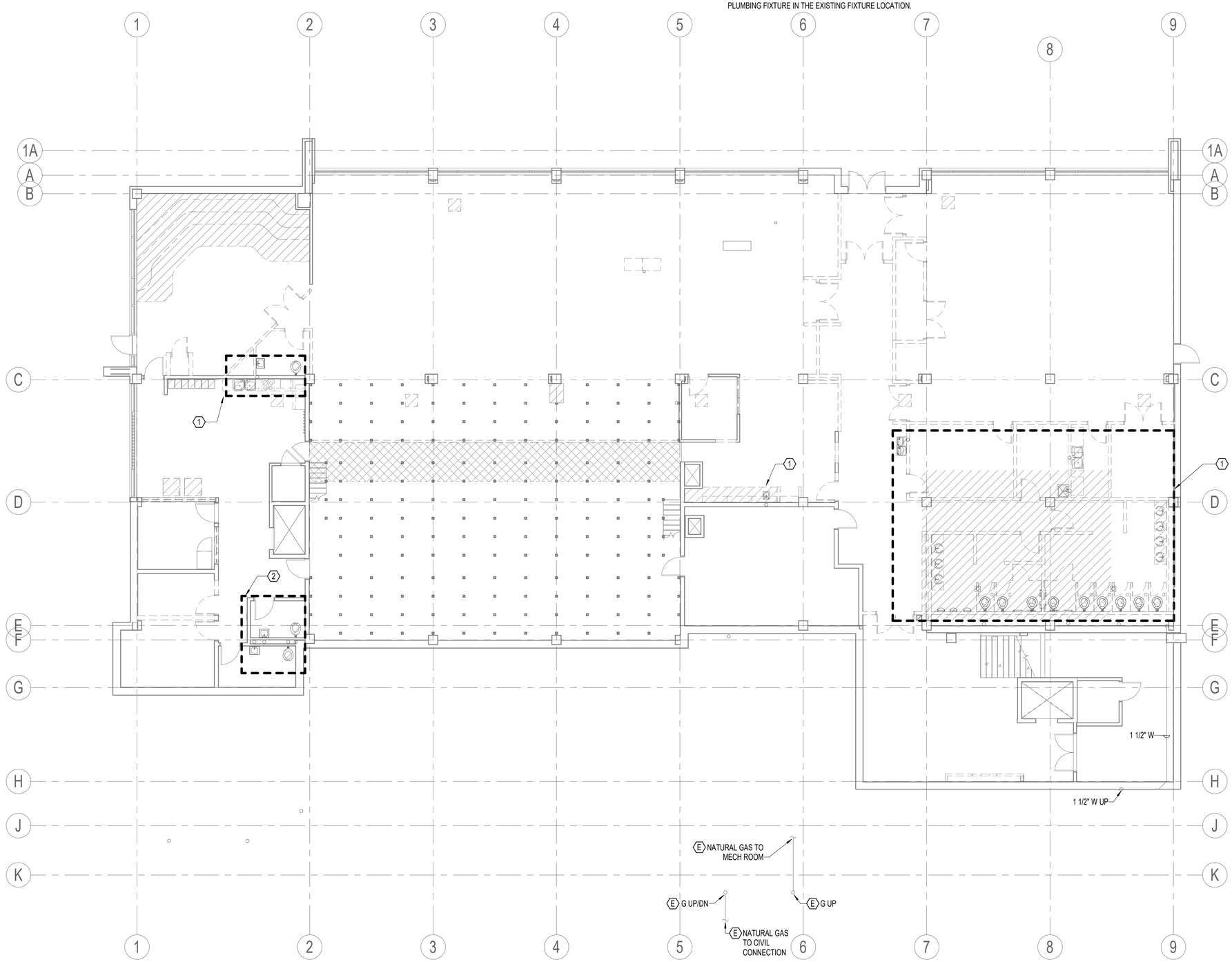
UNDERGROUND DEMOLITION PLAN - PLUMBING

PD100

(#) NOTES:

1. DEMOLISH PLUMBING FIXTURES AND PLUMBING FIXTURE ROUGH-IN PIPING IN THIS AREA. CUT AND CAP ALL SERVICES TO THE PLUMBING FIXTURES AND MAKE SAFE. PREPARE FOR NEW PLUMBING FIXTURES AND ROUGH-IN IN THIS AREA.

2. DEMOLISH PLUMBING FIXTURES IN THIS AREA. CAP ALL SERVICES TO THE PLUMBING FIXTURES AND MAKE SAFE. ASSESS CONDITIONS OF EXISTING ROUGH-IN PIPING AND CARRIER REGARDING FUTURE SERVICEABILITY AND ADVISE OWNER OF REQUIRED REPAIRS OR MODIFICATIONS TO ENABLE POSSIBLE 20 YEAR FUTURE LIFE OF FIXTURE. PREPARE EXISTING ROUGH-IN TO INSTALL A NEW SIMILAR PLUMBING FIXTURE IN THE EXISTING FIXTURE LOCATION.



1 GROUND LEVEL DEMOLITION PLAN - PLUMBING
1/8" = 1'-0"

Autodesk Docs://23-1055 - City of Bellingham Cent Lib Renov/23-1055 - City of Bellingham Cent Lib Renov_MEP25.rvt
9/26/2025 7:07:08 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

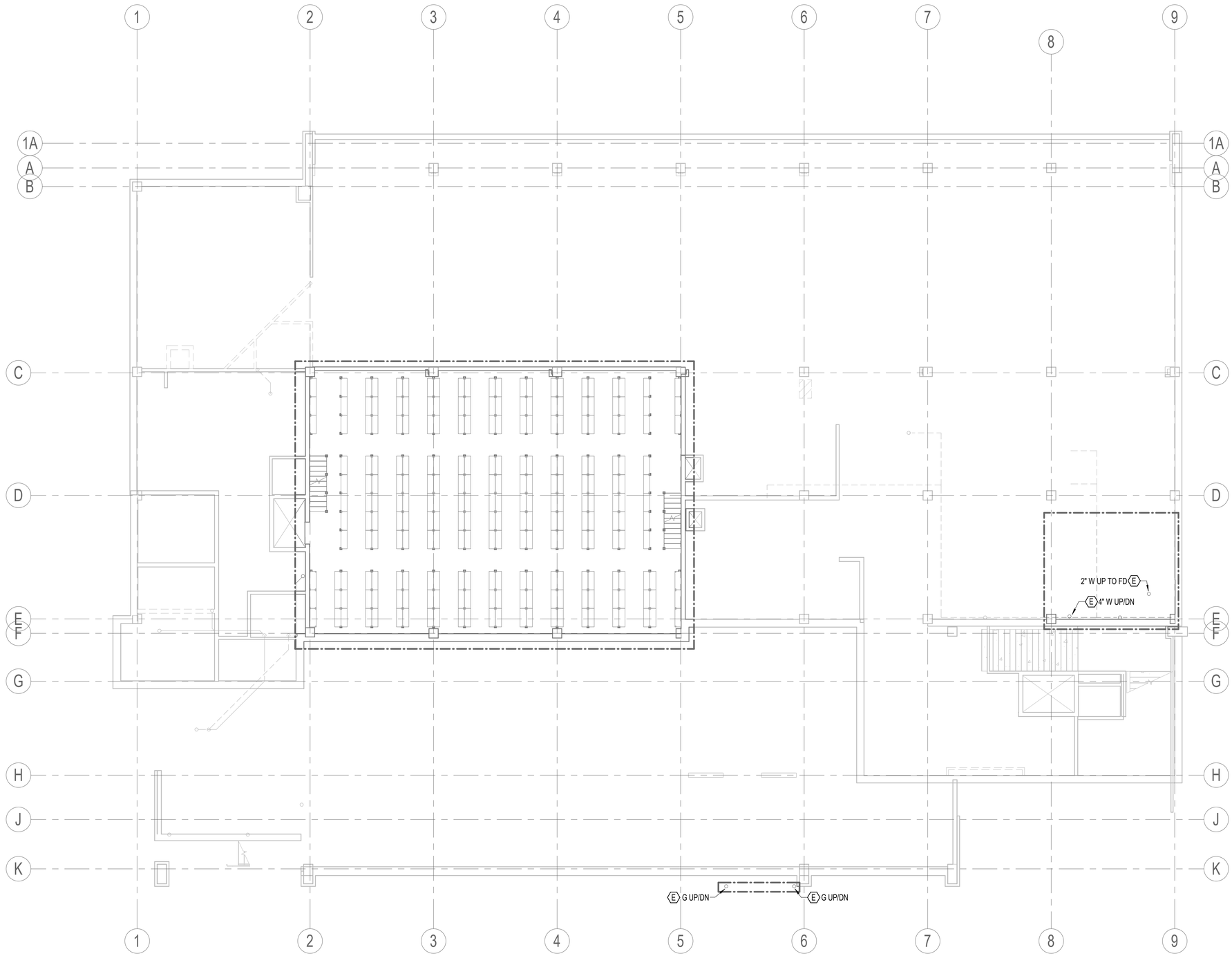
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET
GROUND LEVEL DEMOLITION PLAN - PLUMBING
PD101

GENERAL NOTES:

A. THIS SHEET PROVIDED FOR INFORMATION. NO WORK ON THIS SHEET.



1 GROUND FLOOR MEZZANINE DEMOLITION PLAN - PLUMBING
1/8" = 1'-0"

Autodesk Docs://23-1055 - City of Bellingham Cent Lib Renov/23-1055 - City of Bellingham Cent Lib Renov_MEPF25.rvt
9/8/2026 7:27:27 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

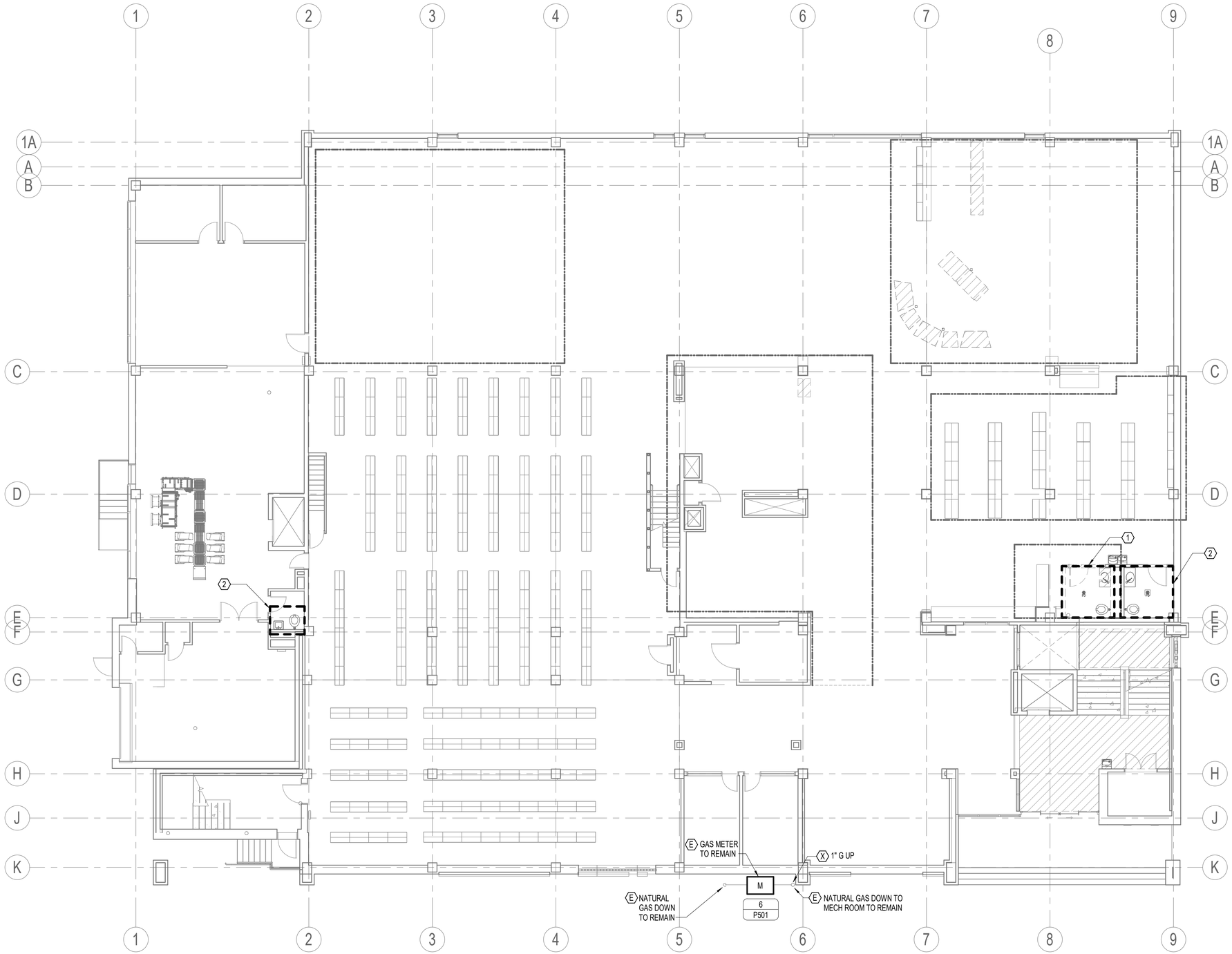
GROUND FLOOR MEZZANINE DEMO PLAN - PLUMBING

PD111

(#) NOTES:

1. DEMOLISH PLUMBING FIXTURES AND PLUMBING FIXTURE ROUGH-IN PIPING IN THIS AREA. CUT AND CAP ALL SERVICES TO THE PLUMBING FIXTURES AND MAKE SAFE.

2. NO WORK IN THIS RESTROOM.



1 FIRST FLOOR DEMOLITION PLAN - PLUMBING
1/8" = 1'-0"

Autodesk Docs://23-1055 - City of Bellingham Cent Lib Renov/23-1055 - City of Bellingham Cent Lib Reno_MEP725.rvt
9/8/2026 2:21:29 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

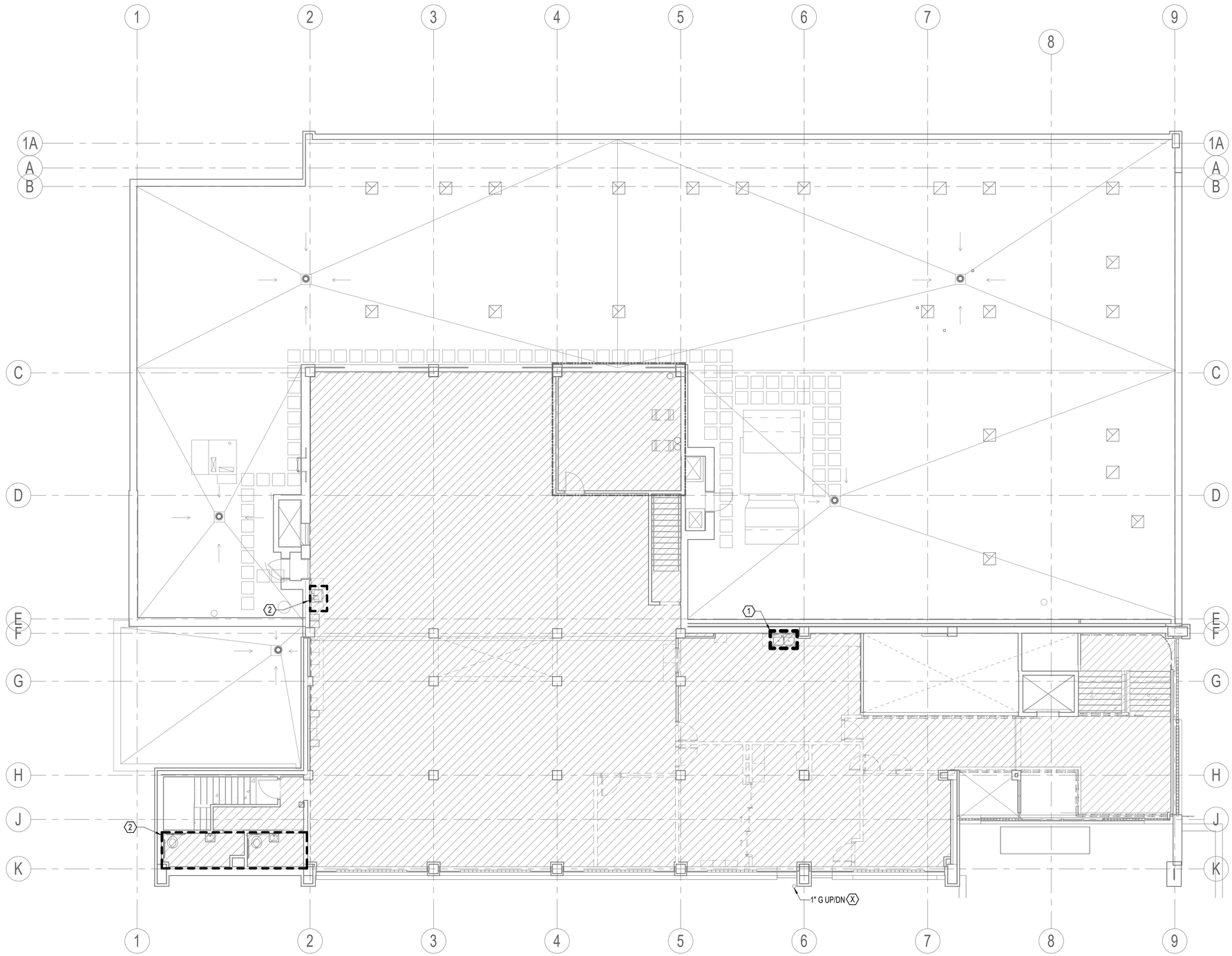
FIRST FLOOR DEMOLITION PLAN - PLUMBING

PD121

(#) NOTES:

1. DEMOLISH PLUMBING FIXTURE AND PLUMBING FIXTURE ROUGH-IN PIPING IN THIS AREA. CUT AND CAP ALL SERVICES TO THE PLUMBING FIXTURE AND MAKE SAFE.

2. DEMOLISH PLUMBING FIXTURES IN THIS AREA. CAP ALL SERVICES TO THE PLUMBING FIXTURES AND MAKE SAFE. ASSESS CONDITIONS OF EXISTING ROUGH-IN PIPING AND CARRIER REGARDING FUTURE SERVICEABILITY AND ADVISE OWNER OF REQUIRED REPAIRS OR MODIFICATIONS TO ENABLE POSSIBLE 20 YEAR FUTURE LIFE OF FIXTURE. PREPARE EXISTING ROUGH-IN TO INSTALL A NEW SIMILAR PLUMBING FIXTURE IN THE EXISTING FIXTURE LOCATION.



1 SECOND FLOOR DEMOLITION PLAN - PLUMBING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP23.rvt
8/29/2025 7:27:27 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date
2	PLUMBING REVISION 6	08/26/2026

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

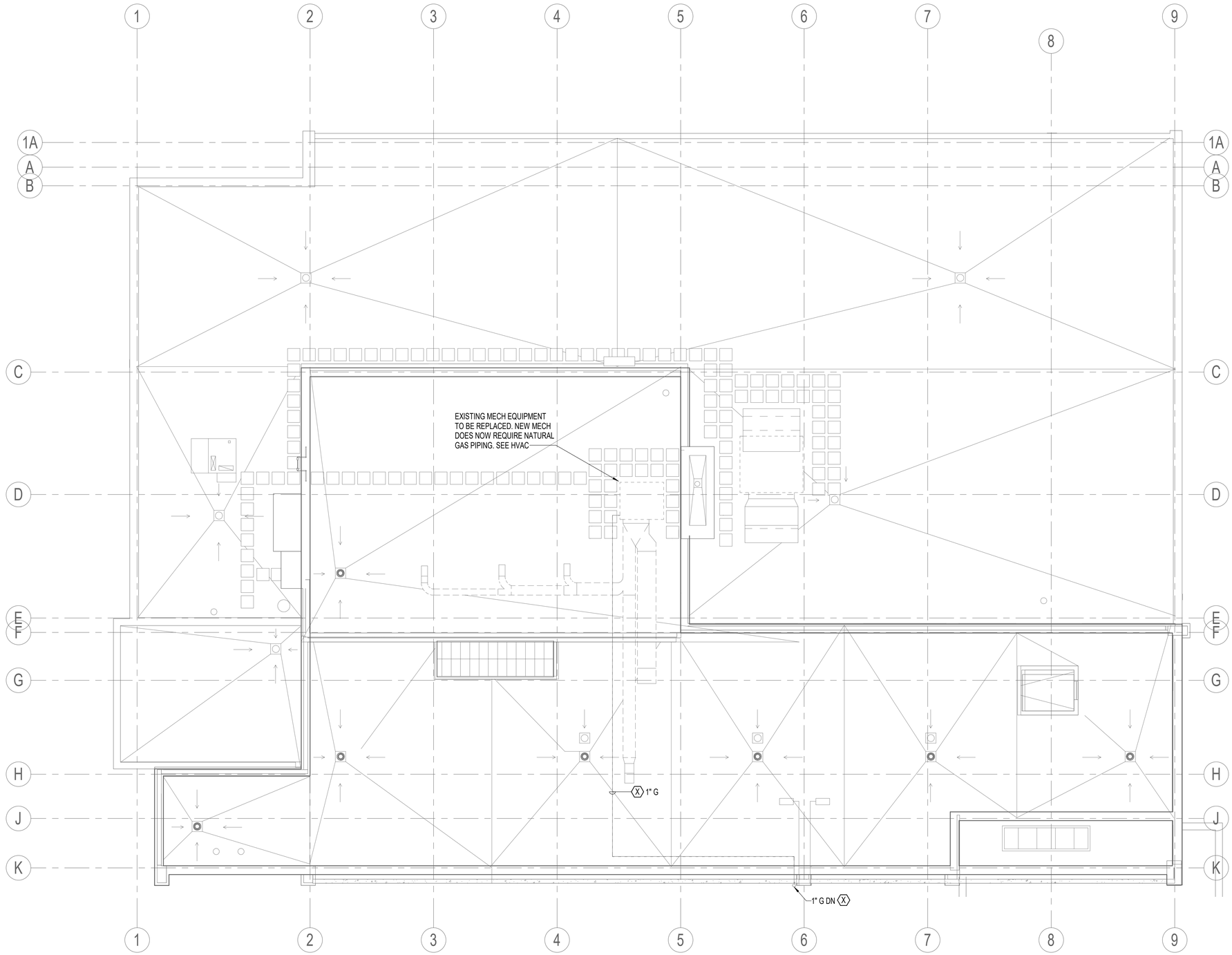
SHEET

SECOND FLOOR DEMO PLAN - PLUMBING

PD131

GENERAL NOTES:

A. THIS SHEET PROVIDED FOR INFORMATION. NO WORK ON THIS SHEET.



1 ROOF DEMOLITION PLAN - PLUMBING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/30/2026 2:27:47 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

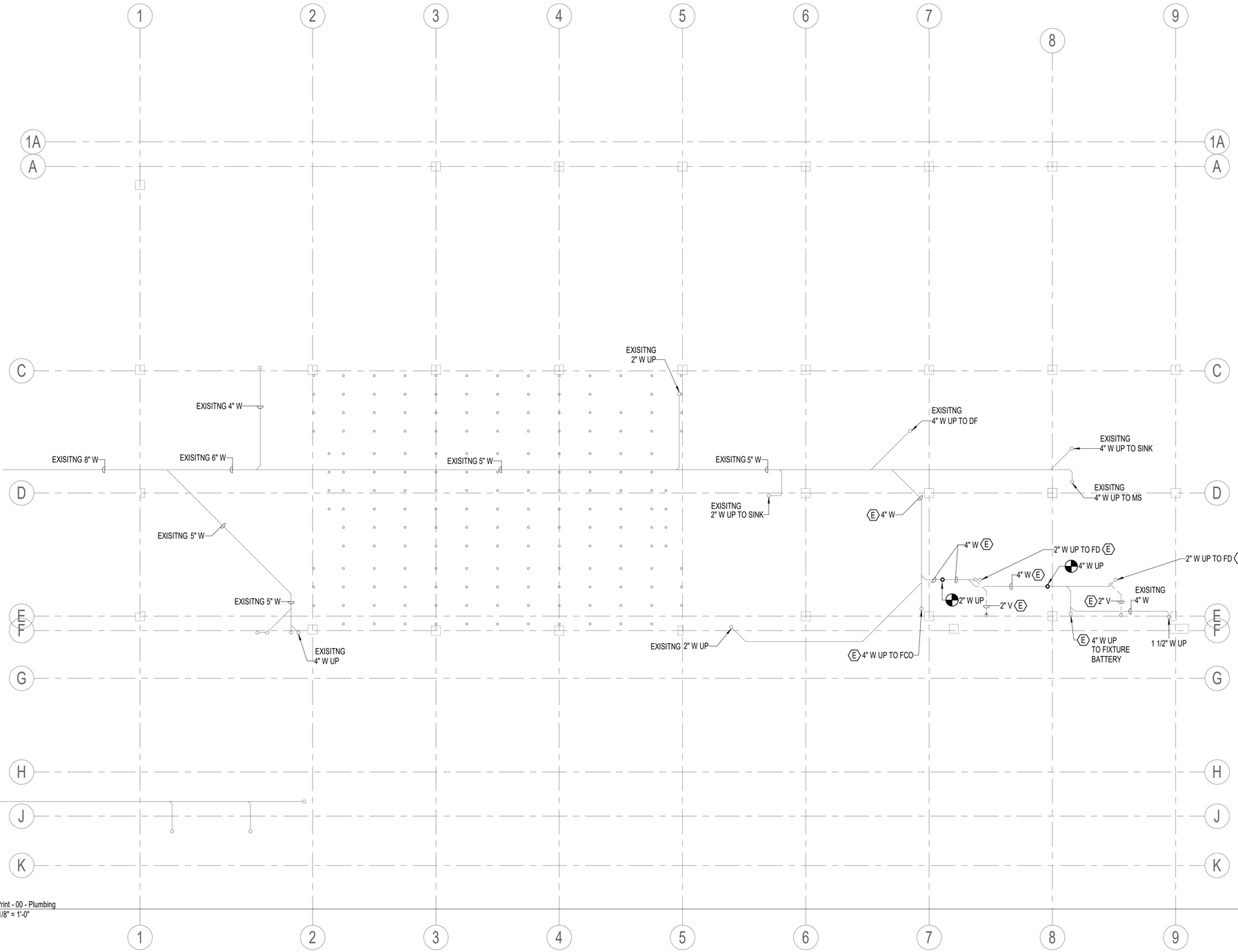
SHEET

ROOF DEMOLITION PLAN - PLUMBING

PD141

GENERAL NOTES:

A. THIS SHEET PROVIDED FOR INFORMATION. NO WORK ON THIS SHEET.



1 Print - 00 - Plumbing
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
9/29/2025 2:21:43 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

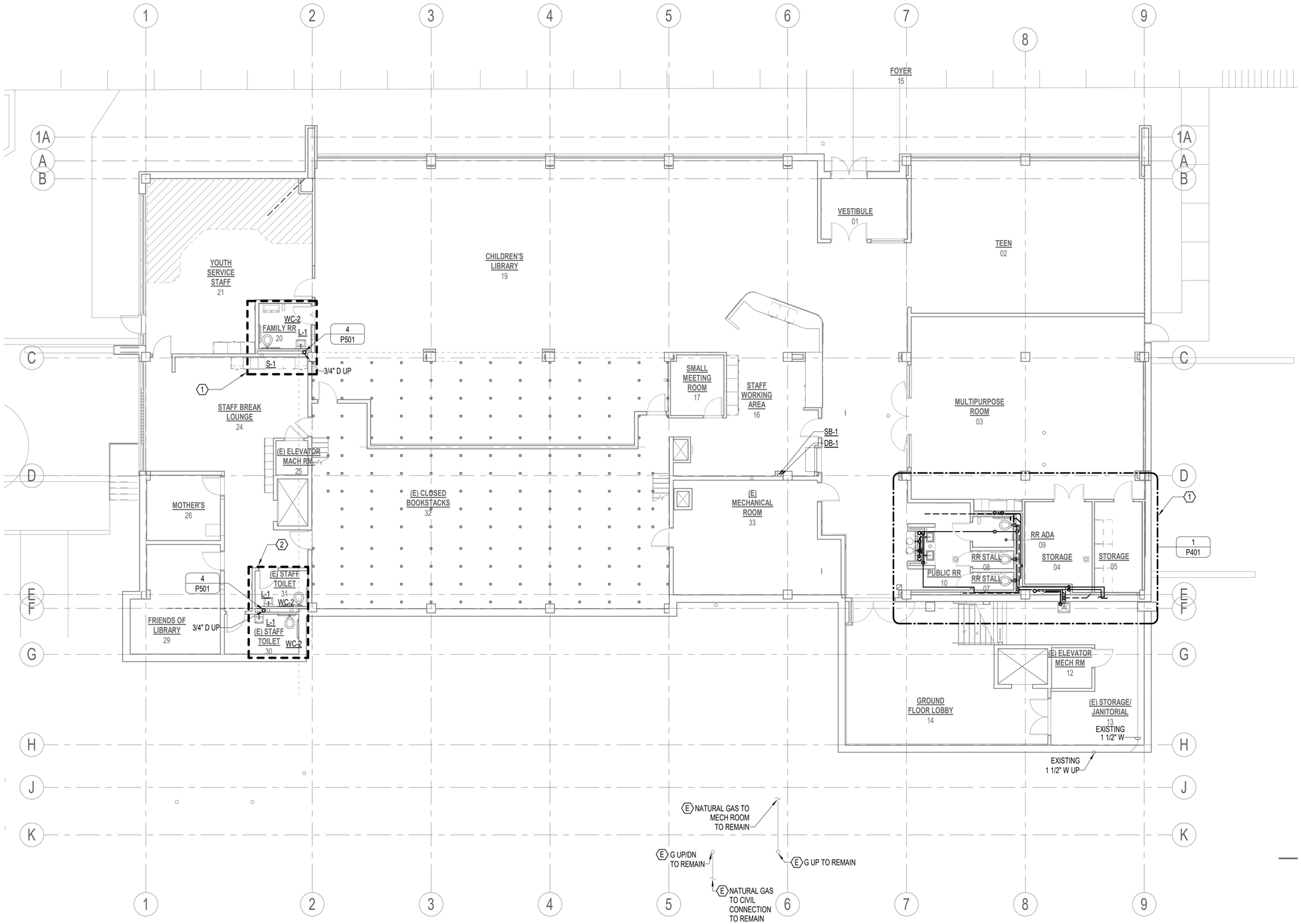
UNDERGROUND PLAN - PLUMBING

P100

(#) NOTES:

1. PROVIDE NEW PLUMBING FIXTURES AND PLUMBING FIXTURE ROUGH-IN PIPING IN THIS AREA. EXTEND EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN, SANITARY WASTE AND SANITARY VENT TO FIXTURE WATER AND WASTE CONNECTIONS.

2. PROVIDE NEW PLUMBING FIXTURES IN THE LOCATION OF AN EXISTING PLUMBING FIXTURE IN THIS AREA. ASSESS CONDITIONS OF EXISTING ROUGH-IN PIPING AND CARRIER REGARDING FUTURE SERVICEABILITY AND ADVISE OWNER OF REQUIRED REPAIRS OR MODIFICATIONS TO ENABLE POSSIBLE 20 YEAR FUTURE LIFE OF FIXTURE. PREPARE EXISTING ROUGH-IN TO INSTALL A NEW SIMILAR PLUMBING FIXTURE IN THE EXISTING FIXTURE LOCATION.



1 GROUNND FLOOR PLAN - PLUMBING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/23-1065 - City of Bellingham Cent Lib Renv_MEPT25.rvt
9/30/2026 2:27:57 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

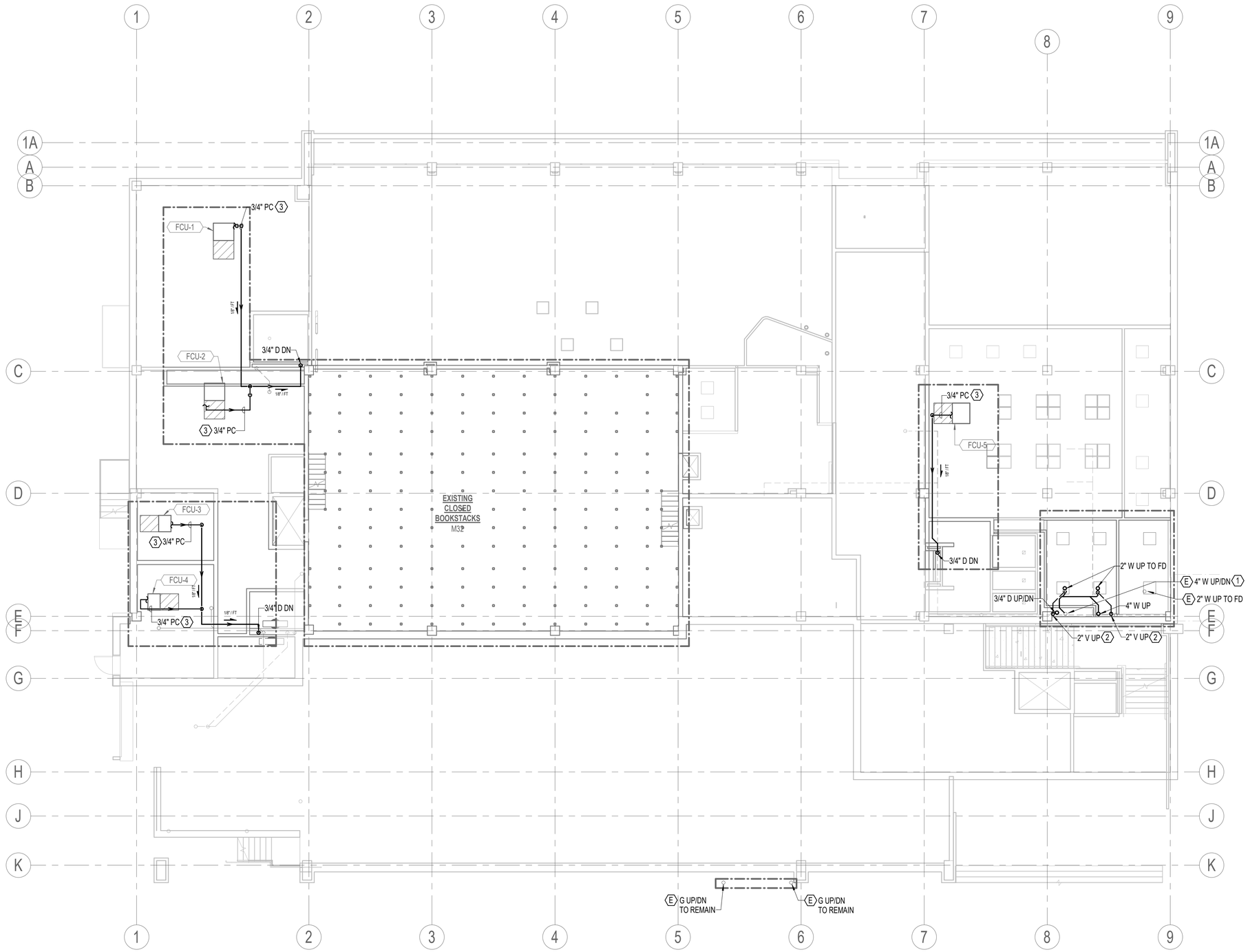
SHEET

GROUND FLOOR PLAN - PLUMBING

P101

(#) NOTES:

1. TIE-IN TO EXISTING PIPING BELOW GROUND FLOOR. FIELD VERIFY EXISTING PIPING LOCATION.
2. TIE-IN TO EXISTING WATER AND VENT PIPING ABOVE CEILING. FIELD VERIFY EXISTING PIPING LOCATION.
3. CONDENSATE CONNECTION FROM MECHANICAL EQUIPMENT. SEE "VRF INDOOR FAN COIL UNIT SCHEDULE - FOR REFERENCE ONLY" ON SHEET P0.03 FOR EQUIPMENT INFORMATION.



1 GROUND FLOOR MEZZANINE PLAN - PLUMBING
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

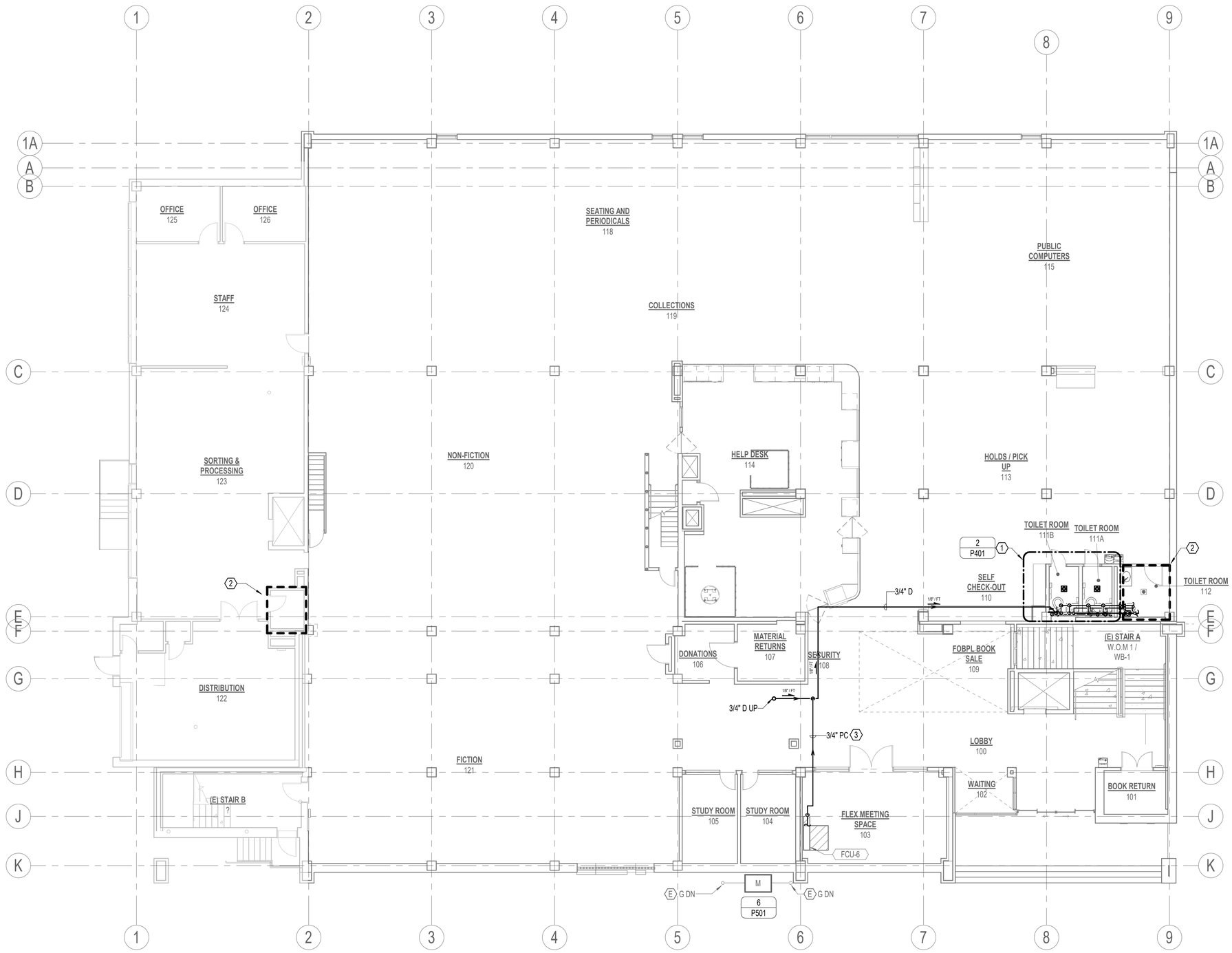
GROUND FLOOR MEZZANINE PLAN - PLUMBING

P111

Autodesk Docs://23-1055 - City of Bellingham Cent Lib Renov/23-1055 - City of Bellingham Cent Lib Renov_MEPP25.rvt
9/26/2026 7:27:07 PM

(#) NOTES:

1. PROVIDE NEW PLUMBING FIXTURES AND PLUMBING FIXTURE ROUGH-IN PIPING IN THIS AREA. EXTEND EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN, SANITARY WASTE AND SANITARY VENT TO FIXTURE WATER AND WASTE CONNECTIONS.
2. NO WORK IN THIS RESTROOM.
3. CONDENSATE CONNECTION FROM MECHANICAL EQUIPMENT. SEE "VRF INDOOR FAN COIL UNIT SCHEDULE - FOR REFERENCE ONLY" ON SHEET P0.03 FOR EQUIPMENT INFORMATION.



1 FIRST FLOOR PLAN - PLUMBING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/23-1065 - City of Bellingham Cent Lib Renv_MEPF25.rvt
8/20/2026 7:20:58 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

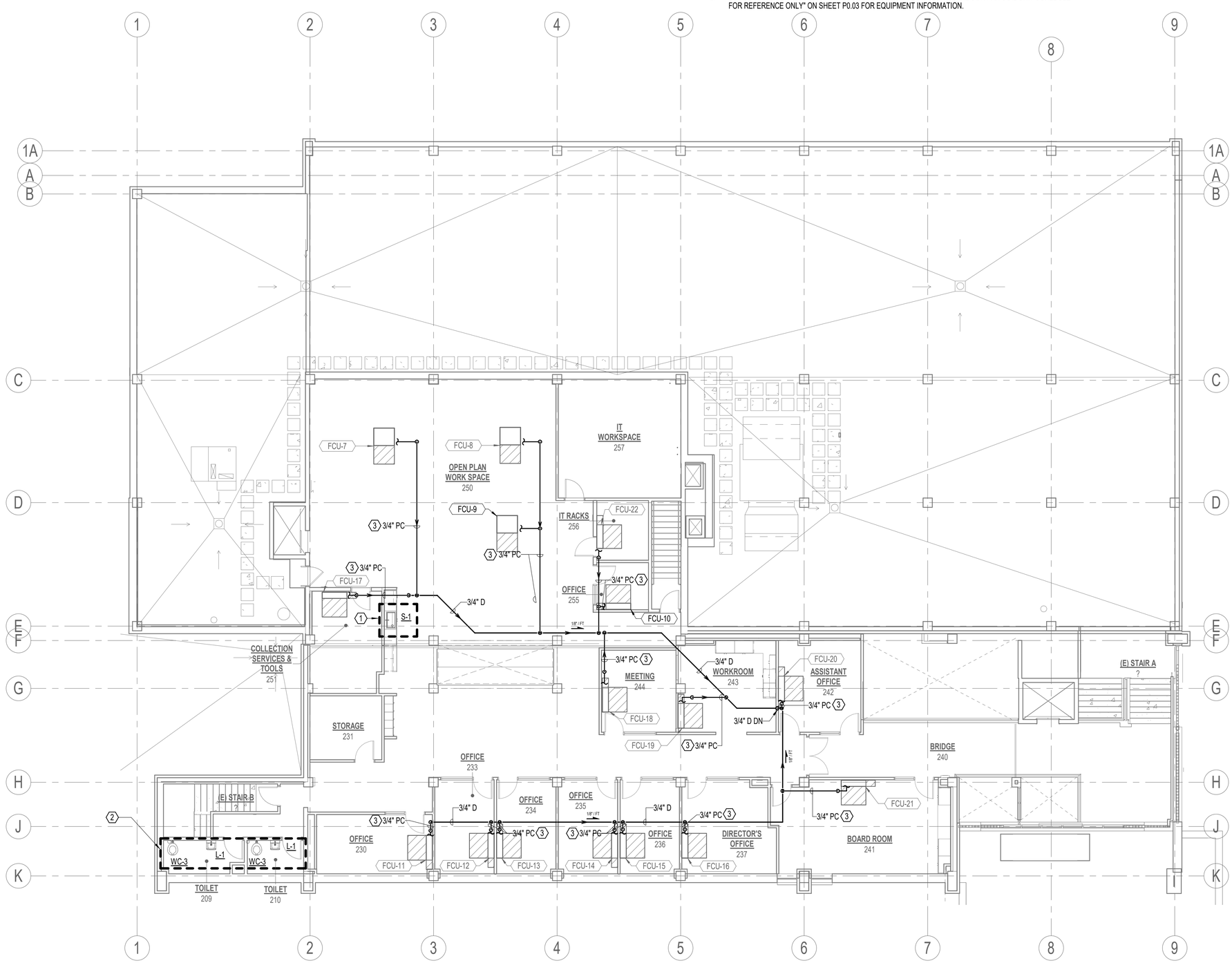
SHEET

FIRST FLOOR PLAN - PLUMBING

P121

(#) NOTES:

1. PROVIDE NEW PLUMBING FIXTURE AND PLUMBING FIXTURE ROUGH-IN PIPING IN THIS AREA. EXTEND EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN, SANITARY WASTE AND SANITARY VENT SERVICES TO NEW PLUMBING FIXTURE WATER AND WASTE CONNECTIONS.
2. PROVIDE NEW PLUMBING FIXTURES IN THE LOCATION OF AN EXISTING PLUMBING FIXTURE IN THIS AREA. ASSESS CONDITIONS OF EXISTING ROUGH-IN PIPING AND CARRIER REGARDING FUTURE SERVICEABILITY AND ADVISE OWNER OF REQUIRED REPAIRS OR MODIFICATIONS TO ENABLE POSSIBLE 20 YEAR FUTURE LIFE OF FIXTURE. MAKE IMPROVEMENTS AS REQUIRED TO EXISTING ROUGH-IN TO INSTALL A NEW SIMILAR PLUMBING FIXTURE IN THE EXISTING FIXTURE LOCATION.
3. CONDENSATE CONNECTION FROM MECHANICAL EQUIPMENT. SEE "VRF INDOOR FAN COIL UNIT SCHEDULE - FOR REFERENCE ONLY" ON SHEET P0.03 FOR EQUIPMENT INFORMATION.



1 SECOND FLOOR PLAN - PLUMBING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPF23.rvt
8/20/2026 7:20:07 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

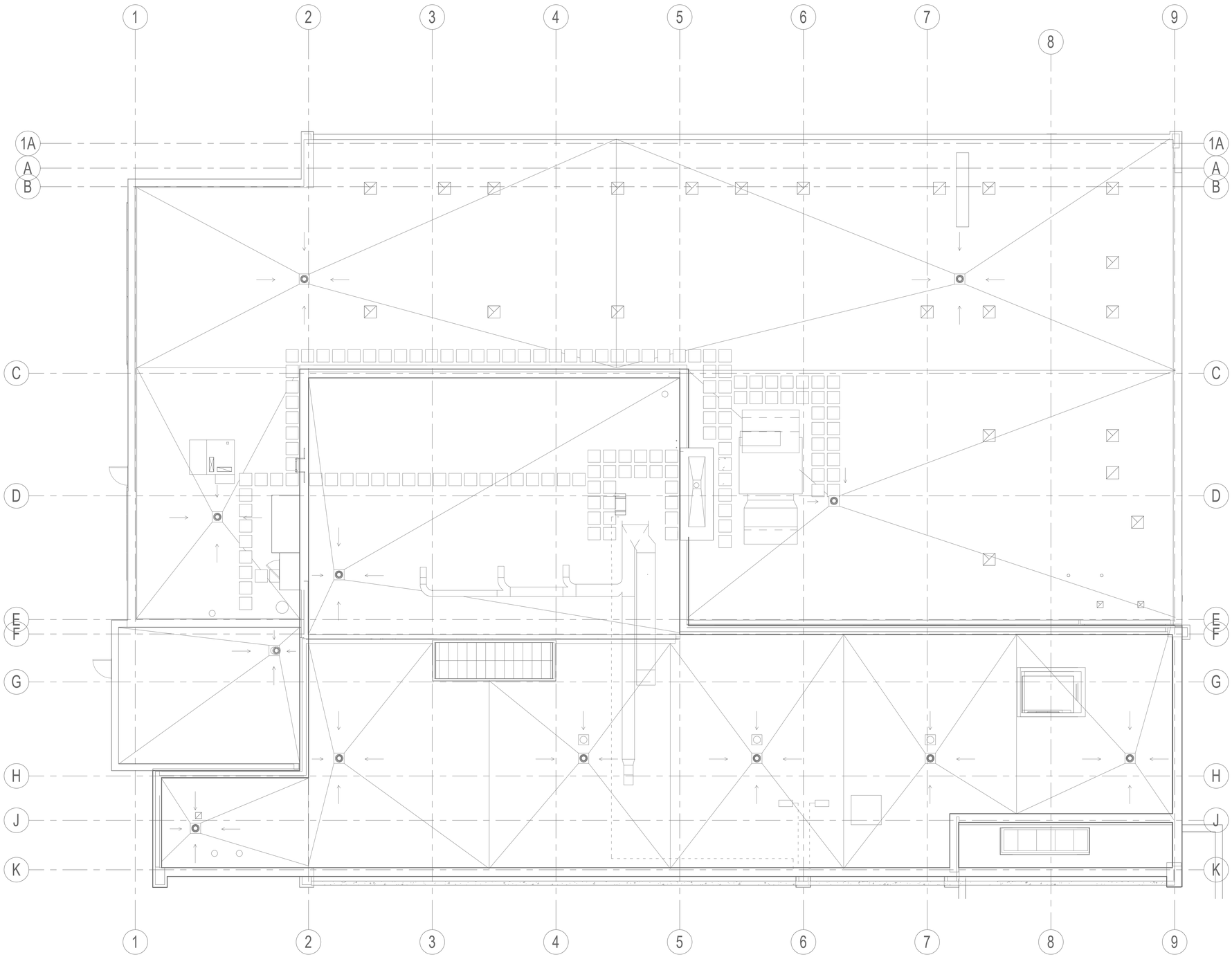
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SECOND FLOOR PLAN - PLUMBING
P131

GENERAL NOTES:

A. THIS SHEET PROVIDED FOR INFORMATION. NO WORK ON THIS SHEET.



1 ROOF PLAN - PLUMBING
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

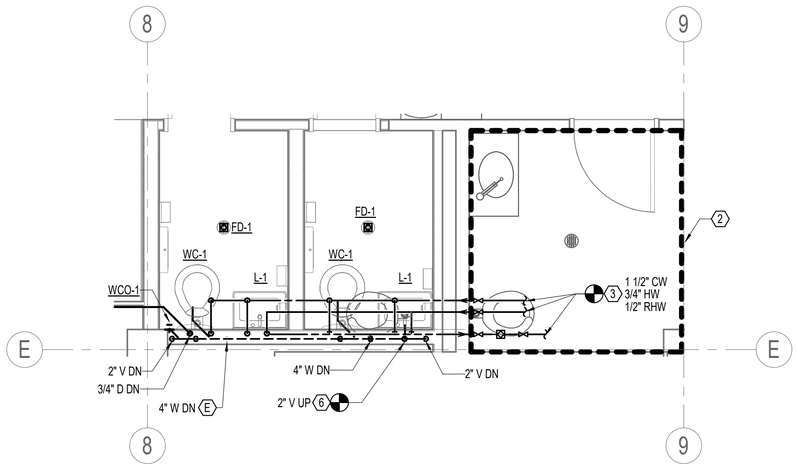
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

ROOF PLAN - PLUMBING

P141

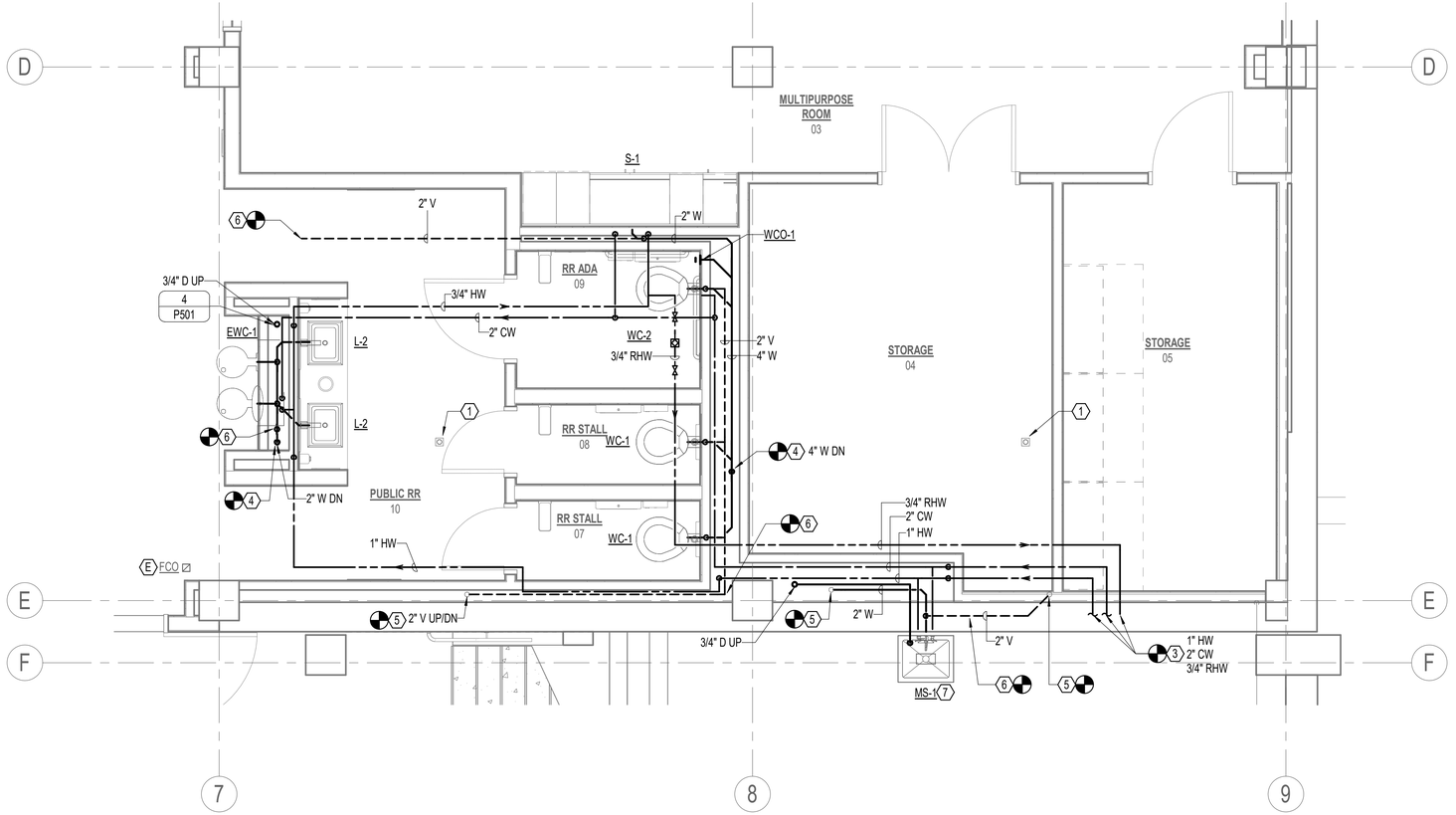
Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renv_MEPT25.rvt
9/29/2026 7:25:18 PM



2 FIRST FLOOR PLAN - PLUMBING
3/8" = 1'-0"

NOTES:

1. EXISTING FLOOR DRAIN TO REMAIN.
2. NO CHANGES TO THE PLUMBING FIXTURES IN THIS RESTROOM.
3. EXISTING DOMESTIC HOT AND COLD WATER SYSTEMS TO SUPPLY THESE FIXTURES.
4. SAWCUT EXISTING FLOOR, DEMOLISH SLAB, EXCAVATE TO LOCATE EXISTING WASTE TIE-IN. BACKFILL AND POUR-BACK SLAB TO MATCH EXISTING.
5. TIE-IN TO EXISTING PIPING ABOVE SLAB. FIELD VERIFY EXISTING PIPING LOCATION.
6. TIE-IN TO EXISTING WATER AND VENT PIPING ABOVE CEILING. FIELD VERIFY EXISTING PIPING LOCATION.
7. PROVIDE NEW MOP SINK IN NEW LOCATION. ELEVATE MOP SINK ON A BUILT UP PEDESTAL OF APPROXIMATELY 12" ABOVE THE SLAB. PLUMBING CONTRACTOR TO VERIFY HEIGHT OF PEDESTAL REQUIRED TO ROUTE 2" MOP SINK WASTE DISCHARGE TO EXISTING WASTE ABOVE SLAB IN NEW CHASE AREA. CORE DRILL A HORIZONTAL WASTE ROUTING PATH THROUGH WALL JUST ABOVE SLAB TO NAVIGATE FROM MOP SINK TO WASTE TIE-IN LOCATION. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE BUILT UP MOP SINK PEDESTAL.



1 ENLARGED PUBLIC RR - PLUMBING
3/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

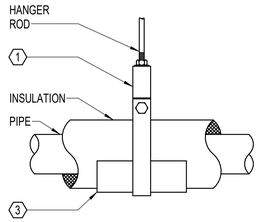
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

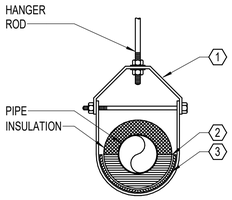
ENLARGED PLANS - PLUMBING

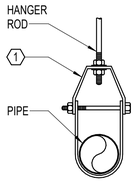
P401

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/29/2025 2:52:17 PM



INSULATED PIPE WITH VAPOR BARRIER





UNINSULATED PIPE

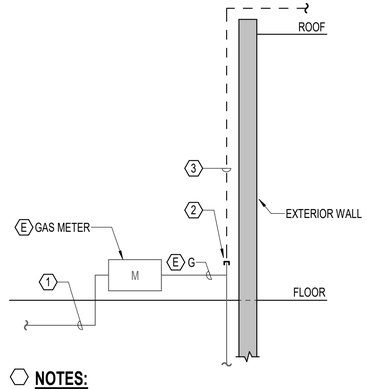
GENERAL NOTES:

A. REFER TO SPECIFICATION 22 07 00 FOR INSULATION THICKNESS REQUIREMENTS AND VAPOR BARRIER VS NON-VAPOR BARRIER INSTALLATION REQUIREMENTS.

NOTES:

1. PIPE HANGER (CLEVIS OR RING STYLE). REFER TO SPECIFICATION 22 05 29 FOR TYPE TO BE USED BASED ON PIPE SIZE AND INSTALLATION (INSULATED VS UNINSULATED PIPING).
2. HIGH DENSITY INSULATION INSERT. REFER TO SPECIFICATION 22 07 00.
3. INSULATION PROTECTION SHIELD. 12" LONG (MIN).

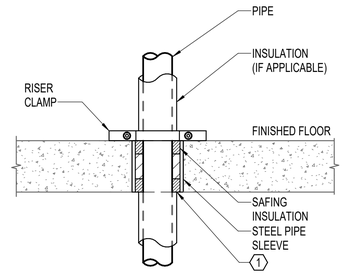
8 PIPE SUPPORT DETAIL - HANGER
NONE



NOTES:

1. EXISTING GAS SERVICE.
2. CUT AND CAP 1" GAS LINE ABOVE TEE.
3. DEMOLISH 1" GAS LINE FROM TEE UP TO ROOFTOP EQUIPMENT.

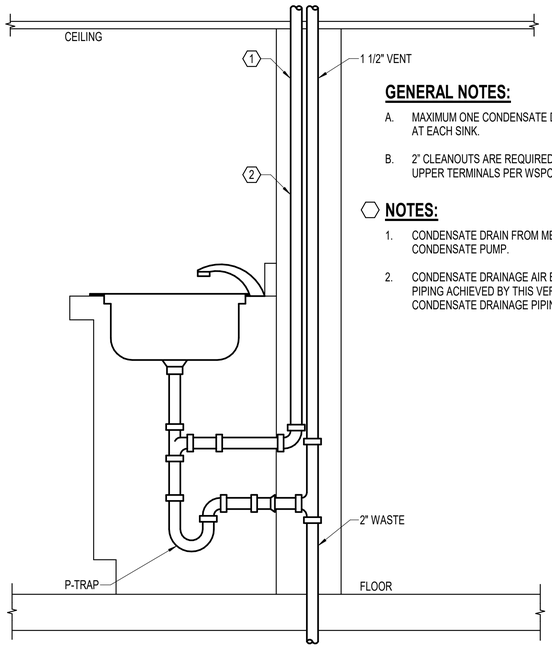
6 NATURAL GAS SYSTEM PIPING DIAGRAM
NONE



NOTES:

1. PROVIDE FIRESTOPPING / SEAL PER SPECIFICATIONS.

5 FLOOR PENETRATION DETAIL
NONE



GENERAL NOTES:

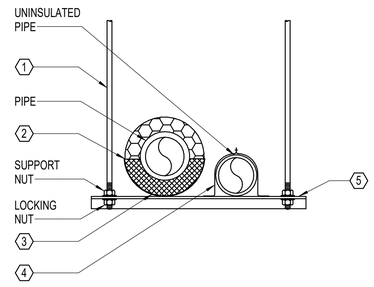
A. MAXIMUM ONE CONDENSATE DRAIN CONNECTION AT EACH SINK.

B. 2" CLEANOUTS ARE REQUIRED ON ALL SINKS UPPER TERMINALS PER WSPC SECTION 707.0.

NOTES:

1. CONDENSATE DRAIN FROM MECHANICAL UNIT OR CONDENSATE PUMP.
2. CONDENSATE DRAINAGE AIR BREAK FROM WASTE PIPING ACHIEVED BY THIS VERTICAL SECTION OF CONDENSATE DRAINAGE PIPING.

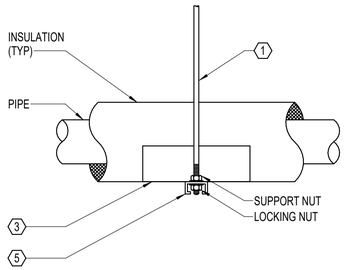
4 CONDENSATE DRAINAGE SINK TAILPIECE CONNECTION DETAIL
NONE



GENERAL NOTES:

A. REFER TO SPECIFICATION 22 07 00 FOR INSULATION THICKNESS REQUIREMENTS AND VAPOR-BARRIER VS NON-VAPOR BARRIER INSTALLATION REQUIREMENTS.

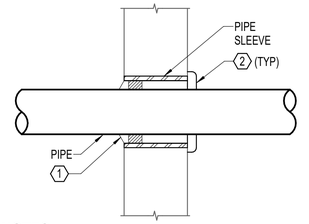
B. REFER TO SPECIFICATION 22 05 29 FOR SUPPORT TYPE AND APPLICABLE LOCATION BASED ON PIPE SIZE AND INSTALLATION (INSULATED VS UNINSULATED PIPING).



NOTES:

1. ALL THREAD HANGER ROD. SUPPORT FRAME FROM STRUCTURE.
2. HIGH DENSITY INSULATION INSERT. REFER TO SPECIFICATION 22 07 00.
3. INSULATION PROTECTION SHIELD. 12" LONG (MIN).
4. ATTACH PIPE CLAMP TO CHANNEL.
5. SUPPORT CHANNEL OR ANGLE.

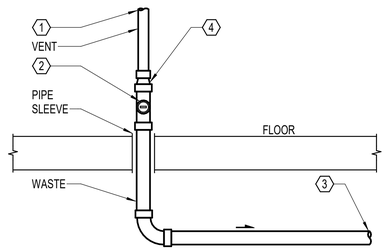
7 PIPE SUPPORT DETAIL - TRAPEZE
NONE



NOTES:

1. PROVIDE FIRESTOPPING / SEAL PER SPECIFICATIONS. TYPICAL FOR RATED WALLS.
2. ESCUTCHEON, FOR FINISHED INTERIOR WALLS.

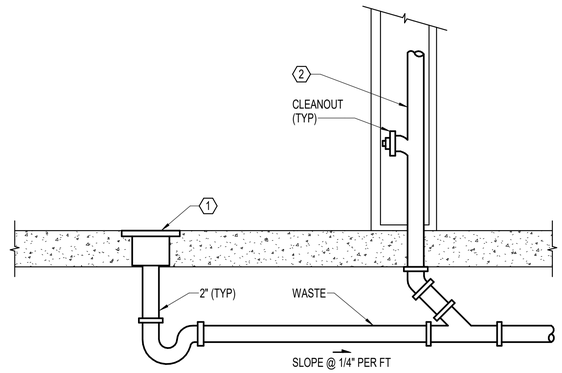
3 INTERIOR WALL PENETRATION DETAIL
NONE



NOTES:

1. TO BUILDING VENT SYSTEM.
2. LINE SIZE CLEANOUT TEE WITH CLEANOUT PLUG.
3. TO BUILDING WASTE SYSTEM.
4. PIPE REDUCER ABOVE CLEANOUT.

2 WALL CLEANOUT WITH VENT DETAIL
NONE



GENERAL NOTES:

A. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN 6 INCHES ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY, PER CPC 2016, SECTION 905.3.

B. IF STRUCTURAL CONDITIONS PROHIBIT STANDARD VENTING, VENTS SHALL BE FLAT VENTED AS SHOWN ON .

NOTES:

1. FLOOR DRAIN/ FLOOR SINK.
2. VENT INSIDE PLUMBING WALL.

1 FLOOR DRAIN/ FLOOR SINK STANDARD VENT DETAIL
NONE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

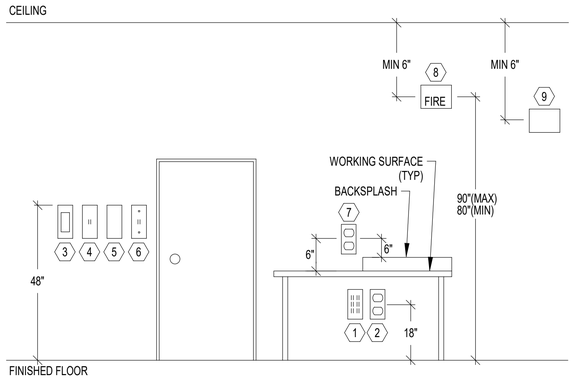
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

DETAILS - PLUMBING
P501

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
9/28/2026 2:25:29 PM

DEVICE MOUNTING HEIGHTS



GENERAL NOTES:

A. LOCATE ALL FIRE ALARM DEVICES PER CODE.

B. LOCATE ALL ACCESSIBLE SWITCHES PER ADA GUIDELINES.

C. FIELD COORDINATE ALL ABOVE COUNTER DEVICES WITH MILLWORK CONTRACTOR.

D. IF APPLICABLE, TELECOM CONSULTANTS' DRAWINGS TAKE PRECEDENCE OVER THIS DETAIL FOR TELECOM DEVICES.

E. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES. WHERE NO ELEVATION EXISTS, REFER TO TYPICAL MOUNTING HEIGHTS IN THIS DETAIL.

NOTES:

1. TELECOM OUTLET.
2. RECEPTACLE.
3. FIRE ALARM PULL STATION.
4. LIGHT SWITCH.
5. CARD READER.
6. WALL PHONE.
7. ABOVE COUNTER DEVICE. MAINTAIN A CONSISTENT HEIGHT THROUGHOUT SPACE.
8. FIRE ALARM STROBE.
9. OCCUPANCY SENSOR.

ABBREVIATIONS - ELECTRICAL

AFF	ABOVE FINISHED FLOOR	KVAR	KILOVOLT-AMPERE REACTIVE
ADA	AMERICANS DISABILITIES ACT	LA	LIGHTNING ARRESTOR
A	AMPERE (AMP)	LED	LIGHT EMITTING DIODE
AL	ALUMINUM	LRC	LIGHTING RELAY CONTROL PANEL
ARCH	ARCHITECT / ARCHITECTURAL	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	LV	LOW VOLTAGE
AWG	AMERICAN WIRE GAUGE	MATV	MASTER ANTENNA TELEVISION
C	CONDUIT	MAX	MAXIMUM
CAT	CATEGORY CABLE	MCA	MINIMUM CIRCUIT AMPACITY
CB	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION	MCC	MOTOR CONTROL CENTER
CKT	CIRCUIT	MDP	MAIN DISTRIBUTION PANEL
CLG	CEILING	MECH	MECHANICAL
CT	CURRENT TRANSFORMER	MH	METAL HALIDE
CU	COPPER	MIN	MINIMUM
DDC	DIRECT DIGITAL CONTROL	MLO	MAIN LUGS ONLY
DN	DOWN	MOCP	MAXIMUM OVERCURRENT PROTECTION
DW	DISHWASHER	MTS	MANUAL TRANSFER SWITCH
EM	EMERGENCY	MV	MEDIUM VOLTAGE
EMT	ELECTRICAL METALLIC TUBING	MW	MICROWAVE
EP	EXPLOSION PROOF	NAC	NOTIFICATION APPLIANCE CIRCUIT
EPO	EMERGENCY POWER OFF	NIC	NOT IN CONTRACT
EWC	ELECTRIC WATER COOLER	NL	NIGHT LIGHT CIRCUIT
FA	FIRE ALARM	PA	PUBLIC ADDRESS
FACP	FIRE ALARM CONTROL PANEL	PDZ	PRIMARY DAYLIGHT ZONE
FLA	FULL LOAD AMPS	PE	PHOTOELECTRIC CELL
FLUOR	FLUORESCENT	PF	POWER FACTOR
FCIC	FURNISHED BY CONTRACTOR INSTALLED BY CONTRACTOR	PNL	PANELBOARD
		PVC	POLYVINYL CHLORIDE
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	PWR	POWER
		REF	REFRIGERATOR
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER	SDP	SUB-DISTRIBUTION PANEL
		SDZ	SECONDARY DAYLIGHT ZONE
GD	GARBAGE DISPOSAL	STR	STARTER
GEN	GENERATOR	SV	SOLENOID VALVE
GFP	GROUND FAULT PROTECTION	SW	SWITCH
GFI	GROUND FAULT INDICATOR	TD	TIME DELAY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TAMPERPROOF
GRC	GALVANIZED RIGID CONDUIT	TTB	TELEPHONE TERMINAL BOARD
GND	GROUND	TTC	TELEPHONE TERMINAL CABINET
HP	HORSEPOWER	TV	TELEVISION
HPS	HIGH PRESSURE SODIUM	TYP	TYPICAL
HV	HIGH VOLTAGE	UG	UNDERGROUND
HZ	HERTZ	UPS	UNINTERRUPTIBLE POWER SUPPLY
IG	ISOLATED GROUND	V	VOLTAGE
INC	INCANDESCENT	VA	VOLT-AMPERE
INV	INVERTER	VFD	VARIABLE FREQUENCY DRIVE
JB	JUNCTION BOX	VP	VAPORPROOF
KW	KILOWATT	W	WATTS
KWH	KILOWATT HOUR	WP	WEATHERPROOF
KV	KILOVOLT	XFMR	TRANSFORMER
KVA	KILOVOLT-AMPERE		

GENERAL NOTES:

A. THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

POWER - SINGLE LINE DIAGRAM & RISER

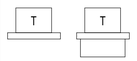
CIRCUIT BREAKER, WITH GROUND FAULT PROTECTION, DRAW OUT

DISTRIBUTION SWITCHBOARD / PANELBOARD, WITH INTERNAL BUS

UTILITY POLE

PANELBOARD
PANEL INCOMING DESIGNATOR: MLO UNLESS MARKED MCB
AMPACITY (AMPS)

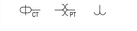
TRANSFORMER



SERVICE TRANSFORMER, WITH VAULT

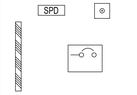
GENERATOR, AUTOMATIC TRANSFER SWITCH

METER: UTILITY, BASIC, ADVANCED, POWER QUALITY

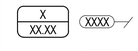


TRANSDUCER: CURRENT, POTENTIAL (VOLTAGE), COMBINED

SURGE PROTECTIVE DEVICE, PUSH BUTTON



ELECTRICAL BUSWAY, BUSWAY PLUG-IN CIRCUIT BREAKER



FEEDER CONTINUATION CALLOUT, FEEDER TAG

CALCULATED AVAILABLE SHORT-CIRCUIT CURRENT

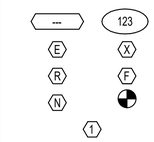
FEEDER: DROP, RISE, CAP, BREAK, CONTINUATION

SWITCH, FUSED SWITCH

DISCONNECT, FUSED DISCONNECT

MOTOR, MOTOR WITH CONTROLLER, MOTOR WITH STARTER

DESIGNATION SYMBOLS



EQUIPMENT DESIGNATOR SEE SCHEDULE.

EXISTING TO REMAIN, EXISTING TO BE REMOVED

EXISTING TO BE RELOCATED, FUTURE

NEW, POINT OF CONNECTION

NOTE

POWER - PLANS

WALL RECEPTACLE: DUPLEX, QUADPLEX

DENOTES GFCI

DENOTES GFCI AND WEATHER PROOF

DENOTES RECEPTACLE ABOVE COUNTER

SPECIAL PURPOSE RECEPTACLE.

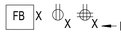
CEILING RECEPTACLE: DUPLEX, QUADPLEX

FLUSH FLOORBOX RECEPTACLE. "X" INDICATES TYPE PER SCHEDULE. REFER TO SCHEDULE FOR QUANTITY AND TYPES OF DEVICES.

FLUSH POKE-THROUGH RECEPTACLE. "X" INDICATES TYPE PER SCHEDULE. REFER TO SCHEDULE FOR QUANTITY AND TYPES OF DEVICES.

DENOTES SPLIT-WIRED, HALF SWITCHED / CONTROLLED VIA MANUAL CONTROL, MOTION CONTROL OR TIME-BASED CONTROL. SEE SPECIFICATIONS & PLANS.

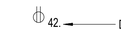
DENOTES FULL SWITCHED / CONTROLLED VIA MANUAL CONTROL, MOTION CONTROL OR TIME-BASED CONTROL. SEE SPECIFICATIONS & PLANS.



LETTER DESIGNATOR:

E = EMERGENCY
U = UPS
S = STANDBY
C = CRITICAL
IG = ISOLATED GROUND
P = SURGE PROTECTIVE DEVICE
A = AFCI
B = WITH USB OUTLETS

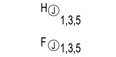
DENOTES PANELBOARD AND CIRCUIT NUMBER.



DENOTES CIRCUIT NUMBER. REFER TO SHEET GENERAL NOTES FOR PANELBOARD.

POWER POLE, POWER, COMBINATION CIRCUITS AS INDICATED.

JUNCTION BOX



JUNCTION BOX HOME RUN. CIRCUITS AS INDICATED.

JUNCTION BOX HOME RUN & FURNITURE FEED. CIRCUITS AS INDICATED.

CONNECTION TO EQUIPMENT

PUSH BUTTON STATION: SINGLE, DOUBLE

ELECTRICAL EQUIPMENT

PANELBOARD: SURFACE, RECESSED

ENCLOSURE: SURFACE, RECESSED

TRANSFORMER

GROUND ROD, IN TEST WELL

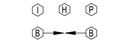
GROUND PAD

FIRE ALARM

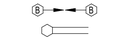
SPRINKLER SYSTEM SWITCH: FLOW, TAMPER

MANUAL FIRE ALARM STATION

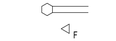
DETECTOR: IONIZATION, HEAT, PHOTOELECTRIC



DETECTOR: BEAM



DUCT DETECTOR, TYPE AS NOTED



FIREMANS PHONE JACK

MAGNETIC DOOR HOLDER, CLOSER

WALL	CEILING	NOTIFICATION DEVICES
F	F	FIRE ALARM: VISUAL
F F	F F	FIRE ALARM: HORN; HORN W/VISUAL
S S	S S	FIRE ALARM: SPEAKER; SPEAKER W/VISUAL
F F	F F	FIRE ALARM: BELL; BELL W/VISUAL
C C	C C	FIRE ALARM: CHIME; CHIME W/VISUAL

ELECTRICAL SHEET LIST

SHEET #	SHEET NAME
E001	SYMBOLS, LEGENDS & ABBREVIATIONS - ELECTRICAL
E003	SCHEDULES - LIGHTING
E004	SCHEDULES - ELECTRICAL
E005	SCHEDULES - ELECTRICAL
ED010	DEMO SITE PLAN - ELECTRICAL
E010	SITE PLAN - ELECTRICAL
ED101	GROUND LEVEL DEMOLITION RCP - LIGHTING
ED111	GROUND FLOOR MEZZANINE DEMO RCP - LIGHTING
ED121	FIRST FLOOR DEMOLITION RCP - LIGHTING
ED131	SECOND FLOOR DEMOLITION RCP - LIGHTING

LIGHTING

EMERGENCY	NORMAL	
		DOWNLIGHT RECESSED: ROUND, SQUARE
		DOWNLIGHT RECESSED WALLWASH: ROUND, SQUARE
		DOWNLIGHT RECESSED ADJUSTABLE: ROUND, SQUARE
		DOWNLIGHT SURFACE: ROUND, SQUARE
		DOWNLIGHT SURFACE WALLWASH: ROUND, SQUARE
		DOWNLIGHT SURFACE ADJUSTABLE: ROUND, SQUARE
		PENDANT
		PENDANT WALLWASH
		LINEAR RECESSED
		LINEAR RECESSED WALLWASH
		LINEAR SURFACE
		LINEAR SURFACE WALLWASH
		LINEAR PENDANT
		LINEAR PENDANT WALLWASH
		LINEAR WALL MOUNTED
		LINEAR WALL MOUNTED ASYMMETRIC
		TAPE LIGHT (EM PER TAG)
		LINEAR RECESSED MULTIHEAD
		STEPLIGHT
		SCONCE
		FLOOD LIGHT
		INGRADE: ROUND, SQUARE
		INGRADE ADJUSTABLE: ROUND, SQUARE
		FLOOR LAMP
		EMERGENCY LIGHT
		EXIT SIGN TOP MOUNT (ARROWS PER DRAWING)
		EXIT SIGN BACK MOUNT (ARROWS PER DRAWING)
		EXIT SIGN SIDE MOUNT (ARROWS PER DRAWING)
		BOLLARD: ROUND, SQUARE (ARROWS PER DRAWING)
		PEDESTRIAN POLE: ROUND, SQUARE
		POLE: ROUND, SQUARE
CSXX		CONTROL STATION. REFER TO LIGHTING CONTROL STATION SCHEDULE.
$	$2	WALL SWITCH: 1 POLE, 2 POLE
$3	$4	WALL SWITCH: 3 WAY, 4 WAY
$K	$M	WALL SWITCH: KEY LOCK, MOMENTARY
$LV	$P	WALL SWITCH: LOW VOLTAGE, PILOT
$T	$D	WALL SWITCH: TIMER, MANUAL DIMMER
$OS	$OSD	WALL COMBINATION OCCUPANCY SWITCH, OCCUPANCY DIMMER
$VS	$VSD	WALL COMBINATION VACANCY SWITCH, VACANCY DIMMER
PE	PE	PHOTOELECTRIC CELL: WALL MOUNTED, CEILING MOUNTED
OS X	OS X	OCCUPANCY SENSOR: WALL MOUNTED, CEILING MOUNTED
VS X	VS X	VACANCY SENSOR: WALL MOUNTED, CEILING MOUNTED
		"X" DESIGNATES DEVICE TYPE: DUAL TECHNOLOGY UNLESS OTHERWISE NOTED:
U	R	U: ULTRASONIC R: INFRARED
L#		DESIGNATES LUMINAIRE TYPE (SEE LUMINAIRE SCHEDULE)
EM		DESIGNATES EMERGENCY CIRCUIT
a,b,c,d,e...etc		DESIGNATES STANDALONE CONTROL ZONE.
42.	PNL:42.	DESIGNATES LIGHTING CIRCUIT, PANEL:CIRCUIT.

ELECTRICAL SHEET LIST

SHEET #	SHEET NAME
ED201	GROUND LEVEL DEMOLITION PLAN - POWER
ED211	MEZZANINE DEMO PLAN - POWER
ED221	FIRST FLOOR DEMOLITION PLAN - POWER
ED231	SECOND FLOOR DEMOLITION PLAN - POWER
ED241	ROOF DEMOLITION PLAN - POWER
E101	GROUND FLOOR RCP - LIGHTING
E121	FIRST FLOOR RCP - LIGHTING
E131	SECOND FLOOR RCP - LIGHTING
E201	GROUND FLOOR PLAN - POWER
E211	MEZZANINE PLAN - POWER
E221	FIRST FLOOR PLAN - POWER
E231	SECOND FLOOR PLAN - POWER
E241	ROOF PLAN
E500	CONDUIT ROUTING - SERVICE ENTRANCE
E501	CONDUIT ROUTING - SERVICE ENTRANCE
E502	CONDUIT ROUTING - SERVICE ENTRANCE
E503	CONDUIT ROUTING - SECOND FLOOR
E504	CONDUIT ROUTING - SECOND FLOOR
E601	DETAILS - ELECTRICAL
E602	DETAILS - ELECTRICAL
E603	DETAILS - ELECTRICAL
ED701	DEMO POWER ONE-LINE DIAGRAM - ELECTRICAL
E701	POWER ONE-LINE DIAGRAM - ELECTRICAL
E801	PANEL SCHEDULES - ELECTRICAL
E802	PANEL SCHEDULES - ELECTRICAL
E803	PANEL SCHEDULES - ELECTRICAL
E804	PANEL SCHEDULES - ELECTRICAL
E805	PANEL SCHEDULES - ELECTRICAL
E806	PANEL SCHEDULES - ELECTRICAL
E807	PANEL SCHEDULES - ELECTRICAL
E901	CODE COMPLIANCE - ELECTRICAL
E902	CODE COMPLIANCE - ELECTRICAL
E903	CODE COMPLIANCE - ELECTRICAL
E904	CODE COMPLIANCE - ELECTRICAL
Grand total: 44	

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SYMBOLS, LEGENDS & ABBREVIATIONS - ELECTRICAL

E001

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEP25.rvt
9/29/2026 2:55:19 PM

TYPE	IMAGE	PRODUCT DESCRIPTION	LOCATION	PRODUCT	SIZE	INPUT WATTS	LIGHT SOURCE	POWER SUPPLY / DIMMING	VOLTAGE	FINISH	MOUNTING	NOTES
L1		RECESSED 2X2 TROFFER, FLUSH WOOD TRIM	GROUND FLOOR THROUOUT	LIGHTLY VEIL VEL-22-NL-W-GC-00-L-35-[EM]	4.75"H X 23.75"W X 23.75"L	19W	LED, 3500K, 80CRI, 2267LM	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	WHITE	RECESSED	1. PROVIDE WITH EMERGENCY CIRCUIT OPTION (-C) WHEN DESIGNATED FOR EMERGENCY USE.
L1A		RECESSED 2X2 TROFFER, 1" DROP WOOD TRIM	MULTIPURPOSE ROOM, OPEN PLAN WORKSPACE, BOARD ROOM	LIGHTLY VEIL VEL-22-NL-N-GC-01-L-35-[EM]	4.75"H X 23.75"W X 23.75"L	19W	LED, 3500K, 80CRI, 2267LM	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	NATURAL	RECESSED	1. PROVIDE WITH EMERGENCY CIRCUIT OPTION (-C) WHEN DESIGNATED FOR EMERGENCY USE.
L2		SURFACE MOUNTED STRIPLIGHT, WRAPAROUND LENS	IT RACKS	COLUMBIA LCL LCL-4-35-ML-ED1-U	3 13/16"H X 4 1/2"W X 4'L	42W	LED, 3500K, 80CRI, 5329LM	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	WHITE	SURFACE	
L3		RECESSED PERIMETER LINEAR DIRECT, 2.5" REGRESSED DIFFUCE LENS	RESTROOMS, MULTIPURPOSE ROOM	FOCAL POINT SEEM 2 PERIMETER FSM2PR-FL2-375LF-35K-1C-UNV-L11-XFF-WH-(LENGTH)	7.5"H X 3.74"W X LENGTH PER PLANS	3.3W/LF	LED, 3500K, 80CRI, 375LM/LF	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	WHITE	RECESSED	
L4		SURFACE LINEAR DIRECT, FLUSH DIFFUDE LENS	BOOK STACKS	FOCAL POINT SEEM 2 FSM2LS-FL-375LF-35K-1C-UNV-L11-SM-(FINISH)-(LENGTH)	4.5"H X 2.64"W X LENGTH PER PLANS	12.17W/LF	LED, 3500K, 80CRI, 1500LM/LF	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	WHITE	SURFACE	1. LUMINAIRE TO REUSE EXISTING JUNCTION BOX LOCATIONS. COORDINATE POWER FEEDS WITH FIELD CONDITIONS.
L5		RECESSED DOWNLIGHT, WIDE FLOOD OPTICS, MUD-IN TRIM FOR GYP CEILINGS	RESTROOMS, VESTIBULE, RECEPTION DESK	FOCAL POINT ID+ 3.5" HOUSING: FLC3D-RT-SW-1300L-UNV-L11-T TRIM: LC3-RT-SW-1300L-35K-DNT-WFL-CD	3.16"H X 10.9"W X 13.88"L, 4.07" DIA.	16W	LED, 3500K, 80CRI, 1298LM	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	WHITE	RECESSED	1. CONTRACTOR TO VERIFY MOUNTING OPTIONS AS REQUIRED PER CEILING DETAIL.
L6		DELETED										
L6A		DELETED										
L7		DELETED										
L8		RECESSED 2X4 TROFFER	FIRST FLOOR PUBLIC COMPUTERS	COLUMBIA LCAT24 LCAT24-35VL-G-ED1U	3.9"H X 23.77"W X 47.75"L	47.2W	LED, 3500K, 80CRI, 7366LM	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	WHITE	RECESSED	
L9		RECESSED LINEAR DIRECT, FROSTED ACRYLIC LENS STAFF WORKSPACE	STAFF WORKSPACE	FOCAL POINT SEEM 2 GRID FSM2L-FL-1000LF-3500K,80+CRI-1C-UNV-L11-(MOUNTING)-(FINISH)-(LENGTH PER PLANS)	4.5"H X 2.64"W X LENGTH PER PLANS	8.45W/LF	LED, 3500K, 80CRI, 1000LM/LF	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	WHITE	RECESSED	
L9A		RECESSED LINEAR DIRECT, ASYMMETRIC LENS	BOARDROOM	FOCAL POINT SEEM 2 GRID FSM2L-AS-500-35K-1C-UNV-L11-(MOUNTING)-(FINISH)-(LENGTH PER PLANS)	4.5"H X 2.64"W X LENGTH PER PLANS	3.625W/LF	LED, 3500K, 80CRI, 500LM/LF	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	WHITE	RECESSED	
L10		DELETED										
L10A		DELETED										
L11		DELETED										
L12		SURFACE MOUNTED LINEAR UPLIGHT, SEMI-OPAL LENS	SECOND FLOOR SKYLIGHT	DURALAMP DURATAPE COB IP20 DL-COB-46-I-35-24-(CONNECTION)-DLE7WT2-DLE7S2-(POWER SUPPLY)	0.28"H X 0.69"W LENGTH PER PLANS	4.6W/LF	LED, 3500K, 90 CRI, 470 LM/LF (SOURCE)	REMOTE 24VDC DRIVER, 0-10V 1% DIMMING	120V	WHITE	SURFACE	1. CONTRACTOR TO PROVIDE MOUNTING AND WIRING ACCESSORIES AS REQUIRED.
L13		DECORATIVE ACOUSTIC PENDANT	CHILDRENS LIBRARY, TEEN	SABIN SPOKE L-60-L-SPK-3/38-11-D500-DDL-INA-INO-935K-SC-10-UNV-9(MOSS)-PC(COLOR)-AC(COLOR)-SG-RWH	11"H X 2'W X LENGTHS PER PLAN	4.2W/LF	LED, 3500K, 90CRI, 4750LM/LF	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	MOSS	SUSPENDED	
L14		SURFACE MOUNT WALL WASH CYLINDER	BOOK STACKS	USAI LIGHTING BEVELED BLOCK WALLWASH BLRW5-16C3-35KS-(FINISH)-CC-UNV-DZE	7 1/6" H X 6 1/8" DIA.	16W	LED, 3500K, 80CRI, 1489LM	INTEGRAL DRIVER, 0-10V 1% DIMMING	120V	WHITE	SURFACE	
X1		LIGHTED EXIT SIGN & EMERGENCY LIGHT COMBO UNIT, LED TYPE, SINGLE FACE, UNIVERSAL MOUNT, WHITE WITH GREEN LETTERS, POLYCARBONATE OR THERMOPLASTIC HOUSING, SUITABLE FOR WET LOCATIONS, SELF-CONTAINED EMERGENCY LIGHTING UNIT WITH NI-CAD BATTERIES & BUILT-IN DIAGNOSTICS.		DUAL-LITE LTUGWI LITHONIA LHQM LED G SD M6/ELA T SD QWP L0309 CHLORIDE CLCNGW					120V			
X2		LIGHTED EXIT SIGN & EMERGENCY LIGHT COMBO UNIT, LED TYPE, SINGLE FACE, UNIVERSAL MOUNT, WHITE WITH GREEN LETTERS, POLYCARBONATE OR THERMOPLASTIC HOUSING, SUITABLE FOR WET LOCATIONS, SELF-CONTAINED EMERGENCY LIGHTING UNIT WITH NI-CAD BATTERIES & BUILT-IN DIAGNOSTICS.		DUAL-LITE LTUGWI LITHONIA LHQM LED G SD M6/ELA T SD QWP L0309 CHLORIDE CLCNGW					120V			
X3		EMERGENCY LIGHTING UNIT, WALL MTD., SELF-CONTAINED, ARCHITECTURAL COMPACT LOW PROFILE DESIGN (WHITE), LED LIGHTING UNIT WITH BUILT-IN DIAGNOSTICS.		DUAL-LITE PG-W LITHONIA AFO W MVOLT SD M6					120V			

LIGHTING CONTROL SEQUENCE OF OPERATIONS

AREA	CONTROL INTENT	CONTROL TYPE
CORRIDOR	OCCUPANCY SENSOR AND WALL SWITCH	OS / SW
OFFICES (PRIVATE AND OPEN)	VACANCY SENSOR, WALL SWITCH, AND MULTI-LEVEL CONTROL	VS / SW / DIM
CONFERENCE ROOMS	VACANCY SENSOR, WALL SWITCH, AND MULTI-LEVEL CONTROL	VS / SW / DIM
RESTROOMS	OCCUPANCY SENSOR WITH MANUAL OVERRIDE	OS / MO
BUILDING INTERIOR - PERIMETER	PHOTOCELL - DAYLIGHT DIMMING	PE

LEGEND:
OS:OCCUPANCY SENSOR T:TIME CLOCK
VS:VACANCY SENSOR DIM:DIMMING
PE:PHOTOELECTRIC CELL SW:SWITCHING
MO:MANUAL OVERRIDE

LIGHTING CONTROL STATION SCHEDULE

GENERAL NOTES:
A. MULTIPLE SWITCHES AT THE SAME LOCATION SHALL BE GANGED TOGETHER.
B. REFER TO SPECIFICATION SECTION(S) 26 09 23 LIGHTING CONTROL DEVICES FOR ADDITIONAL INFORMATION.

NOTES:
1. ON/OFF AND RAISE/LOWER FUNCTIONS MUST BE LOCATED WITHIN SAME CONTROL STATION. IF MULTIPLE STATIONS ARE REQUIRED, CONFIRM QUANTITY, LAYOUT AND FUNCTIONALITY WITH DESIGNER.

CONTROL STATION TYPE	DESCRIPTION	NOTES
CS1	(1) ZONE/GROUP ON/OFF	
CS1D	(1) ZONE/GROUP ON/OFF/RAISE/LOWER	
CS2D	(2) ZONES/GROUPS ON/OFF/RAISE/LOWER	
CS3D	(3) ZONES/GROUPS ON/OFF/RAISE/LOWER	

GENERAL NOTES:

A. SPECIFICATIONS SHOWN REPRESENT THE BASIS OF DESIGN. OTHER LISTED MANUFACTURERS ARE ALTERNATES TO THE BASIS OF DESIGN. SUBMIT REVIEW ANY PROPOSED ALTERNATES NOT LISTED IN THE BASIS OF DESIGN TO THE DESIGN TEAM FOR REVIEW. SEE LUMINAIRE SCHEDULE FOR MORE INFORMATION ON ALTERNATE AND SUBSTITUTED FIXTURES.
B. LIGHT OUTPUT LISTED IN THIS SCHEDULE IS DELIVERED LUMENS UNLESS OTHERWISE NOTED.
C. VERIFY LUMINAIRE VOLTAGE WITH BRANCH CIRCUIT PRIOR TO ORDERING.
D. ARCHITECT TO CONFIRM ALL LUMINAIRE FINISHES PRIOR TO CONTRACTOR ORDERING.
E. COORDINATE ALL WALL, FLOOR, AND CEILING TYPES FOR MOUNTING OF LUMINAIRES PRIOR TO ORDERING AND ROUGH-IN.
F. CONFIRM ALL LUMINAIRE FINISHES, AND MOUNTING TYPES WITH ARCHITECT PRIOR TO ORDERING.
G. COORDINATE MOUNTING HEIGHTS FOR ALL SUSPENDED AND WALL MOUNTED FIXTURES WITH ARCHITECT AND LIGHTING DESIGNER PRIOR TO FINAL INSTALLATION AND CUTTING EXCESS SUSPENSION CABLE.
H. EMERGENCY LIGHTS SHALL BE INDICATED ON LIGHTING PLANS WITH 'EM' DESIGNATED FOLLOWING THE LUMINAIRE FIXTURE TAG.
I. INTEGRATED BATTERIES AND UL 924 EMERGENCY LIGHTING RELAYS TO BE PROVIDED FOR LUMINAIRES WITH 'EM' TAG.

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SCHEDULES - LIGHTING

E003

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renv_MEP25.rvt
9/30/2026 2:50:23 PM

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

GENERAL NOTES:

A. COORDINATE ALL EQUIPMENT CONNECTION REQUIREMENTS WITH INSTALLING CONTRACTOR PRIOR TO THE INSTALLATION OF ANY ELECTRICAL WORK. PROVIDE FIELD WIRING BETWEEN STARTERS, DISCONNECTS, VFDS AND OTHER APPURTENANCES AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM, PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

B. LOCATE COMBINATION STARTER/DISCONNECTS AND DISCONNECT SWITCHES WITHIN SIGHT OF AND ADJACENT TO EQUIPMENT SERVED. COORDINATE DISCONNECT INSTALLATION AND LOCATION WITH EQUIPMENT INSTALLER.

C. VFD'S ARE FURNISHED BY DIVISION 23. INSTALL VFD AND PROVIDE LINE AND LOAD SIDE FEEDERS IN ELECTRICAL WORK.

D. MAINTAIN MINIMUM SPACE CLEARACES PER NATIONAL ELECTRICAL CODE 110.26 FOR VFD'S, CONTROL PANELS, MOTOR STARTERS AND DISCONNECTS.

NOTES:

1. PROVIDE 20A, 120V POWER CONNECTION FROM PANEL F SECT. 1 TO LIGHTS AND POWER RECEPTACLE FURNISHED WITH THE EQUIPMENT.
2. INDOOR UNIT IS CIRCUITED AND CONTROLLED VIA OUTDOOR UNIT.

EQUIPMENT DESCRIPTION			EQUIPMENT CHARACTERISTICS						CONNECTION CHARACTERISTICS						FEEDER CHARACTERISTIECS					PANEL INFORMATION			
									CONTROL		DISCONNECT												
TAG	DESCRIPTION	LOCATION	HP	KVA	FLA	MOCP	VOLTS	PHASE	DIVISION	TYPE/SIZE	DIVISION	TYPE	SIZE	GENERATOR BACKUP REQUIRED	NUMBER OF SETS	CONDUIT	PHASE CONDUCTORS	GROUND CONDUCTORS	PANEL	CIRCUIT	NOTES	AVAILABLE FAULT
CP-1	CIRCULATION PUMP		5		7.5 A	15	480 V	3	26	VFD	23	FUSED	30		N 1	3/4"	3#10	1#10	4DP	4		6,744 A
CP-2	CIRCULATION PUMP		5		7.5 A	15	480 V	3	26	VFD	23	FUSED	30		N 1	3/4"	3#10	1#10	4DP	5		6,744 A
EF-1	EXHAUST FAN			0.08			120 V	1	23	ECM	26	MMS			N 1	3/4"	2#12	1#12	PANEL H (SECT. 2)	1		5,000 A <
EF-2	EXHAUST FAN		0.0833	0.08			120 V	1	23	ECM	23	MMS			N 1	3/4"	2#12	1#12	PANEL B	6		5,000 A <
ERV-1	ENERGY RECOVERY VENTILATOR				2.7 A	15	208 V	1	26	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	33,35		5,000 A <
ERV-2	ENERGY RECOVERY VENTILATOR				3.9 A	15	480 V	3	26	ECM	26	MMS			N 1	3/4"	4#12	1#12	4DP	2		16,288 A
FCU-1	INDOOR UNIT (IDU) #1				3.0 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	21,23		5,000 A <
FCU-2	IDU #2				1.9 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	21,23		5,000 A <
FCU-3	IDU #3				1.0 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	21,23		5,000 A <
FCU-4	IDU #4				1.0 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	21,23		5,000 A <
FCU-5	SPLIT SYSTEM INDOOR UNIT				0.5 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	21,23		5,000 A <
FCU-6	FCU-6 CONDENSATE PUMP			0.018			208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12			2	5,000 A <
FCU-7	VRF INDOOR UNIT				0.8 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	25,27		5,000 A <
FCU-8	VRF INDOOR UNIT				0.8 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	25,27		5,000 A <
FCU-9	VRF INDOOR UNIT				1.9 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	25,27		5,000 A <
FCU-10	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	25,27		5,000 A <
FCU-11	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	29,31		5,000 A <
FCU-12	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	29,31		5,000 A <
FCU-13	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	29,31		5,000 A <
FCU-14	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	29,31		5,000 A <
FCU-15	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	29,31		5,000 A <
FCU-16	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	29,31		5,000 A <
FCU-17	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	25,27		5,000 A <
FCU-18	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	25,27		5,000 A <
FCU-19	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	25,27		5,000 A <
FCU-20	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	25,27		5,000 A <
FCU-21	VRF INDOOR UNIT				0.3 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	29,31		5,000 A <
FCU-22	FCU-22 CONDENSATE PUMP			0.018			208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12			2	5,000 A <
HR-5-1	VRF BRANCH CONTROLLER				1.9 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	17,19		5,000 A <
HR-5-2	VRF BRANCH CONTROLLER				1.9 A	15	208 V	1	23	ECM	26	MMS			N 1	3/4"	3#12	1#12	PANEL R	17,19		5,000 A <
HV-1	AIR HANDLING UNIT		15		21.0 A	40	480 V	3	26	VFD	26	FUSED	60		N 1	3/4"	3#8	1#10	4DP	1	1	17,391 A
ODU-1	VRF OUTDOOR UNIT				34.6 A	35	208 V	1	23	ECM	26	FUSED	60		N 1	3/4"	4#8	1#10	PANEL R	1,3		5,000 A <
ODU-2	SPLIT SYSTEM OUTDOOR UNIT				34.6 A	35	208 V	1	23	ECM	26	FUSED	60		N 1	3/4"	4#8	1#10	PANEL R	5,7		5,000 A <
ODU-3	SPLIT SYSTEM OUTDOOR UNIT				12.3 A	15	208 V	1	23	ECM	26	FUSED	30		N 1	3/4"	2#12	1#12	PANEL R	9,11		5,000 A <
ODU-4	SPLIT SYSTEM OUTDOOR UNIT				21.6 A	25	208 V	1	23	ECM	26	FUSED	30		N 1	3/4"	2#10	1#10	PANEL R	13,15		5,000 A <
ODU-5	VRF OUTDOOR UNIT				20.0 A	25	480 V	3	23	ECM	26	FUSED	30		N 1	3/4"	4#10	1#10	4DP	3		5,000 A <

ELECTRICAL FLOOR DEVICE SCHEDULE

GENERAL NOTES:

A. REFER TO TELECOM DRAWINGS FOR ADDITIONAL PATHWAY AND DEVICE CONFIGURATION INFORMATION FOR TECHNOLOGY AND AV SYSTEMS.

B. REFER TO POWER PLANS FOR CONTROLLED POWER OUTLET REQUIREMENTS.

NOTES:

1. FLUSH HINGED DOOR AND COVER ASSEMBLY. STAMPED STEEL CONCRETE TIGHT BOX WITH PRE-POUR AND AFTER-POUR ADJUSTING SCREWS.

TYPE	DESCRIPTION	TOTAL GANGS	BASIS OF DESIGN PRODUCT	SIZE	POWER REQUIREMENTS	POWER CONDUITS	DATA/AV REQUIREMENTS	DATA/AV CONDUITS	STRUCTURAL FLOOR TYPES	FINISH AND DETAILS	FIRE RATING	SLAB ON-GRADE PAN/KIT	NOTES
PT1	FLUSH SURFACE-STYLE POWER AND DATA POKE-THROUGH	2	WIREMOLD RC-3 OR APPROVED EQUAL	4 INCH DIA CORE	(1) DUPLEX RECEPTACLE	(1) 3/4" C	(1) GANG - DATA/AV	(1) 3/4" C	CONCRETE	NOTE 2	2-HOUR	N/A	-
PT4	RECESSED LARGE POWER AND DATA POKE-THROUGH	4	WIREMOLD 8AT OR EQUAL	8 INCH DIA CORE	(2) DUPLEX RECEPTACLES	(1) 3/4" C	(1) GANG - DATA CONNECTIONS (2) GANGS - AV CONNECTIONS	(1) 1-1/4"C (DATA) (1) 1-1/4"C (AV)	CONCRETE	NOTE 2	2-HOUR	N/A	3

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
8/28/2026 2:55:27 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SCHEDULES - ELECTRICAL
E004

DEVICE CONNECTION SCHEDULE

GENERAL NOTES:

A. COORDINATE DEVICE CONNECTION REQUIREMENTS, LOCATIONS AND ELEVATIONS WITH ARCHITECT AND INSTALLING CONTRACTOR. COORDINATE AND PROVIDE CONNECTIONS FOR FULLY OPERATIONAL SYSTEM.

NOTES:

1. PROVIDE WITH GFCI CIRCUIT BREAKER.

EQUIPMENT ID	DESCRIPTION	CONNECTION TYPE	VOLTAGE	PHASE	LOAD	CONDUIT SIZE	PHASE CONDUCTOR SIZE	GROUND CONDUCTOR	NOTES
CPY	COPY MACHINE	5-20R	120 V	1	1.20 kVA	3/4"	2 #12	#12	
LAM	LAMINATOR	5-20R	120 V	1	1.44 kVA	3/4"	2 #12	#12	
MW	MICROWAVE	5-20R	120 V	1	1.20 kVA	3/4"	2 #12	#12	
PTR	PRINTER	5-20R	120 V	1	0.50 kVA	3/4"	2 #12	#12	
PTR	PRINTER	5-20R	120 V	1	0.50 kVA	3/4"	2 #12	#12	
REF	FRIDGE	5-20R	120 V	1	1.20 kVA	3/4"	2 #12	#12	
TV	TELEVISION DISPLAY	5-20R	120 V	1	0.20 kVA	3/4"	2 #12	#12	
VD	VENDING MACHINE	5-20R	120 V	1	1.44 kVA	3/4"	2 #12	#12	1

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

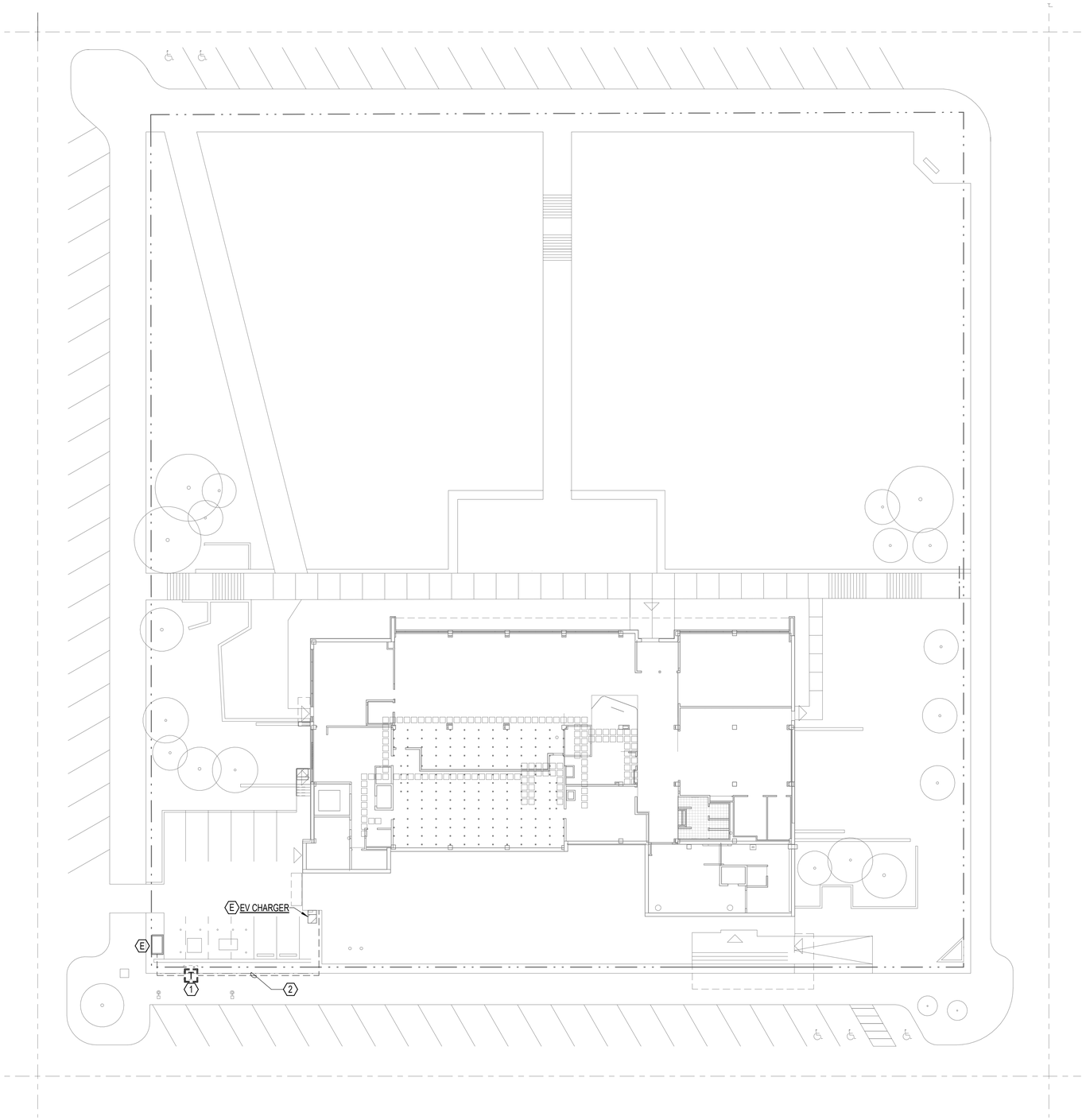
Issue Date: 09/16/26

SHEET

SCHEDULES - ELECTRICAL

E005

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/18/2026 2:53:31 PM



1 DEMO SITE PLAN - ELECTRICAL
1" = 20'-0"

NOTES:

1. EXISTING PSE XFMR TO BE REPLACED. SEE POWER ONE-LINE DIAGRAM ON SHEET E701 FOR NEW SCOPE OF WORK.

2. EXISTING FEEDER ROUTE TO BE FIELD VERIFIED.

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

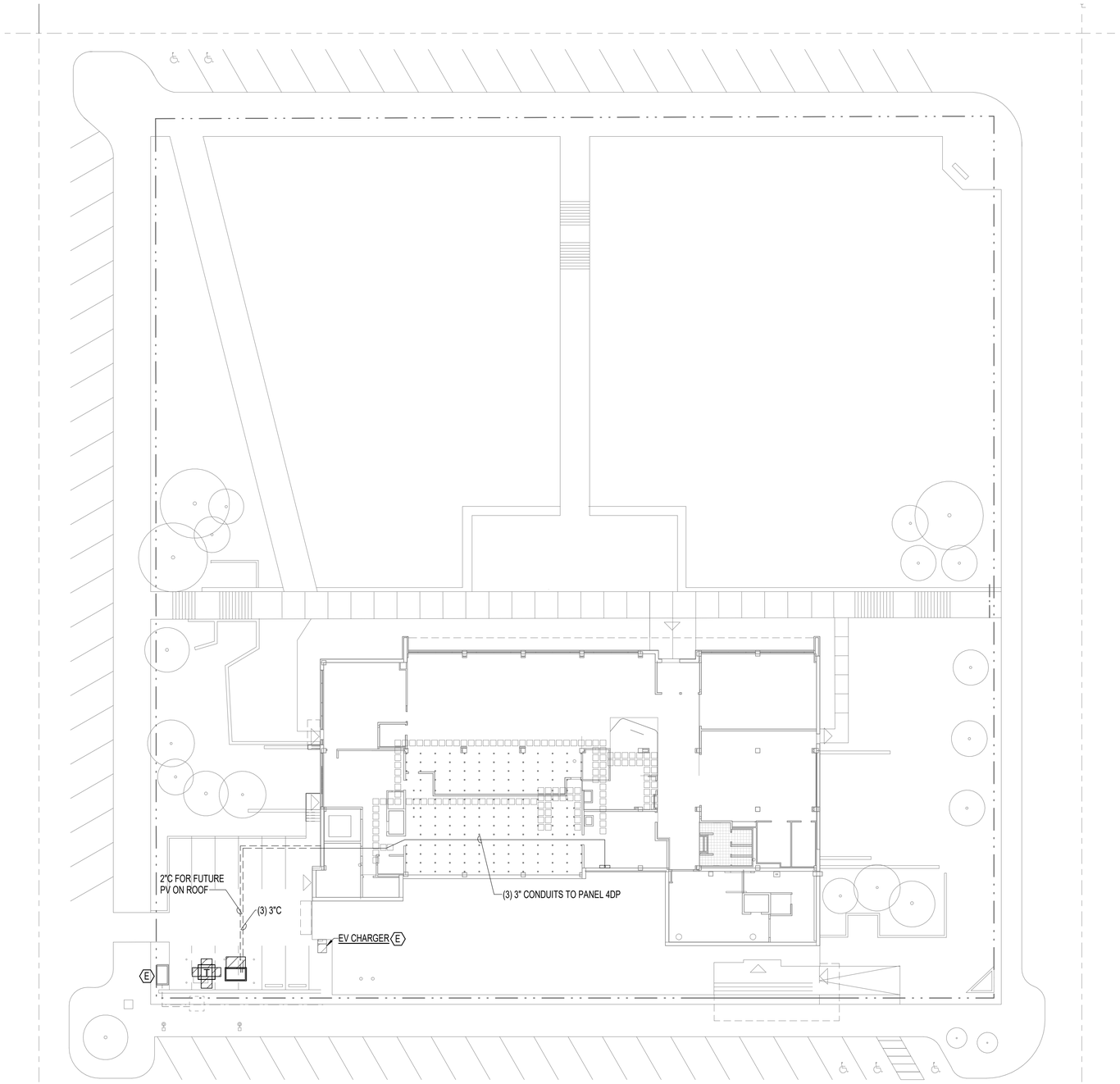
Issue Date: 09/16/26

SHEET

DEMO SITE PLAN - ELECTRICAL

ED010

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP25.rvt
9/30/2026 2:55:30 PM



1 SITE PLAN - ELECTRICAL
1" = 20'-0"

INCOMING ELECTRICAL SERVICE DIVISION OF RESPONSIBILITY

	CONTRACTOR	UTILITY
PRIMARY CONDUIT	X	
PRIMARY CONDUCTORS		X
TRENCHING AND BACKFILL	X	
TRANSFORMER		X
TRANSFORMER PAD / VAULT	X	
BOLLARDS	X	
TRANSFORMER CONNECTIONS		X
SECONDARY CONDUIT	X	
SECONDARY CONDUCTORS	X	
C/T ENCLOSURE	X	
C/T(S)		X
METER BASE	X	
METER		X
ELECTRIC ROOM DOOR LOCK BOX (OBTAIN FROM POWER COMPANY)	X	
REPORTED FAULT CURRENT AT TRANSFORMER		X

GENERAL NOTES:

A. PAE HAS CONTACTED THE UTILITIES BUT HAS NOT RECEIVED IN WRITING THE FINAL REQUIREMENTS FROM UTILITIES COMPANIES. THESE DRAWINGS INDICATE OUR BEST ESTIMATION OF THEIR REQUIREMENTS. PRIOR TO BID AND PRIOR TO ANY CONSTRUCTION CONTACT THE UTILITIES AND OBTAIN FINAL DESIGN REQUIREMENTS.

B. ALL SERVICE INSTALLATION WORK SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES AND LOCAL AHJS.

CONTACTS:

POWER UTILITY:
PSE - Robert Lee
EMAIL: Robert.Lee@pse.com
PHONE: (360) 599-9775 (LANDLINE)
(425) 495-7104 (CELL)
WORK ORDER #: 517335570

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SITE PLAN - ELECTRICAL
E010

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/23-1065 - City of Bellingham Cent Lib Renv_MEPF25.rvt
9/29/2025 2:50:40 PM

GENERAL NOTES:

A. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO SOURCE, INCLUDING CONDUITS, CONDUCTORS AND CABLES, HANGERS AND SUPPORTS.

B. PROVIDE UPDATED TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL AFFECTED PANELS. TURN "OFF" ALL SPARE BREAKERS.

C. DEMOLITION OF ITEMS WITH CIRCUITS THAT ARE SHARED WITH ITEMS TO REMAIN, THE DEMOLISHED CIRCUIT SHALL BE REMOVED TO THE NEAREST JUNCTION BOX. PROVIDE COMPLETE REPAIR OF THE CIRCUITS REMAINING TO SERVE EXISTING ITEMS.

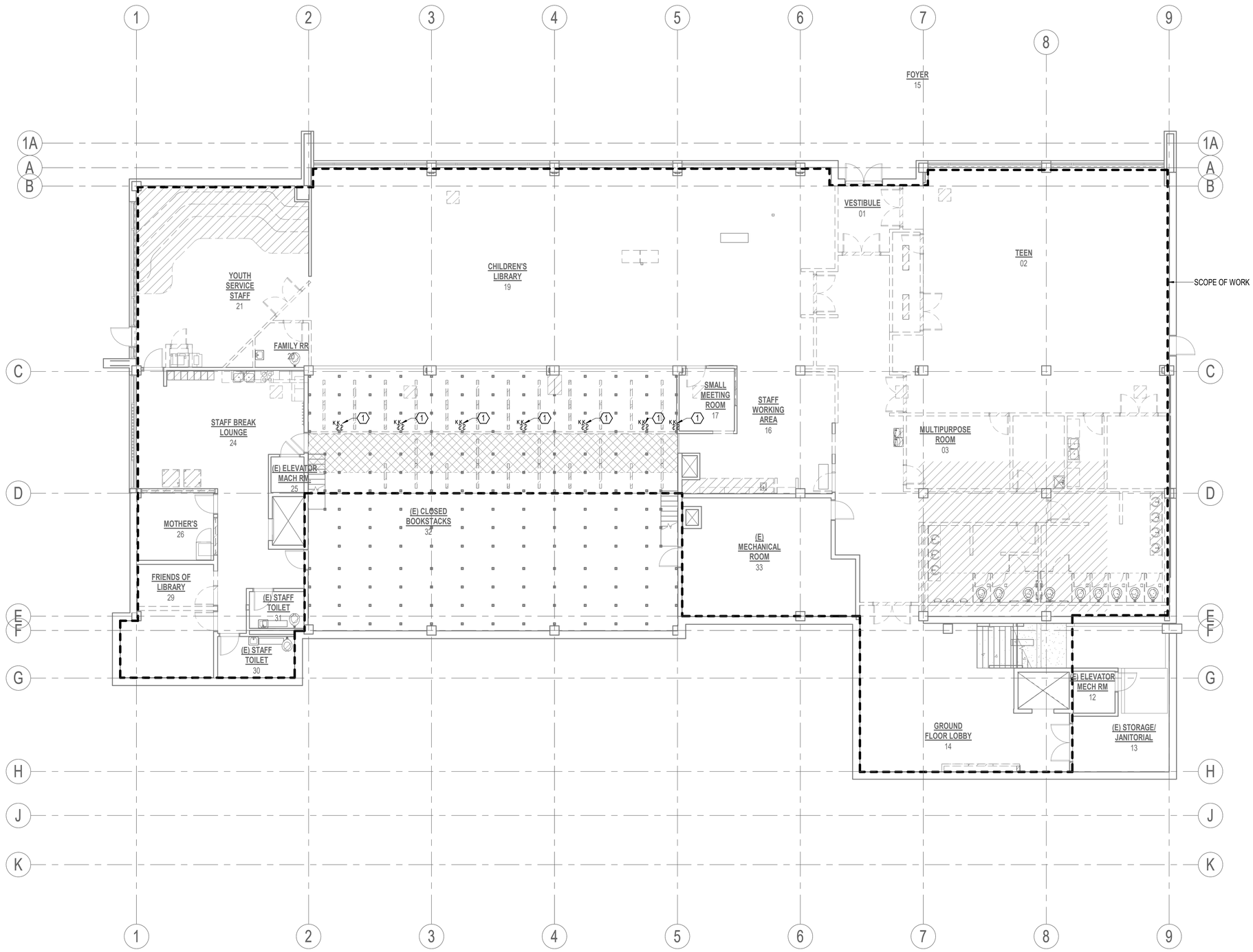
D. ALL EXISTING SYSTEMS THAT ARE TO REMAIN IN SERVICE PASSING THROUGH THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION WORK.

E. ANY CONDUIT SYSTEM THAT ARE TO BE SALVAGED FOR REUSE SHALL BE INSPECTED AND REPAIRED AND SHALL COMPLY WITH CURRENT CODE.

F. DEVICES AND EQUIPMENT SHOWN IN HALF TONE ARE EXISTING TO REMAIN, UON.

NOTES:

1. REMOVE AND RELOCATE BOOKSTACKS LIGHTING SWITCH TO ACCOMMODATE DEMOLITION OF EXISTING WALL.



1 GROUND LEVEL DEMOLITION RCP - LIGHTING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/25-1065 - City of Bellingham Cent Lib Renv_MEPF25.rvt
8/20/2026 7:56:48 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET
GROUND LEVEL DEMOLITION RCP - LIGHTING
ED101

GENERAL NOTES:

A. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO SOURCE, INCLUDING CONDUITS, CONDUCTORS AND CABLES, HANGERS AND SUPPORTS.

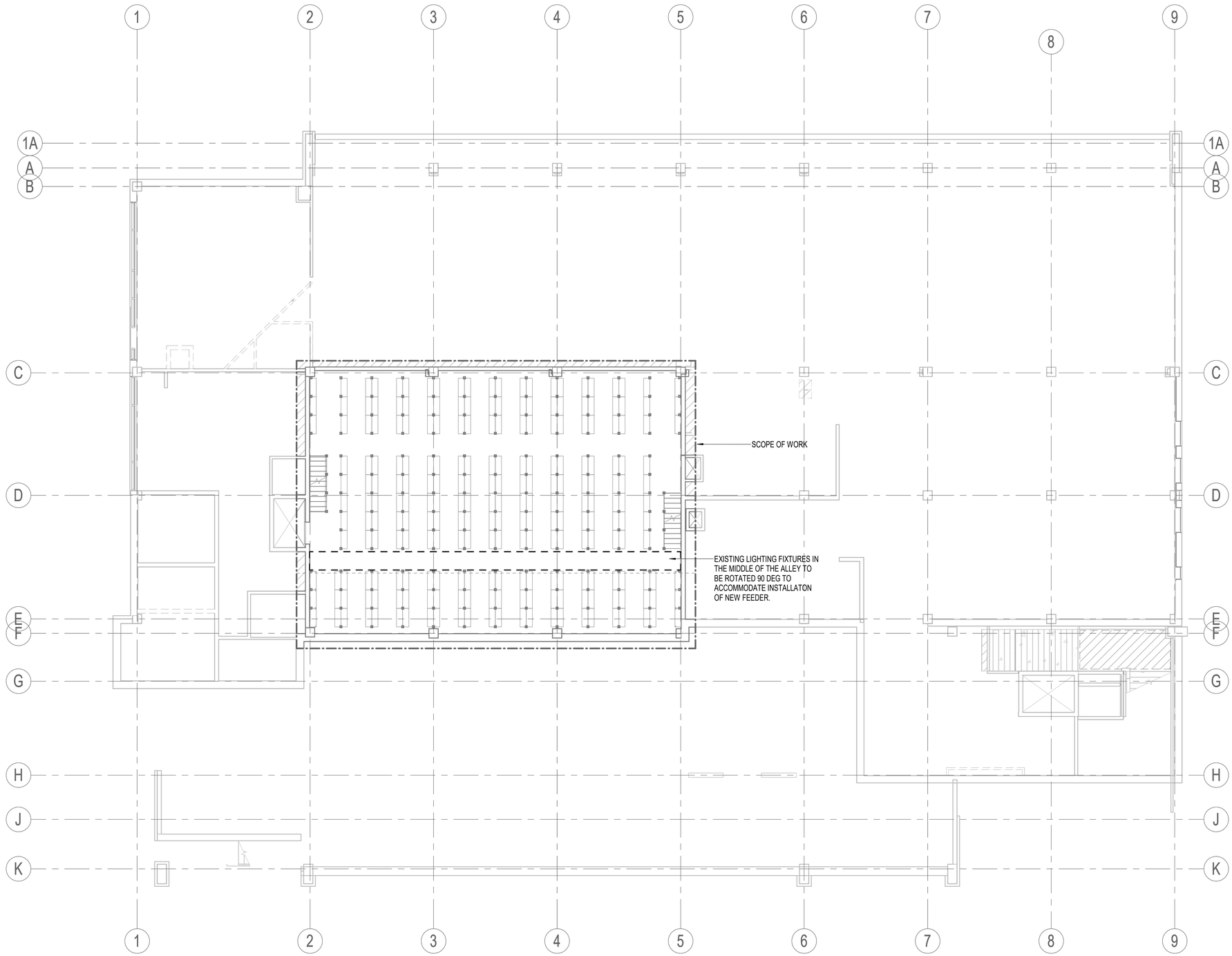
B. PROVIDE UPDATED TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL AFFECTED PANELS. TURN "OFF" ALL SPARE BREAKERS.

C. DEMOLITION OF ITEMS WITH CIRCUITS THAT ARE SHARED WITH ITEMS TO REMAIN, THE DEMOLISHED CIRCUIT SHALL BE REMOVED TO THE NEAREST JUNCTION BOX. PROVIDE COMPLETE REPAIR OF THE CIRCUITS REMAINING TO SERVE EXISTING ITEMS.

D. ALL EXISTING SYSTEMS THAT ARE TO REMAIN IN SERVICE PASSING THROUGH THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION WORK.

E. ANY CONDUIT SYSTEM THAT ARE TO BE SALVAGED FOR REUSE SHALL BE INSPECTED AND REPAIRED AND SHALL COMPLY WITH CURRENT CODE.

F. DEVICES AND EQUIPMENT SHOWN IN HALF TONE ARE EXISTING TO REMAIN, UON.



1 GROUND LEVEL MEZZANINE DEMOLITION RCP - LIGHTING
1/8" = 1'-0"

Autodesk Docs://23-1055 - City of Bellingham Cent Lib Renov/23-1055 - City of Bellingham Cent Lib Renov_MEPF25.rvt
9/29/2026 7:26:07 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND FLOOR MEZZANINE DEMO RCP - LIGHTING

ED111

GENERAL NOTES:

A. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO SOURCE, INCLUDING CONDUITS, CONDUCTORS AND CABLES, HANGERS AND SUPPORTS.

B. PROVIDE UPDATED TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL AFFECTED PANELS. TURN "OFF" ALL SPARE BREAKERS.

C. DEMOLITION OF ITEMS WITH CIRCUITS THAT ARE SHARED WITH ITEMS TO REMAIN, THE DEMOLISHED CIRCUIT SHALL BE REMOVED TO THE NEAREST JUNCTION BOX. PROVIDE COMPLETE REPAIR OF THE CIRCUITS REMAINING TO SERVE EXISTING ITEMS.

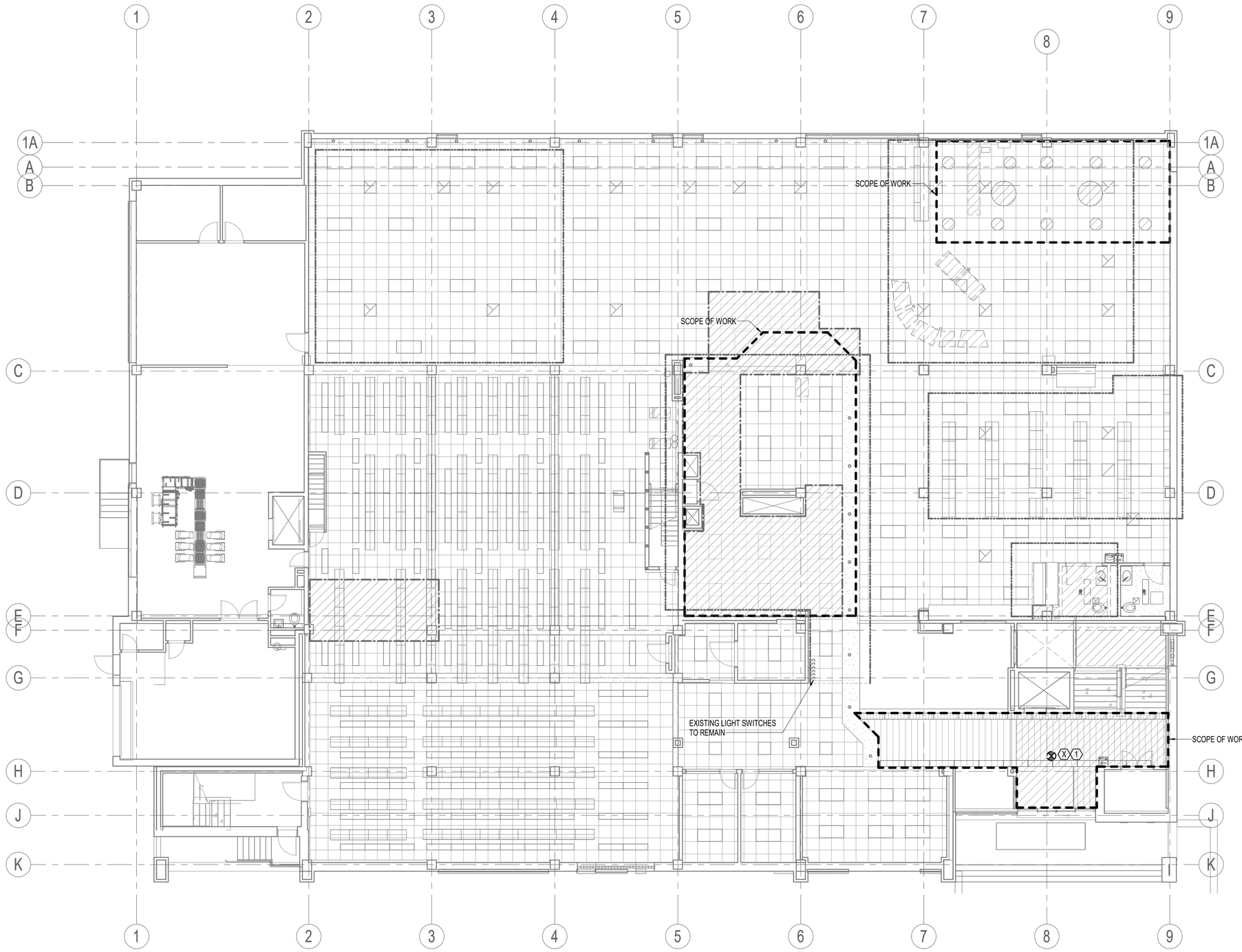
D. ALL EXISTING SYSTEMS THAT ARE TO REMAIN IN SERVICE PASSING THROUGH THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION WORK.

E. ANY CONDUIT SYSTEM THAT ARE TO BE SALVAGED FOR REUSE SHALL BE INSPECTED AND REPAIRED AND SHALL COMPLY WITH CURRENT CODE.

F. DEVICES AND EQUIPMENT SHOWN IN HALF TONE ARE EXISTING TO REMAIN, UON.

NOTES:

1. REMOVE EXISTING EXIT SIGN TO ACCOMMODATE PAINTING OF EXISTING CEILING.



1 FIRST FLOOR DEMOLITION RCP - LIGHTING
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

FIRST FLOOR DEMOLITION RCP - LIGHTING

ED121

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP25.rvt
9/9/2026 2:05:05 PM

GENERAL NOTES:

A. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO SOURCE, INCLUDING CONDUITS, CONDUCTORS AND CABLES, HANGERS AND SUPPORTS.

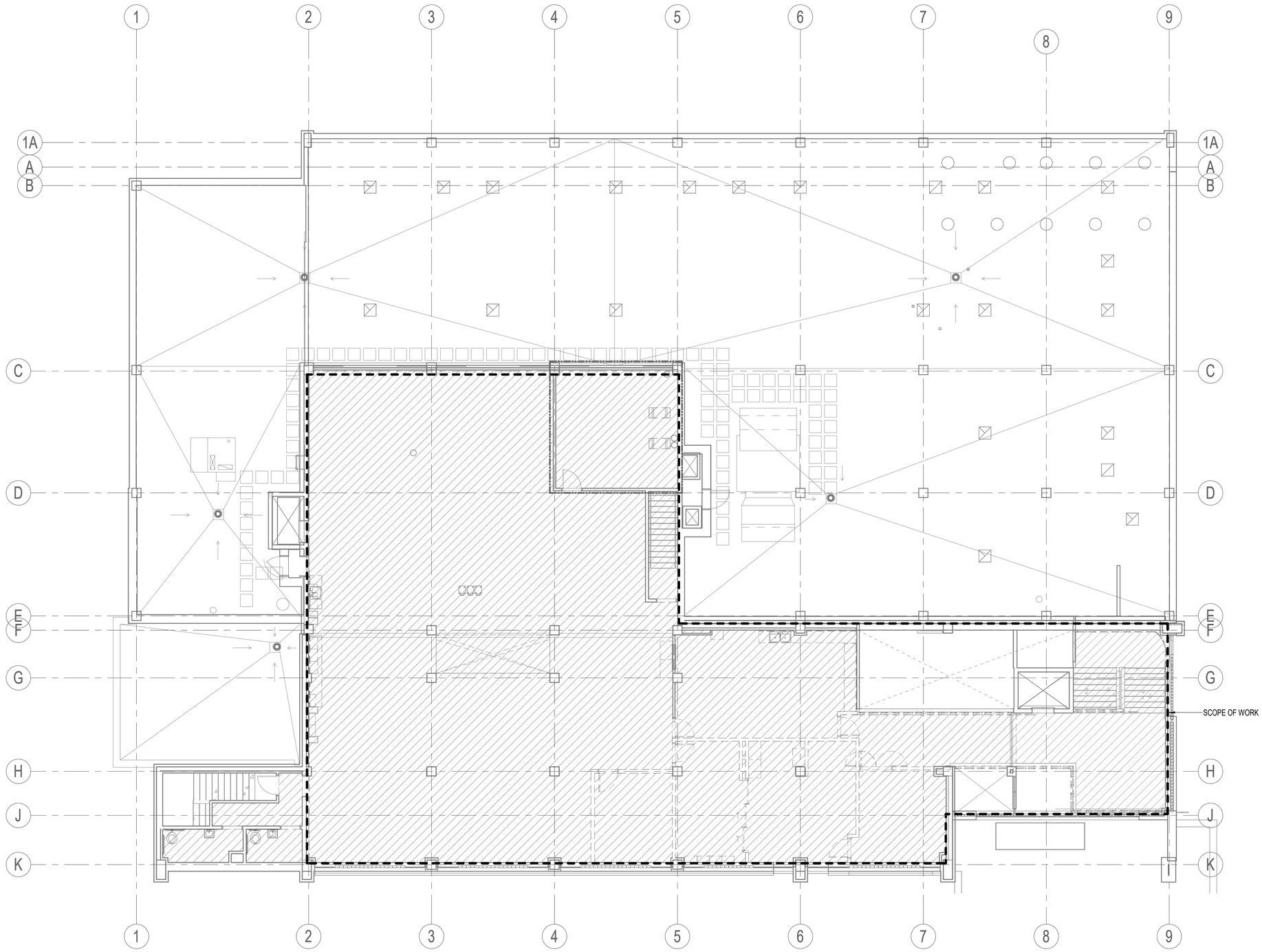
B. PROVIDE UPDATED TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL AFFECTED PANELS. TURN "OFF" ALL SPARE BREAKERS.

C. DEMOLITION OF ITEMS WITH CIRCUITS THAT ARE SHARED WITH ITEMS TO REMAIN, THE DEMOLISHED CIRCUIT SHALL BE REMOVED TO THE NEAREST JUNCTION BOX. PROVIDE COMPLETE REPAIR OF THE CIRCUITS REMAINING TO SERVE EXISTING ITEMS.

D. ALL EXISTING SYSTEMS THAT ARE TO REMAIN IN SERVICE PASSING THROUGH THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION WORK.

E. ANY CONDUIT SYSTEM THAT ARE TO BE SALVAGED FOR REUSE SHALL BE INSPECTED AND REPAIRED AND SHALL COMPLY WITH CURRENT CODE.

F. DEVICES AND EQUIPMENT SHOWN IN HALF TONE ARE EXISTING TO REMAIN, UON.



1 SECOND FLOOR DEMOLITION RCP - LIGHTING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP23.rvt
8/29/2025 7:27:17 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET
SECOND FLOOR DEMOLITION RCP - LIGHTING
ED131

GENERAL NOTES:

A. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO SOURCE, INCLUDING CONDUITS, CONDUCTORS AND CABLES, HANGERS AND SUPPORTS.

B. PROVIDE UPDATED TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL AFFECTED PANELS. TURN "OFF" ALL SPARE BREAKERS.

C. DEMOLITION OF ITEMS WITH CIRCUITS THAT ARE SHARED WITH ITEMS TO REMAIN, THE DEMOLISHED CIRCUIT SHALL BE REMOVED TO THE NEAREST JUNCTION BOX. PROVIDE COMPLETE REPAIR OF THE CIRCUITS REMAINING TO SERVE EXISTING ITEMS.

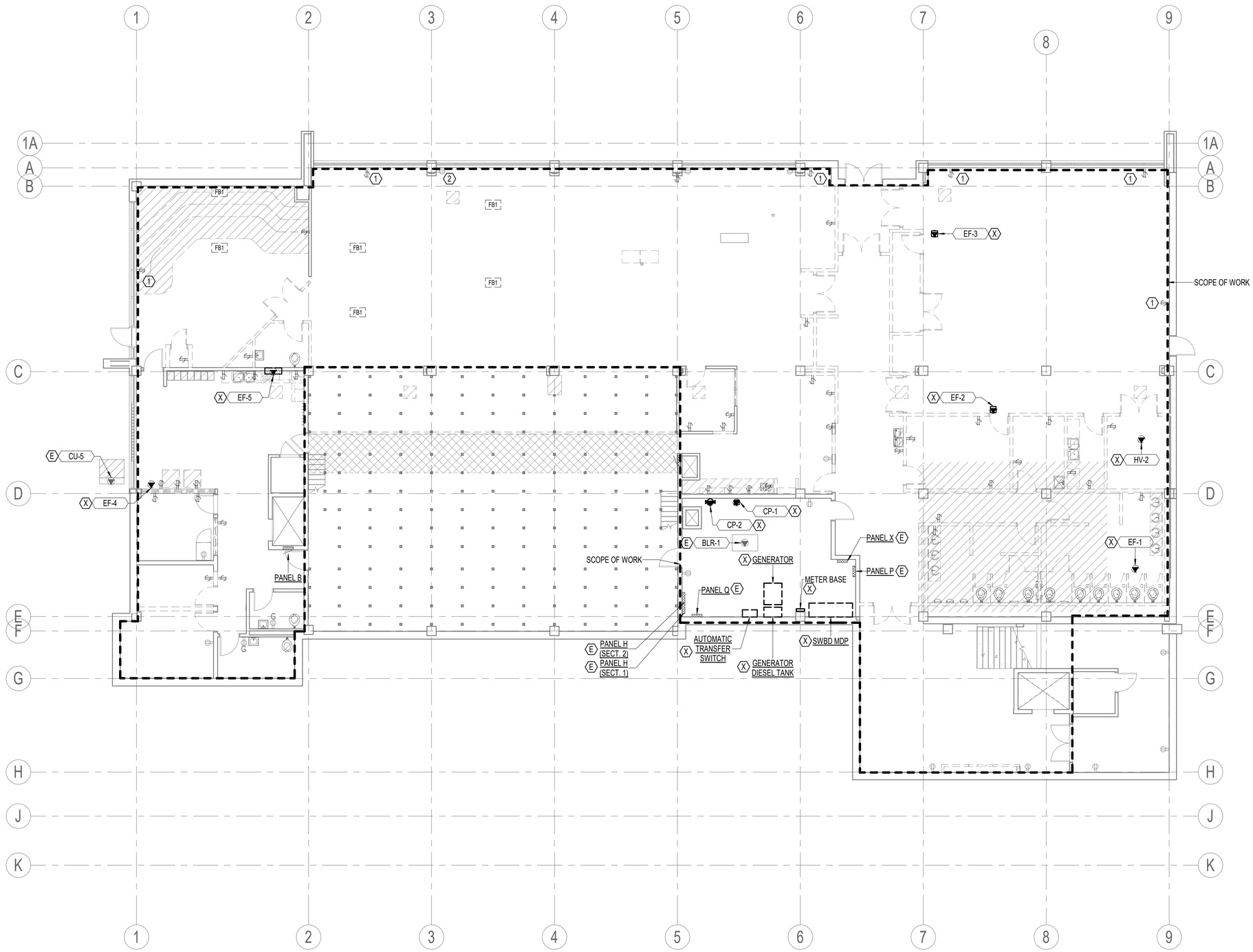
D. ALL EXISTING SYSTEMS THAT ARE TO REMAIN IN SERVICE PASSING THROUGH THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION WORK.

E. ANY CONDUIT SYSTEM THAT ARE TO BE SALVAGED FOR REUSE SHALL BE INSPECTED AND REPAIRED AND SHALL COMPLY WITH CURRENT CODE.

F. DEVICES AND EQUIPMENT SHOWN IN HALF TONE ARE EXISTING TO REMAIN, UON.

NOTES:

1. REMOVE EXISTING POWER RECEPTACLE AND CIRCUITRY AND PROVIDE BLANK FACEPLATE TO EXISTING BACKBOX.
2. MOVE EXISTING RECEPTACLE ABOVE BOOKSHELF, BELOW THE WINDOW..



1 GROUND LEVEL DEMOLITION PLAN - POWER
1/8" = 1'-0"

Autodesk Docs://23-1055 - City of Bellingham Cent Lib Reno/23-1055 - City of Bellingham Cent Lib Reno_MEP725.rvt
9/26/2025 7:47:20 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

GROUND LEVEL DEMOLITION PLAN - POWER

ED201

GENERAL NOTES:

A. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO SOURCE, INCLUDING CONDUITS, CONDUCTORS AND CABLES, HANGERS AND SUPPORTS.

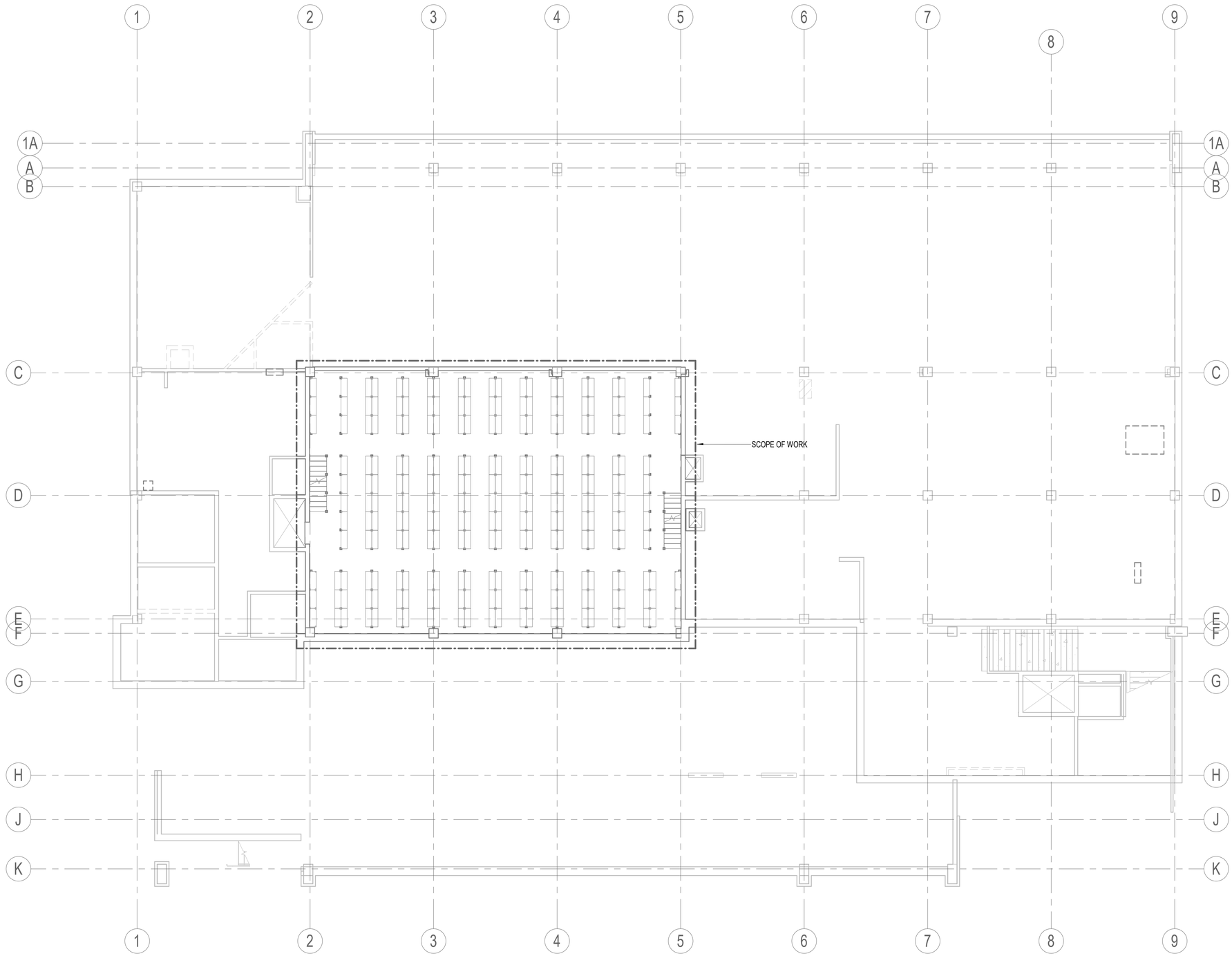
B. PROVIDE UPDATED TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL AFFECTED PANELS. TURN "OFF" ALL SPARE BREAKERS.

C. DEMOLITION OF ITEMS WITH CIRCUITS THAT ARE SHARED WITH ITEMS TO REMAIN, THE DEMOLISHED CIRCUIT SHALL BE REMOVED TO THE NEAREST JUNCTION BOX. PROVIDE COMPLETE REPAIR OF THE CIRCUITS REMAINING TO SERVE EXISTING ITEMS.

D. ALL EXISTING SYSTEMS THAT ARE TO REMAIN IN SERVICE PASSING THROUGH THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION WORK.

E. ANY CONDUIT SYSTEM THAT ARE TO BE SALVAGED FOR REUSE SHALL BE INSPECTED AND REPAIRED AND SHALL COMPLY WITH CURRENT CODE.

F. DEVICES AND EQUIPMENT SHOWN IN HALF TONE ARE EXISTING TO REMAIN, UON.



1 GROUND FLOOR MEZZANINE DEMOLITION PLAN - POWER
1/8" = 1'-0"

Autodesk Docs://23-1055 - City of Bellingham Cent Lib Renov/23-1055 - City of Bellingham Cent Lib Renov_MEPF25.rvt
9/29/2026 7:47:23 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

MEZZANINE DEMO PLAN - POWER

ED211

GENERAL NOTES:

A. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO SOURCE, INCLUDING CONDUITS, CONDUCTORS AND CABLES, HANGERS AND SUPPORTS.

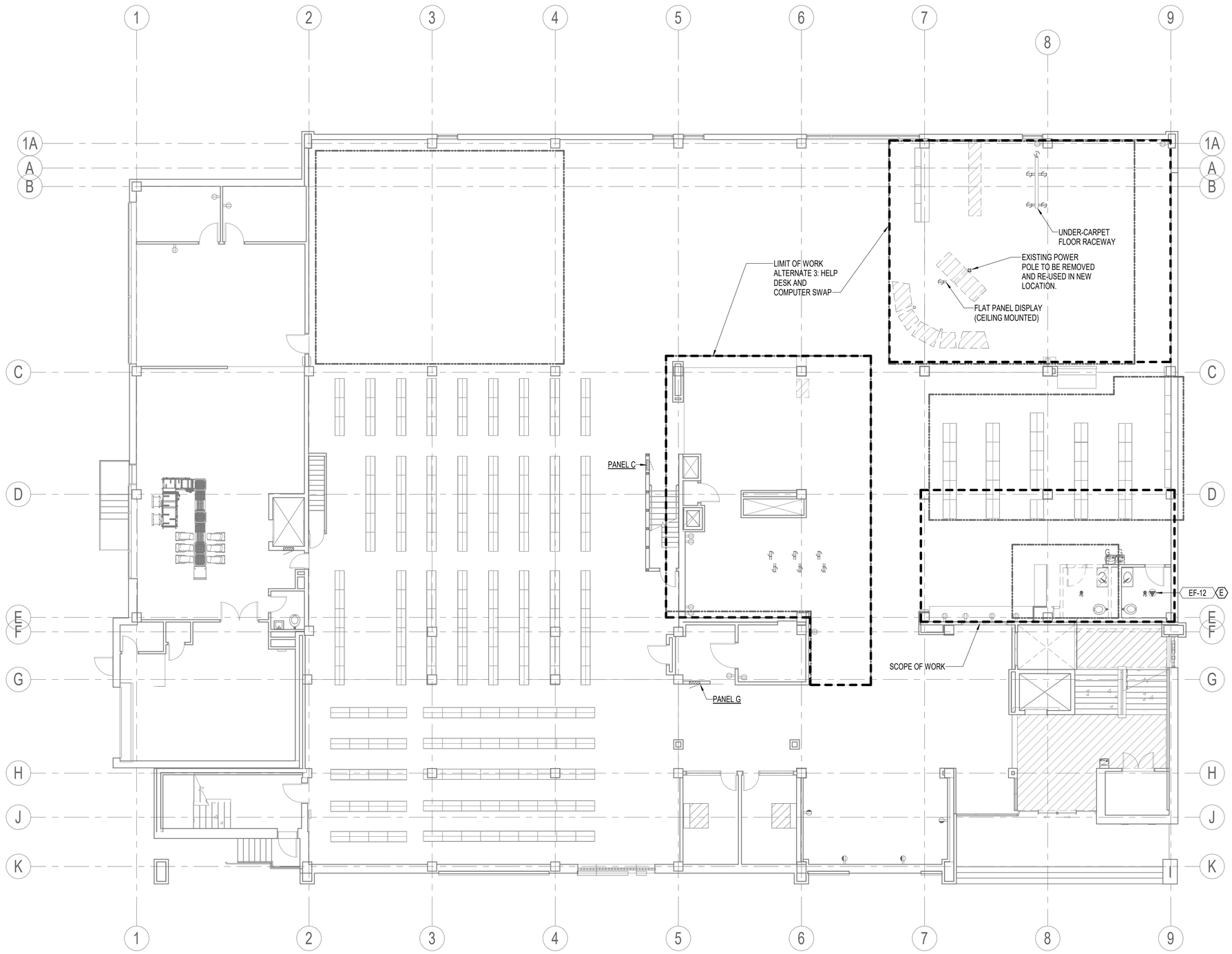
B. PROVIDE UPDATED TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL AFFECTED PANELS. TURN "OFF" ALL SPARE BREAKERS.

C. DEMOLITION OF ITEMS WITH CIRCUITS THAT ARE SHARED WITH ITEMS TO REMAIN, THE DEMOLISHED CIRCUIT SHALL BE REMOVED TO THE NEAREST JUNCTION BOX. PROVIDE COMPLETE REPAIR OF THE CIRCUITS REMAINING TO SERVE EXISTING ITEMS.

D. ALL EXISTING SYSTEMS THAT ARE TO REMAIN IN SERVICE PASSING THROUGH THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION WORK.

E. ANY CONDUIT SYSTEM THAT ARE TO BE SALVAGED FOR REUSE SHALL BE INSPECTED AND REPAIRED AND SHALL COMPLY WITH CURRENT CODE.

F. DEVICES AND EQUIPMENT SHOWN IN HALF TONE ARE EXISTING TO REMAIN, UON.



1 FIRST FLOOR DEMOLITION PLAN - POWER
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/25-1065 - City of Bellingham Cent Lib Renov_MEPF25.rvt
8/20/2026 2:57:23 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

FIRST FLOOR DEMOLITION PLAN - POWER

ED221

GENERAL NOTES:

A. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO SOURCE, INCLUDING CONDUITS, CONDUCTORS AND CABLES, HANGERS AND SUPPORTS.

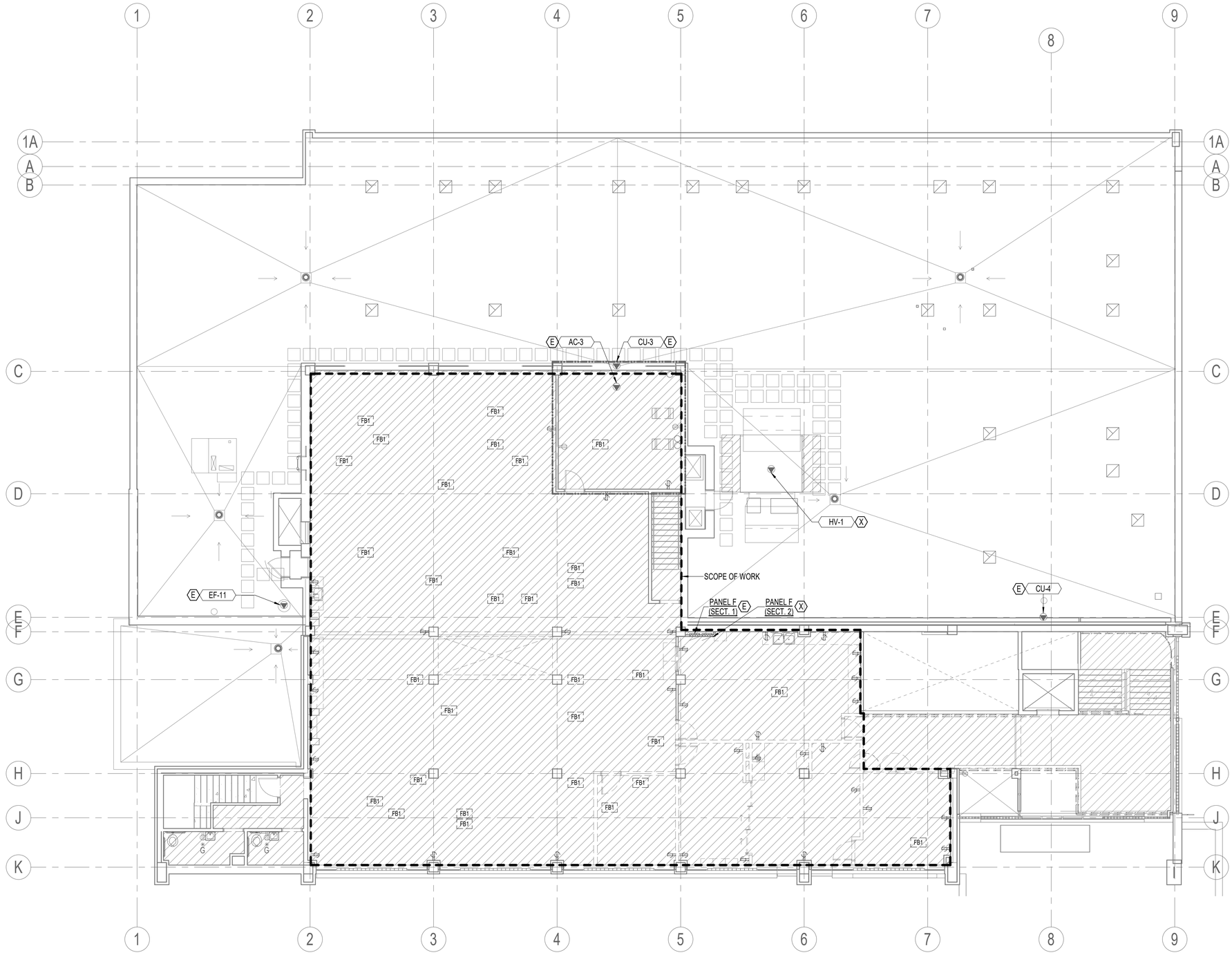
B. PROVIDE UPDATED TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL AFFECTED PANELS. TURN "OFF" ALL SPARE BREAKERS.

C. DEMOLITION OF ITEMS WITH CIRCUITS THAT ARE SHARED WITH ITEMS TO REMAIN, THE DEMOLISHED CIRCUIT SHALL BE REMOVED TO THE NEAREST JUNCTION BOX. PROVIDE COMPLETE REPAIR OF THE CIRCUITS REMAINING TO SERVE EXISTING ITEMS.

D. ALL EXISTING SYSTEMS THAT ARE TO REMAIN IN SERVICE PASSING THROUGH THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION WORK.

E. ANY CONDUIT SYSTEM THAT ARE TO BE SALVAGED FOR REUSE SHALL BE INSPECTED AND REPAIRED AND SHALL COMPLY WITH CURRENT CODE.

F. DEVICES AND EQUIPMENT SHOWN IN HALF TONE ARE EXISTING TO REMAIN, UON.



1 SECOND FLOOR DEMOLITION PLAN - POWER
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP25.rvt
9/9/2026 2:47:43 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SECOND FLOOR DEMOLITION PLAN - POWER

ED231

GENERAL NOTES:

A. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO SOURCE, INCLUDING CONDUITS, CONDUCTORS AND CABLES, HANGERS AND SUPPORTS.

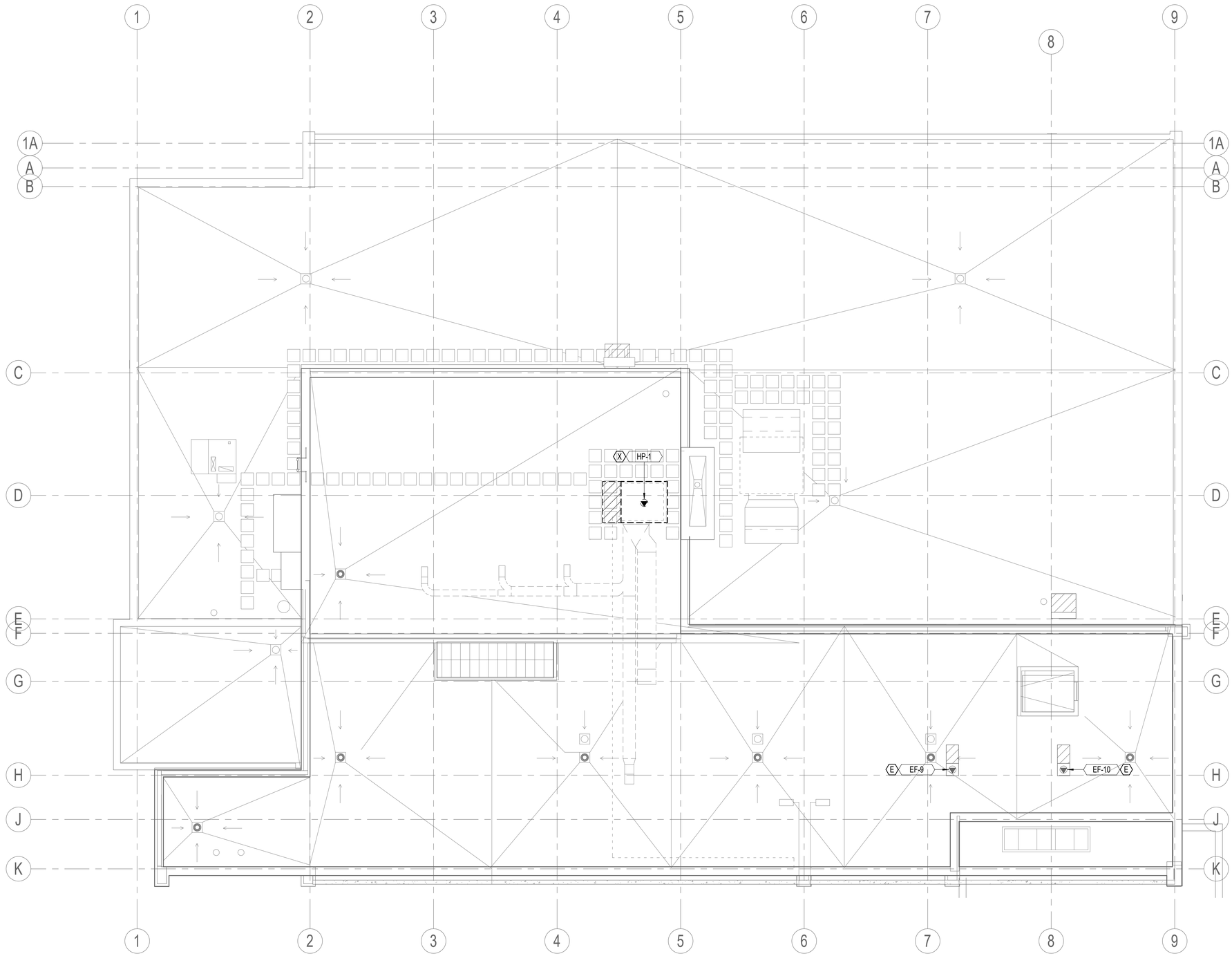
B. PROVIDE UPDATED TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL AFFECTED PANELS. TURN "OFF" ALL SPARE BREAKERS.

C. DEMOLITION OF ITEMS WITH CIRCUITS THAT ARE SHARED WITH ITEMS TO REMAIN, THE DEMOLISHED CIRCUIT SHALL BE REMOVED TO THE NEAREST JUNCTION BOX. PROVIDE COMPLETE REPAIR OF THE CIRCUITS REMAINING TO SERVE EXISTING ITEMS.

D. ALL EXISTING SYSTEMS THAT ARE TO REMAIN IN SERVICE PASSING THROUGH THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION WORK.

E. ANY CONDUIT SYSTEM THAT ARE TO BE SALVAGED FOR REUSE SHALL BE INSPECTED AND REPAIRED AND SHALL COMPLY WITH CURRENT CODE.

F. DEVICES AND EQUIPMENT SHOWN IN HALF TONE ARE EXISTING TO REMAIN, UON.



1 ROOF DEMOLITION PLAN - POWER
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renv_MEPT25.rvt
8/20/2026 2:57:57 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

ROOF DEMOLITION PLAN - POWER

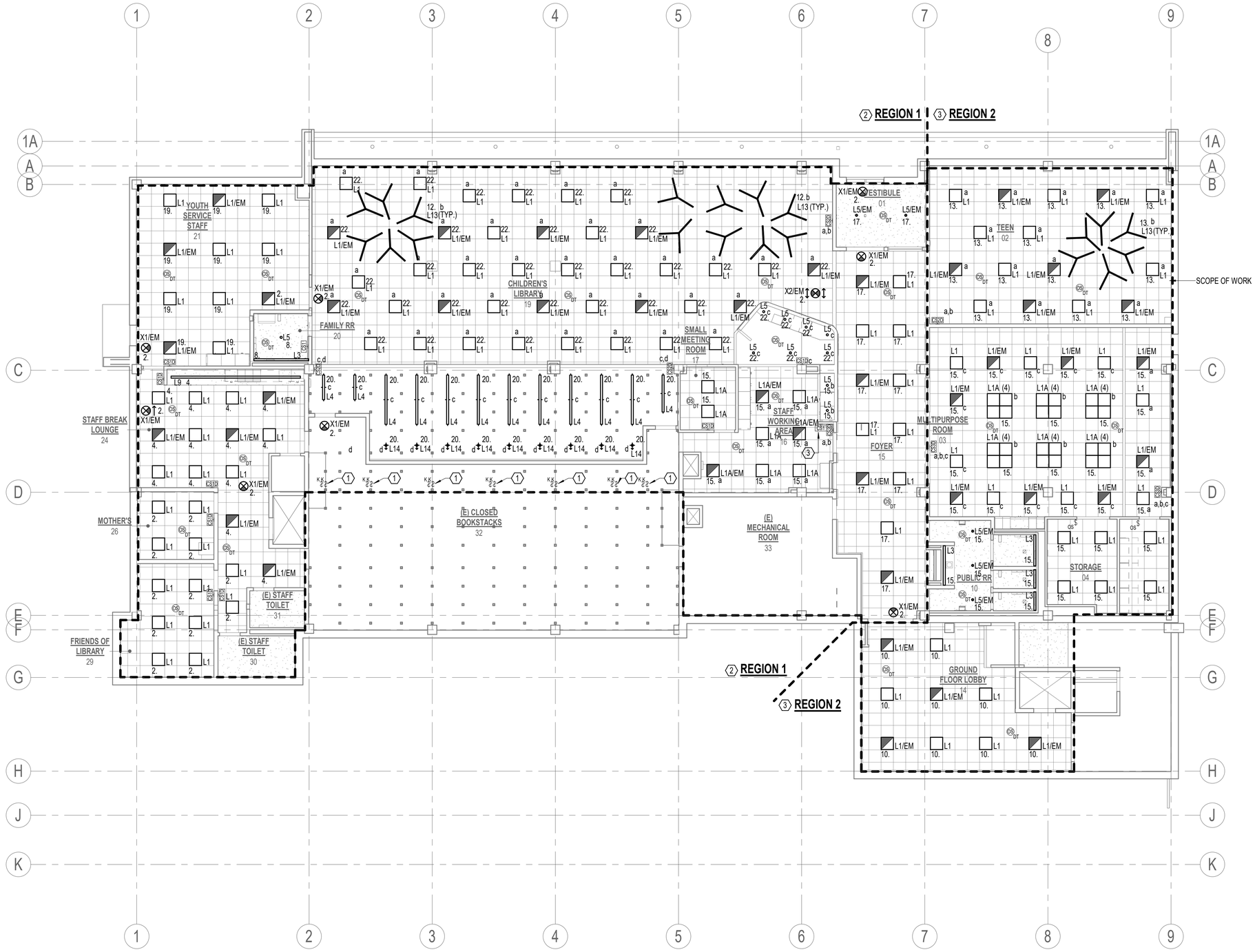
ED241

GENERAL NOTES:

A. NOT USED.
B. EGRESS LIGHTING SHALL BE PER CODE MINIMUM IN ALL SPACES WHERE EMERGENCY EGRESS LIGHTING IS REQUIRED INCLUDING ALL EXTERIOR SPACES. LUMINAIRES USED FOR EGRESS ILLUMINATION WILL BE DESIGNATED IN THE CONSTRUCTION DOCUMENT AND PERMIT PROCESS. IN STAIRS, ELECTRICAL ROOMS, IDF/MDF ROOMS, MECHANICAL ROOMS AND ELEVATOR MACHINE ROOMS 50% LIGHTING TO BE ON EMERGENCY POWER. IN STAIRS, CORRIDORS, AND OTHER AREAS REQUIRING PARTIAL-OFF LIGHT REDUCTION, EMERGENCY LIGHTING IS TO BE CONTROLLED WITH OCCUPANCY SENSORS TO ALLOW 50% DIMMING WHEN THE SPACE IS UNOCCUPIED.
C. PROVIDE UL924 DEVICES IN APPLICABLE AREAS FOR EGRESS LIGHTS TO OPERATE WITH NORMAL POWERED LIGHTS DURING NORMAL POWER CONDITIONS, AND OVERRIDE TO FULL OUTPUT ON DURING EMERGENCY POWER CONDITIONS.
D. EXIT SIGNS ARE TO BE PROVIDED TO MEET CODE REQUIREMENTS AND TO BE LOCATED PER THE LIFE SAFETY DIAGRAM PROVIDED BY THE ARCHITECT IN QUANTITY TO NOT EXCEED CODE MAXIMUM DISTANCES BETWEEN SIGNS. ALL EXIT SIGNS ARE TO BE ON EMERGENCY POWER.
E. CIRCUIT ALL EXIT SIGNS TO PANEL X UNLESS OTHERWISE NOTED.

NOTES:

1. RELOCATED BOOKSTACKS LIGHTING SWITCH.
2. CIRCUIT LIGHTING IN REGION 1 TO PANEL B UNLESS OTHERWISE NOTED.
3. PROVIDE ON/OFF LIGHT SWITCH TO OVERRIDE OCCUPANCY SENSORS IN VESTIBULE 01, FOYER 15, PUBLIC RESTROOM 10, AND GROUND FLOOR LOBBY 14.



1 GROUND FLOOR RCP - LIGHTING
1/8" = 1'-0"

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

GROUND FLOOR RCP - LIGHTING
E101

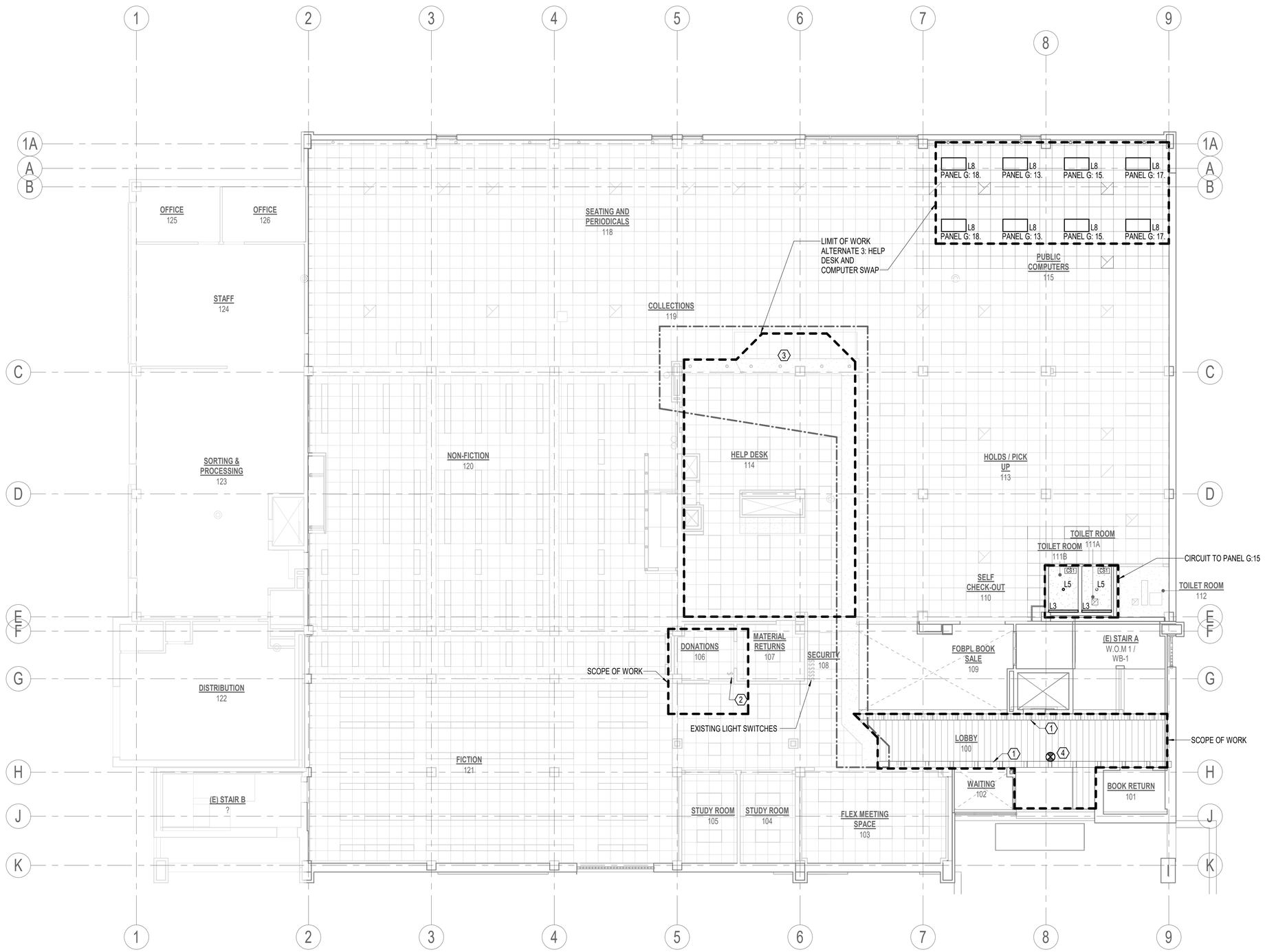
Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP25.rvt
9/29/2026 2:57:15 PM

GENERAL NOTES:

A. NOT USED.
B. EGRESS LIGHTING SHALL BE PER CODE MINIMUM IN ALL SPACES WHERE EMERGENCY EGRESS LIGHTING IS REQUIRED INCLUDING ALL EXTERIOR SPACES. LUMINAIRES USED FOR EGRESS ILLUMINATION WILL BE DESIGNATED IN THE CONSTRUCTION DOCUMENT AND PERMIT PROCESS. IN STAIRS, ELECTRICAL ROOMS, IDF/MDF ROOMS, MECHANICAL ROOMS AND ELEVATOR MACHINE ROOMS 50% LIGHTING TO BE ON EMERGENCY POWER. IN STAIRS, CORRIDORS, AND OTHER AREAS REQUIRING PARTIAL-OFF LIGHT REDUCTION, EMERGENCY LIGHTING IS TO BE CONTROLLED WITH OCCUPANCY SENSORS TO ALLOW 50% DIMMING WHEN THE SPACE IS UNOCCUPIED.
C. PROVIDE UL924 DEVICES IN APPLICABLE AREAS FOR EGRESS LIGHTS TO OPERATE WITH NORMAL POWERED LIGHTS DURING NORMAL POWER CONDITIONS, AND OVERRIDE TO FULL OUTPUT ON DURING EMERGENCY POWER CONDITIONS.
D. EXIT SIGNS ARE TO BE PROVIDED TO MEET CODE REQUIREMENTS AND TO BE LOCATED PER THE LIFE SAFETY DIAGRAM PROVIDED BY THE ARCHITECT IN QUANTITY TO NOT EXCEED CODE MAXIMUM DISTANCES BETWEEN SIGNS. ALL EXIT SIGNS ARE TO BE ON EMERGENCY POWER.
E. CIRCUIT ALL EXIT SIGNS TO PANEL X UNLESS OTHERWISE NOTED.

⬡ NOTES:

1. CONTRACTOR TO REPAIR AND RETROFIT EXISTING 1X4 FLUORESCENT TROFFERS WITH NEW BYPASS-STYLED LED LAMPS:
   A. CONTRACTOR TO PROVIDE WITH (2) 4FT T8 LED LAMPS (GREEN CREATIVE 10T8/4F/835/UEB) CONFIRM LAMP BASE WITH EXISTING CONDITIONS.
   B. CONTRACTOR TO REPLACE EXISITNG LENSES WITH NEW P95 ACRYLIC LENSES.
2. PROVIDE LIGHT SWITCH TO CONTROL RELAMPED LIGHTING FIXTURES IN SCOPE OF WORK ON FIRST AND SECOND FLOOR.
3. RELAMP EXISTING DOWNLIGHTS AT HELP DESK SOFFIT WITH NEW A19 LED LEAMPS (GREEN CREATIVE 11A19DIM/930/R). VERIFY LAMP BASE AND STYLE WITH EXISTING CONDITIONS.
4. REINSTALL EXISTING EXIT SIGN IN EXISTING CEILING AFTER PAINTING.



1 FIRST FLOOR RCP - LIGHTING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP25.rvt
9/30/2026 2:04:08 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

FIRST FLOOR RCP - LIGHTING
E121

GENERAL NOTES:

A. NOT USED.
B. EGRESS LIGHTING SHALL BE PER CODE MINIMUM IN ALL SPACES WHERE EMERGENCY EGRESS LIGHTING IS REQUIRED INCLUDING ALL EXTERIOR SPACES. LUMINAIRES USED FOR EGRESS ILLUMINATION WILL BE DESIGNATED IN THE CONSTRUCTION DOCUMENT AND PERMIT PROCESS. IN STAIRS, ELECTRICAL ROOMS, IDF/MDF ROOMS, MECHANICAL ROOMS AND ELEVATOR MACHINE ROOMS 50% LIGHTING TO BE ON EMERGENCY POWER. IN STAIRS, CORRIDORS, AND OTHER AREAS REQUIRING PARTIAL-OFF LIGHT REDUCTION, EMERGENCY LIGHTING IS TO BE CONTROLLED WITH OCCUPANCY SENSORS TO ALLOW 50% DIMMING WHEN THE SPACE IS UNOCCUPIED.
C. PROVIDE UL924 DEVICES IN APPLICABLE AREAS FOR EGRESS LIGHTS TO OPERATE WITH NORMAL POWERED LIGHTS DURING NORMAL POWER CONDITIONS, AND OVERRIDE TO FULL OUTPUT ON DURING EMERGENCY POWER CONDITIONS.
D. EXIT SIGNS ARE TO BE PROVIDED TO MEET CODE REQUIREMENTS AND TO BE LOCATED PER THE LIFE SAFETY DIAGRAM PROVIDED BY THE ARCHITECT IN QUANTITY TO NOT EXCEED CODE MAXIMUM DISTANCES BETWEEN SIGNS. ALL EXIT SIGNS ARE TO BE ON EMERGENCY POWER.
E. CIRCUIT ALL EXIT SIGNS TO PANEL X UNLESS OTHERWISE NOTED.

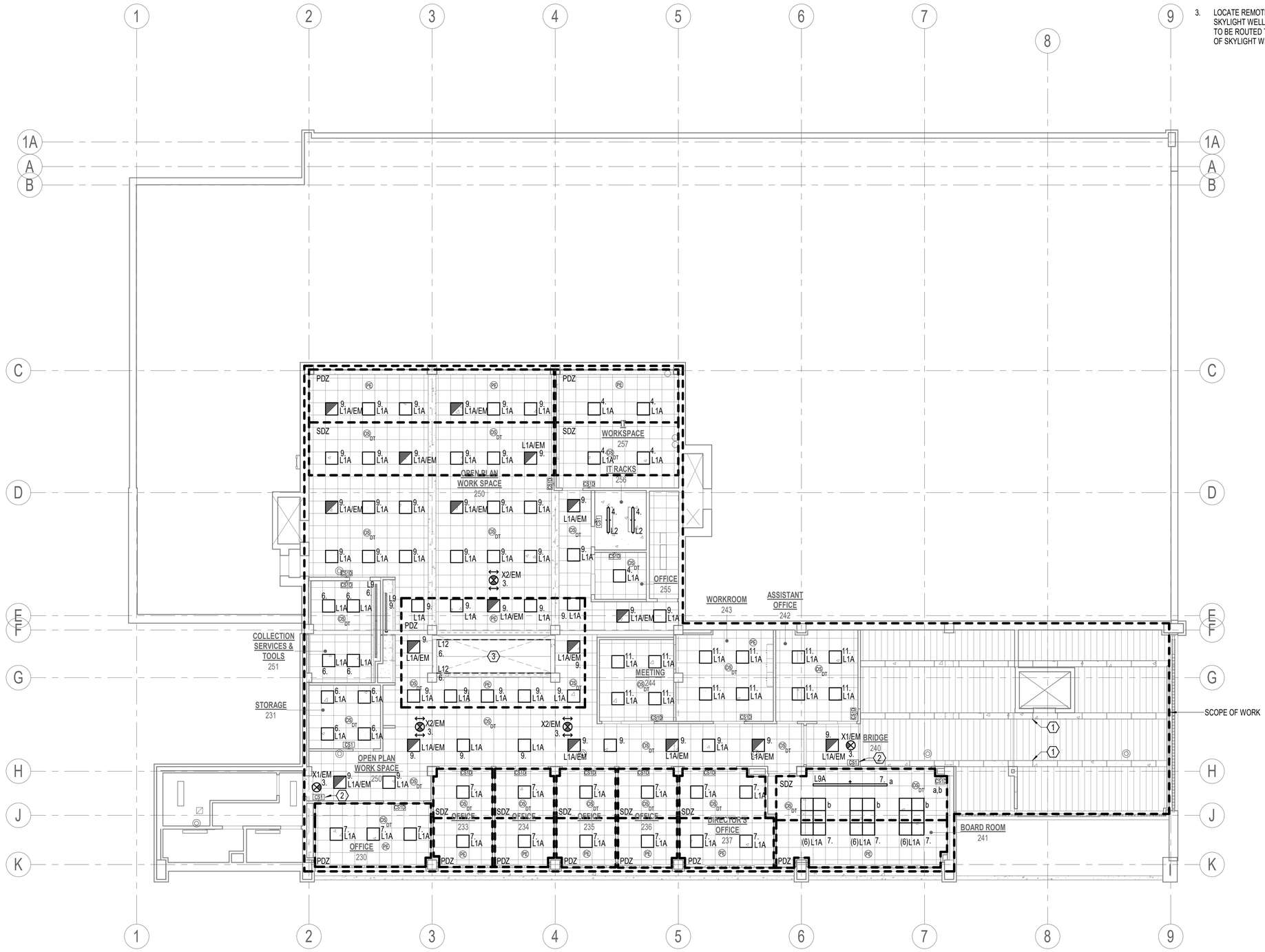
F. CIRCUIT ALL SECOND FLOOR NORMAL LIGHTING TO PANEL F (SECT. 1) UNLESS OTHERWISE NOTED.

NOTES:

1. CONTRACTOR TO REPAIR AND RETROFIT EXISTING 1X4 FLUORESCENT TROFFERS WITH NEW BYPASS-STYLED LED LAMPS:
   A. CONTRACTOR TO PROVIDE WITH (2) 4FT T8 LED LAMPS (GREEN CREATIVE 10T8/4F/835/UEB) CONFIRM LAMP BASE WITH EXISTING CONDITIONS.
   B. CONTRACTOR TO REPLACE EXISTING LENSES WITH NEW P95 ACRYLIC LENSES.

2. PROVIDE ON/OFF LIGHT SWITCH TO OVERRIDE OCCUPANCY SENSORS IN HALLWAY.

3. LOCATE REMOTE DRIVERS FOR TYPE L12 STRIPLIGHTS AT TOP OF SKYLIGHT WELL IN ADJACENT ACCESSIBLE CEILING. LOW VOLTAGE WIRE TO BE ROUTED THROUGH FALSE BEAM ENCLOSURE AND UP CORNERS OF SKYLIGHT WELL. CONCEAL WIRE BEHIND CORNER MOUNT WIREMOLD.



1 SECOND FLOOR RCP - LIGHTING
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/30/2026 2:27:08 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SECOND FLOOR RCP - LIGHTING
E131

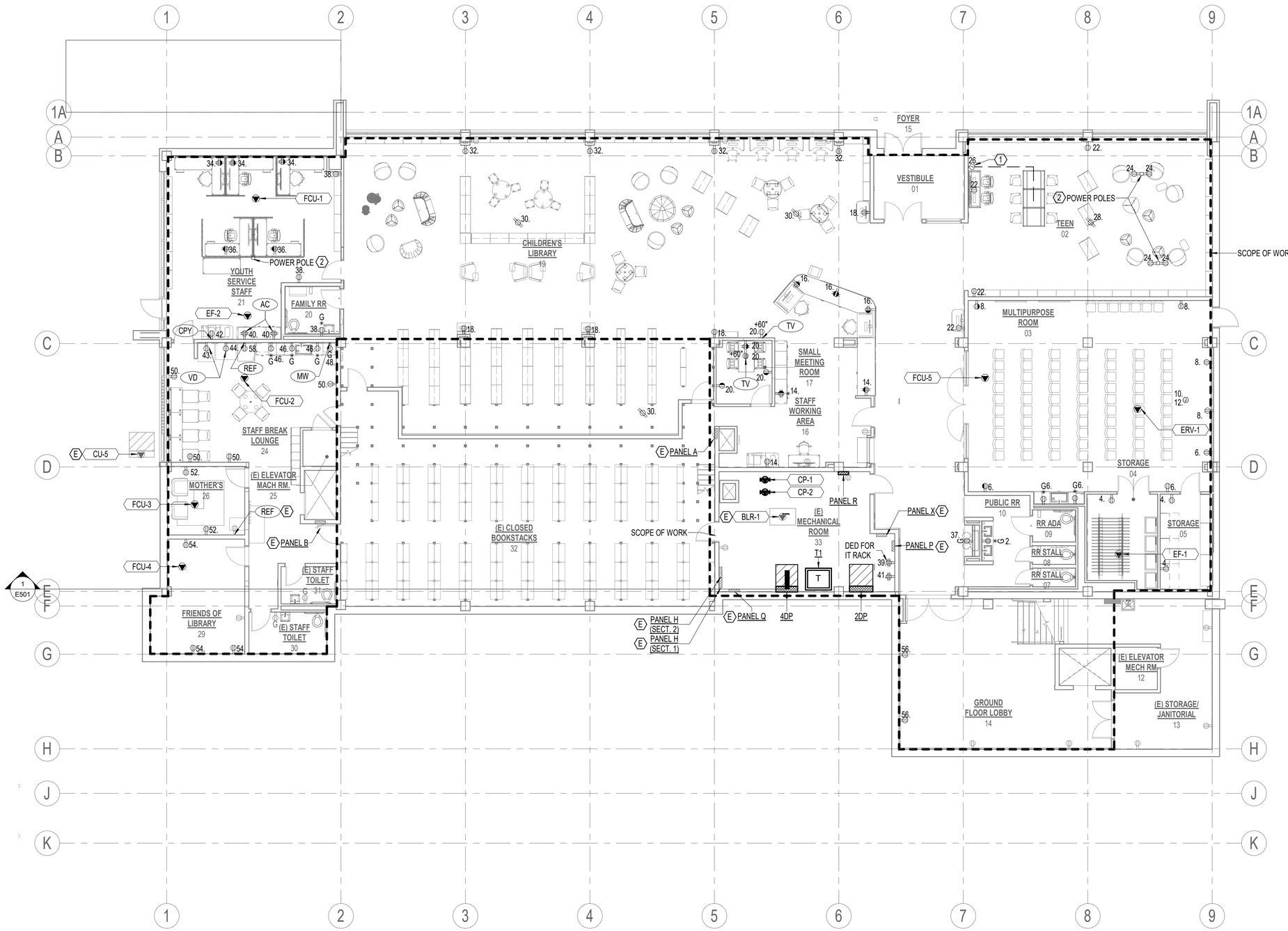
GENERAL NOTES:

A. CIRCUIT ALL NEW LOADS TO PANEL R UNLESS OTHERWISE NOTED.

NOTES:

1. PROVIDE J-BOX ON WALL WITH DEDICATED 20A, 120V CIRCUIT TO ACCOMMODATE POWER CONNECTION TO UNDERCARPET TRACK. COORDINATE EXACT LOCATION WITH ARCHITECT AND MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGH-IN.

2. PROVIDE STEEL TELE-POWER POLE WITH TWO COMPARTMENTS (ONE FOR POWER AND ONE FOR COMMUNICATIONS CONNECTIONS) EQUAL TO LEGRAND 30TP-4WH. FIELD VERIFY EXACT LENGTH.



1 GROUND FLOOR PLAN - POWER
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

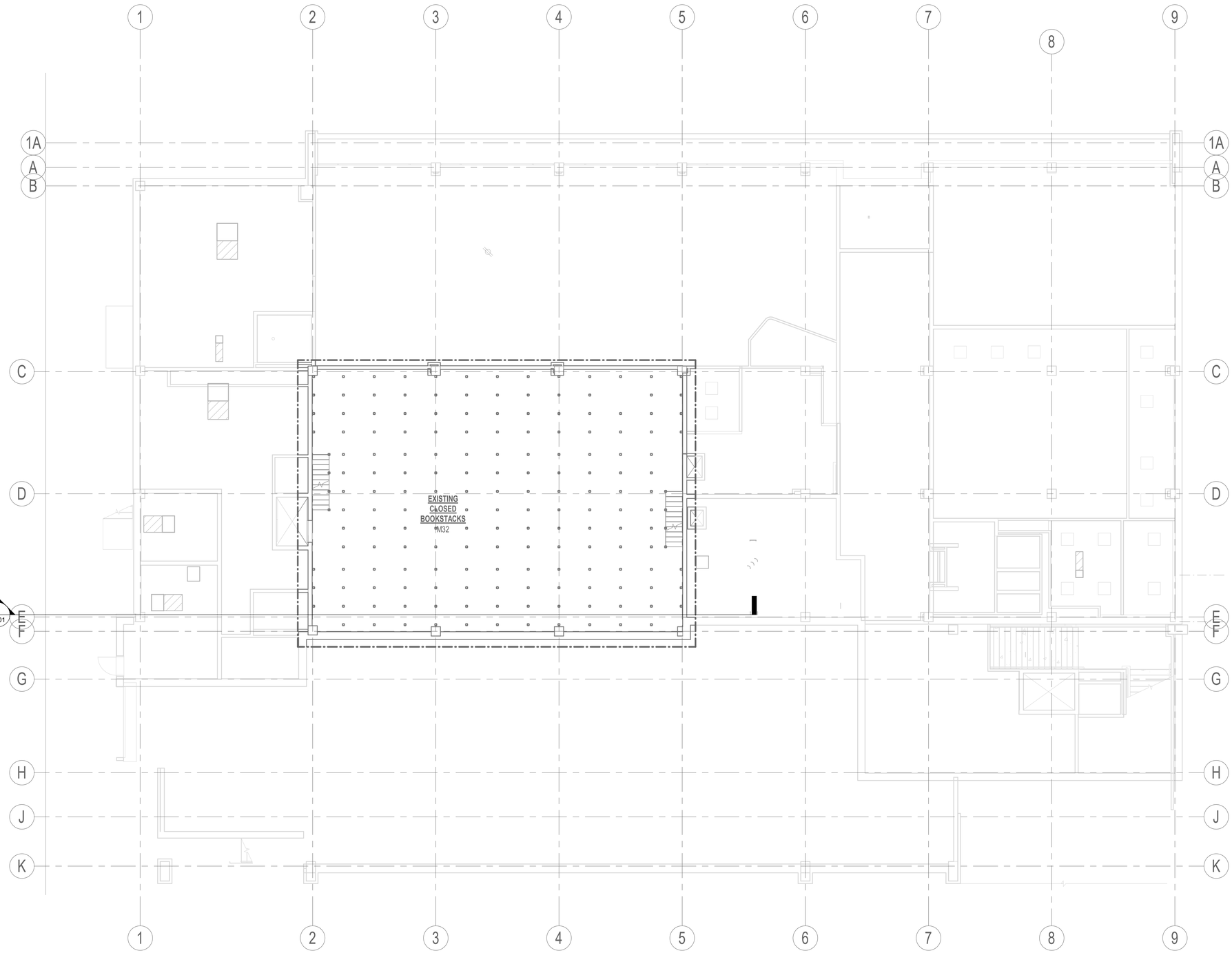
Issue Date: 09/16/26

SHEET

GROUND FLOOR PLAN - POWER

E201

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
8/28/2026 7:26:27 PM



1 GROUND FLOOR MEZZANINE PLAN - POWER
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

MEZZANINE PLAN - POWER

E211

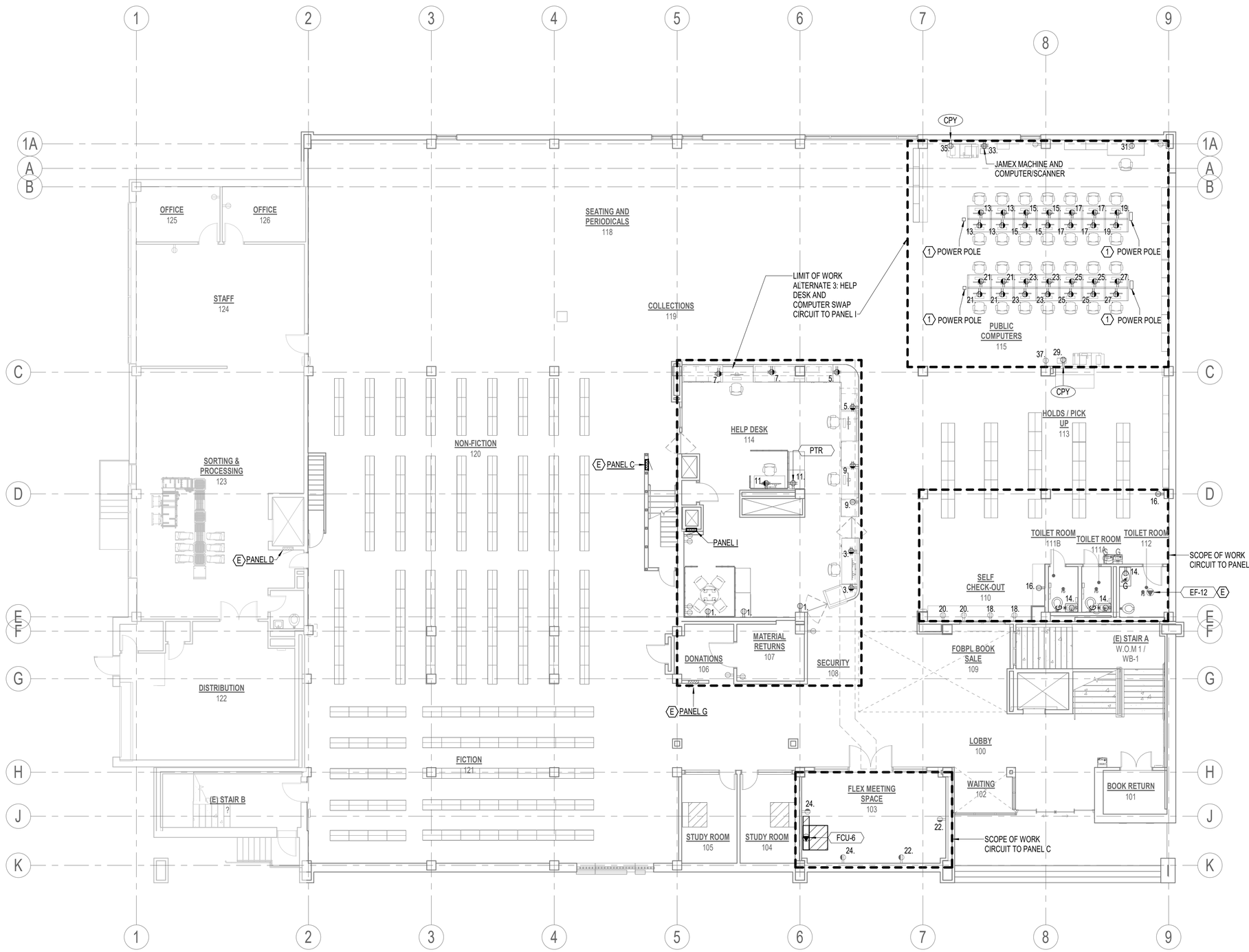
Autodesk Docs://23-1055 - City of Bellingham Cent Lib Renov/23-1055 - City of Bellingham Cent Lib Renov_MEPF25.rvt
9/26/2026 7:45:27 PM

GENERAL NOTES:

A. CIRCUIT ALL NEW LOADS TO PANEL I UNLESS OTHERWISE NOTED.

NOTES:

1. PROVIDE STEEL TELE-POWER POLE WITH TWO COMPARTMENTS (ONE FOR POWER AND ONE FOR COMMUNICATIONS CONNECTIONS) EQUAL TO LEGRAND 30TP-4WH. FIELD VERIFY EXACT LENGTH.



1 FIRST FLOOR PLAN - POWER
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP125.rvt
9/30/2026 2:07:20 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

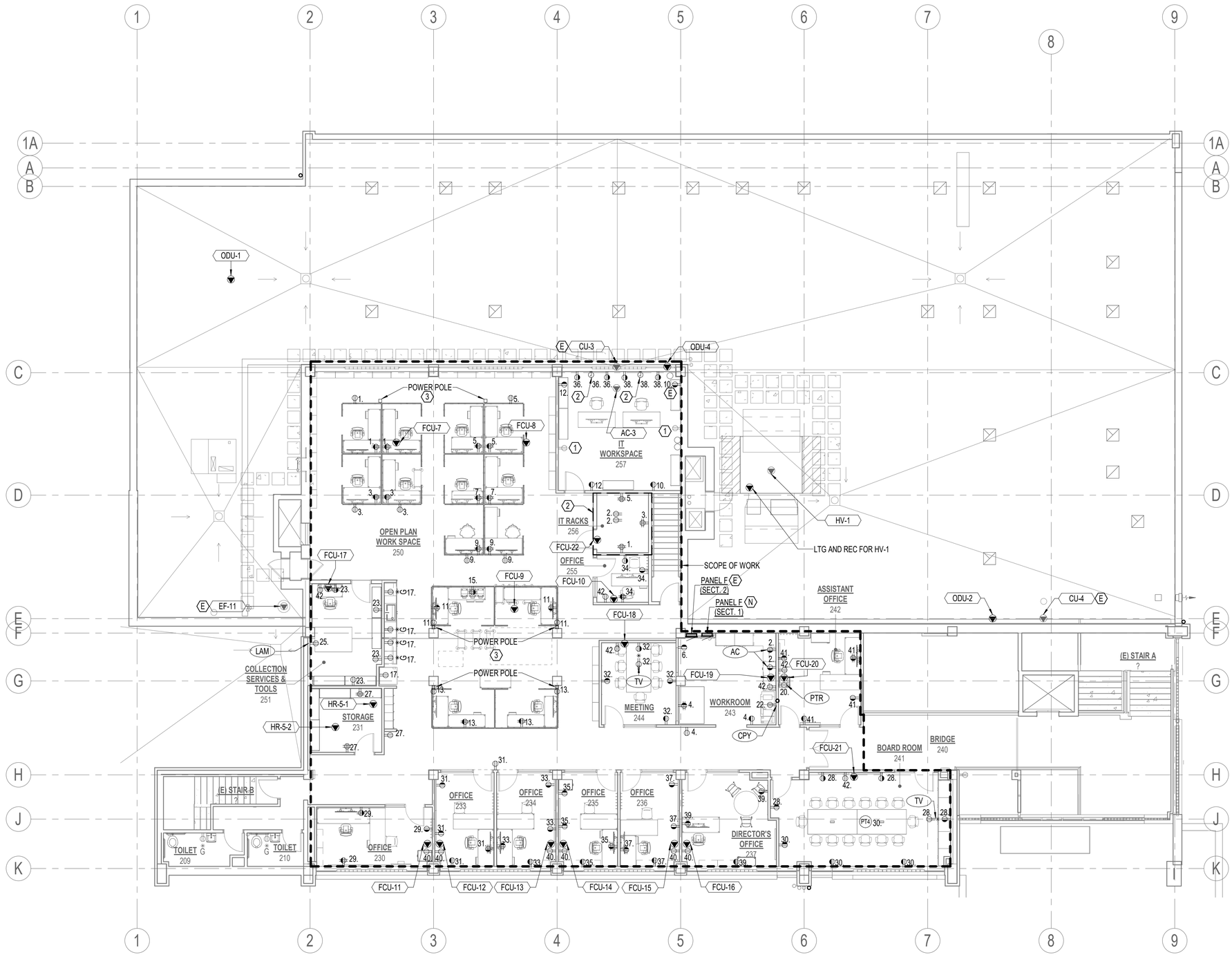
FIRST FLOOR PLAN - POWER
E221

GENERAL NOTES:

A. CIRCUIT ALL NEW LOADS TO PANEL F (SECT. 2) UNLESS OTHERWISE NOTED.

NOTES:

1. EXISTING RECEPTACLE TO BE REPLACED WITH CONTROLLED RECEPTACLE.
2. PROVIDE J-BOX ON WALL WITH 20A,120V CIRCUIT TO ACCOMMODATE POWER CONNECTION TO UNDER-CARPET TRACK . COORDINATE EXACT LOCATION WITH ARCHITECT AND MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGH-IN.
3. PROVIDE STEEL TELE-POWER POLE WITH TWO COMPARTMENTS (ONE FOR POWER AND ONE FOR COMMUNICATIONS CONNECTIONS) EQUAL TO LEGRAND 30TP-4WH. FIELD VERIFY EXACT LENGTH.



1 SECOND FLOO R PLAN - POWER
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/25-1065 - City of Bellingham Cent Lib Renv_MEPF25.rvt
8/20/2026 7:54:28 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

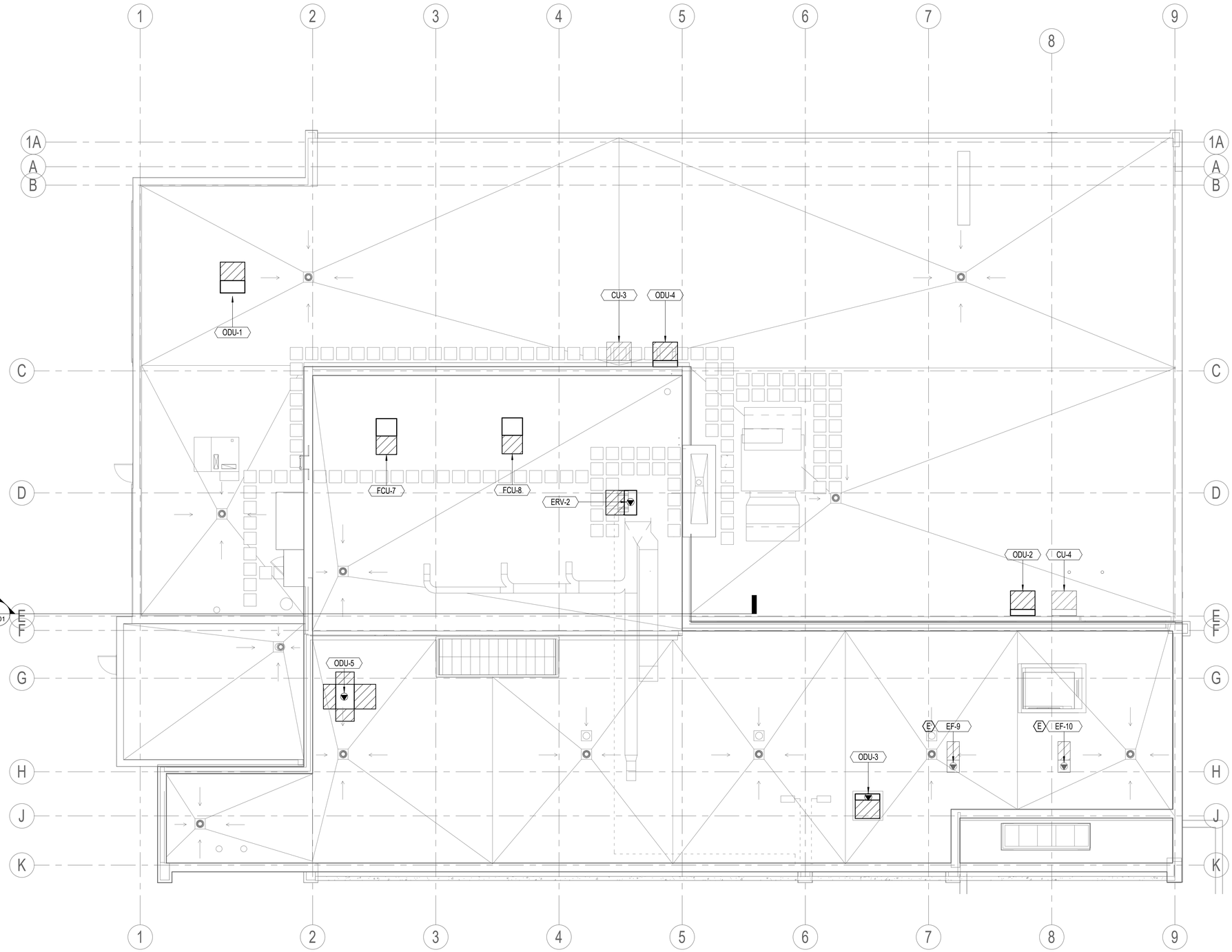
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

SECOND FLOOR PLAN - POWER

E231



1 ROOF PLAN - POWER
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

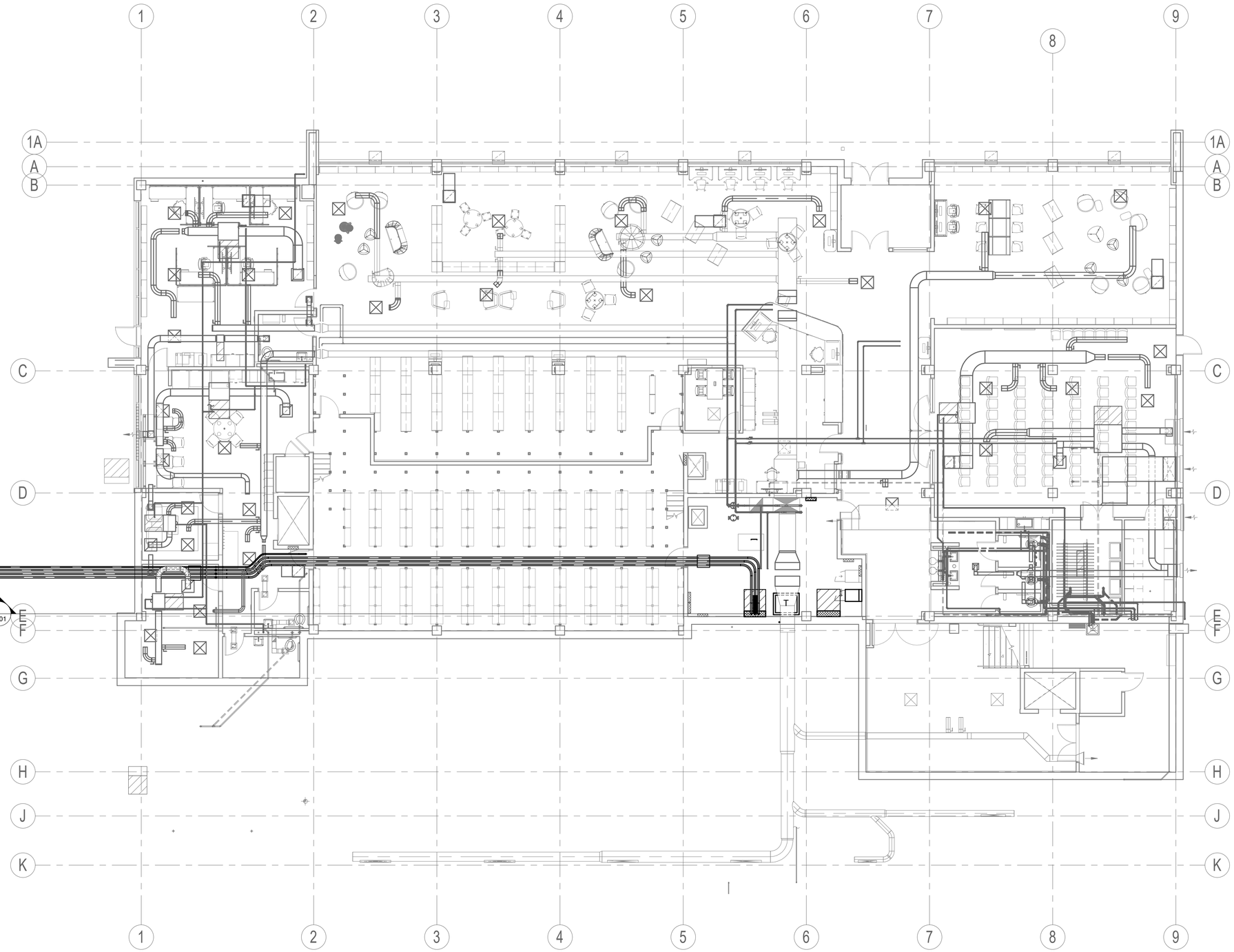
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

ROOF PLAN
E241

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renv/23-1065 - City of Bellingham Cent Lib Renv_MEP25.rvt
9/30/2026 2:20:05 PM



1 GROUND FLOOR PLAN - CONDUITS
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

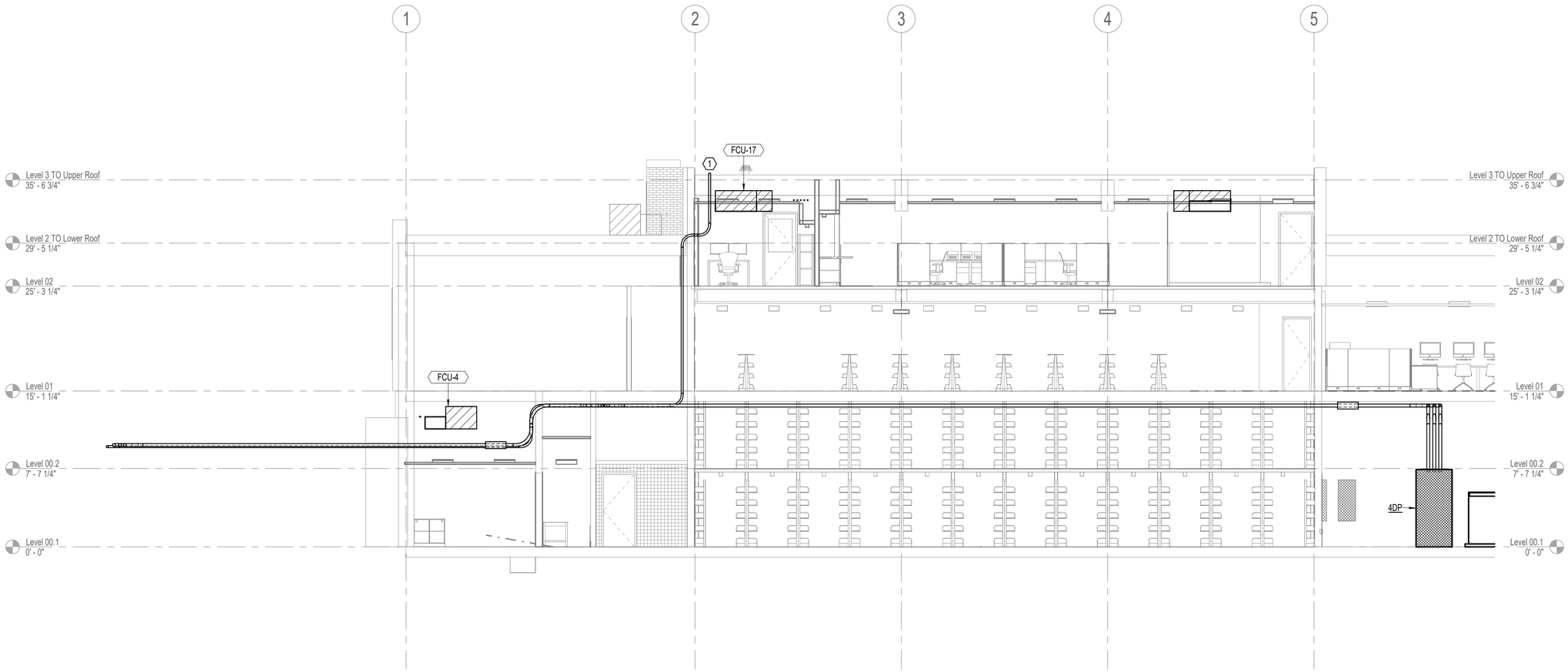
CONDUIT ROUTING - SERVICE ENTRANCE

E500

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
8/28/2026 2:53:59 PM

NOTES:

1. CAP CONDUIT WITH WATER TIGHT SEAL AND PROVIDE PULL STRING FOR FUTURE CONDUCTOR INSTALLATION.



1 SECTION - SERVICE ENTRANCE CONDUIT ROUTING
3/16" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

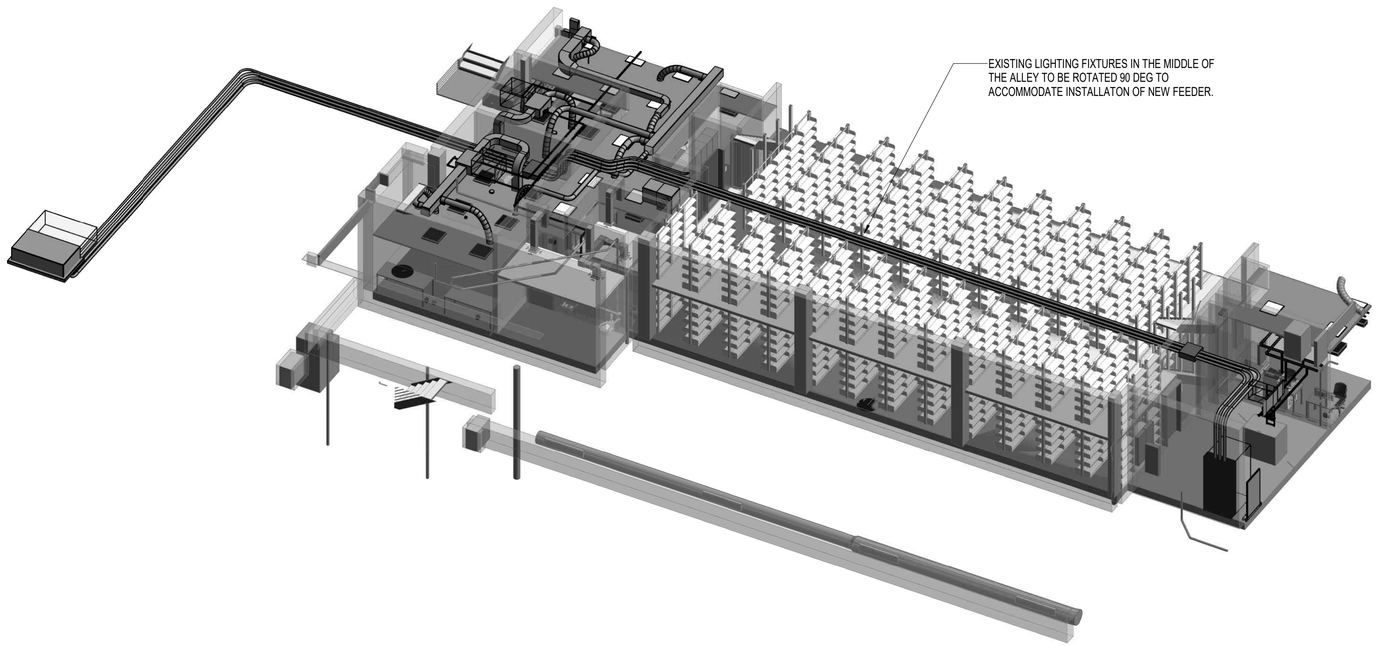
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CONDUIT ROUTING - SERVICE ENTRANCE

E501

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
9/29/2026 2:53:17 PM



1 3D - CONDUIT ROUTING - SERVICE ENTRANCE

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPF25.rvt
9/26/2026 2:53:47 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

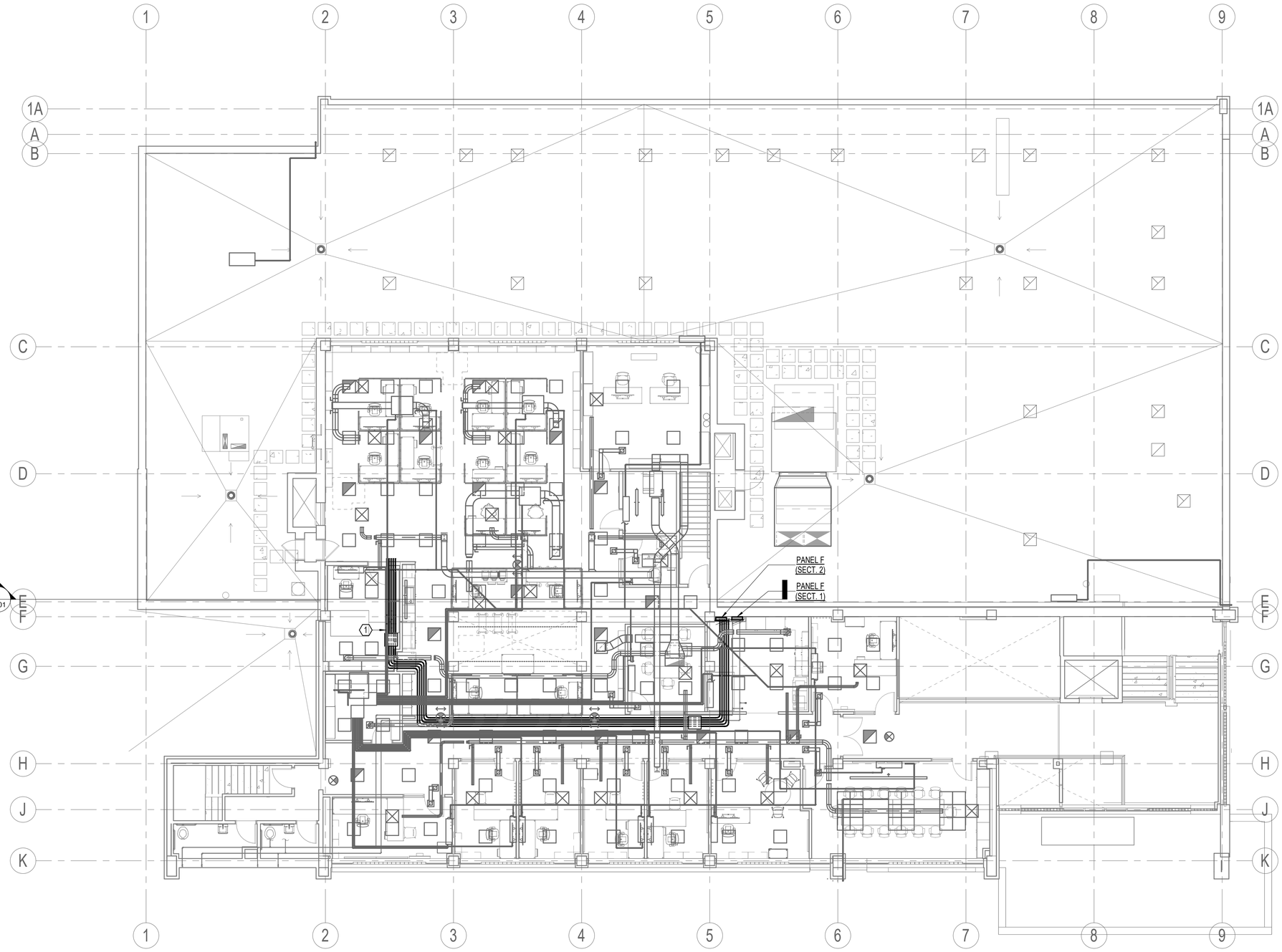
SHEET

CONDUIT ROUTING - SERVICE ENTRANCE

E502

NOTES:

1. PROVIDE CONDUIT SEISMIC JOINT. COORDINATE EXACT LOCATION WITH ARCHITECTURAL AND STRUCTURAL.



1 SECOND FLOOR PLAN - POWER
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Reno_MEPTR.rvt
9/16/2026 2:24:29 PM

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

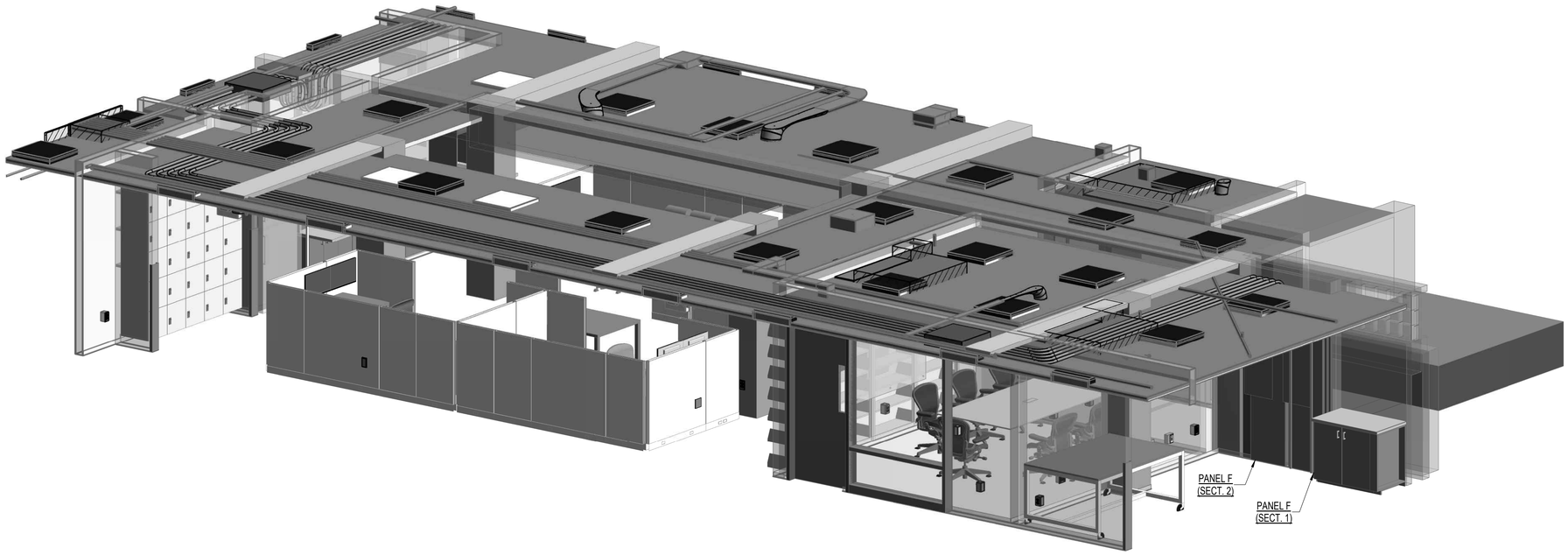
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CONDUIT ROUTING - SECOND FLOOR

E503



1 3D - CONDUIT ROUTING - SECOND FLOOR

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

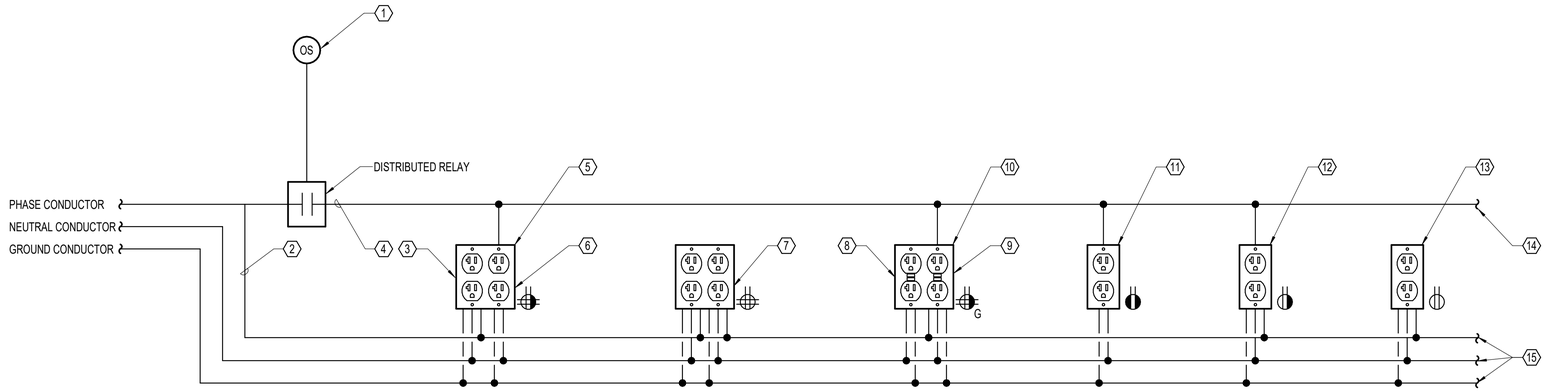
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CONDUIT ROUTING - SECOND FLOOR

E504

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/30/2025 2:54:49 PM



1 CONTROLLED RECEPTACLE WIRING DETAIL
NONE

GENERAL NOTES:

A. CONTROLLED RECEPTACLE SHALL HAVE PERMANENT IDENTIFICATION IN COMPLIANCE WITH ASHRAE 90.1 REQUIREMENTS.

B. WHERE AN ENTIRE DUPLEX RECEPTACLE IS UNSWITCHED, LOCATE A SWITCHED OR HALF SWITCHED DUPLEX RECEPTACLE CONTROLLED BY SENSOR NO FURTHER THAN SIX FEET AWAY.

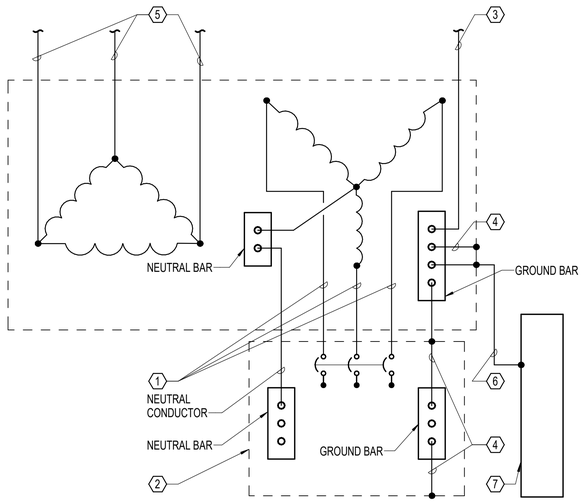
C. FOR EACH ROOM, PROVIDE QUANTITIES OF RELAY MODULES AND WIRING TO SUPPORT SWITCHED POWER OUTLETS ON POWER DRAWINGS, AND PROVIDE FUNCTIONALITY DESCRIBED IN SPECIFICATIONS AND/OR LIGHTING CONTROL MATRIX.

D. CONTROLLERS, RELAY MODULES AND DEVICES LOCATED IN PLENUM SPACES MUST BE UL 2043 LISTED; USE PLENUM RATED WIRING WHERE ROUTING IS EXPOSED IN PLENUM SPACES.

E. PROVIDE AT LEAST 50 PERCENT (AS SHOWN ON PLANS) OF ALL 125V RECEPTACLES INSTALLED IN PRIVATE OFFICES, OPEN OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING FUNCTIONS, BREAK ROOMS, INDIVIDUAL WORKSTATIONS AND CLASSROOMS, SHALL BE CONTROLLED AS REQUIRED.

NOTES:

1. LOCAL LIGHTING CONTROL OCCUPANCY SENSOR WITHIN ROOM.
2. CONTROLLED PHASE CONDUCTOR.
3. UNCONTROLLED PHASE CONDUCTOR.
4. UNCONTROLLED SIDE OF QUAD RECEPTACLE.
5. CONTROLLED PHASE CONDUCTOR.
6. HALF-CONTROLLED QUAD RECEPTACLE.
7. UNCONTROLLED QUAD RECEPTACLE.
8. UNCONTROLLED SIDE OF GFCI RECEPTACLE.
9. CONTROLLED SIDE OF GFCI RECEPTACLE.
10. HALF-CONTROLLED GFCI RECEPTACLE.
11. CONTROLLED DUPLEX RECEPTACLE.
12. HALF-CONTROLLED DUPLEX RECEPTACLE.
13. UNCONTROLLED DUPLEX RECEPTACLE.
14. TO ADDITIONAL CONTROLLED DEVICES.
15. TO ADDITIONAL DEVICES.



2 TRANSFORMER DETAIL
NONE

NOTES:

1. TRANSFORMER PRIMARY PHASE CONDUCTORS. REFER TO ONE LINE DIAGRAM FOR SIZING.
2. SWITCHBOARD OR PANELBOARD.
3. EQUIPMENT GROUNDING CONDUCTOR. REFER TO ONE-LINE DIAGRAM FOR SIZING.
4. SUPPLY-SIDE BONDING JUMPERS.
5. SECONDARY PHASE CONDUCTORS.
6. GROUNDING ELECTRODE CONDUCTOR.
7. NEAREST GROUNDING ELECTRODE.

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/16/2026 2:54:37 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

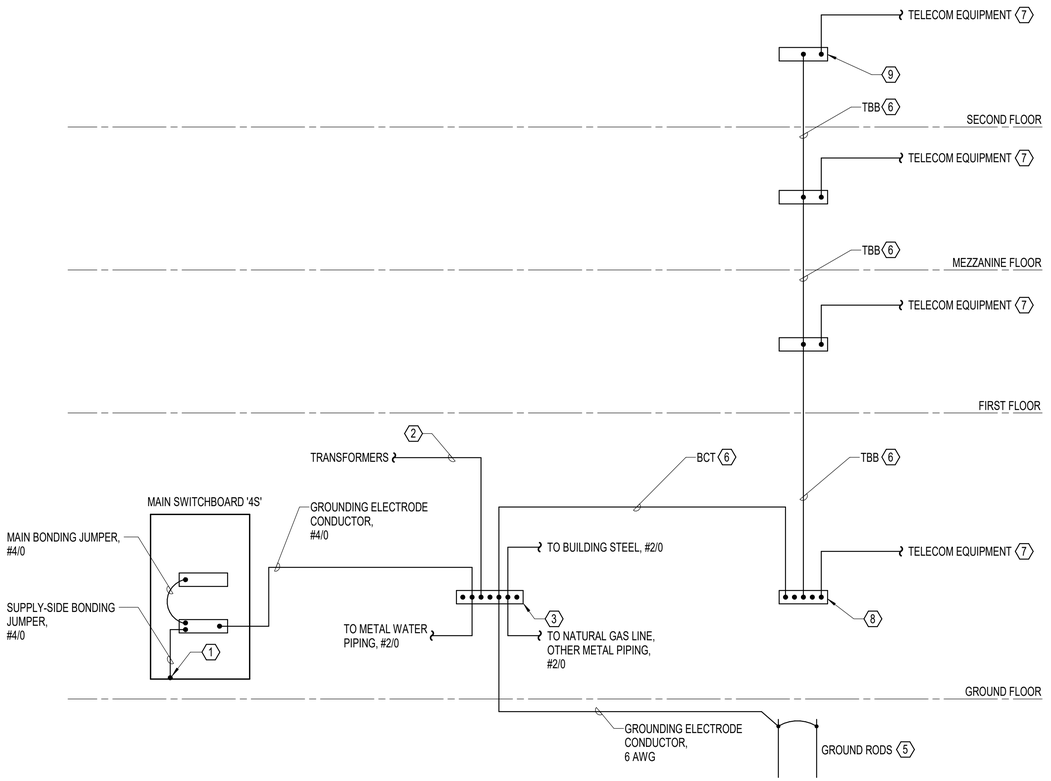
REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

DETAILS - ELECTRICAL
E601



1 GROUNDING RISER
NONE

GENERAL NOTES:

A. ALL GROUNDING CONDUCTORS SHALL BE BARE COPPER CONDUCTORS. PROVIDE PVC RACEWAY AS NEEDED FOR PROTECTION.

NOTES:

1. MAIN SWITCHBOARD FRAME CONNECTION.
2. SIZE THE TRANSFORMER GROUNDING ELECTRODE CONDUCTOR PER TABLE 1 OF TYPICAL DISTRIBUTION TRANSFORMER GROUNDING DETAIL.
3. GROUND BAR IN MAIN ELECTRIC ROOM.
4. GROUND BAR IN ELECTRIC ROOM.
5. PROVIDE TWO 5/8" GROUND RODS, 10' APART.
6. BY DIVISION 26. REFER TO TELECOMMUNICATIONS DRAWINGS FOR SIZING OF BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) AND TELECOMMUNICATIONS BONDING BACKBONE (TBB).
7. BY DIVISION 27. GROUND BOND CONNECTIONS TO TELECOM EQUIPMENT SUCH AS CABLE TRAY, EQUIPMENT RACKS, SIGNAL AND MISC EQUIPMENT.
8. TELECOM PRIMARY GROUND BAR IN MECHANICAL/ ELECTRICAL ROOM 33.
9. TELECOM SECONDARY GROUND BAR IN IT RACK ROOM 256.

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

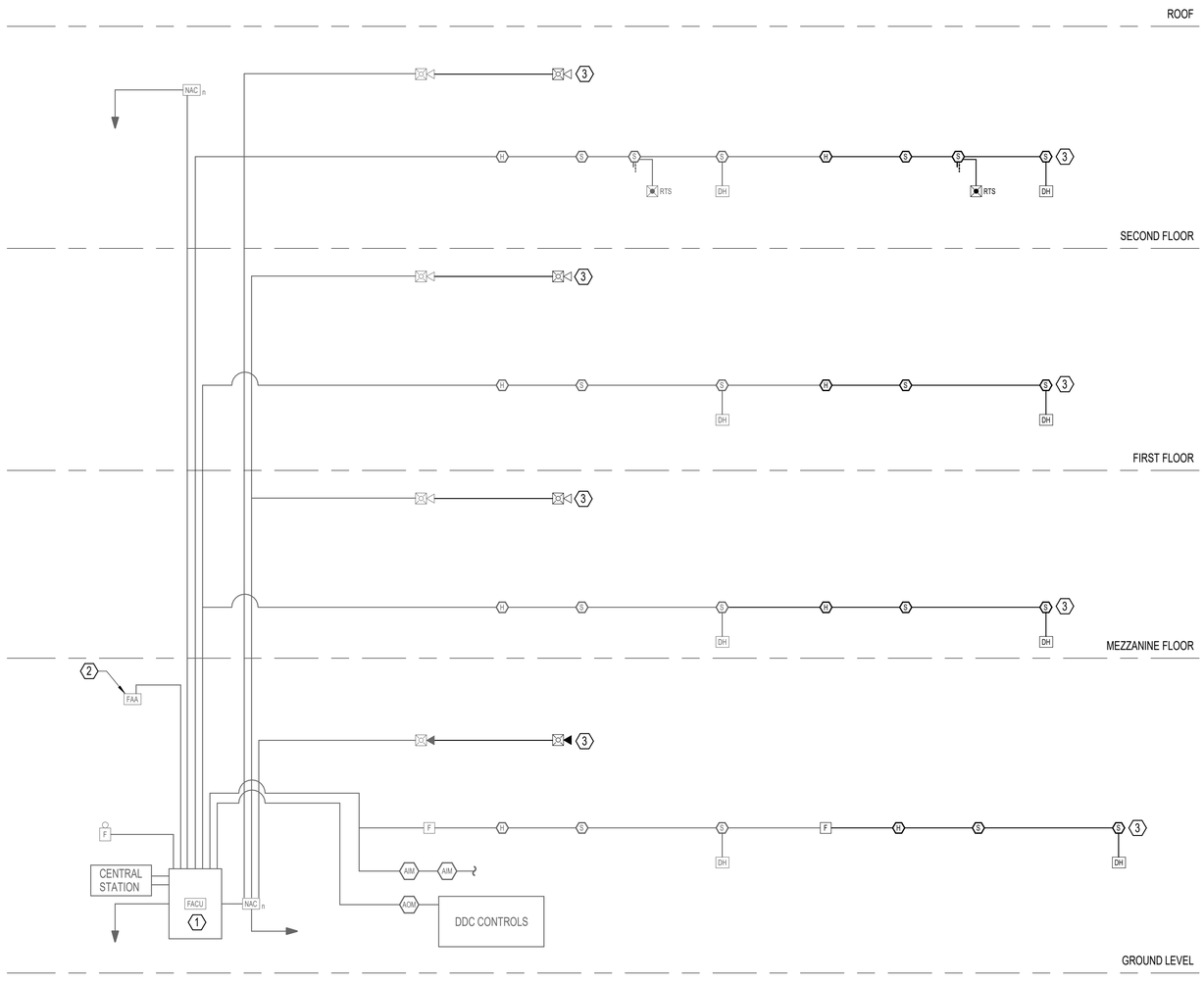
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

DETAILS - ELECTRICAL

E602

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPF25.rvt
9/26/2026 2:54:31 PM



GENERAL NOTES:

A. FIRE ALARM FOR THIS BUILDING SHALL BE VENDOR-DESIGNED AS DESCRIBED IN SPECIFICATION SECTION 28 46 00. VENDOR SHALL BE RESPONSIBLE FOR COMPLETE SYSTEM DESIGN, PREPARATION OF SHOP DRAWINGS, AND OBTAINING APPROVAL FROM AHJ. EXISTING FIRE ALARM CONTROL PANEL TO BE RE-USED. EXISTING SYSTEM MANUFACTURER IS HONEYWELL SECURITY & FIRE SOLUTIONS / SILENT KNIGHT.

B. NOT ALL FIRE ALARM DEVICES ARE SHOWN. PROVIDE A COMPLETE, CODE-COMPLIANT SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, AHJ REQUIREMENTS, AND PROJECT SPECIFICATIONS. REFER TO FIRE ALARM SPECIFICATIONS FOR ADDITIONAL SYSTEM REQUIREMENTS.

⬡ NOTES:

1. EXISTING FIRE ALARM CONTROL UNIT.
2. EXISTING REMOTE ANNUNCIATOR PANEL.
3. PROVIDE NEW FIRE ALARM DEVICES PER VENDOR-DESIGNED DOCUMENTS.

1 FIRE ALARM RISER
NONE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

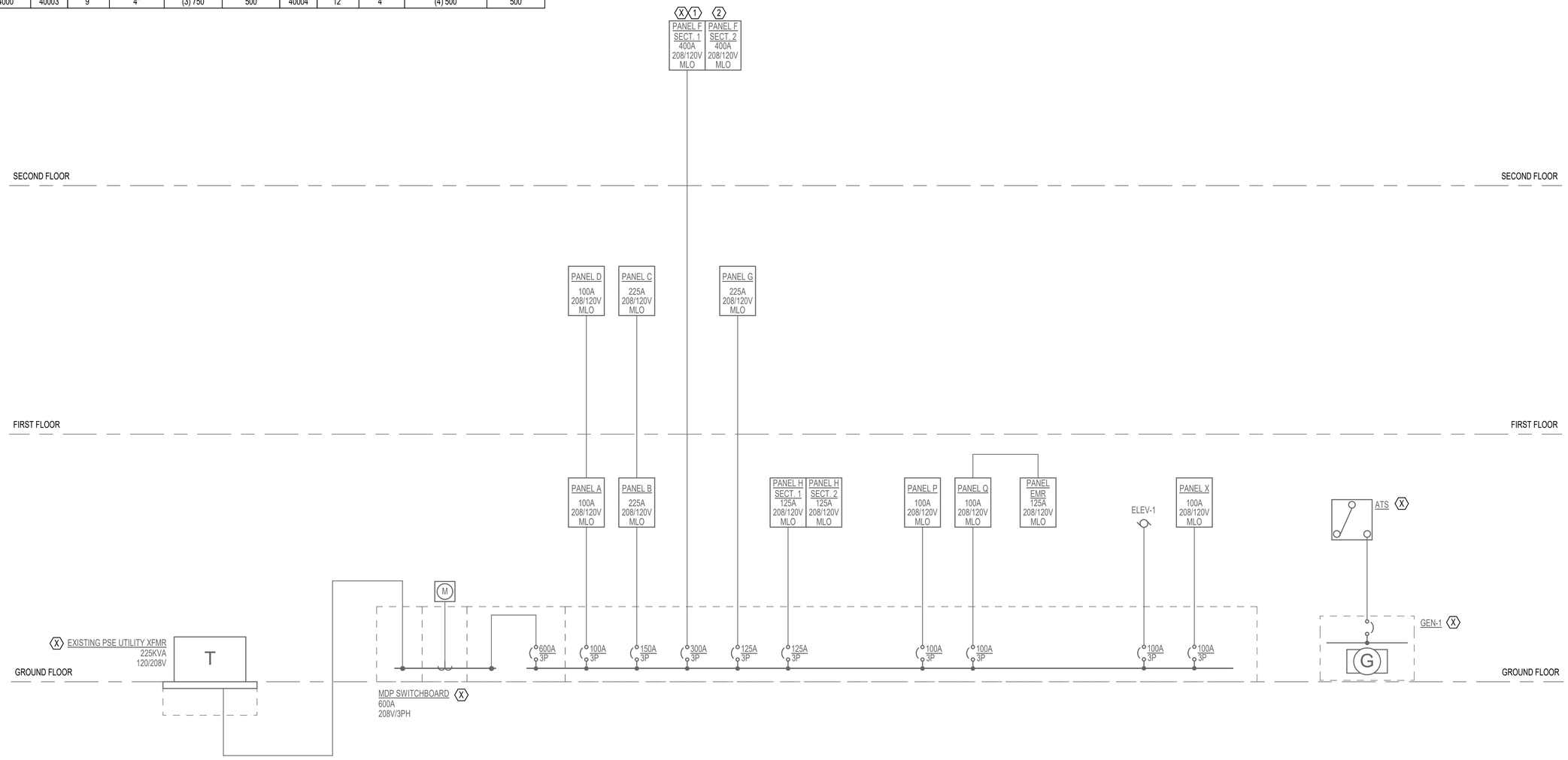
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

DETAILS - ELECTRICAL
E603

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/30/2026 2:54:34 PM

	FEEDER SCHEDULE COPPER: 3 PHASE, 3 WIRE + GROUND					FEEDER SCHEDULE COPPER: 3 PHASE, 4 WIRE + GROUND				
NOMINAL AMPACITY	TAG	NUMBER OF SETS	CONDUIT SIZE (MIN)	PHASE CONDUCTORS (AWG or kcmil)	GROUND CONDUCTOR (AWG or kcmil)	TAG	NUMBER OF SETS	CONDUIT SIZE (MIN)	PHASE & NEUTRAL CONDUCTORS (AWG or kcmil)	GROUND CONDUCTOR (AWG or kcmil)
20	203	1	1/2"	(3) 12	12	204	1	1/2"	(4) 12	12
30	303	1	1/2"	(3) 10	10	304	1	3/4"	(4) 10	10
40	403	1	3/4"	(3) 8	10	404	1	3/4"	(4) 8	10
50	503	1	3/4"	(3) 6	10	504	1	1"	(4) 6	10
60	603	1	3/4"	(3) 6	10	604	1	1"	(4) 6	10
70	703	1	1"	(3) 4	8	704	1	1 1/4"	(4) 4	8
80	803	1	1 1/4"	(3) 3	8	804	1	1 1/4"	(4) 3	8
90	903	1	1 1/4"	(3) 3	8	904	1	1 1/4"	(4) 3	8
100	1003	1	1 1/4"	(3) 2	8	1004	1	1 1/4"	(4) 2	8
110	1103	1	1 1/2"	(3) 1	6	1104	1	1 1/2"	(4) 1	6
125	1253	1	1 1/2"	(3) 1	6	1254	1	1 1/2"	(4) 1	6
150	1503	1	1 1/2"	(3) 1/0	6	1504	1	2"	(4) 1/0	6
175	1753	1	2"	(3) 2/0	6	1754	1	2"	(4) 2/0	6
200	2003	1	2"	(3) 3/0	6	2004	1	2"	(4) 3/0	6
225	2253	1	2"	(3) 4/0	4	2254	1	2 1/2"	(4) 4/0	4
250	2503	1	2"	(3) 4/0	4	2504	1	2 1/2"	(4) 250	3
300	3003	1	2 1/2"	(3) 250	4	3004	1	3"	(4) 350	2
350	3503	1	2 1/2"	(3) 350	3	3504	1	3 1/2"	(4) 500	1
400	4003	2	2"	(3) 3/0	3	4004	2	2"	(4) 3/0	3
450	4503	2	2"	(3) 4/0	2	4504	2	2 1/2"	(4) 4/0	2
500	5003	2	2"	(3) 4/0	2	5004	2	3"	(4) 250	1
600	6003	2	2 1/2"	(3) 250	1	6004	2	3"	(4) 350	2/0
800	8003	2	3"	(3) 500	1/0	8004	3	3"	(4) 350	2/0
1000	10003	3	3"	(3) 500	2/0	10004	3	4"	(4) 500	2/0
1200	12003	4	3"	(3) 350	3/0	12004	4	4"	(4) 500	250
1600	16003	4	4"	(3) 750	4/0	16004	5	4"	(4) 500	4/0
2000	20003	5	4"	(3) 750	250	20004	6	4"	(4) 500	250
2500	25003	6	4"	(3) 750	350	25004	8	4"	(4) 500	350
3000	30003	7	4"	(3) 750	500	30004	9	4"	(4) 500	500
4000	40003	9	4"	(3) 750	500	40004	12	4"	(4) 500	500



1 DEMO POWER ONE-LINE DIAGRAM - ELECTRICAL
NONE

NOTES:

1. REPLACE EXISTING PANEL WITH NEW RECESSED PANEL TO ACCOMMODATE ADDITIONAL CIRCUIT BREAKERS. SEE NEW ONE-LINE DIAGRAM ON SHEET E701 FOR DETAILS.
2. REPLACE EXISTING DOOR WITH NEW DOOR-IN-DOOR TO ACCOMMODATE RECESSED INSTALLATION OF EXISTING PANEL IN NEW WALL ADDITION.

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

DEMO POWER ONE-LINE DIAGRAM - ELECTRICAL

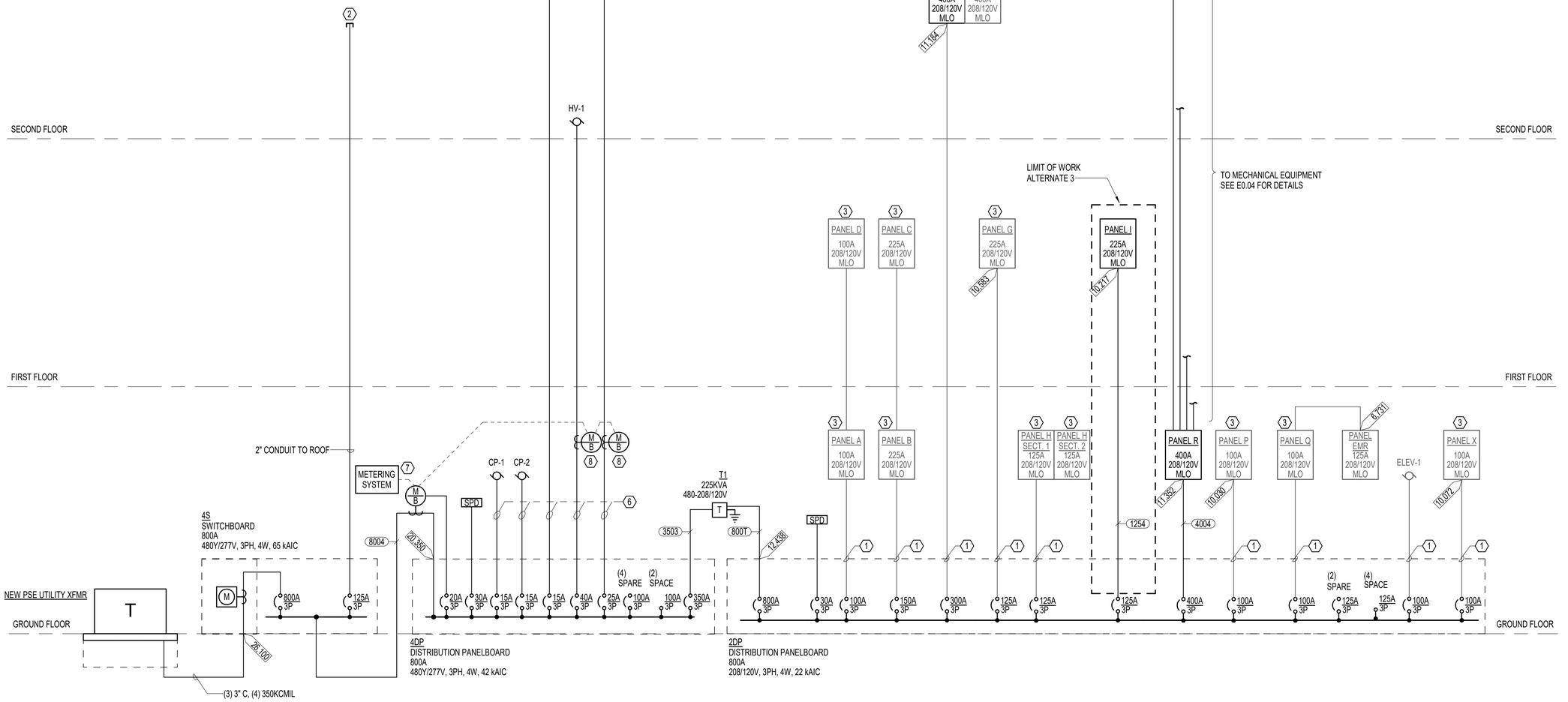
ED701

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
9/29/2025 2:54:42 PM

	FEEDER SCHEDULE COPPER: 3 PHASE, 3 WIRE + GROUND					FEEDER SCHEDULE COPPER: 3 PHASE, 4 WIRE + GROUND				
NOMINAL AMPACITY	TAG	NUMBER OF SETS	CONDUIT SIZE (MIN)	PHASE CONDUCTORS (AWG or kcmil)	GROUND CONDUCTOR (AWG or kcmil)	TAG	NUMBER OF SETS	CONDUIT SIZE (MIN)	PHASE & NEUTRAL CONDUCTORS (AWG or kcmil)	GROUND CONDUCTOR (AWG or kcmil)
20	203	1	1/2"	(3) 12	12	204	1	1/2"	(4) 12	12
30	303	1	1/2"	(3) 10	10	304	1	3/4"	(4) 10	10
40	403	1	3/4"	(3) 8	10	404	1	3/4"	(4) 8	10
50	503	1	3/4"	(3) 6	10	504	1	1"	(4) 6	10
60	603	1	3/4"	(3) 6	10	604	1	1"	(4) 6	10
70	703	1	1"	(3) 4	8	704	1	1 1/4"	(4) 4	8
80	803	1	1 1/4"	(3) 3	8	804	1	1 1/4"	(4) 3	8
90	903	1	1 1/4"	(3) 3	8	904	1	1 1/4"	(4) 3	8
100	1003	1	1 1/4"	(3) 2	8	1004	1	1 1/4"	(4) 2	8
110	1103	1	1 1/2"	(3) 1	6	1104	1	1 1/2"	(4) 1	6
125	1253	1	1 1/2"	(3) 1	6	1254	1	1 1/2"	(4) 1	6
150	1503	1	1 1/2"	(3) 1/0	6	1504	1	2"	(4) 1/0	6
175	1753	1	2"	(3) 2/0	6	1754	1	2"	(4) 2/0	6
200	2003	1	2"	(3) 3/0	6	2004	1	2"	(4) 3/0	6
225	2253	1	2"	(3) 4/0	4	2254	1	2 1/2"	(4) 4/0	4
250	2503	1	2"	(3) 4/0	4	2504	1	2 1/2"	(4) 250	3
300	3003	1	2 1/2"	(3) 250	4	3004	1	3"	(4) 350	2
350	3503	1	2 1/2"	(3) 350	3	3504	1	3 1/2"	(4) 500	1
400	4003	2	2"	(3) 3/0	3	4004	2	2"	(4) 3/0	3
450	4503	2	2"	(3) 4/0	2	4504	2	2 1/2"	(4) 4/0	2
500	5003	2	2"	(3) 4/0	2	5004	2	3"	(4) 250	1
600	6003	2	2 1/2"	(3) 250	1	6004	2	3"	(4) 350	2/0
800	8003	2	3"	(3) 500	1/0	8004	3	3"	(4) 350	2/0
1000	10003	3	3"	(3) 500	2/0	10004	3	4"	(4) 500	2/0
1200	12003	4	3"	(3) 350	3/0	12004	4	4"	(4) 500	250
1600	16003	4	4"	(3) 750	4/0	16004	5	4"	(4) 500	4/0
2000	20003	5	4"	(3) 750	250	20004	6	4"	(4) 500	250
2500	25003	6	4"	(3) 750	350	25004	8	4"	(4) 500	350
3000	30003	7	4"	(3) 750	500	30004	9	4"	(4) 500	500
4000	40003	9	4"	(3) 750	500	40004	12	4"	(4) 500	500

TABLE 1, DISTRIBUTION TRANSFORMER SECONDARY FEEDER SCHEDULE (COPPER CONDUCTORS)
PER NEC TABLES 250.102(C)(1) AND 250.66
SECONDARY VOLTAGE: 208Y/120V, 3 PHASE, 4 WIRE

ONE-LINE TAG	SECONDARY OCPD RATING	TRANSFORMER (KVA)	CONDUIT SIZE (MIN)	PHASE & NEUTRAL CONDUCTORS	SUPPLY-SIDE & SYSTEM BONDING JUMPER	GROUNDING ELECTRODE CONDUCTOR
20T	20A	3	1/2"	(4) #12 AWG	#8 AWG	#8 AWG
30T	30A	6	3/4"	(4) #10 AWG	#8 AWG	#8 AWG
40T	40A	9	3/4"	(4) #8 AWG	#8 AWG	#8 AWG
60T	60A	15	1"	(4) #6 AWG	#8 AWG	#8 AWG
100T	100A	30	1 1/4"	(4) #2 AWG	#8 AWG	#8 AWG
175T	175A	45	2"	(4) #2/0 AWG	#4 AWG	#4 AWG
225T	225A	75	2 1/2"	(4) #4/0 AWG	#2 AWG	#2 AWG
300T	300A	75	3"	(4) 350 KCMIL	#2 AWG	#2 AWG
400T	400A	112.5	(2) 2"	(8) #3/0 AWG	(2) #2 AWG	#2 AWG
600T	600A	150	(2) 3"	(8) 350 KCMIL	(2) #2 AWG	#2/0 AWG
800T	800A	225	(3) 3"	(12) 350 KCMIL	(3) #2 AWG	#2/0 AWG
1200T	1200A	300	(4) 4"	(16) 500 KCMIL	(4) #1/0 AWG	#3/0 AWG
1600T	1600A	500	(5) 4"	(20) 500 KCMIL	(5) #1/0 AWG	#3/0 AWG
2000T	2000A	750	(6) 4"	(24) 500 KCMIL	(6) #1/0 AWG	#3/0 AWG
2500T	2500A	750	(8) 4"	(32) 500 KCMIL	(8) #1/0 AWG	#3/0 AWG
3000T	3000A	1000	(9) 4"	(36) 500 KCMIL	(9) #1/0 AWG	#3/0 AWG



1 POWER ONE-LINE DIAGRAM - ELECTRICAL
NONE

GENERAL NOTES:

A. ALL EQUIPMENT SHOWN HALF TONE ON SINGLE-LINE DIAGRAM IS EXISTING TO REMAIN.

B. ALL EQUIPMENT SHOWN FULL TONE ON SINGLE LINE DIAGRAM TO BE PROVIDED AS PART OF THIS PROJECT.

(#) NOTES:

1. INTERCEPT EXISTING FEEDER AND RECONNECT TO NEW DISTRIBUTION PANEL.
2. CONDUIT PROVISIONS FOR PLANNED FUTURE 80KW PV SYSTEM ON ROOF.
3. PRIOR TO CONSTRUCTION CONTRACTOR TO CONFRIM IF SCCR RATING FOR EXISTING PANEL IS 22,000 AIC AS SHOWN IN AS-BUILTS. REPLACE PANEL WITH NEW IF AIC RATING IS FOUND TO BE LESS THAN 22,000 AIC.
4. PROVIDE NEW RECESSED PANELBOARD IN NEW WALL AND RECONNECT EXISTING BRANCH CIRCUITS. INTERCEPT EXISTING FEEDER AND RECONNECT TO NEW PANEL.
5. PROVIDE NEW DOOR TO ACCOMMODATE RECESSED INSTALLATION OF EXISTING PANEL IN NEW WALL ADDITION.
6. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E004 FOR FEEDERS SIZES.
7. PROVIDE METERING SYSTEM AND DATA CONNECTIONS TO POWER MANAGER SOFTWARE AND BMS SYSTEM.
8. PROVIDE ADVANCED ENERGY METERING FOR THIS LOAD TO COMPLY WITH EA CREDIT.

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET
POWER ONE-LINE DIAGRAM - ELECTRICAL
E701

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEP25.rvt
9/29/2025 2:54:40 PM

PANELBOARD: PANEL R (NEW)

LOCATION: (E) MECHANICAL ROOM 33
SUPPLY FROM: 2DP
MOUNTING: SURFACE
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 225 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A		B		C		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	ODU-1	PNON	35	2	3,598	180					1	20	PREC	REC - PUBLIC RR	2
3							3,598	540			1	20	PREC	REC - STORAGE	4
5	ODU-2	PNON	35	2					3,598	900	1	20	PREC	REC - MULTIPURPOSE ROOM	6
7					3,598	720					1	20	PREC	REC - MULTIPURPOSE ROOM	8
9	ODU-3	PNON	15	2			1,279	180			1	20	PNON	CEILING POWER - MULTIPURPOSE ROOM	10
11									1,279	180	1	20	PNON	CEILING POWER - MULTIPURPOSE ROOM	12
13	ODU-4	PNON	25	2	2,246	900					1	20	PREC	REC - STAFF WORKING AREA	14
15							2,246	1,080			1	20	PREC	REC - STAFF WORKING AREA	16
17	HR-5-1, HR-5-2	PNON	15	2					395	720	1	20	PREC	SELF CHECKOUT - CHILDRENS LIBRARY	18
19					395	1,120					1	20	PNON; PREC	REC,TV - SMALL MTG ROOM	20
21	FCU-1,-2,-3,-4,-5	PNON	15	2			770	720			1	20	PREC	REC, SELF CHECKOUT - TEEN	22
23									770	720	1	20	PREC	REC - TEEN	24
25	FCU-7,-8,-9,-10,-17,-18,-19,-20	PNON	15	2	520	1,500					1	20	PNON	REC - TEEN	26
27							520	180			1	20	PNON	REC, CEILING POWER - TEEN	28
29	FCU-11,-12,-13,-14,-15,-16,-21	PNON	15	2					218	540	1	20	PNON	CEILING POWER - CHILDRENS LIBRARY	30
31					218	720					1	20	PREC	REC - CHILDRENS LIBRARY	32
33	ERV-1	PNON	20	2			281	1,080			1	20	PREC	REC - YOUTH SERVICE STAFF	34
35									281	720	1	20	PREC	REC - YOUTH SERVICE STAFF	36
37	EWC-1	PREC	20	1	180	540					1	20	PREC	REC - FAMILY RR, YOUTH SERVICE STAFF	38
39	IT RACK - MECH ROOM	PREC	20	1			360	720			1	20	PNON	AC - YOUTH SERVE STAFF	40
41	IT RACK - MECH ROOM	PREC	20	1					360	1,200	1	20	PNON	COPIER	42
43	VD - STAFF BREAKER LOUNGE	PNON	20	1	1,440	1,440					1	20	PNON	VD - STAFF BREAKER LOUNGE	44
45	SPARE	--	20	1			0	540			1	20	PREC	REC - STAFF BREAK LOUNGE	46
47	SPARE	--	20	1					0	1,200	1	20	PNON	MW - STAFF BREAK LOUNGE	48
49	SPARE	--	20	1	0	720					1	20	PREC	REC - STAFF BREAK LOUNGE	50
51	SPARE	--	20	1			0	360			1	20	PREC	REC - MOTHERS ROOM	52
53	SPARE	--	20	1					0	540	1	20	PREC	REC - FRIEND OF LIBRARY	54
55	Space	--	--	1	--	360					1	20	PREC	REC - GROUND FLOOR LOBBY	56
57	Space	--	--	1			--	1,200			1	20	PNON	FRIDGE - STAFF BREAK LOUNGE	58
59	Space	--	--	1					--	--	1	--	--	Space	60
			TOTAL LOAD (VA):		20,397		15,654		13,622						
			TOTAL LOAD (A):		173		133		114						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
PNON	35,993 VA	100.00%	35,993 VA		
PREC	13,680 VA	86.55%	11,840 VA	CONNECTED:	49,673 VA
				CALCULATED DEMAND:	**47,833 VA**
				CONNECTED:	138 A
				CALCULATED DEMAND:	**133 A**

NOTES:

SWITCHBOARD: 4DP (NEW)

LOCATION: (E) MECHANICAL ROOM 33
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA-1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 42,000 A
BUS RATING: 800 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	TRIP RATING (A)	POLES	A (VA)	B (VA)	C (VA)	NOTES
1	HV-1	40	3	5,820	5,820	5,820	
2	ERV-2	15	3	1,081	1,081	1,081	
3	ODU-5	25	3	5,543	5,543	5,543	
4	CP-1	15	3	2,106	2,106	2,106	
5	CP-2	15	3	2,106	2,106	2,106	
6	2DP via T1	350	3	37,383	34,415	30,884	
7	SPD	30	3	0	0	0	
8	METER	20	3	0	0	0	
9	(4) SPARES	100	3	0	0	0	
10	(2) Spaces	--	1	--	--		
		TOTAL LOAD (VA):		54,038	51,071	47,540	
		TOTAL LOAD (A):		197	186	172	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED...	SWITCHBOARD TOTALS	
HVAC	17,922 VA	124.35%	22,287 VA		
LTG	8,066 VA	125.00%	10,083 VA	CONNECTED:	152,649 VA
Other	0 VA	0.00%	0 VA	**CALCULATED DEMAND:**	**140,450 VA**
PNON	79,500 VA	100.00%	79,500 VA	CONNECTED:	184 A
PREC	47,160 VA	60.60%	28,580 VA	**CALCULATED DEMAND:**	**169 A**

NOTES:
1. Total load for 4DP = 64 kVA x 1.25 + 127.63 kVA = 207.63 kVA, 250 A @ 480V, 3ph

DISTRIBUTION: 2DP (NEW)

LOCATION: (E) MECHANICAL ROOM 33
SUPPLY FROM: T1
MOUNTING: SURFACE
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000
BUS RATING: 800 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	TRIP RATING (A)	POLES	A (VA)	B (VA)	C (VA)	NOTES
1	PANEL X	100	3	0	0	0	
2	PANEL P	100	3	0	0	0	
3	PANEL Q	100	3	0	0	0	
4	PANEL H (SECT. 1 & 2)	125	3	604	1,146	0	
5	PANEL A	100	3	0	0	0	
6	PANEL B	150	3	1,317	1,480	1,202	
7	PANEL C	150	3	900	720	720	
8	PANEL D	100	3	0	0	0	
9	PANEL G	125	3	94	155	188	
10	PANEL F (SECT. 1 & 2)	300	3	10,651	10,999	9,733	
11	PANEL R	400	3	20,397	15,654	13,622	
12	PANEL I	125	3	3,420	4,260	5,420	
13	ELEVATOR	100	3	0	0	0	
14	SPD	30	3	0	0	0	
15	SPARE	20	3	0	0	0	
16	SPARE	125	3	0	0	0	
17	SPARE	125	3	0	0	0	
18	SPACE	--	3	--	--	--	
19	SPACE	--	3	--	--	--	
20	Space	--	1	--	--		
		TOTAL LOAD (VA):		37,383	34,415	30,884	
		TOTAL LOAD (A):		316	291	257	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED...	SWITCHBOARD TOTALS	
HVAC	463 VA	120.68%	559 VA		
LTG	8,066 VA	125.00%	10,083 VA	CONNECTED:	102,683 VA
Other	0 VA	0.00%	0 VA	**CALCULATED DEMAND:**	**86,215 VA**
PNON	46,993 VA	100.00%	46,993 VA	CONNECTED:	285 A
PREC	47,160 VA	60.60%	28,580 VA	**CALCULATED DEMAND:**	**239 A**

NOTES:
1. Maximum Metered Demand during 12 months is 64 kVA. Per NEC calculation, total load for 2DP = 64 kVA x 1.25 + 76.63 kVA = 156.63 kVA, 436 A @ 208V, 3ph

PANEL R	4DP
	2DP

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPTS.rvt
8/28/2026 2:54:49 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

PANEL SCHEDULES - ELECTRICAL

E801

PANELBOARD: PANEL I (NEW)

LOCATION:
SUPPLY FROM: 2DP
MOUNTING: FLUSH
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 225 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A		B		C		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	REC - HELP DESK SOUTH WALL	PREC	20	1	540	0					1	20	--	SPARE	2
3	REC - HELP DESK	PREC	20	1			720	0			1	20	--	SPARE	4
5	REC - HELP DESK	PREC	20	1					720	0	1	20	--	SPARE	6
7	REC - HELP DESK	PREC	20	1	720	0					1	20	--	SPARE	8
9	REC, PRINTER - HELP DESK	PNON; PREC	20	1			540	0			1	20	--	SPARE	10
11	REC, PRINTER - HELP DESK	PNON; PREC	20	1					860	0	1	20	--	SPARE	12
13	REC - PUBLIC COMPUTERS	PREC	20	1	720	0					1	20	--	SPARE	14
15	REC - PUBLIC COMPUTERS	PREC	20	1			720	0			1	20	--	SPARE	16
17	REC - PUBLIC COMPUTERS	PREC	20	1					720	0	1	20	--	SPARE	18
19	REC - PUBLIC COMPUTERS	PREC	20	1	360	0					1	20	--	SPARE	20
21	REC - PUBLIC COMPUTERS	PREC	20	1			720	0			1	20	--	SPARE	22
23	REC - PUBLIC COMPUTERS	PREC	20	1					720	0	1	20	--	SPARE	24
25	REC - PUBLIC COMPUTERS	PREC	20	1	720	0					1	20	--	SPARE	26
27	REC - PUBLIC COMPUTERS	PREC	20	1			360	0			1	20	--	SPARE	28
29	COPIER	PNON	20	1					1,200	0	1	20	--	SPARE	30
31	REC - PUBLIC COMPUTERS	PREC	20	1	180	0					1	20	--	SPARE	32
33	JAMEX AND COMPUTER/SCANNER	PNON	20	1			1,200	0			1	20	--	SPARE	34
35	COPIER	PNON	20	1					1,200	0	1	20	--	SPARE	36
37	REC - PUBLIC COMPUTERS	PREC	20	1	180										38
39															40
41															42
43															44
45															46
47															48
49															50
51															52
53															54
		TOTAL LOAD (VA):			3,420		4,260		5,420						
		TOTAL LOAD (A):			29		37		46						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND
PNON	4,280 VA	100.00%	4,280 VA
PREC	8,820 VA	100.00%	8,820 VA

PANEL TOTALS	
CONNECTED:	13,100 VA
CALCULATED DEMAND:	**13,100 VA**
CONNECTED:	36 A
CALCULATED DEMAND:	**36 A**

NOTES:
1. PROVIDE PANEL AS PART OF ALTERNATE 3 SCOPE OF WORK.

	PANEL I

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/16/2026 2:54:53 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

PANEL SCHEDULES - ELECTRICAL

E802

PANELBOARD: PANEL B (AFTER)

LOCATION: STAFF BREAK LOUNGE 24 | **VOLTS:** 208/120 Wye | **A.I.C. RATING:** 22,000 A
SUPPLY FROM: 2DP | **PHASES:** 3 | **BUS RATING:** 225 A
MOUNTING: FLUSH | **WIRES:** 4 | **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 | **SUB FEED LUGS:** No | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)	B (VA)	C (VA)	POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	LTG - CLOSED STACK	--	20	1	0 228			1	20	LTG	LTG - FRNDS OF LIB, MOTHERS (NOTE 1)	2
3	LTG - CLOSED STACK	--	20	1		0 424		1	20	LTG	LTG - STAFF BREAK ROOM (NOTE 1)	4
5	LTG - CLOSED STACK	--	20	1			0 383	1	20	HVAC	EF-2 (NOTE 1)	6
7	LTG - CLOSED STACK	--	20	1	0 43			1	20	LTG	LTG - FAMILY RR (NOTE 1)	8
9	LTG - CLOSED STACK	--	20	1		0 0		1	20	--	LTG - KITCHEN	10
11	LTG - CLOSED STACK	--	20	1			0 559	1	20	LTG	LTG - CHILDRENS LIBRARY DECOR (NOT...	12
13	REC - KITCHEN, STORY TIME	--	20	1	0 0			1	20	--	REC - MAIN FLOOR	14
15	LTG - SM MTG RM, WRK AREA (NOTE 1)	LTG	20	1		203 0		1	20	--	REC - KITCHEN, GARAGE	16
17	LTG - FOYER (NOTE 1)	LTG	20	1			260 0	1	20	--	REC - KITCHEN, GARAGE	18
19	LTG - YOUTH SERVICE STAFF (NOTE 1)	LTG	20	1	190 856			1	20	LTG	LTG - S. CHILDRENS LIBRARY (NOTE 1)	20
21	RANGE	--	50	2		0 853		1	20	LTG	LTG - CHILDRENS LIBRARY (NOTE 1)	22
23							0 0	1	20	--	REC - STORY TIME	24
25	WATER HEATER	--	30	2	0 0			1	20	--	REC - STORY TIME	26
27						0 0		1	20	--	REC - STORY TIME	28
29	HAND DRYER	--	20	1			0 0	1	20	--	SPARE	30
				TOTAL LOAD (VA):	1,317	1,480	1,202					
				TOTAL LOAD (A):	11	12	10					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
HVAC	383 VA	125.00%	479 VA	CONNECTED:	4,000 VA
LTG	3,616 VA	125.00%	4,520 VA	**CALCULATED DEMAND:**	**4,999 VA**
				CONNECTED:	11 A
				CALCULATED DEMAND:	**14 A**

NOTES:
1. EXISTING SPARE TO BE REUSED FOR NEW LOAD.

PANELBOARD: PANEL B (BEFORE)

LOCATION: STAFF BREAK LOUNGE 24 | **VOLTS:** 208/120 Wye | **A.I.C. RATING:** 22,000 A
SUPPLY FROM: | **PHASES:** 3 | **BUS RATING:** 225 A
MOUNTING: FLUSH | **WIRES:** 4 | **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 | **SUB FEED LUGS:** No | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)	B (VA)	C (VA)	POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	LTG - CLOSED STACK	--	15	1	0 0			1	15	--	LTG - CLOSED STACK (NOTE 1)	2
3	LTG - CLOSED STACK	--	15	1		0 0		1	15	--	LTG - CLOSED STACK (NOTE 1)	4
5	LTG - CLOSED STACK	--	15	1			0 0	1	15	--	LTG - CLOSED STACK (NOTE 1)	6
7	LTG - CLOSED STACK	--	15	1	0 0			1	20	--	LTG - RESTROOM	8
9	LTG - CLOSED STACK	--	15	1		0 0		1	20	--	LTG - KITCHEN	10
11	LTG - STORY TIME	--	20	1			0 0	1	20	--	SPARE	12
13	REC - KITCHEN, STORY TIME	--	20	1	0 0			1	20	--	REC - MAIN FLOOR	14
15	LTG - CHILDRENS RESTROOM	--	20	1		0 0		1	20	--	REC - KITCHEN, GARAGE	16
17	LTG - CHILDRENS RESTROOM	--	20	1			0 0	1	20	--	REC - KITCHEN, GARAGE	18
19	LTG - STORY TIME (NOTE 1)	--	20	1	0 0			1	20	--	LTG - S. CHILDRENS LIBRARY	20
21	RANGE	--	50	2		0 0		1	20	--	LTG - S. CHILDRENS LIBRARY (NOTE 1)	22
23							0 0	1	20	--	REC - STORY TIME	24
25	WATER HEATER	--	30	2	0 0			1	20	--	REC - STORY TIME	26
27						0 0		1	20	--	REC - STORY TIME	28
29	HAND DRYER	--	30	1			0 0	1	30	--	HAND DRYER	30
				TOTAL LOAD (VA):	0	0	0					
				TOTAL LOAD (A):	0	0	0					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
				CONNECTED:	0 VA
				CALCULATED DEMAND:	**0 VA**
				CONNECTED:	0 A
				CALCULATED DEMAND:	**0 A**

NOTES:
1. CIRCUIT MADE SPARE AFTER DEMOLITION.

PANELBOARD: PANEL P (AFTER)

LOCATION: (E) MECHANICAL ROOM 33 | **VOLTS:** 208/120 Wye | **A.I.C. RATING:** 22,000 A
SUPPLY FROM: 2DP | **PHASES:** 3 | **BUS RATING:** 100 A
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 | **SUB FEED LUGS:** No | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)	B (VA)	C (VA)	POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	BOILER	--	20	1	0							2
3	WATER HEATER	--	20	2		0						4
5							0					6
7	SPARE	--	20	3	0							8
9						0						10
11							0					12
13	DUMBWAITER	--	20	3	0							14
15						0						16
17							0					18
19												20
21	COMPR	--	20	1		0						22
23	SPARE	--	20	3			0					24
25					0							26
27						0						28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
				TOTAL LOAD (VA):	0	0	0					
				TOTAL LOAD (A):	0	0	0					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
				CONNECTED:	0 VA
				CALCULATED DEMAND:	**0 VA**
				CONNECTED:	0 A
				CALCULATED DEMAND:	**0 A**

NOTES:
1. EXISTING SPARE TO BE REUSED FOR NEW LOAD.

PANELBOARD: PANEL P (BEFORE)

LOCATION: (E) MECHANICAL ROOM 33 | **VOLTS:** 208/120 Wye | **A.I.C. RATING:** 22,000 A
SUPPLY FROM: | **PHASES:** 3 | **BUS RATING:** 100 A
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 | **SUB FEED LUGS:** No | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)	B (VA)	C (VA)	POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	BOILER	--	20	1	0							2
3	WATER HEATER	--	20	2		0						4
5							0					6
7	CP-1 (NOTE 1)	--	20	3	0							8
9						0						10
11							0					12
13	DUMBWAITER	--	20	3	0							14
15						0						16
17							0					18
19												20
21	COMPR	--	20	1		0						22
23	CP-2 (NOTE 1)	--	20	3			0					24
25					0							26
27						0						28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
				TOTAL LOAD (VA):	0	0	0					
				TOTAL LOAD (A):	0	0	0					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
				CONNECTED:	0 VA
				CALCULATED DEMAND:	**0 VA**
				CONNECTED:	0 A
				CALCULATED DEMAND:	**0 A**

NOTES:
1. CIRCUIT MADE SPARE AFTER DEMOLITION.

PANEL B AFTER	PANEL B BEFORE
PANEL P AFTER	PANEL P BEFORE

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/30/2025 2:54:25 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

PANEL SCHEDULES - ELECTRICAL

E803

PANELBOARD: PANEL H (SECT. 1) (AFTER)

LOCATION: (E) MECHANICAL ROOM 33
SUPPLY FROM: 2DP
MOUNTING: SURFACE
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 125 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	REC - DESKS	--	20	1	0	0					1	20	--	REC - DESKS	2
3	REC - DESKS	--	20	1			0	0			1	20	--	REC - DESKS	4
5	REC - DESKS	--	20	1					0	0	1	20	--	REC - DESKS	6
7	REC - DESKS	--	20	1	0	0					1	20	--	REC - DESKS	8
9	REC - DESKS	--	20	1			0	0			1	20	--	REC - DESKS	10
11	REC - DESKS	--	20	1					0	0	1	20	--	HALOGEN SYSTEM	12
13	LTG - TEEN (NOTE 1)	LTG	20	1	524	--					1	--	--	SPACE	14
15	LTG - MULTIPURPOSE ROOM (NOTE 1)	Other; LTG	20	1			760	0			1	20	--	REC - DESKS	16
17	REC - REFERENCE DESK	--	20	1					0	0	1	20	--	SPARE	18
19	REC - KITCHEN	--	20	1	0	0					1	20	--	REC - WEST CONFERENCE, PODIUM	20
21	DISHWASHER	--	20	1			0	0			1	20	--	REC	22
23	REC - KITCHEN	--	20	1					0	0	1	20	--	REC - EAST CONFERENCE	24
25	REC	--	20	1	0	0					1	20	--	REC	26
27	REC - CONFERENCE	--	20	1			0	0			1	20	--	REC - EAST CHILDRENS	28
29	REC - RESTROOM HALL	--	20	1					0	0	1	20	--	REC - CHILDRENS CIRCULATION DESK	30
31	ESPRESSO MACHINE	--	30	2	0	0					1	20	--	REC - REFERENCE DESK	32
33							0	--			1	--	--	SPACE	34
	TOTAL LOAD (VA):				524		760		0						
	TOTAL LOAD (A):				5		7		0						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
LTG	1,284 VA	125.00%	1,606 VA		
Other	0 VA	0.00%	0 VA	CONNECTED:	1,284 VA
				CALCULATED DEMAND:	**1,606 VA**
				CONNECTED:	4 A
				CALCULATED DEMAND:	**4 A**

NOTES:
1. EXISTING SPARE TO BE REUSED FOR NEW LOAD.

PANELBOARD: PANEL H (SECT. 1) (BEFORE)

LOCATION: (E) MECHANICAL ROOM 33
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 125 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	REC - DESKS	--	20	1	0	0					1	20	--	REC - DESKS	2
3	REC - DESKS	--	20	1			0	0			1	20	--	REC - DESKS	4
5	REC - DESKS	--	20	1					0	0	1	20	--	REC - DESKS	6
7	REC - DESKS	--	20	1	0	0					1	20	--	REC - DESKS	8
9	REC - DESKS	--	20	1			0	0			1	20	--	REC - DESKS	10
11	REC - DESKS	--	20	1					0	0	1	20	--	HALOGEN SYSTEM	12
13	LTG - KITCHEN, CUSTODIAL (NOTE 1)	--	20	1	0	--					1	--	--	SPACE	14
15	LTG - CONFERENCE (NOTE 1)	--	20	1			0	0			1	20	--	REC - DESKS	16
17	REC - REFERENCE DESK	--	20	1					0	0	1	20	--	SPARE	18
19	REC - KITCHEN	--	20	1	0	0					1	20	--	REC - WEST CONFERENCE, PODIUM	20
21	DISHWASHER	--	20	1			0	0			1	20	--	REC	22
23	REC - KITCHEN	--	20	1					0	0	1	20	--	REC - EAST CONFERENCE	24
25	REC	--	20	1	0	0					1	20	--	REC	26
27	REC - CONFERENCE	--	20	1			0	0			1	20	--	REC - EAST CHILDRENS	28
29	REC - RESTROOM HALL	--	20	1					0	0	1	20	--	REC - CHILDRENS CIRCULATION DESK	30
31	ESPRESSO MACHINE	--	30	2	0	0					1	20	--	REC - REFERENCE DESK	32
33							0	--			1	--	--	SPACE	34
	TOTAL LOAD (VA):				0		0		0						
	TOTAL LOAD (A):				0		0		0						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
				CONNECTED:	0 VA
				CALCULATED DEMAND:	**0 VA**
				CONNECTED:	0 A
				CALCULATED DEMAND:	**0 A**

NOTES:
1. CIRCUIT MADE SPARE AFTER DEMOLITION.

PANELBOARD: PANEL H (SECT. 2) (AFTER)

LOCATION: (E) MECHANICAL ROOM 33
SUPPLY FROM: 2DP
MOUNTING: SURFACE
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 125 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	EF-1 (NOTE 1)	HVAC	20	1	80	0					1	20	--	SPARE	2
3	REC - CHILDRENS LIBRARY, NORTH	--	20	1			0	0			1	20	--	SPARE	4
5	REC - UNDERCARPET	--	20	1					0	0	1	20	--	SPARE	6
7	REC - NORTH CIRCULATION DESK	--	20	1	0	0					1	20	--	LTG - HALL	8
9	REC - NORTH CIRCULATION DESK	--	20	1			0	171			1	20	LTG	LTG - GND FL LOBBY (NOTE 2)	10
11	REC - NORTH CIRCULATION DESK	--	20	1					0	0	1	20	--	REC - EAST RESTROOMS	12
13	REC - JANITORS	--	20	1	0	0					1	20	--	REC - UNDERCARPET	14
15	LTG - PUBLIC RR, STORAGE (NOTE 1)	LTG	20	1			215	0			1	20	--	REC - MAIN CIRCULATION DESK	16
17	LTG - OUTSIDE	--	20	1					0	0	1	20	--	LTG - OUTSIDE	18
19	LTG - OUTSIDE	--	20	1	0	0					1	20	--	LTG - OUTSIDE	20
21	LTG - OUTSIDE	--	20	1			0	0							22
23	MENS ROOM DRYERS	--	20	1					0	0	3	20	--	SPARE	24
25	MENS ROOM DRYERS	--	20	1	0	0									26
27	PANEL X FEEDER	--	20	2			0	0							28
29									0	0	3	20	--	DIMMER PANEL	30
31	SPACE	--	--	1	--	0									32
	TOTAL LOAD (VA):				80		386		0						
	TOTAL LOAD (A):				1		3		0						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
HVAC	80 VA	125.00%	100 VA		
LTG	386 VA	125.00%	483 VA	CONNECTED:	466 VA
				CALCULATED DEMAND:	**583 VA**
				CONNECTED:	1 A
				CALCULATED DEMAND:	**2 A**

NOTES:
1. REUSE EXISTING SPARE FOR NEW LOAD.
2. MODIFY EXISTING CIRCUIT TO INCLUDE NEW LOAD.

PANELBOARD: PANEL H (SECT. 2) (BEFORE)

LOCATION: (E) MECHANICAL ROOM 33
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 125 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	EXHAUST FAN 1 (NOTE 1)	--	20	1	0	0					1	20	--	SPARE	2
3	REC - CHILDRENS LIBRARY, NORTH	--	20	1			0	0			1	20	--	SPARE	4
5	REC - UNDERCARPET	--	20	1					0	0	1	20	--	SPARE	6
7	REC - NORTH CIRCULATION DESK	--	20	1	0	0					1	20	--	LTG - HALL	8
9	REC - NORTH CIRCULATION DESK	--	20	1			0	0			1	20	--	LTG - LOBBY FLOOD	10
11	REC - NORTH CIRCULATION DESK	--	20	1					0	0	1	20	--	REC - EAST RESTROOMS	12
13	REC - JANITORS	--	20	1	0	0					1	20	--	REC - UNDERCARPET	14
15	LTG - JANITORS (NOTE 1)	--	20	1			0	0			1	20	--	REC - MAIN CIRCULATION DESK	16
17	LTG - OUTSIDE	--	20	1					0	0	1	20	--	LTG - OUTSIDE	18
19	LTG - OUTSIDE	--	20	1	0	0					1	20	--	LTG - OUTSIDE	20
21	LTG - OUTSIDE	--	20	1			0	0							22
23	MENS ROOM DRYERS	--	20	1					0	0	3	20	--	HV2 (NOTE 1)	24
25	MENS ROOM DRYERS	--	20	1	0	0									26
27	PANEL X FEEDER	--	20	2			0	0							28
29									0	0	3	20	--	DIMMER PANEL	30
31	SPACE	--	--	1	--	0									32
	TOTAL LOAD (VA):				0		0		0						
	TOTAL LOAD (A):				0		0		0						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
				CONNECTED:	0 VA
				CALCULATED DEMAND:	**0 VA**
				CONNECTED:	0 A
				CALCULATED DEMAND:	**0 A**

NOTES:
1. CIRCUIT MADE SPARE AFTER DEMOLITION.

PANEL H (SECT. 1) AFTER	PANEL H (SECT. 1) BEFORE
PANEL H (SECT. 2) AFTER	PANEL H (SECT. 2) BEFORE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

PANEL SCHEDULES - ELECTRICAL

E804

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
9/29/2025 2:54:48 PM

PANELBOARD: PANEL C (AFTER)

LOCATION: NON-FICTION 120
SUPPLY FROM: 2DP
MOUNTING: FLUSH
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 225 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	REC - S. NON-FICTION	--	20	1	0	0					1	20	--	LTG - NON-FICTION	2
3	LTG - NON-FICTION	--	20	1			0	0			1	20	--	LTG - BATHROOM & DISTRIBUTION	4
5	LTG - NON-FICTION	--	20	1					0	0	1	20	--	REC - FLOOR M-8	6
7	SPARE	--	20	1	0	0					1	20	--	CATALOG DATA BASE	8
9	REC - WORK STATION	--	20	1			0	0			1	20	--	CATALOG DATA BASE	10
11	SPARE	--	20	1					0	0	1	20	--	GUEST COMPUTER ROOM	12
13	REC - PUBLIC COMPUTERS,...	--	20	1	0	540					1	20	PREC	REC - RESTROOM 111A, 11B, 112 (NOTE 1)	14
15	REC - PUBLIC COMPUTERS,...	--	20	1			0	360			1	20	PREC	REC - SELF CHECKOUT (NOTE 1)	16
17	REC - PUBLIC COMPUTERS	--	20	1					0	360	1	20	PREC	REC - SELF CHECKOUT (NOTE 1)	18
19	REC - PUBLIC COMPUTERS	--	20	1	0	360					1	20	PREC	REC - SELF CHECKOUT (NOTE 1)	20
21	REC - PUBLIC COMPUTERS	--	20	1			0	360			1	20	PREC	REC - FLEX MEETING SPACE 103 (NOTE 1)	22
23	REC - TEEN SPACE	--	20	1					0	360	1	20	PREC	REC - FLEX MEETING SPACE 103	24
25	REC - TEEN SPACE	--	20	1	0	0					1	20	--	SPARE	26
27	REC - SEATING & PERIODICALS, N. CLOCK	--	20	1			0	0			1	20	--	SPARE	28
29	REC - SEATING & PERIODICALS	--	20	1					0	0	1	20	--	SPARE	30
31	REC - SEATING & PERIODICALS	--	20	1	0	0					1	20	--	SPARE	32
33	REC - SEATING & PERIODICALS	--	20	1			0	0			1	20	--	SPARE	34
35	REC - SEATING & PERIODICALS	--	20	1					0	0	1	20	--	SPARE	36
37	REC - SEATING & PERIODICALS	--	20	1	0	0					1	20	--	SPARE	38
39	REC - SEATING & PERIODICALS	--	20	1			0	0			1	20	--	SPARE	40
41	REC - SEATING & PERIODICALS	--	20	1					0	0	1	20	--	SPARE	42
			TOTAL LOAD (VA):		900		720		720						
			TOTAL LOAD (A):		8		6		6						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
PREC	2,340 VA	100.00%	2,340 VA	CONNECTED:	2,340 VA
				CALCULATED DEMAND:	**2,340 VA**
				CONNECTED:	6 A
				CALCULATED DEMAND:	**6 A**

NOTES:
1. EXISTING SPARE TO BE REUSED FOR NEW LOAD.

PANELBOARD: PANEL C (BEFORE)

LOCATION: NON-FICTION 120
SUPPLY FROM:
MOUNTING: FLUSH
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 225 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	REC - S. NON-FICTION	--	20	1	0	0					1	20	--	LTG - NON-FICTION	2
3	LTG - NON-FICTION	--	20	1			0	0			1	20	--	LTG - BATHROOM & DISTRIBUTION	4
5	LTG - NON-FICTION	--	20	1					0	0	1	20	--	REC - FLOOR M-8	6
7	SPARE	--	20	1	0	0					1	20	--	CATALOG DATA BASE	8
9	REC - WORK STATION	--	20	1			0	0			1	20	--	CATALOG DATA BASE	10
11	SPARE	--	20	1					0	0	1	20	--	GUEST COMPUTER ROOM	12
13	REC - PUBLIC COMPUTERS,...	--	20	1	1,080	0					1	20	--	SPARE	14
15	REC - PUBLIC COMPUTERS,...	--	20	1			900	0			1	20	--	SPARE	16
17	REC - PUBLIC COMPUTERS	--	20	1					1,080	0	1	20	--	SPARE	18
19	REC - PUBLIC COMPUTERS	--	20	1	900	0					1	20	--	SPARE	20
21	REC - PUBLIC COMPUTERS	--	20	1			900	0			1	20	--	SPARE	22
23	REC - TEEN SPACE	--	20	1					1,080	0	1	20	--	SPARE	24
25	REC - TEEN SPACE	--	20	1	900	0					1	20	--	SPARE	26
27	REC - SEATING & PERIODICALS, N. CLOCK	--	20	1			1,080	0			1	20	--	SPARE	28
29	REC - SEATING & PERIODICALS	--	20	1					900	0	1	20	--	SPARE	30
31	REC - SEATING & PERIODICALS	--	20	1	900	0					1	20	--	SPARE	32
33	REC - SEATING & PERIODICALS	--	20	1			900	0			1	20	--	SPARE	34
35	REC - SEATING & PERIODICALS	--	20	1					1,260	0	1	20	--	SPARE	36
37	REC - SEATING & PERIODICALS	--	20	1	1,080	0					1	20	--	SPARE	38
39	REC - SEATING & PERIODICALS	--	20	1			1,260	0			1	20	--	SPARE	40
41	REC - SEATING & PERIODICALS	--	20	1					1,080	0	1	20	--	SPARE	42
			TOTAL LOAD (VA):		4,860		5,040		5,400						
			TOTAL LOAD (A):		41		42		45						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
Spare	15,300 VA	100.00%	15,300 VA	CONNECTED:	15,300 VA
				CALCULATED DEMAND:	**15,300 VA**
				CONNECTED:	42 A
				CALCULATED DEMAND:	**42 A**

NOTES:

PANEL C AFTER	PANEL C BEFORE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

PANEL SCHEDULES - ELECTRICAL

E805

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/28/2026 2:53:09 PM

PANELBOARD: PANEL G

LOCATION: LOBBY 100
SUPPLY FROM: 2DP
MOUNTING: FLUSH
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 225 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A		B		C		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	LTG - FICTION STOCKS	--	20	1	0	0					1	20	--	LTG - FICTION STOCKS	2
3	LTG - FICTION STOCKS	--	20	1			0	0			1	20	--	LTG - FICTION STOCKS	4
5	LTG - FICTION STOCKS	--	20	1					0	0	1	20	--	LTG - FICTION STOCKS	6
7	LTG - PUBLIC COMPUTERS & DONATIONS	--	20	1	0	0					1	20	--	LTG - REF AREA	8
9	LTG - WORK STATION A/U ROOM	--	20	1			0	0			1	20	--	LTG - REF AREA	10
11	LTG - STUDY 104 & 105, SKILL SHARE	--	20	1					0	0	1	20	--	LTG - REF AREA	12
13	LTG - OVERSIZE BOOKS (NOTE 1)	LTG	20	1	94	0					1	20	--	LTG - NIGHT LIGHTS IN REF AREA	14
15	LTG - OVERSIZE BOOKS (NOTE 1)	LTG	20	1			155	0			1	20	--	LTG - OVERSIZE BOOKS	16
17	LTG - OVERSIZE BOOKS (NOTE 1)	LTG	20	1					94	94	1	20	LTG	LTG - OVERSIZE BOOKS (NOTE 1)	18
19	LTG - DESK FLOURESCENTS	--	20	1	0	0					1	20	--	LTG - DESK INCANDESCENTS	20
21	LTG - DESK FLOURESCENTS	--	20	1			0	0			1	20	--	LTG - DESK INCANDESCENTS	22
23	FIRE ALARM	--	20	1					0	0	1	20	--	LTG - LOBBY	24
25	REC - FICTION STOCKS	--	20	1	0	0					1	20	--	LTG - BOOK DROP & LOBBY	26
27	REC - STAFF	--	20	1			0	0			1	20	--	REC - SKILL SHARE	28
29	REC - A/V ROOM	--	20	1					0	0	1	20	--	REC - SKILL SHARE	30
31	REC - BY F.A.	--	20	1	0	0					1	20	--	REC - SELF-CHECKOUT	32
33	REC - S.W. OVERSIZE BOOKS	--	20	1			0	0			1	20	--	REC - SELF-CHECKOUT	34
35	CONTACTOR - ROOMS 115, 116, 121, 141	--	20	1					0	0	1	20	--	DOOR OPENER COMPRESSOR	36
37	HELP DESK	--	20	1	0	0					1	20	--	EXHAUST FAN - BATHROOMS 111 & 112	38
39	HELP DESK	--	20	1			0	0			1	20	--	EXHUAST FAN - A/V ROOM	40
41	HELP DESK	--	20	1					0	0	1	20	--	DRINKING FOUNTAIN - BATHRMS 111 &...	42
43	REC - FICTION 121	--	20	1	0	0					1	20	--	HAND DRYER - BATHROOM 111	44
45	REC - STUDY 104 & 105	--	20	1			0	0			1	20	--	HAND DRYER - BATHROOM 112	46
47	REC - STUDY 104 & 105	--	20	1					0	0	1	20	--	MOTORIZED DOOR - BATHROOM 111	48
49	REC - DONATIONS 106 & RETURNS 107	--	20	1	0	0					1	20	--	MOTORIZED DOOR - BATHROOM 112	50
51	AC-1 - ROOF & STUDY 105	--	20	2			0	0			2	20	--	AC-2 - ROOF & STUDY 104	52
53									0	0					54
			TOTAL LOAD (VA):		94		155		188						
			TOTAL LOAD (A):		1		1		2						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
LTG	437 VA	125.00%	547 VA	CONNECTED:	437 VA
				CALCULATED DEMAND:	**547 VA**
				CONNECTED:	1 A
				CALCULATED DEMAND:	**2 A**

NOTES:
1. MODIFY EXISTING CIRCUIT TO INCLUDE NEW LOAD.

PANELBOARD: PANEL G (BEFORE)

LOCATION: LOBBY 100
SUPPLY FROM:
MOUNTING: FLUSH
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 225 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A		B		C		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	LTG - FICTION STOCKS	--	20	1	0	0					1	20	--	LTG - FICTION STOCKS	2
3	LTG - FICTION STOCKS	--	20	1			0	0			1	20	--	LTG - FICTION STOCKS	4
5	LTG - FICTION STOCKS	--	20	1					0	0	1	20	--	LTG - FICTION STOCKS	6
7	LTG - PUBLIC COMPUTERS & DONATIONS	--	20	1	1,130	0					1	20	--	LTG - REF AREA	8
9	LTG - WORK STATN A/U ROOM	--	20	1			0	0			1	20	--	LTG - REF AREA	10
11	LTG - STUDY 104 & 105, SKILL SHARE	--	20	1					460	0	1	20	--	LTG - REF AREA	12
13	LTG - OVERSIZE BOOKS	--	20	1	0	0					1	20	--	LTG - NIGHT LIGHTS IN REF AREA	14
15	LTG - OVERSIZE BOOKS	--	20	1			0	0			1	20	--	LTG - OVERSIZE BOOKS	16
17	LTG - OVERSIZE BOOKS	--	20	1					0	0	1	20	--	LTG - OVERSIZE BOOKS	18
19	LTG - DESK FLOURESCENTS	--	20	1	0	0					1	20	--	LTG - DESK INCANDESCENTS	20
21	LTG - DESK FLOURESCENTS	--	20	1			0	0			1	20	--	LTG - DESK INCANDESCENTS	22
23	FIRE ALARM	--	20	1					0	0	1	20	--	LTG - LOBBY	24
25	REC - FICTION STOCKS	--	20	1	0	0					1	20	--	LTG - BOOK DROP & LOBBY	26
27	REC - STAFF	--	20	1			0	900			1	20	--	REC - SKILL SHARE	28
29	REC - A/V ROOM	--	20	1					0	1,080	1	20	--	REC - SKILL SHARE	30
31	REC - BY F.A.	--	20	1	0	720					1	20	--	REC - SELF-CHECKOUT	32
33	REC - S.W. OVERSIZE BOOKS	--	20	1			0	540			1	20	--	REC - SELF-CHECKOUT	34
35	CONTACTOR - ROOMS 115, 116, 121, 141	--	20	1					0	0	1	20	--	DOOR OPENER COMPRESSOR	36
37	HELP DESK	--	20	1	0	0					1	20	--	EXHAUST FAN - BATHROOMS 111 & 112	38
39	HELP DESK	--	20	1			0	0			1	20	--	EXHUAST FAN - A/V ROOM	40
41	HELP DESK	--	20	1					0	740	1	20	--	DRINKING FOUNTAIN - BATHRMS 111 &...	42
43	REC - FICTION 121	--	20	1	720	1,368					1	20	--	HAND DRYER - BATHROOM 111	44
45	REC - STUDY 104 & 105	--	20	1			1,260	1,368			1	20	--	HAND DRYER - BATHROOM 112	46
47	REC - STUDY 104 & 105	--	20	1					1,260	403	1	20	--	MOTORIZED DOOR - BATHROOM 111	48
49	REC - DONATIONS 106 & RETURNS 107	--	20	1	1,260	403					1	20	--	MOTORIZED DOOR - BATHROOM 112	50
51	AC-1 - ROOF & STUDY 105	--	20	2			832	832			2	20	--	AC-2 - ROOF & STUDY 104	52
53									832	832					54
			TOTAL LOAD (VA):		5,601		5,732		5,607						
			TOTAL LOAD (A):		47		48		47						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
Spare	16,939 VA	100.00%	16,939 VA	CONNECTED:	16,939 VA
				CALCULATED DEMAND:	**16,939 VA**
				CONNECTED:	47 A
				CALCULATED DEMAND:	**47 A**

NOTES:

PANELBOARD: PANEL F (SECT. 1) (NEW)

LOCATION:
SUPPLY FROM: 2DP
MOUNTING: FLUSH
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 400 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A		B		C		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	REC - IT (NOTE 1)	PREC	20	1	360	360					1	20	PREC	REC - IT RACKS (NOTE 2)	2
3	REC - IT (NOTE 1)	PREC	20	1			360	179			1	20	LTG	LTG - IT WORKSPACE, OFFICE (NOTE 1)	4
5	REC - IT (NOTE 1)	PREC	20	1					360	245	1	20	LTG	LTG - COLLECTION, STORAGE (NOTE 1)	6
7	LTG - S. OFFICES (NOTE 1)	LTG	20	1	671	0					1	20	--	LTG - ENTRY ROW 1	8
9	LTG - OPEN PLAN WORK SPACE (NOTE 1)	LTG	20	1			1,020	0			1	20	--	LTG - ENTRY ROW 2	10
11	LTG - 242, 243, 244 (NOTE 1)	LTG	20	1					228	0	1	20	--	LTG - ENTRY ROW 3	12
13	LTG , REC - BATHROOM	--	20	1	0	0					1	20	--	L.V. LTG RELAYS	14
15	REC - OFFICE AREA 2 SOUTH WALL	--	20	1			0	0			1	20	--	LTG - 1ST FLOOR NORTH WALL	16
17	REC - OFFICE AREA 2 SOUTH WALL	--	20	1					0	0	1	20	--	LTG - 1ST FLOOR NORTH WALL	18
19	REC - SECRETARY	--	20	1	0	0					1	20	--	REC - COMPUTER ROOM	20
21	REC - SECRETARY, DIRECTOR	--	20	1			0	0			1	20	--	REC - OFFICE AREA 2 WEST WALL	22
23	REC - MENDRY	--	20	1					0	0	1	20	--	REC - WORK ROOM	24
25	HV-1 LTG, REC	PNON	20	1	500										26
27	SPARE	--	20	1			0								28
29	SPARE	--	20	1					0						30
31	SPARE	--	20	1	0										32
33	SPARE	--	20	1			0								34
35	SPARE	--	20	1					0						36
37	SPARE	--	20	1	0										38
39	SPARE	--	20	1			0								40
41	SPARE	--	20	1					0						42
			TOTAL LOAD (VA):		1,891		1,559		833						
			TOTAL LOAD (A):		17		14		7						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
LTG	2,342 VA	125.00%	2,928 VA		
PNON	500 VA	100.00%	500 VA	CONNECTED:	4,282 VA
PREC	1,440 VA	100.00%	1,440 VA	**CALCULATED DEMAND:**	**4,868 VA**
				CONNECTED:	12 A
				CALCULATED DEMAND:	**14 A**

NOTES:

PANELBOARD: PANEL F (SECT. 1) (BEFORE)

LOCATION: WORKROOM 243
SUPPLY FROM:
MOUNTING: FLUSH
ENCLOSURE: NEMA-1

VOLTS: 208/120 Wye
PHASES: 3
WIRES: 4
SUB FEED LUGS: No

A.I.C. RATING: 22,000 A
BUS RATING: 400 A
MAINS TYPE: MLO
MCB RATING: N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	LTG - OFFICE AREA 2 (NOTE 1)	--	20	1	0	0					1	20	--	LTG - OFFICE AREA 1 (NOTE 1)	2
3	LTG - OFFICE AREA 2 (NOTE 1)	--	20	1			0	0			1	20	--	LTG - OFFICE AREA 1 (NOTE 1)	4
5	LTG - OFFICE AREA 2 (NOTE 1)	--	20	1					0	0	1	20	--	LTG - OFFICE AREA 1 (NOTE 1)	6
7	LTG - SECRETARY (NOTE 1)	--	20	1	0	0					1	20	--	LTG - ENTRY ROW 1	8
9	LTG - DIRECTOR (NOTE 1)	--	20	1			0	0			1	20	--	LTG - ENTRY ROW 2	10
11	LTG - MENDRY (NOTE 1)	--	20	1					0	0	1	20	--	LTG - ENTRY ROW 3	12
13	LTG , REC - BATHROOM	--	20	1	0	0					1	20	--	L.V. LTG RELAYS	14
15	REC - OFFICE AREA 2 SOUTH WALL	--	20	1			0	0			1	20	--	LTG - 1ST FLOOR NORTH WALL	16
17	REC - OFFICE AREA 2 SOUTH WALL	--	20	1					0	0	1	20	--	LTG - 1ST FLOOR NORTH WALL	18
19	REC - SECRETARY	--	20	1	0	0					1	20	--	REC - COMPUTER ROOM	20
21	REC - SECRETARY, DIRECTOR	--	20	1			0	0			1	20	--	REC - OFFICE AREA 2 WEST WALL	22
23	REC - MENDRY	--	20	1					0	0	1	20	--	REC - WORK ROOM	24
			TOTAL LOAD (VA):		0		0		0						
			TOTAL LOAD (A):		0		0		0						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
				CONNECTED:	0 VA
				CALCULATED DEMAND:	**0 VA**
				CONNECTED:	0 A
				CALCULATED DEMAND:	**0 A**

NOTES:
1. CIRCUIT MADE SPARE AFTER DEMOLITION.

PANEL G AFTER	PANEL G BEFORE
PANEL F (SECT. 1) AFTER	PANEL F (SECT. 1) BEFORE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

PANEL SCHEDULES - ELECTRICAL

E806

Autodesk Docs://23-105 - City of Bellingham Cent Lib Reno/23-105 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/30/2026 2:55:10 PM

PANELBOARD: PANEL F (SECT. 2) (AFTER)

LOCATION: | **VOLTS:** 208/120 Wye | **A.I.C. RATING:** 22,000 A
SUPPLY FROM: 2DP | **PHASES:** 3 | **BUS RATING:** 400 A
MOUNTING: FLUSH | **WIRES:** 4 | **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 | **SUB FEED LUGS:** No | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	REC - OPEN PLAN WORKSPACE (NOTE 2)	PREC	20	1	900	360					1	20	PNON	AC - WORKROOM 243 (NOTE 3)	2
3	REC - OPEN PLAN WORKSPACE (NOTE 2)	PREC	20	1			1,080	720			1	20	PREC	REC - WORKROOM 243 (NOTE 3)	4
5	REC - OPEN PLAN WORKSPACE (NOTE 2)	PREC	20	1					900	180	1	20	PREC	REC - WORKROOM 243 (NOTE 3)	6
7	REC - OPEN PLAN WORKSPACE (NOTE 2)	PREC	20	1	720	0					1	20	--	REC - IC COMPUTER ROOM	8
9	REC - OPEN PLAN WORKSPACE (NOTE 2)	PREC	20	1			1,080	360			1	20	PREC	REC - IT WORKSPACE (NOTE 2)	10
11	REC - OPEN PLAN WORKSPACE (NOTE 2)	PREC	20	1					1,080	360	1	20	PREC	REC - IT WORKSPACE (NOTE 2)	12
13	REC - OPEN PLAN WORKSPACE (NOTE 2)	PREC	20	1	1,080	0					2	20	--	UPS - COMPUTER ROOM	14
15	REC - OPEN PLAN WORKSPACE (NOTE 2)	PREC	20	1			360	0							16
17	REC - OPEN WORKSPACE KITCHEN...	PREC	20	1					900	0	1	20	--	WATER HEATER - RESTROOMS	18
19	HAND DRYER	--	20	1	0	500					1	20	PNON	PRINTER (NOTE 1)	20
21	HAND DRYER	--	20	1			0	1,200			1	20	PNON	COPIER (NOTE 2)	22
23	REC - COLL SERVICES AND TOOLS (NOT...	PREC	20	1					900	0	1	20	--	HVAC CONTROL	24
25	LAMINATOR (NOTE 2)	PNON	20	1	1,440	0					1	20	--	HVAC CONTROL	26
27	REC - STORAGE	PREC	20	1			900	920			1	20	PNON; PREC	REC, TV - BOARD ROOM (NOTE 2)	28
29	REC - OFFICE 230 (NOTE 2)	PNON; PREC	20	1					900	540	1	20	PNON; PREC	REC - BOARDROOM (NOTE 2)	30
31	REC - OFFICE 233 (NOTE 2)	PREC	20	1	1,080	920					1	20	PNON; PREC	REC, TV - MEETING 244 (NOTE 2)	32
33	REC - OFFICE 234 (NOTE 2)	PREC	20	1			900	720			1	20	PREC	REC - OFFICE 255 (NOTE 2)	34
35	REC - OFFICE 235 (NOTE 2)	PREC	20	1					900	860	1	20	PNON; PREC	REC - IT WORKSPACE 257 (NOTE 2)	36
37	REC - OFFICE 236 (NOTE 2)	PREC	20	1	900	860					1	20	PNON; PREC	REC - IT WORKSPACE 257 (NOTE 3)	38
39	REC - DIRECTORS OFFICE (NOTE 2)	PREC	20	1			720	480			1	20	PNON	FCU CONDENSATE PUMPS (NOTE 3)	40
41	REC - ASSISTANT OFFICE (NOTE 2)	PREC	20	1					900	480	1	20	PNON	FCU CONDENSATE PUMPS (NOTE3)	42
				TOTAL LOAD (VA):	8,760		9,440		8,900						
				TOTAL LOAD (A):	73		79		74						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
PNON	6,220 VA	100.00%	6,220 VA		
PREC	20,880 VA	73.95%	15,440 VA	CONNECTED:	27,100 VA
				CALCULATED DEMAND:	**21,660 VA**
				CONNECTED:	75 A
				CALCULATED DEMAND:	**60 A**

NOTES:
1. EXISTING CIRCUIT TO BE REUSED FOR NEW LOAD.
2. EXISTING SPARE TO BE REUSED FOR NEW LOAD.
3. PROVIDE 20A/1P CIRCUIT BREAKER FOR NEW LOAD.

PANELBOARD: PANEL F (SECT. 2) (BEFORE)

LOCATION: WORKROOM 243 | **VOLTS:** 208/120 Wye | **A.I.C. RATING:** 22,000 A
SUPPLY FROM: | **PHASES:** 3 | **BUS RATING:** 400 A
MOUNTING: FLUSH | **WIRES:** 4 | **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 | **SUB FEED LUGS:** No | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	REC - MENDRY (NOTE 1)	--	20	1	0	0					1	20	--	FLOOR BOXES (NOTE 1)	2
3	REC - MENDRY (NOTE 1)	--	20	1			0	0			1	20	--	FLOOR BOXES (NOTE 1)	4
5	REC - COMPUTER ROOM (NOTE 1)	--	20	1					0	0	1	20	--	FLOOR BOXES (NOTE 1)	6
7	REC - COMPUTER ROOM (NOTE 1)	--	20	1	0	0					1	20	--	REC - IC COMPUTER ROOM	8
9	REC - COMPUTER ROOM (NOTE 1)	--	20	1			0	0			1	20	--	FLOOR BOXES (NOTE 1)	10
11	REC - MENDRY (NOTE 1)	--	20	1					0	0	1	20	--	FLOOR BOXES (NOTE 1)	12
13	REC - MENDRY (NOTE 1)	--	20	1	0	0					2	20	--	UPS - COMPUTER ROOM	14
15	SPARE	--	20	1			0	0							16
17	SPARE	--	20	1					0	0	1	20	--	WATER HEATER - RESTROOMS	18
19	HAND DRYER	--	20	1	0	0					1	20	--	PRINTER - COMPUTER ROOM	20
21	HAND DRYER	--	20	1			0	0			1	20	--	SPARE	22
23	SPARE	--	20	1					0	0	1	20	--	HVAC CONTROL	24
25	SPARE	--	20	1	0	0					1	20	--	HVAC CONTROL	26
27	REC (NOTE 1)	--	20	1			0	0			1	20	--	SPARE	28
29	REC (NOTE 1)	--	20	1					0	0	1	20	--	REC - OFFICE 100 (NOTE 1)	30
31	REC (NOTE 1)	--	20	1	0	0					1	20	--	FLOOR BOXES (NOTE 1)	32
33	REC (NOTE 1)	--	20	1			0	0			1	20	--	SPARE	34
35	SPARE	--	20	1					0	0	1	20	--	SPARE	36
37	SPARE	--	20	1	0	0									38
39	REC (NOTE 1)	--	20	1			0	0			3	100	--	HVAC - HP-1 (NOTE 2)	40
41	SPARE	--	20	1					0	0					42
				TOTAL LOAD (VA):	0		0		0						
				TOTAL LOAD (A):	0		0		0						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
				CONNECTED:	0 VA
				CALCULATED DEMAND:	**0 VA**
				CONNECTED:	0 A
				CALCULATED DEMAND:	**0 A**

NOTES:
1. CIRCUIT MADE SPARE AFTER DEMOLITION.
2. REMOVE EXISTING CIRCUIT BREAKER AFTER DEMOLITION.

PANELBOARD: PANEL X (AFTER)

LOCATION: (E) MECHANICAL ROOM 33 | **VOLTS:** 208/120 Wye | **A.I.C. RATING:** 22,000 A
SUPPLY FROM: | **PHASES:** 3 | **BUS RATING:** 100 A
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 | **SUB FEED LUGS:** No | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	1ST FLOOR	--	20	1	0	55					1	20	LTG	LTG - GROUND FLOOR (NOTE 1)	2
3	LTG - SECOND FLOOR (NOTE 1)	LTG	20	1			20	0			1	20	--	UPS	4
5	CARD READERS - GROUND FLOOR	--	20	1					0	170	1	20	LTG	LTG - ELEVATOR (NOTE 1)	6
7	LTG - BOILER ROOM	--	20	1	0	0					1	20	--	CARD READERS - 1ST FLOOR	8
9															10
11															12
13															14
15															16
17															18
19						0					1	20	--	LTG - CHILDRENS LIBRARY	20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
				TOTAL LOAD (VA):	55		20		170						
				TOTAL LOAD (A):	1		0		1						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
LTG	245 VA	125.00%	307 VA		
				CONNECTED:	245 VA
				CALCULATED DEMAND:	**307 VA**
				CONNECTED:	1 A
				CALCULATED DEMAND:	**1 A**

NOTES:
1. MODIFY EXISTING CIRCUIT TO INCLUDE NEW LOAD.

PANELBOARD: PANEL X (BEFORE)

LOCATION: (E) MECHANICAL ROOM 33 | **VOLTS:** 208/120 Wye | **A.I.C. RATING:** 22,000 A
SUPPLY FROM: 2DP | **PHASES:** 3 | **BUS RATING:** 100 A
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS TYPE:** MLO
ENCLOSURE: NEMA-1 | **SUB FEED LUGS:** No | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	LOAD CLASS.	TRIP (A)	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP (A)	LOAD CLASS.	CIRCUIT DESCRIPTION	CKT
1	1ST FLOOR	--	20	1	0	0					1	20	--	LTG - GROUND FLOOR	2
3	MEZZANINE	--	20	1			0	0			1	20	--	UPS	4
5	CARD READERS - GROUND FLOOR	--	20	1					0	0	1	20	--	LTG - ELEVATOR	6
7	LTG - BOILER ROOM	--	20	1	0	0					1	20	--	CARD READERS - 1ST FLOOR	8
9															10
11															12
13															14
15															16
17															18
19						0					1	20	--	LTG - CHILDRENS LIBRARY	20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
				TOTAL LOAD (VA):	0		0		0						
				TOTAL LOAD (A):	0		0		0						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED DEMAND	PANEL TOTALS	
				CONNECTED:	0 VA
				CALCULATED DEMAND:	**0 VA**
				CONNECTED:	0 A
				CALCULATED DEMAND:	**0 A**

NOTES:

PANEL F (SECT. 2) AFTER	PANEL F (SECT. 2) BEFORE
PANEL X AFTER	PANEL X BEFORE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

PANEL SCHEDULES - ELECTRICAL

E807

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/30/2025 2:55:54 PM

LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

Administered by: ©2026 NEEA, All rights reserved

Project & Applicant Information		
	Project Title	BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2 - 2021 WSEC
	Project Address	210 Central Ave Bellingham, WA 98225
	Applicant Name	Marin Nagle
	Applicant Phone	206-254-2031
	Applicant Email	mnagle@millerhull.com

For Building Department Use: **Date: Aug 27, 2026**

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial		**General Building Use Type**	Public Services, Library	**Building Cond. Floor Area**	14,398
General Project Types	Alteration Change in Space Conditioning (Semi-heated converted to Fully Conditioned)	**New Building or Addition Lighting Scope**	**Alteration Lighting Scope**	Interior Lighting	**Project Cond. Floor Area** **Floors Above Grade** **Compliance Method**	14,398 3 General Prescriptive
Lighting Project Description						

Lighting Compliance Scope and Method	**Project Type**	**Interior / Exterior (Interior includes both interior & parking)**	**Luminaire Replacement Scope**	**Compliance Method**	**LPA Calculation Adjustment**	**Compliance Verification**
	Alteration	Interior Lighting	20% or more replaced	Building area	No Calculation Adjustments allowed	**COMPLIES**
	Change in Space Conditioning	Interior Lighting		Building area	Reduced lighting power density option - 20%	**COMPLIES**
Additional Energy Efficiency (AEC) Measures Included	Reduced lighting power density - 20% lower than LPA		**Load Management (LDM) Measures Included**		No lighting or electrical load management measures included in project	

Project Title	BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2 - 2021 WSEC	**Date**	**Aug 27, 2026**
Lighting Power Calculation	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**	**Compliance Verification**	**COMPLIES**
Compliance Method	**Building area**	**LPA Calculation Adjustment**	**none**

Interior Lighting Power Allowance - Building Area

Building Areas	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts By Building Area	Compliance Status by Building Area
Library	14,398	0.83	11,950	7,752	COMPLIES

Proposed Lighting Power Density

Fixture Type/Application	Fixture ID	Building Area	New or Existing-to-Remain	Quantity of Fixtures, CLDs or Luminaires (#F)	Watts per Fixture, CLD or Luminaire (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures								
Decorative	L13	Library	New	22	13			293
Troffer	L1	Library	New	133	19			2,527
Troffer	L1A	Library	New	142	19			2,698
Troffer	L8	Library	New	8	47			376
Troffer	L2	Library	New	2	42			84
Recessed downlight	L5	Library	New	17	16			272
Recessed downlight	L14	Library	New	9	16			144
Recessed downlight	L9A	Library	New	1	44			44

Linear Fixtures								
LED strip	L12	Library	New	2	85			170
Other linear fixture type	L9	Library	New	3	107			321
Other linear fixture type	L4	Library	New	12	59			712
Other linear fixture type	L3	Library	New	7	16			111

Project Title	BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2 - 2021 WSEC	**Date**	**Aug 27, 2026**
Proposed Fixtures Details	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**		

Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	Building Area	New or Existing-to-Remain
Individual Fixtures					
Decorative	L13	E101	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Troffer	L1	E101, E121, E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Troffer	L1A	E101, E121, E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Troffer	L8	E121		Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Troffer	L2	E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Recessed downlight	L5	E101, E121, E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Recessed downlight	L14	E101, E121, E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Recessed downlight	L9A	E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Linear Fixtures					
LED strip	L12	E131	LED	Library	New
	How is linear fixture quantity defined?: Quantity of fixtures with current limiting device			Length of track (LT):	
	Fixture Description:			Are these fixtures located within a daylight zone?: Yes, controls provided	
	Daylight zone location(s): Toplit daylight zones			Do these fixtures require specific application lighting controls?:	
Other linear fixture type	L9	E131	LED	Library	New
	How is linear fixture quantity defined?: Quantity of fixtures with current limiting device			Length of track (LT):	
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Other linear fixture type	L4	E101	LED	Library	New
	How is linear fixture quantity defined?: Quantity of fixtures with current limiting device			Length of track (LT):	
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Other linear fixture type	L3	E101, E121, E131	LED	Library	New
	How is linear fixture quantity defined?: Quantity of fixtures with current limiting device			Length of track (LT):	
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				

Project Title	BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2 - 2021 WSEC	**Date**	**Aug 27, 2026**
Lighting Power Calculation	**CHANGE IN SPACE CONDITIONING - INTERIOR LIGHTING**	**Compliance Verification**	**COMPLIES**
Compliance Method	**Building area**	**LPA Calculation Adjustment**	**LPA x 0.8**

Interior Lighting Power Allowance - Building Area

Building Areas	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 0.8)	Total Proposed Watts By Building Area	Compliance Status by Building Area
Library	14,398	0.83	9,560	7,749	COMPLIES

Proposed Lighting Power Density

Fixture Type/Application	Fixture ID	Building Area	New or Existing-to-Remain	Quantity of Fixtures, CLDs or Luminaires (#F)	Watts per Fixture, CLD or Luminaire (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures								
Decorative	L13	Library	New	22	13			293
Troffer	L1	Library	New	133	19			2,527
Troffer	L1A	Library	New	142	19			2,698
Troffer	L8	Library	New	8	47			376
Troffer	L2	Library	New	2	42			84
Recessed downlight	L5	Library	New	17	16			272
Recessed downlight	L14	Library	New	9	16			144
Recessed downlight	L9A	Library	New	1	44			44
Linear Fixtures								
LED strip	L12	Library	New	2	85			170
Other linear fixture type	L9	Library	New	3	107			321
Other linear fixture type	L4	Library	New	12	59			708
Other linear fixture type	L3	Library	New	7	16			112

Project Title	BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2 - 2021 WSEC	**Date**	**Aug 27, 2026**
Proposed Fixtures Details	**CHANGE IN SPACE CONDITIONING - INTERIOR LIGHTING**		

Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	Building Area	New or Existing-to-Remain
Individual Fixtures					
Decorative	L13	E101	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Troffer	L1	E101, E121, E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Troffer	L1A	E101, E121, E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Troffer	L8	E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Troffer	L2	E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Recessed downlight	L5	E101, E121, E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	

	Do these fixtures require specific application lighting controls?:				
Recessed downlight	L14	E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Recessed downlight	L9A	E131	LED	Library	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Linear Fixtures					
LED strip	L12	E131	LED	Library	New
	How is linear fixture quantity defined?: Quantity of fixtures with current limiting device			Length of track (LT):	
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Other linear fixture type	L9	E101, E121, E131	LED	Library	New
	How is linear fixture quantity defined?: Quantity of fixtures with current limiting device			Length of track (LT):	
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Other linear fixture type	L4	E101	LED	Library	New
	How is linear fixture quantity defined?: Quantity of fixtures with current limiting device			Length of track (LT):	
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Other linear fixture type	L3	E101, E121, E131	LED	Library	New
	How is linear fixture quantity defined?: Quantity of fixtures with current limiting device			Length of track (LT):	
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CODE COMPLIANCE - ELECTRICAL

E901

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Reno_MEPT23.rvt
8/26/2026 2:53:13 PM

Lighting, Motor and Electrical Requirements List, pg 1 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA, All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

Project:
BELLINGHAM CENTRAL LIBRARY RENOVATION PHASE 2 - 2021 WSEC
210 Central Ave
Bellingham, WA 98225

Date: 2026-08-27

Applies	Code Section	Component	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
LIGHTING SCOPE					
	C103.1	Construction documents - General	For a shell & core or tenant space (first build-out) project, indicate if there is no lighting scope included in the project.		
NA	C103.1	Construction documents - General	For an alteration project, indicate if there is no lighting scope included in the project.		
	C405.1	Lighting in sleeping units	Indicate general compliance path for permanently installed luminaires in sleeping units - vacancy controls & luminaire efficacy; or lighting power allowance.		
INTERIOR LIGHTING CONTROLS					
YES	C405.2	Interior lighting controls, general	For all interior lighting systems, indicate lighting control method (general lighting controls requirements or luminaire level lighting controls) on plans for all spaces and lighting zone(s) served; indicate exceptions applied to eligible spaces and light	E101, E121, E131	
YES	C405.2.3	Manual controls	Indicate on plans the method of manual lighting control, location of manual control device and the area or specific application it serves.	E101, E121, E131	
YES	C405.2.4 C405.2.4.1	Manual interior light reduction controls	For general lighting not controlled by occupancy sensors, indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception.	E101, E121, E131	
YES	C405.2.1 C405.2.2	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor or time switch) for all lighting zones.	E101, E121, E131	
YES	C405.2.1	Occupant sensor controls	Indicate on plans all luminaires that are controlled by occupant sensor controls; indicate controls are configured to turn luminaires 100% off when the space is unoccupied	E101, E121, E131	
YES	C405.2.1 C405.2.1.1	Occupant sensor controls	Indicate if occupant sensor controls are configured to be manual on or automatic on to not more than 50% power; indicate spaces eligible for exception that allows automatic on to 100% power.	E003, E101, E121, E131	
YES	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate each aisleway within a warehouse or library stack space designated as a separate zone that is independently controlled	E003, E101, E121, E131	

Lighting, Motor and Electrical Requirements List, pg 2 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA, All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

YES			Indicate occupant sensors are configured to automatically reduce lighting power by ≥ 50% when the zone is unoccupied for over 20 minutes; indicate controls are configured to automatically restore lighting to full power when the zone or space is occupie	E003, E101, E121, E131	
YES	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate method of automatic 100% shut-off (occupancy sensor or time switch)	E003, E101, E121, E131	
YES	C405.2.1.3	Occupant sensor controls - open plan office areas	For open plan office areas larger than 300 sf, indicate all general lighting control zones are ≤ 600 sf	E003,E101, E121, E131	
YES	C405.2.1.3	Occupant sensor controls - open plan office areas	Indicate all general lighting control zones are provided with vacancy controls that are configured to reduce lighting power by not less than 80% when the zone is unoccupied and turn luminaires 100% off when the control zone is unoccupied; indicate unoccup	E003,E101, E121, E131	
NA	C405.2.1.4	Occupant sensor controls - enclosed fire-rated stairwells	Indicate stairway lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the stairway in unoccupied and restore lighting to 100% when it is occupied.		
YES	C405.2.1.5	Occupant sensor controls - corridors	Indicate corridor lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the corridor is unoccupied.	E003,E101, E121, E131	
NA	C405.2.2.1	Automatic time switch controls	Indicate spaces on plans where time switch controls are configured to turn luminaires 100% off during unoccupied hours		
NA			Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% power		
NA			Indicate locations of override switches on plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceed 5,000 sf.		
YES	C405.2.5.2 C405.2.5.4	Daylight zones - Sidelit zones	Indicate primary and secondary sidelit daylight zone floor areas on plans	E131	
NA			For small vertical fenestration assemblies (rough opening less than 10% of primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone floor area calculation(s).		
YES			Indicate toplit daylight zone floor areas on plans.	E131	
YES	C405.2.5 C405.2.5.1	Daylight responsive controls	Indicate on plans all lighting zone(s) served by daylight responsive controls; indicate that the area served by each control device does not exceed 2,500 SF	E131	

Lighting, Motor and Electrical Requirements List, pg 3 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA, All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

NA			Identify sidelit and toplit daylight zones that are not provided with daylight responsive controls and the exception(s) that apply	E003	
YES	C405.2.5.1	Daylight responsive controls	Indicate on plans that all daylight responsive controls provide continuous dimming to ≤15% full light output	E003	
YES	C405.2.5.1	Daylight responsive controls	Indicate that daylight responsive controls are configured to completely shut off all controlled lighting fixtures within the lighting zone.		
NA	C405.2.6	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section.		
NA	C405.2.6, Items 1.1 thru 1.6	Additional lighting controls for display, accent & supplemental task lighting	Indicate on plans that all display, accent and supplemental task lighting fixtures are controlled independently from general area lighting		
YES	C405.2.6, Items 1.1 and 1.2	Display and accent lighting	For display and accent lighting fixtures, including lighting fixtures added per the C405.2.2.1 additional interior lighting power allowance, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupanc	E101	
NA			For display case lighting fixtures, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
NA	C405.2.6, Item 1.4	Supplemental task lighting	For supplemental task lighting fixtures including under-shelf or under-cabinet lighting, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
NA	C405.2.6, Item 1.5	Lighting equipment for sale or demonstration	For lighting equipment for sale or demonstration, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
NA			For exhibit lighting fixtures in galleries, museums and monuments, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch).		
	C405.2.6, Item 2	Permanently installed lighting in sleeping units	Indicate method of automatic off control of all installed luminaires in sleeping units (vacancy or captive key card control); also refer to Receptacles.		

Lighting, Motor and Electrical Requirements List, pg 4 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA, All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

NA	C405.2.6, Item 3	Lighting for non-visual applications	For lighting serving non-visual applications (food warming and lighting for life support of nonhuman life forms), indicate on plans that lighting fixtures are controlled independently from both general area lighting and other lighting applications within		
NA			Indicate on plans separate manual controls for non-visual lighting application fixtures and applicable automatic lighting controls; indicate that the area served by each control device does not exceed 4,000 sf.		
NA			For task lighting that serves medical & dental purposes, indicate on plans that lighting fixtures are provided with manual control that is independent from general area lighting.		
YES	C405.2.6, Item 5	Means of egress lighting	Identify all means of egress lighting fixtures on plans including fixtures that function as both normal and emergency illumination	E003,E101, E121, E131	
YES			Provide calculation for total lighting power density (LPD) of all means of egress lighting fixtures; if total LPD is ≥ 0.01 Watts/SF, indicate on plans the method of automatic shut-off control during unoccupied periods (emergency relay & occupancy sens	E003,E101, E121, E131	
NA	C405.2.8	Advanced lighting controls in open office areas	For open office areas ≥ 5,000 sf, indicate which advanced lighting control system is provided (luminaire level lighting controls or networked lighting controls).		
	C405.2.8.1	Luminaire level lighting controls (LLLC)	Where LLLC are provided to comply with C405.2.8, or provided as the alternate lighting controls compliance method per C405.2, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required		
YES	C405.2.8.1 C405.2.8.3	Luminaire level lighting controls (LLLC)	Indicate on plans that each LLLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas) and continuous full range dimming controls to brighten or dim lights based on occupancy and availab	E003,E101, E121, E131	
NA	C405.2.8.2	Networked lighting control (NLC)	Where NLC are provided to comply with C405.2.8, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required NLC capabilities and performance parameters		
NA	C405.2.8.2 C405.2.8.3	Networked lighting control (NLC)	Indicate on plans that each NLC luminaire is individually addressable or document exception applied; Indicate on plans that each NLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas)		

Lighting, Motor and Electrical Requirements List, pg 5 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA, All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

NA	C405.8.3	High end trim	Where high end trim is required, luminaires shall be initially configured to limit maximum lumen output or lighting power to 85% or to the target design lighting power.		
INTERIOR LIGHTING CONTROLS - ADDITIONAL ENERGY EFFICIENCY MEASURE					
	C406.2.4.2	Enhanced digital interior lighting controls	To comply with the enhanced interior lighting controls measure, provide calculations that demonstrate that lighting in ≥ 50% of the project floor area is provided with LLLC (C405.2.8.1) or NLC (C405.2.8.2) controls with high end trim (C405.2.8.3) Where LLLC is provided, indicate on plans that each LLLC controlled luminaire is configured with integral sensors; where NLC is provided, indicate on plans that each NLC controlled luminaire is configured to be independently addressable; provide sequence		
NA	C406.2.4.1	Enhanced lighting controls in Group R-2	In Group R-2 occupancies, indicate on plans a master control at the main entrance to each dwelling or sleeping unit that switches off all lights and switched receptacles (may be two controls, one for lights and the other for receptacles); indicate on plan		
INTERIOR LIGHTING CONTROLS - LIGHTING LOAD MANAGEMENT MEASURE					
NA	C406.3.1	Interior lighting DDC controls & real-time demand response	To comply with the interior lighting load management measure, indicate automatic lighting controls are connected to a central DDC system capable of activation by an external utility signal; where utility real-time demand or pricing program exists, indicat		
YES	C406.3.1	Interior lighting power reduction controls	Indicate lighting controls are configured to gradually reduce by continuous dimming the interior general area lighting power by ? 20% in response to a peak demand signal; calculate the percentage of total building floor area served by load management ligh	E003,E101, E121, E131	
NA	C406.3.1	Warehouse & retail storage interior lighting power reduction controls	For warehouse & retail storage areas, indicate method of interior general area lighting power reduction (continuous dimming by ? 20%; switching off ? 25% of lighting power).		
EXTERIOR LIGHTING CONTROLS					
	C405.2.9 C405.2.9.1 C405.2.9	Exterior lighting controls	For all exterior lighting, indicate on plans automatic controls (either daylight sensing or astronomic time clock) configured to turn lighting off when daylight is present; or indicate exception applied. For exterior building facade & landscape lighting, indicate that controls are configured to turn this lighting off when daylight is present for a minimum of 6 hours per night, or from 1 hour after closing to 1 hour before opening per the occupancy schedul		

Lighting, Motor and Electrical Requirements List, pg 6 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA, All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

			For outdoor parking area (not parking garage) luminaires that are mounted ≤ 24 feet high and are rated at ≥ 40 watts, indicate that controls are configured to turn this lighting off when daylight is present; in addition, indicate controls are config For exterior lighting other than building facade, landscape and outdoor parking area lighting, indicate controls are configured to reduce lighting power by at least 50% from 12am-6am, or 1 hour after closing to 1 hour before opening, or when no activity i		
	C405.2.10	Parking garage lighting control	Indicate all interior parking garage lighting fixtures are provided with time switch controls (per C405.2.2.1) or occupancy sensor controls (per C405.2.1.1); indicate controls are configured to reduce lighting power by at least 30% when no activity is det		
	C405.2.10	Parking garage lighting control - Perimeter lighting zones	For parking garage lighting fixtures located within 20 feet of perimeter wall openings, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50%, or exception applied		
	C405.2.10	Parking garage lighting control - Eye adaptation lighting	For lighting fixtures at vehicle entrances & exits, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50% from sunrise to sunset.		
NA	C405.3	Lighting for plant growth and maintenance	For permanently installed lighting fixtures used specifically for plant growth and maintenance, indicate that the photosynthetic photon efficacy measured at the lamp or luminaire is ≥ 1.7 ï¿½mol/J in greenhouses and ≥ 1.9 ï¿½mol/J in all other indoo		
	C405.5.4	Exterior gas-fired lighting appliances	Indicate ignition system is a method other then continuously burning pilot light.		
INTERIOR & EXTERIOR LIGHTING CONTROL CIRCUITS					
YES	C405.2.7	Area controls - Master control switches	Indicate location(s) of lighting master control switch(es) intended to control multiple independent switches; a circuit breaker may not be used as a lighting master control switch	E003,E101, E121, E131	
YES			Verify the maximum power controlled by any single lighting control switch or automatic control device is no more than a 20 amp circuit loaded to ? 80%.	E801 - E807	
INTERIOR LIGHTING POWER & EFFICACY					
YES	C405.4.1	Total connected interior lighting power	Include all luminaires in interior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran	E003	

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
8/28/2026 2:55:44 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CODE COMPLIANCE - ELECTRICAL

E902

Lighting, Motor and Electrical Requirements List, pg 7 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA. All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

NA			Identify spaces eligible for lighting power exemption on plans and in WSEC interior lighting compliance reports; indicate the exception applied	
NA	C405.1.1	Lighting in dwelling units	Identify lighting equipment eligible for lighting power exemption in fixture schedule and in WSEC interior lighting compliance reports; indicate the exception applied. Include all permanently installed luminaires in dwelling units in interior lighting fixture schedule; include luminaire lighting power and efficacy (lumens) Include all permanently installed luminaires in sleeping units in interior lighting fixture schedule; include luminaire lighting power or efficacy (lumens) depending on compliance path taken per C405.1	
NA			For all permenantly installed luminaires, indicate in interior lighting fixture schedule that rated lamp efficacy is ≥ 65 lumens/watt or luminaire efficacy is ≥ 45 lumens/watt.	
YES	C405.4.2	Interior lighting power allowance (LPA)	Indicate which interior LPA method is applied to the entire building (Building Area Method or Space-by-Space Method); indicate LPA applied is Space-by-Space Method for partial building projects and for buildings with unfinished spaces.	E901
INTERIOR LIGHTING POWER CALCULATION - INDICATE COMPLIANCE PATH TAKEN				
YES	C405.4.2.1	Building Area Method	Demonstrate that total proposed interior lighting wattage per building does not exceed the sum of the maximum allowed wattages for all building area types; identify locations of building areas on plans; provide WSEC interior lighting compliance reports.	E-901
NA	C405.4.2.2	Space-By-Space Method	Demonstrate that total proposed interior lighting wattage does not exceed the maximum allowed wattage; identify locations of space types on plans, including additional allowance retail display areas and areas with display, highlight and decorative lightin	
INTERIOR LIGHTING POWER & EFFICACY - ADDITIONAL ENERGY EFFICIENCY MEASURES				
YES	C406.2.3.1 C406.2.3.2	Reduced interior lighting power density (LPD)	To comply with the reduced interior LPD additional energy efficiency measure, demonstrate that total proposed interior LPD wattage is 10% or 20% lower than the total interior LPA wattage for the area the reduced lighting power measure is being applied to	E-901

Lighting, Motor and Electrical Requirements List, pg 8 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA. All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

	C406.2.3.3	Reduced interior LPD - Dwelling & sleeping unit lamp efficacy	To comply with reduced interior LPD additional energy efficiency measure for a building with dwelling units or sleeping units, indicate in interior lighting fixture schedule that all permenantly installed luminaires have a rated lamp efficacy ≥ 90 lume	
EXTERIOR LIGHTING POWER & EFFICACY				
	C405.5.2	Total connected exterior lighting power	Include all luminaires in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran Identify exterior lighting applications eligible for lighting power exemption on plans and in WSEC exterior lighting compliance reports; indicate the exception applied.	
	TABLE C405.5.3(1)	Exterior lighting zone	Indicate the building exterior lighting zone as specified by the AHJ.	
	C405.5.1	Exterior building grounds lighting	For building grounds lighting fixtures rated at greater than 25 watts, indicate in exterior lighting fixture schedule that fixtures have a rated lamp efficacy ≥ 100 lumens/watt or indicate the exception applied.	
EXTERIOR LIGHTING POWER CALCULATION				
	C405.5.3	Exterior lighting power allowance (LPA)	Demonstrate that total proposed exterior surface lighting wattage does not exceed the maximum allowed wattage (including base site allowance); identify locations of exterior surfaces on plans; provide WSEC exterior lighting compliance reports Demonstrate that total proposed wattage for each additional allowance exterior surface type does not exceed the LPA for the surface type (includes base site allowance remaining after C405.5.3 LPA calculation); identify locations of additional allowance ex	
LIGHTING SYSTEMS ALTERATIONS				
YES	C503.7.1	New lighting systems and controls	Where new interior or exterior lighting systems are installed within an existing building site, indicate new lighting controls comply with C405.2; indicate commissioning of lighting controls (C408.4) and lighting system energy end-use metering (C409.3) wi	E003,E101, E121, E131
YES	C503.7.2	Interior lighting & parking garage lighting alteration	Include all new luminaires in interior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.4.1 and C405.4.2	E003,E101, E121, E131

Lighting, Motor and Electrical Requirements List, pg 9 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA. All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

			For alterations that add or replace ≥ 20% of luminaires within an interior space or parking garage, indicate which interior lighting power allowance (LPA) method is applied to the alteration project area (Space-by-Space Method for partial building alte Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of the maximum allowed wattages for	
NA	C503.7.2	Interior lighting alterations (LPA) - Add/replace	For alterations that add or replace < 20% of luminaires in an interior space or parking garage, calculate total existing interior lighting wattage within the project area prior to the alteration	
YES	C503.7.2	Interior lighting alterations (LPD) - Add/replace	Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the total existing interior lighting wattage prior to the alteration; provide WSEC interior lighti Include all new luminaires in exterior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.5.2	E003,E101, E121, E131
	C503.7.2	Exterior lighting alterations (LPA) - Add/replace &ge 20%	For alterations that add or replace ≥ 20% of exterior lighting wattage, indicate exterior lighting power allowance (LPA) calculated in the same manner as for new construction	
	C503.7.2	Exterior lighting alterations (LPD) - Add/replace &ge 20%	Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the maximum allowed wattage; identify locations of surface types on plans, including additional allowance surfaces; provide WSEC exte	
	C503.7.2	Exterior lighting alterations (LPA) - Add/replace	For alterations that add or replace < 20% of exterior lighting wattage, calculate total existing exterior lighting wattage prior to the alteration	
	C503.7.2	Exterior lighting alterations (LPD) - Add/replace	Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the total existing exterior lighting wattage prior to the alteration; identify locations of surface types on plans, including additio	
YES	C503.7.3	Interior lighting wiring & circuiting alterations	Where new wiring is installed to serve new interior luminaires and /or luminaires are relocated to a new circuit; indicate manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.2.3 & C405.2.4); occupancy sens	E003,E101, E121, E131

Lighting, Motor and Electrical Requirements List, pg 10 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA. All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

			Where new wiring is installed to serve new exterior luminaires and /or luminaires are relocated to a new circuit; indicate circuit power area controls (C405.2.7) are provided; indicate commissioning of exterior lighting controls (C408.4) will be provided,	
	C503.7.4	Lighting panel alterations	Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (including all new raceway and conductor wiring), indicate all of the same interior lighting controls requirements as for wiring & circuiting alterations apply,	
	C503.7.5	Newly-created rooms	Where interior space(s) are reconfigured (permanently installed walls or ceiling-height partitions) to create new enclosed spaces, indicate the following manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.	
NA	C504.2	Lighting repairs	Identify existing luminaires being upgraded with bulb and / or ballast replacement; indicate fixture alteration does not increase existing fixture wattage	
NA	C505.1	Change of interior space use	Identify spaces on plans where the building area type or space use type is being changed from one type to another per Tables C405.4.2(1) or (2) including additional allowance retail display areas and areas with display, highlight and decorative lighting	
YES			Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of maximum allowed wattage per each	E003,E101, E121, E131, E901
RECEPTACLES				
NA	C405.10	Automatic receptacle control	Provide schedule on electrical plans that lists the number of controlled and uncontrolled receptacles in each space where controlled receptacles are required - classrooms, enclosed offices, conference rooms, copy/print rooms, break rooms and individual wo	
YES			Identify all controlled and uncontrolled receptacles on electrical plans; indicate that ≥ 50% of all receptacles are provided with automatic controls in each space where they are required; include receptacle configuration such as spacing between contro	E201, E211, E221, E231, E241
YES			Indicate on plans the method of automatic control for each controlled receptacle zone (occupant sensor or programmable time-of-day control); indicate that the area served by each control device does not exceed 5,000 sf.	E201, E211, E221, E231, E241

Lighting, Motor and Electrical Requirements List, pg 11 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA. All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

	C405.2.6, Item 2	Switched receptacles in sleeping units	Indicate method of automatic off control of all switched receptacles in sleeping units (vacancy or key card control).	
NA	C405.7.1	Electric receptacles at dwelling unit gas appliances	In all designated appliance locations within dwelling units (kitchen cooking appliances, laundry and domestic water heating), indicate electric receptacles or junction box & circuit within 12 inches of the appliance location with sufficient capacity to se	
YES	C503.7.7	Electrical receptacle alerations	For alteration project areas ≥ 5,000 sf where electric receptacles are added or replaced, indicate receptacles are provided with automatic controls per C405.10, or exception applied.	E201, E211, E221, E231, E241
ELECTRIC MOTORS				
YES	C405.8	Electric motor efficiency	Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate motor type, horsepower, rpm, rated efficiency, or exception applied.	E004, E005
ELEVATORS, ESCALATORS & MOVING WALKS				
	C405.9.1	Elevator cabs	For luminaires in each elevator cab, provide calculations that demonstrate average efficacy is not less than 35 lumens per watt	
			For elevators that do not have an integral air conditioning system, indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm	
			Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more.	
	C405.9.2	Escalators and moving walks	Indicate escalators and moving walks comply with ASME A17.1/CSA B44 and are provided with automatic controls that are configured to reduce operational speed to the minimum permitted when not in use, or exception applied.	
	C405.9.3	Escalator energy recovery	Indicate escalators are designed to recover electrical energy when resisting overspeed in the down direction.	
RENEWABLE ENERGY				
NA	C411	Renewable Energy	For new construction, including additions, change of use, and change of occupancy, with floor area ≥ 10000sf; provide documentation of on-site renewable energy capacity; provide calculations supporting applicable exceptions; if qualifying by exception provide an accounting for the additional Additional Energy Efficiency Credits that will be required	

Lighting, Motor and Electrical Requirements List, pg 12 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA. All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

RENEWABLE ENERGY - ADDITIONAL ENERGY EFFICIENCY MEASURE				
NA	C406.2.5	On-site and off-site renewable energy	To comply with the renewable energy measure, provide an accounting of on-site and any contracted off-site renewable energy capacity; for all off-site sources, indicate the C411.2 renewable energy source type, energy factor, and the rated capacity and calculated code credited kW; indicate on-site renewables used to comply with C411 or for a code exception elsewhere in the code; with the remaining renewable energy provide Equation 4-17 calculations showing the achieved credits and that the achieved credits are ? the base credits for the measure	
NA	C406.2.5	On-site and off-site renewable energy	Provide documentation that all off-site renewable energy systems comply with Sections C411.2.2 and C411.2.3 including all contracts, and the ownership and location of off-site generation	
ELECTRIC ENERGY STORAGE - LOAD MANAGMENT MEASURE				
NA	C406.3.4	Electric energy storage	To comply with the electrical energy storage load managment measure, indicate automatic controls shall store electricity in electric storage devices during nonpeak periods and use stored energy during peak periods; Document the total electric storage device capacity; indicate it is ? 5 Wh/sf (58 Wh/sm) of gross building area; for proration provide the proration calculations supporting the claimed credit	
GENERAL ELECTRICAL SYSTEMS				
YES	C405.6	Electrical transformers	Include electrical transformer schedule on electrical plans; indicate transformer type, size (kVA), efficiency, or exception applied.	E201, E211, E221, E231, E241, E701
	C405.7	Dwelling unit electrical energy consumption	Indicate on electrical plans that each dwelling unit in a Group R-2 building has a separate electrical energy meter, or exception applied.	
YES	C405.11	Voltage drop	Indicate wire conductors are sized so that the maximum voltage drop from customer service conductors to branch circuit conductors is &le 5%.	E701
NA	C405.12	Alternating current-output uninterruptible power supplies (AC-output UPS)	Indicate in plans that AC-output UPS systems serving computer rooms meet or exceed the calculation and testing requirements identified in ENERGY STAR Program Requirements for Uninterruptible Power Supplies (UPS) ? Eligibility Criteria Version 2.0.	
COMMISSIONING (CX)				

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CODE COMPLIANCE - ELECTRICAL

E903

Autodesk Docs://23-1065 - City of Bellingham Cert Lib Renov/23-1065 - City of Bellingham Cert Lib Renov_MEP25.rvt
9/28/2026 2:51:29 PM

Lighting, Motor and Electrical Requirements List, pg 13 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2026 NEEA, All rights reserved

The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

YES	C408.4	Scope of electrical power & lighting systems commissioning	Indicate that all electrical systems (receptacles, transformers, motors, vertical & horizontal transportation) for which the WSEC requires control functions and/or configuration to perform specific functions are required to be commissioned; include docume	ALL
YES			Where total building lighting load is ≥ 10 kW or the total lighting load of luminaires requiring daylight sensing and/or occupancy control is ≥ 5 kW, indicate that all automatic lighting control systems are required to be commissioned; or provide ca	ALL
YES	C408.1.1	Commissioning requirements in construction documents	Indicate Cx requirements in plans and specifications for all applicable electrical and lighting control systems	ALL
YES	C408.1.2 C103.6.3	Commissioning requirements in construction documents	General summary of Cx plan shall include the following: 1) Narrative description of activities; 2) Responsibilities of the Cx team; 3) Schedule of activities including verification of project close out documentation (C103.6); 4) Conflict of interest plan	ALL
YES	C408.1.3 C408.1.4	Commissioning requirements in construction documents	Include in general summary that a Cx project report and Cx Compliance Checklist (Figure C408.1.4.1) shall be completed by the Certified Cx Professional and provided to the owner prior to the final electrical inspection.	ALL
YES	C408.4.1	Functional performance testing criteria	Identify in plans and specifications the intended operation of all electrical equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems.	ALL
PROJECT CLOSE OUT				
YES	C103.6.3	Documentation requirements	Indicate in plans that project close out documentation is required; indicate information shall include WSEC lighting compliance reports that document all interior lighting areas and space types, exterior lighting surface types, interior/exterior lighting	ALL

If "no" is selected for any question, provide explanation.

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/16/2026 2:53:37 PM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

CODE COMPLIANCE - ELECTRICAL

E904

AV SYSTEMS RACK MOUNT EQUIPMENT

	ASSISTIVE LISTENING TRANSMITTERS (ALS-TMX)
	OPTICAL MEDIA PLAYERS (BLU-RAY/DVD) (AVC-BLR)
	CATV/MATV TUNERS (AVC-TNR)
	CONTROL PROCESSORS (AVC-CNP)
	DIGITAL SIGNAL PROCESSORS (AUD-DSP)
	PATCH PANELS (PROVIDE CONFIGURATION AS SPECIFIED/NOTED ON DRAWINGS)
	PRESENTATION SWITCHERS (AVC-SWT-A)
	PRESENTATION SWITCHERS WITH INTEGRALCONTROL PROCESSOR/AMPLIFIER
	PRESENTATION MATRIX SWITCHERS WITH INTEGRAL CONTROL PROCESSOR/AMPLIFIER (AVC-MTX-A)
	MODULAR MATRIX SWITCHERS (AVC-MTX-B)
	SPEAKER POWER AMPLIFIERS (AUD-AMP)
	VIDEO TELECONFERENCING CODECS (VTC-COD)
	WIRELESS PRESENTATION RECEIVERS (AVC-WRL)

SECURITY

S, A, B	DOOR REQUIRING ELECTRONIC SECURITY: "101" INDICATES DOOR NUMBER, "A" AND "B" INDICATES SECURED/NON-SECURED SIDES OF DOOR. SEE SCHEDULE FOR ADDITIONAL REQUIREMENTS.
CR B,P,M	CREDENTIAL READER: "B" COMBINATION BIOMETRIC AND CARD READER, "P" COMBINATION KEYPAD AND CARD READER, "B,P" COMBINATION BIOMETRIC/KEYPAD/CARD READER, "M" MAG-STRIPE READER
CR	CREDENTIAL READER, WIRELESS
PIM	WIRELESS PANEL INTERFACE MODULE
VP	VEHICLE CREDENTIAL READER
OB	DOOR OPERATOR (ADA) BUTTON
RB	DOOR RELEASE BUTTON
	DOOR CONTACT
KP I,A	KEYPAD: "I" INTRUSION ALARM, "A" ACCESS CONTROL
DB W,D	DURESS ALARM BUTTON: WALL, UNDER DESK/COUNTER
MS MS	MOTION SENSOR: WALL, CEILING
GB GB	GLASS BREAK DETECTOR: WALL, CEILING
	STROBE: WALL, CEILING
S S	SPEAKER: WALL, CEILING
S	SURVEILLANCE CAM., FIXED: WALL, POLE/PARAPET, CEILING
S	SURVEILLANCE CAM., PTZ: WALL, POLE/PARAPET, CEILING
S	SURVEILLANCE CAM., MULTI-SENSOR: WALL, POLE/PARAPET, CEILING
CAM:E - #	CAMERA TYPE AND NUMBER. SEE SCHEDULE FOR ADDITIONAL REQUIREMENTS.

STRUCTURED CABLING LEGEND

XXXXXX XXX
- XXX — QTY OF CABLES
- XXXXXX — CABLE TYPE

BTP ### 24	BALANCED TWISTED PAIRS (### - QTY OF PAIRS)
CAT6	CAT6 (UTP)
CAT6 S1	CAT6 (F/UTP)
CAT6 S2	CAT6 (S/FTP)
CAT6A	CAT6A (UTP)
CAT6A S1	CAT6A (F/UTP)
CAT6A S2	CAT6A (S/FTP)
CX RG#	COAXIAL (RG## - TYPE)
OS1 ###	SINGLE MODE OFC (OS1) (TIGHT BUFFERED) (### - QTY OF STRANDS)
OS2 ###	SINGLE MODE OFC (OS2) (LOOSE TUBE) (### - QTY OF STRANDS)
OM1 ###	MULTIMODE OFC (OM1) (### - QTY OF STRANDS)
OM2 ###	MULTIMODE OFC (OM2) (### - QTY OF STRANDS)
OM3 ###	MULTIMODE OFC (OM3) (### - QTY OF STRANDS)
OM4 ###	MULTIMODE OFC (OM4) (### - QTY OF STRANDS)
OM5 ###	MULTIMODE OFC (OM5) (### - QTY OF STRANDS)

RACK MOUNT EQUIPMENT

	CABLE MANAGEMENT PANELS (2RU SHOWN FOR REFERENCE, PROVIDE SIZE AS SHOWN ON RACK ELEVATIONS)
	CABLE PASS-THROUGH PANELS (BRUSHED GROMMETS) (2RU SHOWN FOR REFERENCE, PROVIDE SIZE AS SHOWN ON RACK ELEVATIONS)
	SHELVES
	DRAWERS
	BLANK PANELS, SOLID
	BLANK PANELS, VENTED
	ACTIVELY VENTED PANELS (POWERED)
	POWER DISTRIBUTION UNITS (PDUs)
	POWER CONDITIONERS/SURGE SUPPRESSORS
	UNINTERRUPTIBLE POWER SUPPLIES (UPS)
	SERVERS
	OTHER RACK MOUNT EQUIPMENT (AS NOTED)
XXX	RESERVED SPACE (AS NOTED)
	24 PORT 1RU COPPER PATCH PANELS
	48 PORT 2RU COPPER PATCH PANELS
	RACK MOUNTED ANALOG PUNCHDOWN BLOCKS
	FIBER OPTIC DISTRIBUTION UNITS (FDU)
	ETHERNET SWITCHES
	MODULAR ETHERNET SWITCHES

AUDIOVISUAL

CP#	CONTROL PANEL
MP#	MEDIA INPUT/OUTPUT PLATE OR DEVICE
EB#	EQUIPMENT BOX
TB#	TABLE BOX
M#	MICROPHONE
WR	WIRELESS MICROPHONE RECEIVER ANTENNA
AT	ASSISTIVE LISTENING TRANSMITTER ANTENNA
V	VOLUME CONTROL: WALL
S# S#	LOUDSPEAKER: WALL, CEILING
S#	LOUDSPEAKER, HIGH OUTPUT
SB#	SPEAKER SOUND BAR: WALL
#	DIRECT-LIT LED VIDEO DISPLAY: WALL
# #	VIDEO DISPLAY: WALL, CEILING
# #	PROJECTION SCREEN: WALL, CEILING
$	PROJECTION SCREEN SWITCH: WALL
# #	PROJECTOR: WALL, CEILING
#	PROJECTOR: SHORT-THROW WALL
# #	FIXED CAMERA: WALL, CEILING
# #	PAN - TILT - ZOOM CAMERA: WALL, CEILING
	TYPICAL: "#" INDICATES TYPE. SEE AV SCHEDULE.

AV CABLE LEGEND

XXXXXX ###
- ### — QTY OF CABLES
- XXXXXX — CABLE TYPE

AUDB 4	BALANCED MIC/LINE AUDIO
AUDU	UNBALANCED LINE AUDIO
AVCN	AUDIO/VIDEO CONTROL NETWORK - CAT6 UTP
AVMN	AUDIO/VIDEO MEDIA NETWORK - CAT6A UTP
AVPT	AUDIO/VIDEO POINT TO POINT CAT6A F/UTP
CTLR	RELAY CONTROL
CTLS	SERIAL CONTROL
COAX	COAXIAL
DPRT	DISPLAY PORT
DVI	DVI
HDMI	HDMI
INTC	PRODUCTION INTERCOM (20AWG MIN. W/OVERALL SHIELD)
SDI ##	SDI VIDEO COAXIAL (## - TYPE)
SPKR	SPEAKER LEVEL
TRIX ##	TRIAXIAL MULTI-MEDIA (## - TYPE)
USB	UNIVERSAL SERIAL BUS

REFERENCE NOTES (APPLIES TO ALL DRAWINGS):

A. THIS IS A STANDARD LEGEND SHEET, THEREFORE SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

B. WHERE ENLARGED PLANS CALL-OUTS ARE SHOWN, REFER TO REFERENCED SHEET FOR REQUIRED SCOPE OF WORK.

C. REQUIRED OFFSETS IN CONDUIT, CABLE TRAY, DEVICES, BOXES, AND PATHWAY TRANSITIONS AROUND OBSTRUCTIONS ARE PART OF THE BASE SCOPE OF WORK. EXACT PATHWAYS TO BE DETERMINED AND COORDINATED BY THE CONTRACTOR BETWEEN TRADES. PROVIDE A MINIMUM OF ONE PULL BOX FOR EVERY 100 FEET OF STRAIGHT EMPTY CONDUIT AND A PULL BOX FOR MORE THAN 180 DEGREES OF BEND IN A CONDUIT RUN. DEBURR, CLEAN, CAP, AND TAG ALL CONDUITS AND FURNISH WITH A MINIMUM OF TWO (2) PULL STRINGS.

D. LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE, ARCHITECTURAL DRAWING DEVICE LOCATIONS TAKE PRECEDENCE. WHERE EXACT DIMENSIONS FOR DEVICES ARE NOT SHOWN, DRAWINGS ARE TO BE SCALED TO DETERMINE DEVICE LOCATION, AND COORDINATED IN THE FIELD. INSTALL DEVICES IN AN ORDERLY MANNER AT THE SAME ELEVATION AS ADJACENT DEVICES, COORDINATED BETWEEN TRADES. WHERE INSTALLED DEVICES FEED OR ARE ASSOCIATED WITH FURNITURE, COORDINATE EXACT LOCATIONS WITH FINAL FURNITURE PLAN AND CASEWORK INSTALLER, PRIOR TO ROUGH-IN.

E. MOUNT AV MEDIA PLATES AND DEVICES SHOWN IN GROUPINGS DIRECTLY ADJACENT TO EACH OTHER IN THE FIELD UON. REFER TO AV SYSTEM DETAILS AND ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

F. WHERE MULTI-SERVICE FLOOR, WALL OR CEILING DEVICES ARE SHOWN,PROVIDE (1)1"C FOR STRUCTURED CABLING SYSTEM OUTLETS, AND (2)1-1/4"C FOR AUDIOVISUAL SYSTEM DEVICES. PROVIDE ADDITIONAL CONDUITS AS REQUIRED FOR OTHER SYSTEMS CABLING. IN ADDITION, REFER TO ELECTRICAL DRAWINGS FOR ASSOCIATED POWER REQUIREMENTS AND INFRASTRUCTURE.

G. ROUTE AREA OR RESCUE RISER AND HORIZONTAL CABLING WITHIN LEVEL 2 SURVIVABLE PATHWAYS, INCLUDING WITHIN DESIGNATED 2-HOUR RATED VERTICAL RISER SHAFTS, HORIZONTALLY EMBEDDED WITHIN SLAB, AND OTHERWISE WITHIN 2-HOUR RATED WRAPPED CONDUIT. CONFIRM FINAL LOCATION OF CENTRAL COMMAND UNIT WITH THE AUTHORITY HAVING JURISDICTION (AHJ).

H. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES. WHERE NO ELEVATION EXISTS, REFER TO TYPICAL MOUNTING HEIGHTS ON ELECTRICAL DRAWINGS, SHEET E001.

TECHNOLOGY SHEET LIST

SHEET #	SHEET NAME
T001	SYMBOLS, LEGENDS & ABBREVIATIONS - TECHNOLOGY
T002	SYMBOLS, LEGENDS & ABBREVIATIONS - TECHNOLOGY
T003	SCHEDULES - TECHNOLOGY
TD101	GROUND LEVEL DEMOLITION PLAN - TECHNOLOGY
TD121	FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY
TD131	SECOND FLOOR DEMOLITION PLAN - TECHNOLOGY
T111	GROUND FLOOR PLAN - TECHNOLOGY
T131	FIRST FLOOR PLAN - TECHNOLOGY
T141	SECOND FLOOR PLAN - TECHNOLOGY
T501	ENLARGED PLAN - TECHNOLOGY
T502	ENLARGED PLAN - TECHNOLOGY
T601	DETAILS - TECHNOLOGY
T602	DETAILS - TECHNOLOGY
T603	DETAILS - TECHNOLOGY
T701	DIAGRAMS - TECHNOLOGY
T702	DIAGRAMS - TECHNOLOGY
Grand total: 16	

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET
SYMBOLS, LEGENDS & ABBREVIATIONS - TECHNOLOGY
T001

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEP725.rvt
9/17/2025 11:32:14 AM

ABBREVIATIONS

ABF	AIRBLOWN FIBER
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AN	ANALOG
ARCH	ARCHITECT / ARCHITECTURAL
ARM	ARMORED
AVC	AUDIOVISUAL CONTRACTOR
BBC	BACKBONE BONDING CONDUCTOR (GE)
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS (TBC)
BDF	BUILDING DISTRIBUTION FACILITY
BET	BUILDING ENTRANCE TERMINAL (PET)
BOC	BOTTOM OF CONDUIT
BOCT	BOTTOM OF CABLE TRAY
BTP	BALANCED TWISTED PAIR (COPPER)
C	CONDUIT
CAM	CAMERA
CATV	COMMUNITY ACCESS TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CF	CELLULAR FLOOR
CLG	CEILING
CO	CENTRAL OFFICE
CPE	CUSTOMER PREMISE EQUIPMENT
DAS	DISTRIBUTED ANTENNA SYSTEM
dB	DECIBEL
DB	DUCTBANK
DEMARC	DEMARCATION POINT
DN	DOWN
EQ	EQUAL DISTANCE
EC	ELECTRICAL CONTRACTOR
EF	ENTRANCE FACILITY
EMC	ELECTROMAGNETIC COMPATIBILITY
EMERG	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EP	ENTRANCE POINT (OUTSIDE PLANT)
EPO	EMERGENCY POWER OFF
ER	EQUIPMENT ROOM
ERCES	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEMS
FACP	FIRE ALARM CONTROL PANEL
FCIC	FURNISHED BY CONTRACTOR INSTALLED BY CONTRACTOR
FO	FIBER OPTIC
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER
GC	GENERAL CONTRACTOR
GE	GROUNDING EQUALIZER (BBC)
GHz	GIGAHERTZ
GPON	GIGABIT PASSIVE OPTICAL NETWORK
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
HH	HANDHOLE
Hz	HERTZ
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
LEC	LOCAL EXCHANGE CARRIER
MATV	MASTER ANTENNA TELEVISION
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MH	MAINTENANCE HOLE (OUTSIDE PLANT)
MHz	MEGAHERTZ
MPOE	MINIMUM POINT OF ENTRY
NIC	NOT IN CONTRACT
NVR	NETWORK VIDEO RECORDER
OFC	OPTICAL FIBER CABLE
OLT	OPTICAL LINE TERMINAL
ONT	OPTICAL NETWORK TERMINAL
OSP	OUTSIDE PLANT
PA	PUBLIC ADDRESS
PB	PULLBOX
PBB	PRIMARY BONDING BUSBAR (TMGB)
PET	PROTECTED ENTRANCE TERMINAL (BET)
PMV	PROJECT MANAGER VERIFICATION
POE	POWER OVER ETHERNET
PON	PASSIVE OPTICAL NETWORK
POTS	PLAIN OLD TELEPHONE SERVICE
PVC	POLYVINYL CHLORIDE CONDUIT
PWR	POWER
R/W	RIGHT OF WAY
RAD	RADIUS
RG	RADIO GRADE
SBB	SECONDARY BONDING BUSBAR (TGB)
SBN	SUPPLEMENTARY BONDING NETWORK
SCH40	SCHEDULE 40 PVC CONDUIT
SCH80	SCHEDULE 80 PVC CONDUIT
TBB	TELECOMMUNICATION BONDING BACKBONE
TBC	TELECOMMUNICATION BONDING CONDUCTOR (BCT)
TE	TELECOMMUNICATION ENCLOSURE
TGB	TELECOMMUNICATION GROUNDING BUSBAR (SBB)
TMGB	TELECOMMUNICATION MAIN GROUNDING BUSBAR (PBB)
TO	TELECOMMUNICATIONS OUTLET
TR	TELECOMMUNICATIONS ROOM
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
W	WATTS
WAO	WORK AREA OUTLET
WAP	WIRELESS ACCESS POINT
WP	WEATHER PROOF

TELECOMMUNICATIONS

- OUTLET TYPE: DATA
- OUTLET TYPE: COMBINATION TELEPHONE/DATA
- OUTLET TYPE: TELEPHONE
- E,F,# — OUTLET DESIGNATORS: "E" EQUIPMENT OUTLET, "F" FURNITURE/WORKSTATION OUTLET, "#" QTY OF CABLES. TYPICAL ALL OUTLETS: PROVIDE TWO (2) CABLES PER OUTLET (UON)
- OUTLET MOUNTING: WALL, ABOVE COUNTER, CEILING
- CD — OUTLET MOUNTING: CORD-DROP
- FB# — OUTLET MOUNTING, FLUSH FLOORBOX: REFER TO SCHEDULE FOR TYPES OF DEVICES
- PT# — OUTLET MOUNTING, FLUSH POKE-THROUGH: REFER TO SCHEDULE FOR TYPES OF DEVICES. TYPICAL ALL FLOORBOXES/POKE-THROUGHS: SEE ELECTRICAL DRAWINGS FOR COMBINED SERVICE REQUIREMENTS.
- DATA OUTLET FOR WIRELESS ACCESS POINT: WALL, POLE MOUNT, CEILING
- TV / TVD — CATV/MATV OUTLET: COAXIAL ONLY, COMBINATION COAX/DATA
- E — EMERGENCY TELEPHONE
- IMS/ICS — INTERCOM: "IMS" MASTER STATION, "ICS" CALL STATION
- ACU/ACS — AREA OF RESCUE: "ACU" COMMAND UNIT, "ACS" CALL STATION

EQUIPMENT

- VERTICAL CABLE MANAGERS
- RACK (19") OPEN: TWO POST, FOUR POST
- ARROW INDICATES AIRFLOW AT FRONT OF RACK (TYP)
- RACK (19") ENCLOSURE: WALL MOUNT, FLOOR MOUNT
- RACK (19"): IN-CABINET/CASEWORK (PULL OUT AND ROTATING)
- PLYWOOD BACKBOARD, WALL MOUNT
- GROUNDING BUSBAR, WALL MOUNT
- 110 PUNCH-DOWN BLOCK, WALL MOUNT
- COPPER TERMINAL/DEMARC (PROTECTED/FUSED), WALL MOUNT
- FIBER TERMINAL/DEMARC, WALL MOUNT

DESIGNATION SYMBOLS

- --- / 123 — EQUIPMENT DESIGNATORS SEE SCHEDULE.
- E / X — EXISTING TO REMAIN, EXISTING TO BE REMOVED
- R / F — EXISTING TO BE RELOCATED, FUTURE
- CONNECT TO
- 1 — NOTE
- 1 — REVISION NOTE
- X / XX.XX — DETAIL CALLOUT
- SYMBOL — DEVICE MOUNTED ABOVE COUNTER

PATHWAYS

- CONDUIT RISE
- CONDUIT DROP
- CONDUIT
- UNDERGROUND CONDUIT
- CONTINUATION, STUB, HOMERUN
- AERIAL
- J — JUNCTION BOX
- PB — "PB" PULL BOX, "VT" VAULT/MAINTENANCE, "HH" HAND HOLE
- UP — UTILITY POLE
- CABLE TRAY: LADDER
- CABLE TRAY: WIRE MESH
- CABLE TRAY: SOLID BOTTOM
- J — J — OPEN RUN CABLE PATHWAY
- CT: 12"x4" / BOCT: 8'-6" — CABLE TRAY TYPE, SIZE, AND BOTTOM OF CABLE TRAY CALLOUT. "CT" CABLE TRAY, "CR" CABLE RUNWAY, "WM" WIRE MESH
- 2" / BOC: 8'-6" (TYP 4) — SIZE, BOTTOM OF CONDUIT CALLOUT, (QUANTITY)

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SYMBOLS, LEGENDS & ABBREVIATIONS - TECHNOLOGY

T002

Autodesk Docs://23-1050 - City of Bellingham Cent Lib /Revit/23-1050 - City of Bellingham Cent Lib Revit_MEPT23.rvt
9/11/2026 11:52:15 AM

ELECTRONIC ACCESS CONTROL AND INTRUSION SCHEDULE

GENERAL NOTES:

A. REFER TO DIVISION 8 DOOR HARDWARE SCHEDULES AND DIVISION 8 DOOR HARDWARE GROUPS FOR ADDITIONAL COMPONENTS TO BE INTEGRATED INCLUDING BUT NOT LIMITED TO: MAG LOCKS, ELECTRIC LOCKS, ELECTRIC STRIKES, ELECTRIC HINGES, LOCAL ALARMS, AND PANIC HARDWARE.

SCHEDULE NOTES (#):

1. DOOR DETAILS ARE SCHEMATIC IN NATURE, IF NO REFERENCED DETAIL PROVIDE DOOR EQUIPMENT AS SHOWN ON SCHEDULE AND MATCHING THAT ON THE DIV 8 SCHEDULES.
2. REFER TO ELECTRICAL DRAWINGS FOR 120/208VAC CONNECTION FOR DOORS THAT ARE MOTORIZED
3. TYPICALLY "A" SIDE DOOR IS THE SECURED SIDE, "B" SIDE DOOR IS NON-SECURED SIDE. PROVIDE AUTHENTICATION MEANS ON BOTH SIDES OF DOORS WHERE INDICATED....

DOOR		TYP. DOOR DETAIL (1)	AUTHENTICATION TYPE(S) (3)		MULLION MOUNT (THIN STYLE READER)	INTEGRATED LOCKSET (BY DIV 8)	DOOR CONTACTS	REQUEST TO EXIT TYPE	ADA MOTORIZED OPERATOR (2)	MAGLOCK	NOTES
NUMBER	TYPE		A (SECURED)	B							
001	Double	D5	-	Proximity	No	No	Yes	Integral	Yes	No	
002	Single	S1	-	-	No	No	Yes	Integral	No	No	
003	Double	D2	-	Proximity	Yes	No	Yes	Integral	No	No	
005	Single	S2	-	Proximity	No	No	Yes	Integral	No	No	
006	Single	S1	-	-	No	No	Yes	Integral	No	No	
015	Double	D4	-	-	No	No	Yes	Integral	Yes	No	
016	Single	S2	-	Proximity	No	No	Yes	Integral	No	No	
021	Single	S2	-	Proximity	No	No	Yes	Integral	No	No	
032A	Single	S2	-	Proximity	No	No	Yes	Integral	No	No	
032B	Single	S2	-	Proximity	No	No	Yes	Integral	No	No	
241A	Single	S2	-	Proximity	No	No	Yes	Integral	No	No	
241B	Single	S2	-	Proximity	No	No	Yes	Integral	No	No	
242A	Single	S2	-	Proximity	No	No	Yes	Integral	No	No	
250	Double	D2	-	Proximity	No	No	Yes	Integral	No	No	
256	Single	S2	-	Proximity	No	No	Yes	Integral	No	No	
257	Single	-	-	Proximity	No	No	No	Integral	No	No	

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEP725.rvt
9/11/2026 11:52:16 AM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

SCHEDULES - TECHNOLOGY

T003

NOTES:

1. EXISTING CEILING MOUNTED AIR QUALITY SENSORS TO BE REMOVED, SALVAGED, AND RELOCATED INTO NEW RESTROOMS AS NOTED.

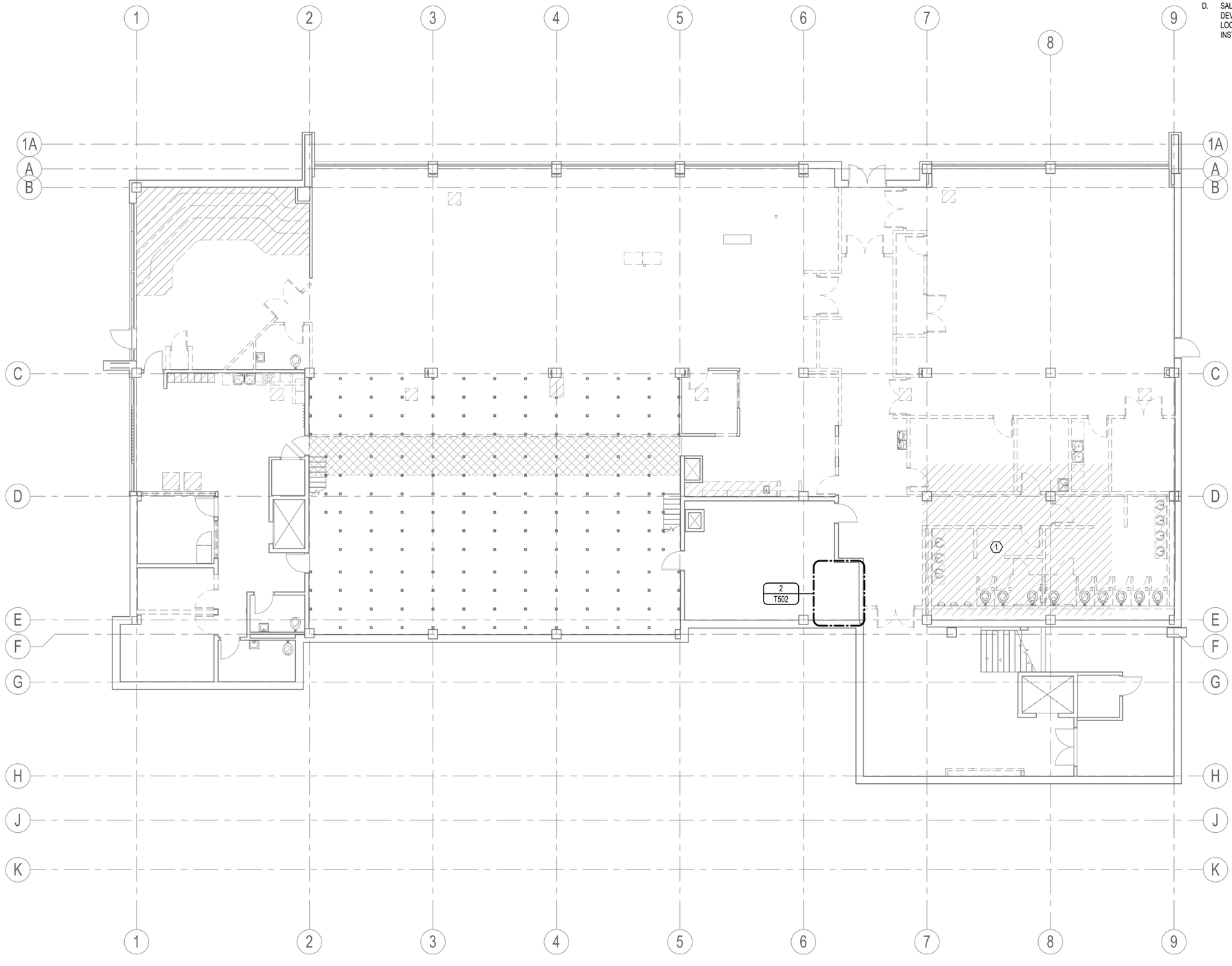
GENERAL NOTES:

A. PROTECT IN PLACE ALL BACKBONE PATHWAY.

B. LIMIT HORIZONTAL CABLING DEMOLITION TO AREAS OF WORK. PROTECT ANY CRITICAL PATHWAYS AND CABLING.

C. SHEET SHOWN FOR REFERENCE OF SCOPE OF WORK. CONTRACTOR TO COORDINATE WITH BELLINGHAM IT PRIOR TO STARTING WORK TO ENSURE NO CRITICAL INFRASTRUCTURE IS BROUGHT OFFLINE DURING CONSTRUCTION.

D. SALVAGE , INSPECT AND PREPARE EXISTING SECURITY DEVICES AND PA SPEAKERS FOR REINSTALLATION. FINAL LOCATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.



1 GROUND LEVEL DEMOLITION PLAN - TECHNOLOGY
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

GROUND LEVEL DEMOLITION PLAN - TECHNOLOGY

TD101

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT23.rvt
9/11/2026 1:51:28 AM

NOTES:

1. EXISTING MPOE, PROTECT IN PLACE EXISTING INFRASTRUCTURE AND CONDUIT PATHWAY.
2. EXISTING IT CLOSET, PROTECT IN PLACE.

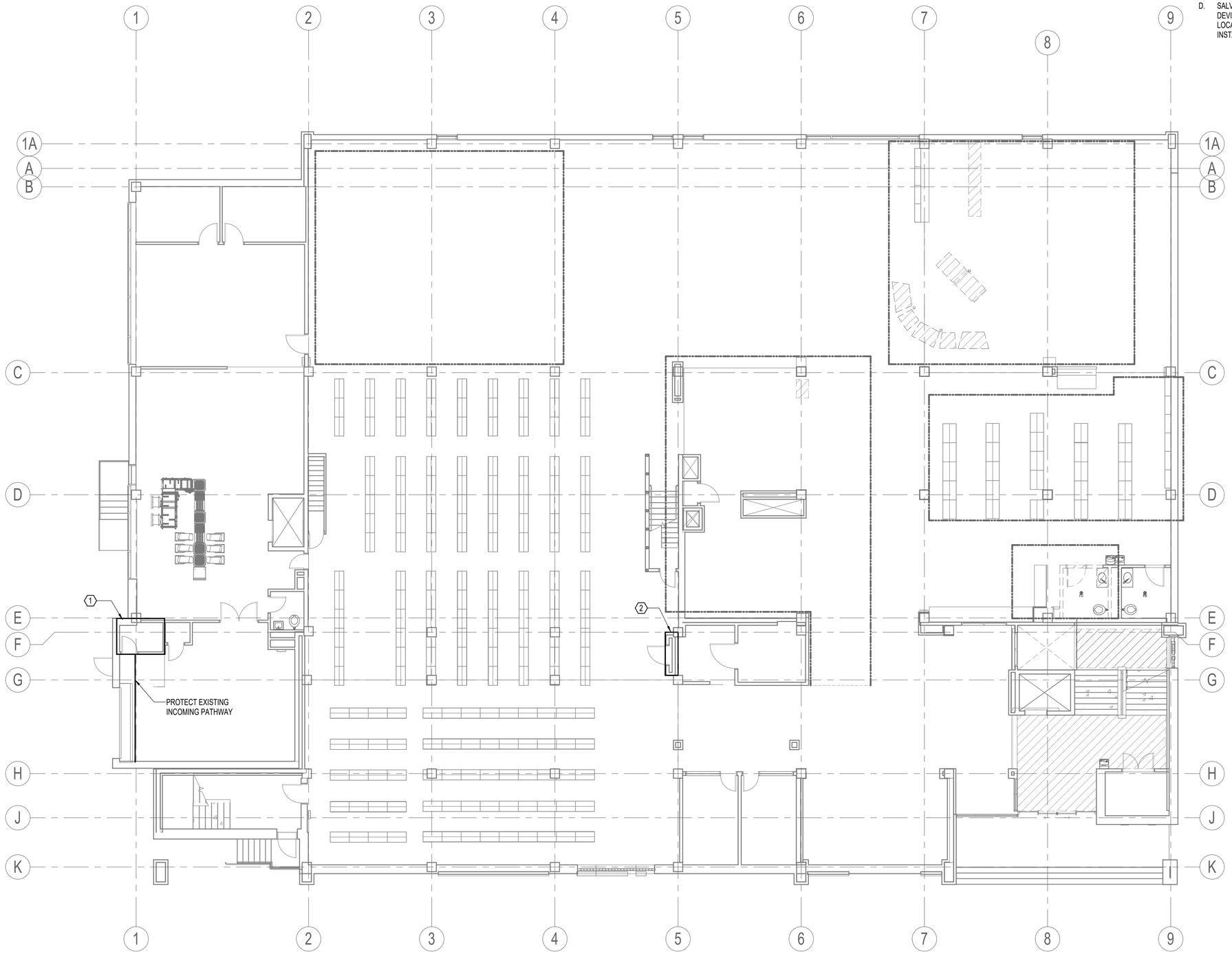
GENERAL NOTES:

A. PROTECT IN PLACE ALL BACKBONE PATHWAY.

B. LIMIT HORIZONTAL CABLING DEMOLITION TO AREAS OF WORK. PROTECT ANY CRITICAL PATHWAYS AND CABLING.

C. SHEET SHOWN FOR REFERENCE OF SCOPE OF WORK. CONTRACTOR TO COORDINATE WITH BELLINGHAM IT PRIOR TO STARTING WORK TO ENSURE NO CRITICAL INFRASTRUCTURE IS BROUGHT OFFLINE DURING CONSTRUCTION.

D. SALVAGE , INSPECT AND PREPARE EXISTING SECURITY DEVICES AND PA SPEAKERS FOR REINSTALLATION. FINAL LOCATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.



1 FIRST FLOOR DEMO PLAN - TECHNOLOGY
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00

Issue Date: 09/16/26

SHEET

FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY

TD121

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEP725.rvt
9/17/2025 7:12:21 AM

NOTES:

1. EXISTING EQUIPMENT. SALVAGE RACKS AND RETURN TO OWNER.
2. COIL AND STOW SERVICE LOOP. CABLING TO BE BE FED TO NEW IDF IN ADJACENT ROOM DURING CONTRUCTION.

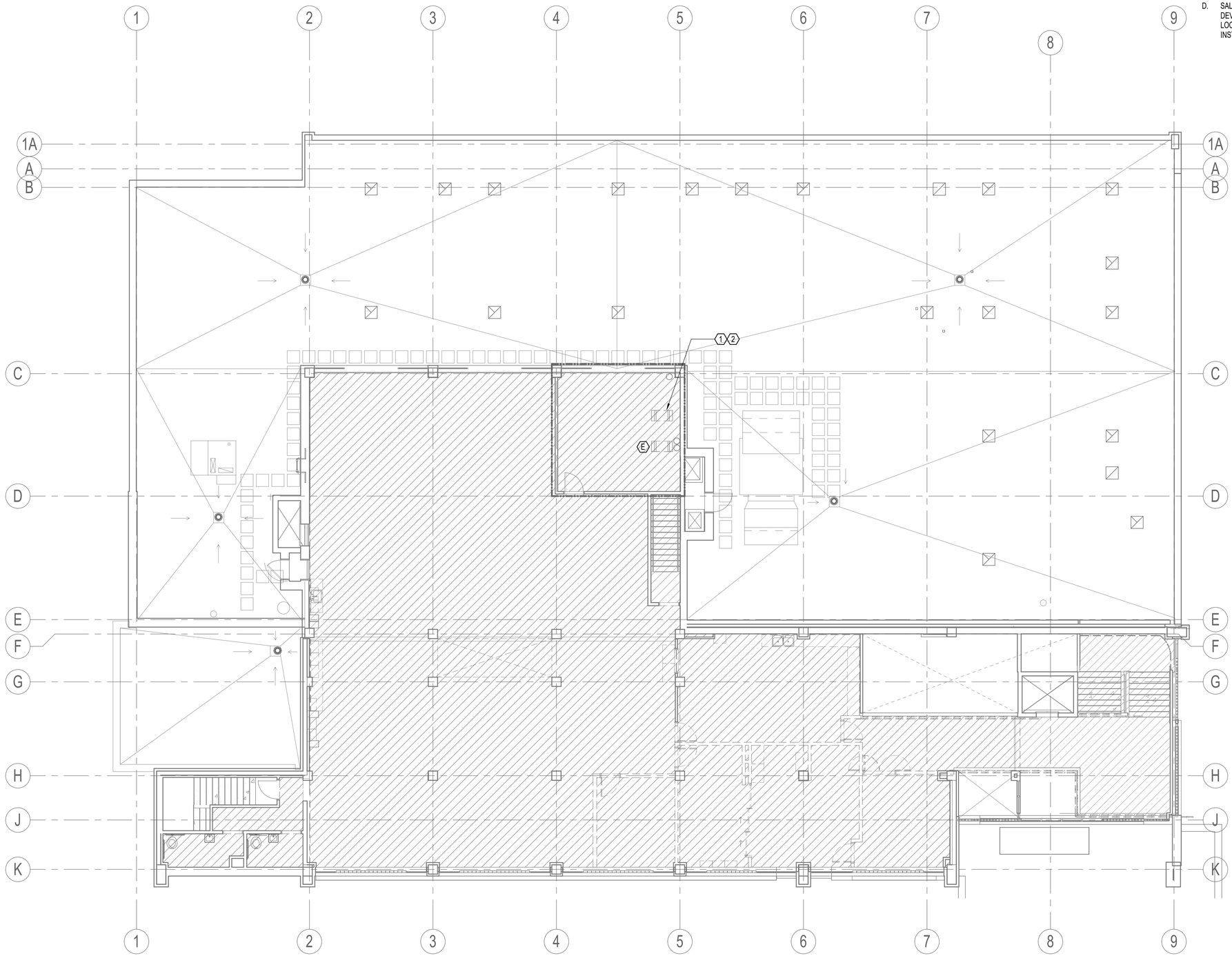
GENERAL NOTES:

A. PROTECT IN PLACE ALL BACKBONE PATHWAY.

B. LIMIT HORIZONTAL CABLING DEMOLITION TO AREAS OF WORK. PROTECT ANY CRITICAL PATHWAYS AND CABLING.

C. SHEET SHOWN FOR REFERENCE OF SCOPE OF WORK. CONTRACTOR TO COORDINATE WITH BELLINGHAM IT PRIOR TO STARTING WORK TO ENSURE NO CRITICAL INFRASTRUCTURE IS BROUGHT OFFLINE DURING CONSTRUCTION.

D. SALVAGE , INSPECT AND PREPARE EXISTING SECURITY DEVICES AND PA SPEAKERS FOR REINSTALLATION. FINAL LOCATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.



2 SECOND FLOOR DEMO PLAN - TECHNOLOGY
1/8" = 1'-0"

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET
SECOND FLOOR DEMOLITION PLAN - TECHNOLOGY
TD131

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/17/2026 7:12:29 AM

GENERAL NOTES:

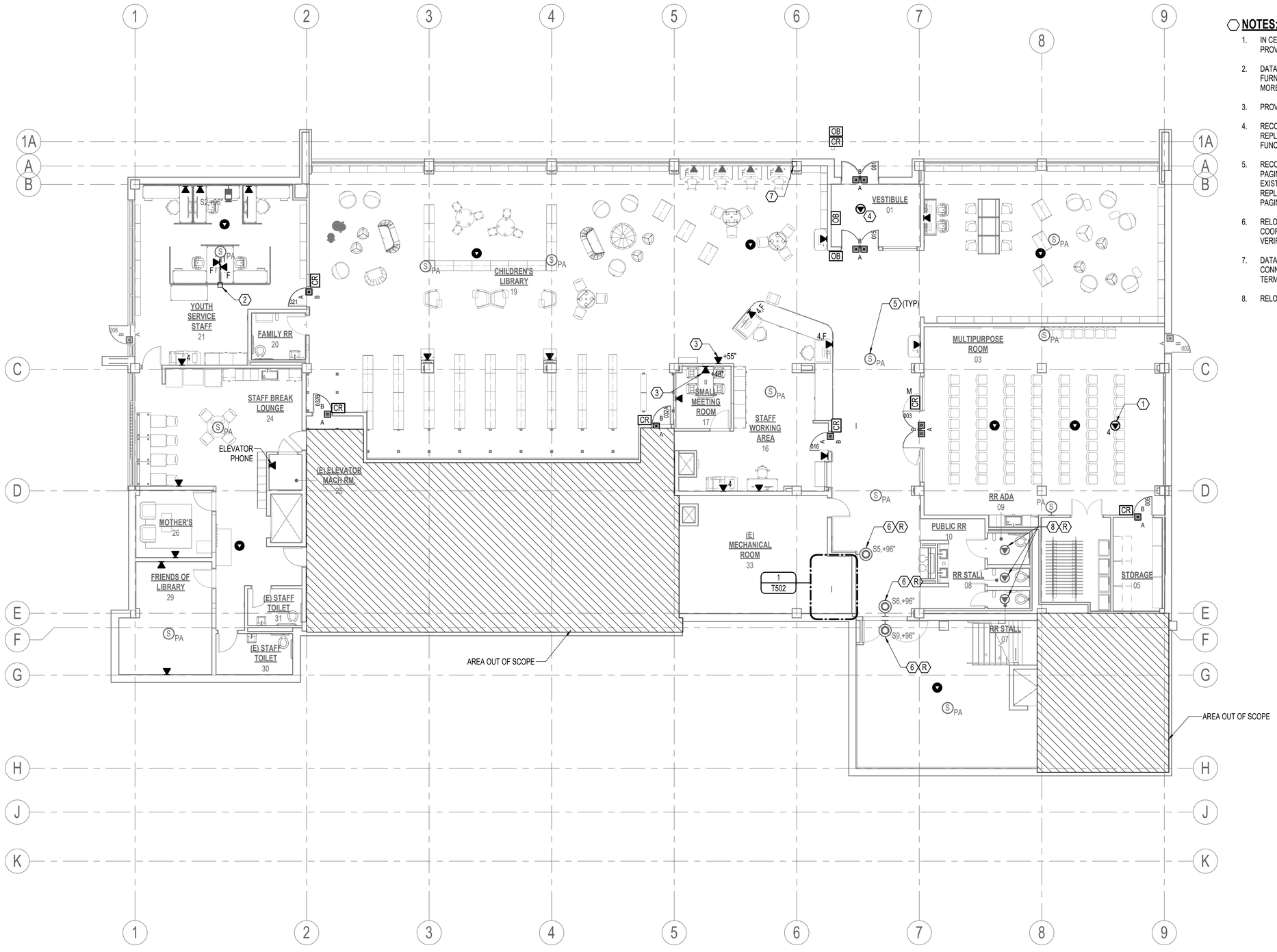
A. PROTECT IN PLACE ALL BACKBONE PATHWAY.

B. LIMIT HORIZONTAL CABLING DEMOLITION TO AREAS OF WORK. PROTECT ANY CRITICAL PATHWAYS AND CABLING.

C. SALVAGE , INSPECT AND PREPARE EXISTING SECURITY DEVICES AND PA SPEAKERS FOR REINSTALLATION. FINAL LOCATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.

NOTES:

1. IN CEILING DATA SERVICE LOOP FOR FUTURE AV USE. PROVIDE 50' OF CABLING FOR FUTURE ROUTING.
2. DATA FED VIA POWER POLE AND ROUTED THROUGH FURNITURE. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
3. PROVIDE DATA FOR WALL MOUNTED DISPLAY.
4. RECONNECT EXISTING PEOPLE COUNTER DEVICE. REPLACE CABLING AS REQUIRED TO RESTORE FUNCTIONALITY.
5. RECONNECT PAGING SPEAKERS TO MAINTAIN EXISTING PAGING SYSTEM OPERATION. IF DEMOLITION IMPACTS EXISTING PAGING SPEAKER CABLING, REMOVE AND REPLACE CABLING AS REQUIRED TO RESTORE FULL PAGING FUNCTIONALITY.
6. RELOCATE SALVAGED VIDEO SURVEILLANCE CAMERA. COORDINATE WITH OWNER PRIOR TO INSTALL TO VERIFY MODEL NUMBER.
7. DATA FED FROM CEILING, INSIDE OF COLUMN. DATA CONNECTION TO BE FED THROUGH FURNITURE AND TERMINATED AT DESK LOCATION.
8. RELOCATED VAPOR SENSORS



1 GROUND FLOOR PLAN - TECHNOLOGY
1/8" = 1'-0"

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET
GROUND FLOOR PLAN - TECHNOLOGY
T111

Autodesk Docs://23-1056 - City of Bellingham Cent Lib Renov/23-1063 - City of Bellingham Cent Lib Reno_MEPT23.rvt
9/11/2026 11:52:35 AM

GENERAL NOTES:

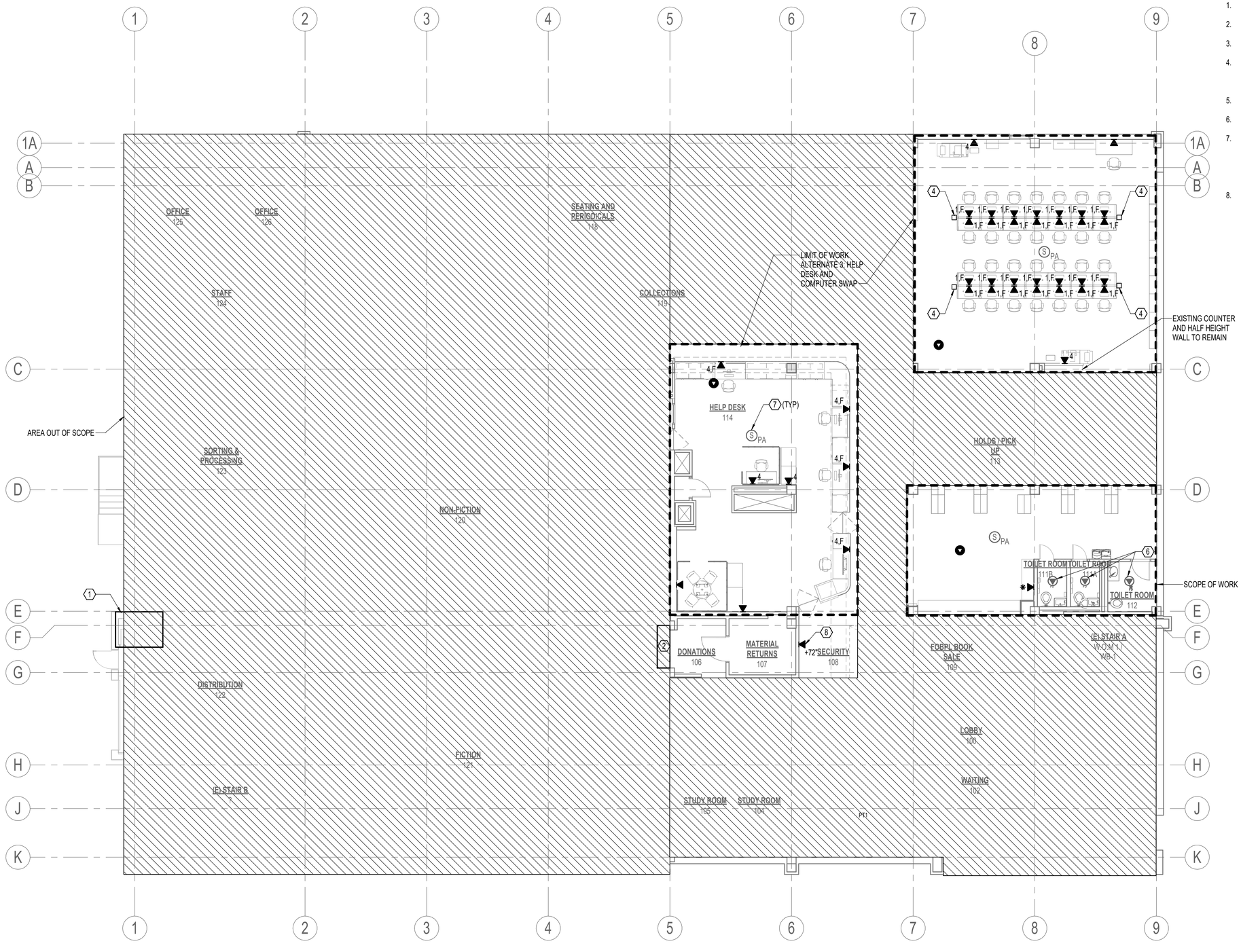
A. PROTECT IN PLACE ALL BACKBONE PATHWAY.

B. LIMIT HORIZONTAL CABLING DEMOLITION TO AREAS OF WORK. PROTECT ANY CRITICAL PATHWAYS AND CABLING.

C. SALVAGE , INSPECT AND PREPARE EXISTING SECURITY DEVICES AND PA SPEAKERS FOR REINSTALLATION. FINAL LOCATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.

⬡ NOTES:

1. MPOE LOCATION.
2. IT CLOSET LOCATION.
3. AREA OUT OF SCOPE.
4. DATA FED VIA POWER POLE AND ROUTED THROUGH FURNITURE. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
5. NOT USED.
6. RELOCATED VAPOR SENSOR.
7. RECONNECT PAGING SPEAKERS TO MAINTAIN EXISTING PAGING SYSTEM OPERATION. IF DEMOLITION IMPACTS EXISTING PAGING SPEAKER CABLING, REMOVE AND REPLACE CABLING AS REQUIRED TO RESTORE FULL PAGING FUNCTIONALITY.
8. CABLE REPLACEMENT TO BE RERUN TO NEW IDF ROOM 256. CABLE TO BE RELOCATED WITH EXISTING POWER. NO NEW CUTS TO WOODEN SLAT WALL.



1 FIRST FLOOR PLAN - TECHNOLOGY
1/8" = 1'-0"

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEP725.rvt
9/16/2026 7:12:49 AM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

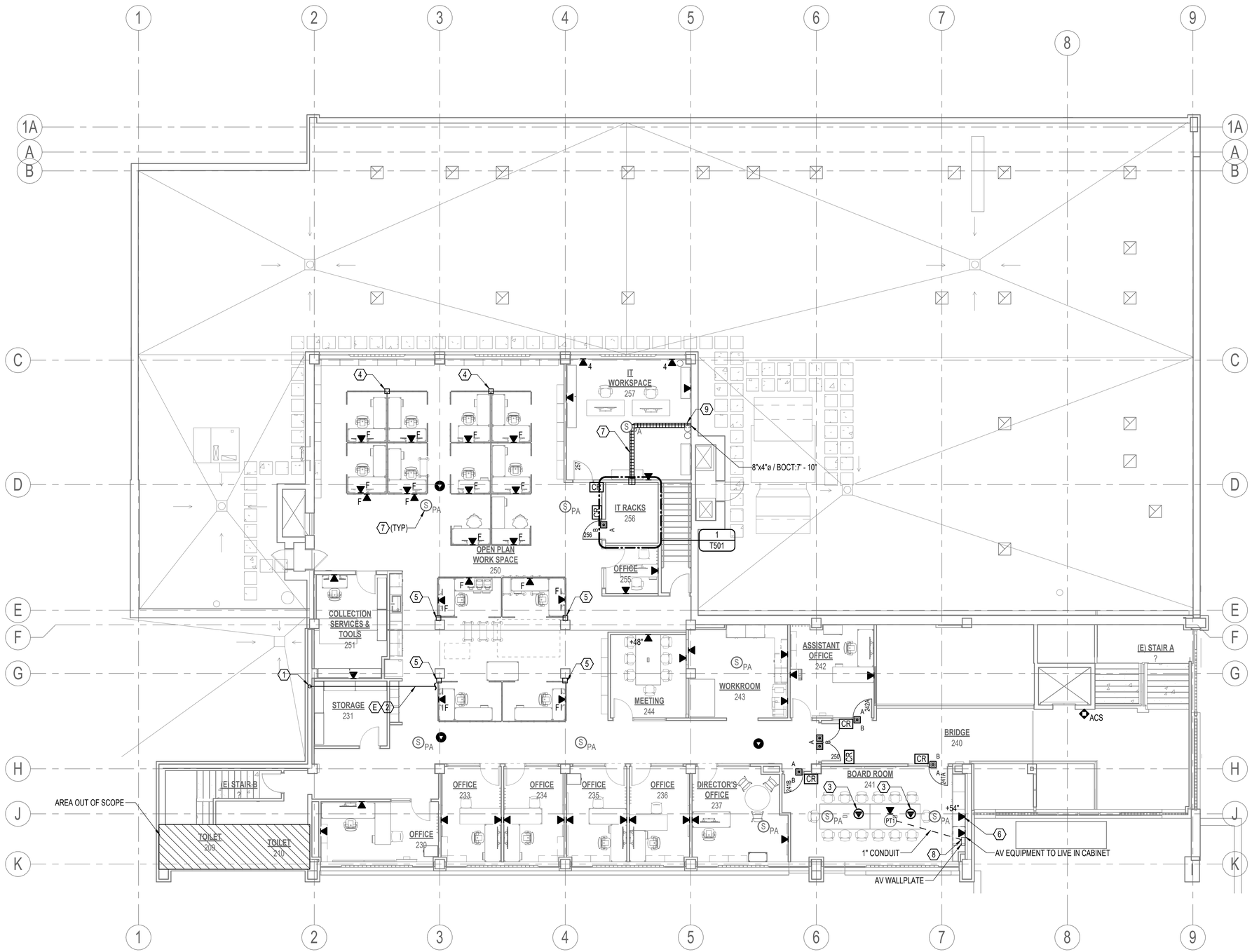
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

FIRST FLOOR PLAN - TECHNOLOGY

T131



1 FIRST FLOOR MEZZANINE PLAN -TECHNOLOGY
1/8" = 1'-0"

GENERAL NOTES:

A. PROTECT IN PLACE ALL BACKBONE PATHWAY.

B. LIMIT HORIZONTAL CABLING DEMOLITION TO AREAS OF WORK. PROTECT ANY CRITICAL PATHWAYS AND CABLING.

C. SALVAGE , INSPECT AND PREPARE EXISTING SECURITY DEVICES AND PA SPEAKERS FOR REINSTALLATION. FINAL LOCATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.

NOTES:

1. TO MPOE.
2. EXISTING TELECOM PATHWAY. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. COORDINATE WITH LIBRARY IT TEAM PRIOR TO WORK TO ENSURE NO SYSTEMS ARE BROUGHT DOWN THROUGHOUT DEMOLITION AND CONSTRUCTION.
3. IN-CEILING DATA SERVICE LOOP FOR FUTURE AV USE. PROVIDE 20' OF CABLING FOR FUTURE ROUTING.
4. DATA FED VIA POWER POLE AND ROUTED THROUGH FURNITURE. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
5. DATA FED FROM CEILING VIA WIREMOLD MOUNTED TO COLUMN AND FED THROUGH FURNITURE.
6. PROVIDE DATA OUTLET FOR DISPLAY.
7. RECONNECT PAGING SPEAKERS TO MAINTAIN EXISTING PAGING SYSTEM OPERATION. IF DEMOLITION IMPACTS EXISTING PAGING SPEAKER CABLING, REMOVE AND REPLACE CABLING AS REQUIRED TO RESTORE FULL PAGING FUNCTIONALITY.
8. PROVIDE CONNECTION FROM AV WALLPLATE ROUTED TO AV CABINET IN CABINET OF CONFERENCE ROOM.
9. PROVIDE EXTENSIONS OF EXISTING PATHWAYS AS REQUIRED TO ESTABLISH A CONTINUOUS PATHWAY FROM THE EXISTING INFRASTRUCTURE TO THE NEW OVERHEAD CABLE TRAY SYSTEM. WORK SHALL INCLUDE FURNISHING AND INSTALLING ALL CONDUITS, FITTINGS, SUPPORTS, PULL BOXES, SLEEVES, FIRESTOPPING, AND ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION.

MILLER HULL

The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104

Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

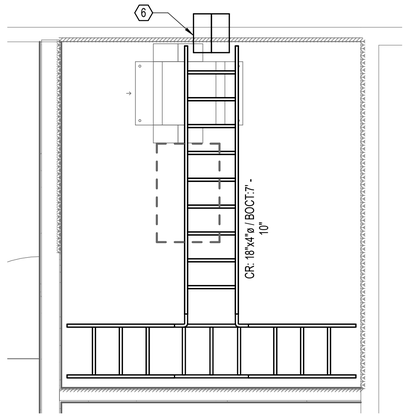
REVISIONS

No.	Description	Date

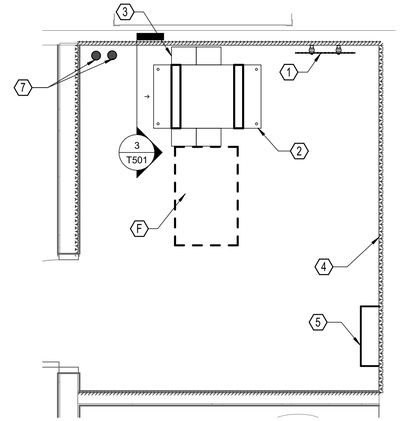
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET
SECOND FLOOR PLAN - TECHNOLOGY
T141

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Reno_MEPT25.rvt
9/17/2025 12:04:44 AM



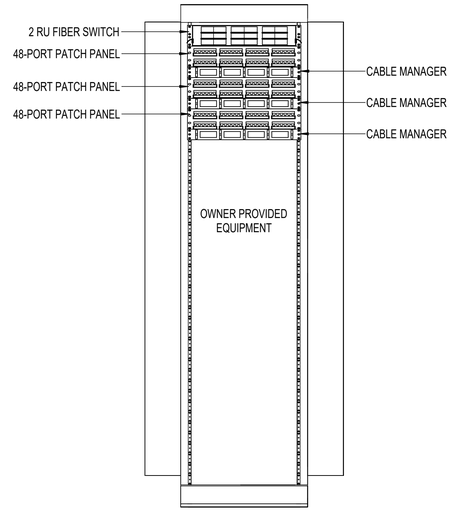
2 CABLE LADDER PLAN - IT ROOM - LEVEL 2 - TECHNOLOGY
1/2" = 1'-0"



1 ENLARGED PLAN - IT ROOM - LEVEL 2 - TECHNOLOGY
1/2" = 1'-0"

NOTES:

1. PRIMARY BONDING BUSBAR.
2. 4-POST NETWORK RACK.
3. 7' TALL 6" WIDE DOUBLE SIDED CABLE MANAGER (TYP).
4. 3/4" THICK 8'-0" TALL FIRE-RATED, UL LISTED PLYWOOD MOUNTED 0'8" AFF.
5. ACCESS CONTROL PANEL.
6. (2) 4" SLEEVES.
7. (2) 2" CONDUIT.



3 RACK ELEVATION - IT ROOM - LEVEL 2 - TECHNOLOGY
1" = 1'-0"

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

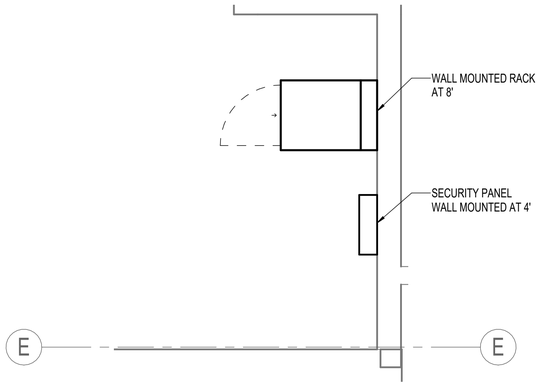
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

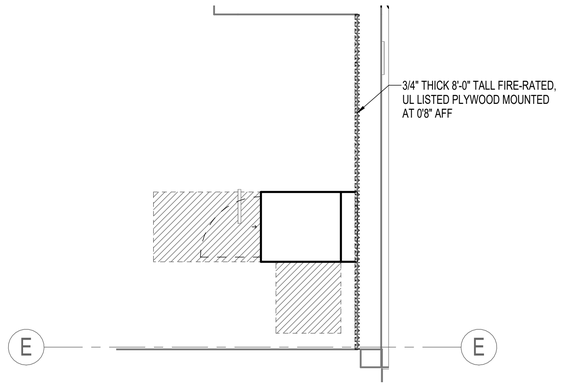
ENLARGED PLAN - TECHNOLOGY

T501

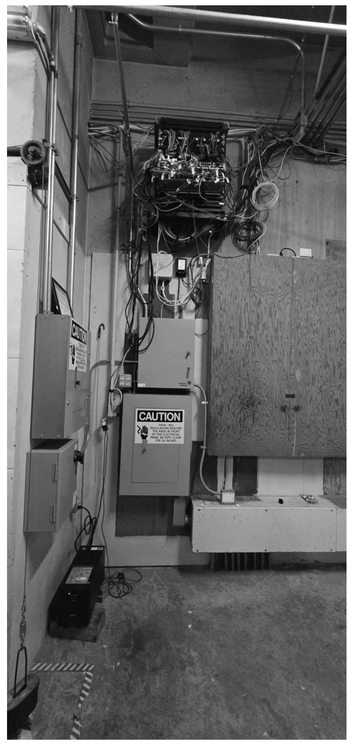
Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/17/2026 1:12:49 AM



2 ENLARGED PLAN - MECHANICAL ROOM - GROUND LEVEL DEMO PHASE - TECHNOLOGY
1/2" = 1'-0"



1 ENLARGED PLAN - MECHANICAL ROOM - GROUND LEVEL - TECHNOLOGY
1/2" = 1'-0"



3 EXISTING MECHANICAL ROOM ELEVATION VIEW - TECHNOLOGY
1/2" = 1'-0"

TELECOMMUNICATIONS AND SECURITY SYSTEMS RELOCATION:

CONTRACTOR SHALL REPLACE THE EXISTING WALL-MOUNTED TELECOMMUNICATIONS RACK. ALL ASSOCIATED SURVEILLANCE EQUIPMENT, CABLING TERMINATIONS, POWER SUPPLIES, NETWORK DEVICES, AND RELATED ACCESSORIES FROM THE EXISTING LOCATION ARE TO BE RELOCATED TO THE NEW TELECOMMUNICATIONS ENCLOSURE AS INDICATED ON THE DRAWINGS. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO:

1. DISCONNECTING, LABELING, PROTECTING, AND RELOCATING ALL EXISTING TELECOMMUNICATIONS AND SECURITY EQUIPMENT.
2. PROVIDING AND INSTALLING MOUNTING HARDWARE, CABLE MANAGEMENT, GROUNDING/BONDING COMPONENTS, AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION WITHIN THE NEW ENCLOSURE.
3. EXTENDING, REROUTING, REPLACING, OR RE-TERMINATING EXISTING COPPER AND FIBER CABLING AS REQUIRED TO MAINTAIN SYSTEM FUNCTIONALITY.
4. MAINTAINING EXISTING SURVEILLANCE CAMERA CONNECTIVITY, RECORDING CAPABILITIES, AND NETWORK COMMUNICATIONS THROUGHOUT THE RELOCATION. COORDINATE ANY REQUIRED OUTAGES WITH THE OWNER AND PERFORM WORK DURING APPROVED MAINTENANCE WINDOWS.
5. VERIFYING ADEQUATE POWER, VENTILATION, CLEARANCES, AND ACCESS REQUIREMENTS WITHIN THE NEW ENCLOSURE PRIOR TO EQUIPMENT INSTALLATION.
6. TESTING AND COMMISSIONING ALL RELOCATED TELECOMMUNICATIONS AND SURVEILLANCE SYSTEMS AFTER INSTALLATION, INCLUDING NETWORK CONNECTIVITY, CAMERA OPERATION, RECORDING FUNCTIONS, AND ALARM REPORTING WHERE APPLICABLE.
7. UPDATING RACK ELEVATIONS, LABELING, AS-BUILT DOCUMENTATION, AND CABLE IDENTIFICATION TO REFLECT THE FINAL INSTALLATION.
8. COORDINATING ALL WORK WITH THE OWNER, IT PROVIDER, SECURITY INTEGRATOR, AND OTHER AFFECTED TRADES TO MINIMIZE SYSTEM DOWNTIME.
9. ALL RELOCATED SYSTEMS SHALL BE LEFT FULLY OPERATIONAL AND FUNCTIONING AS INTENDED PRIOR TO PROJECT CLOSEOUT.

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

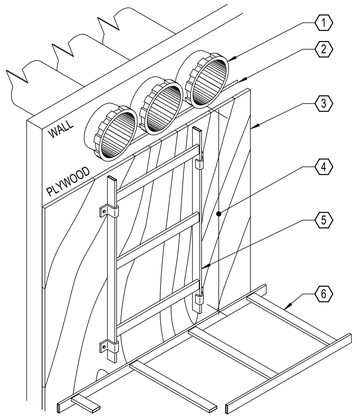
Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

ENLARGED PLAN - TECHNOLOGY

T502

Autodesk Docs://23-1055 - City of Bellingham Cent Lib Renov/23-1055 - City of Bellingham Cent Lib Renv_MEPT25.rvt
9/17/2025 7:13:46 AM



GENERAL NOTES:

A. REFER TO ROOM PLANS FOR CABLE RUNWAY SIZE AND ROUTE.

B. REFER TO ROOM PLANS FOR SLEEVE/CONDUITS SIZE, QUANTITY, AND ROUTE.

C. REFER TO ADDITIONAL ROOM INSTALLATION DETAILS FOR CABLE RUNWAY MOUNTING REQUIREMENTS.

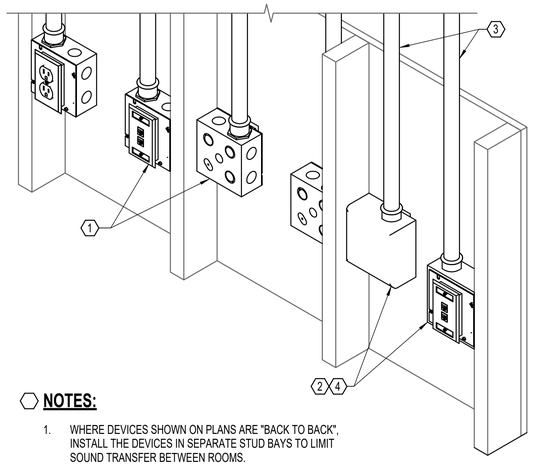
D. REFER TO FIRESTOP DETAILS FOR CONDUIT/SLEEVE WALL PENETRATION FIREPROOFING.

E. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPE. SHOWN HERE FOR CLARITY ONLY.

NOTES:

1. CONDUIT/SLEEVE WITH BUSHING AND GROUND LUG, EXTEND 1" TO 3" MAX. BEYOND WALL, (TYP).
2. TBC CONTINUES TO TGB/TMGB.
3. EXTEND PLYWOOD ON WALL UP TO UNDERSIDE OF SLEEVES/CONDUITS. IN VERTICAL RISERS THIS APPLIES FROM HORIZONTAL MANAGEMENT TO RISER PATHWAY AT DECK OR FLOOR ABOVE.
4. PROVIDE VERTICAL CABLE MANAGEMENT FOR DROPS EXCEEDING 24". IN VERTICAL RISERS THIS APPLIES FROM HORIZONTAL MANAGEMENT TO RISER PATHWAY AT DECK OR FLOOR ABOVE.
5. ALIGN WITH CONDUITS/SLEEVES.
6. CABLE RUNWAY HORIZONTAL INSTALLED.

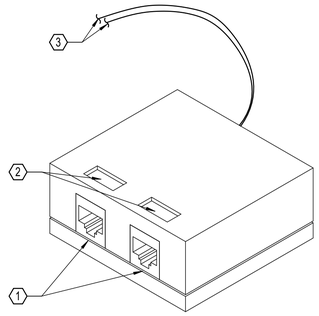
3 NEW 501-7-VERTICAL TRANSITION FROM CONDUITS TO RUNWAY
NONE



NOTES:

1. WHERE DEVICES SHOWN ON PLANS ARE "BACK TO BACK", INSTALL THE DEVICES IN SEPARATE STUD BAYS TO LIMIT SOUND TRANSFER BETWEEN ROOMS.
2. WHERE SPACE CONSTRAINTS AND WALL CONSTRUCTIONS REQUIRE DEVICES TO BE INSTALLED "BACK TO BACK" WITHIN THE SAME STUD BAY, PROVIDE FIRE-STOPPING ACOUSTICAL PADS AROUND BACKBOXES.
3. DEVICES IN "BACK TO BACK" CONFIGURATIONS SHALL HAVE SEPARATE CONDUIT PATHWAYS AND SHALL NOT "DAISY-CHAIN".
4. IN ADDITION TO DEVICES INSTALLED "BACK TO BACK", PROVIDE AND INSTALL FIRE-STOPPING PADS AROUND ALL BACKBOXES WHERE INSTALLED IN FIRE-RATED WALLS.

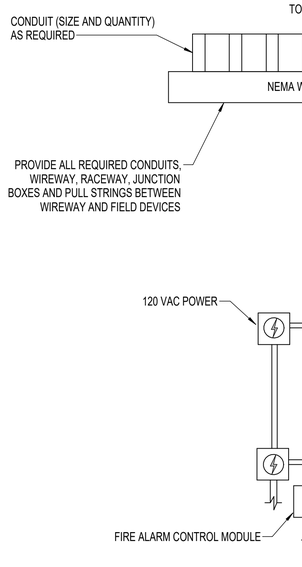
2 TYPICAL OUTLET INSTALLATION IN WALLS - TECHNOLOGY
NONE



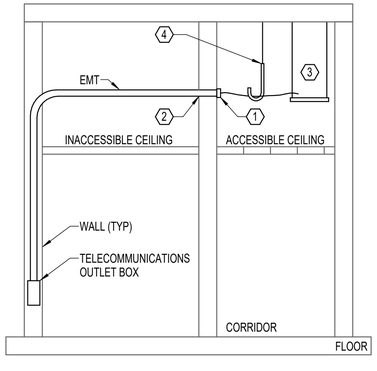
NOTES:

1. (2) 8P8C MODULES (MINIMUM), ADDITIONAL QUANTITIES AS REQUIRED, WITH BLANK FILLER INSERTS FOR UNUSED MODULE POSITIONS.
2. LABEL (TYP).
3. PROVIDE HORIZONTAL CABLES FROM THE OUTLET TO THE NEAREST TR.

1 TYPICAL SURFACE MOUNT TELECOMMUNICATIONS OUTLET - TECHNOLOGY
NONE



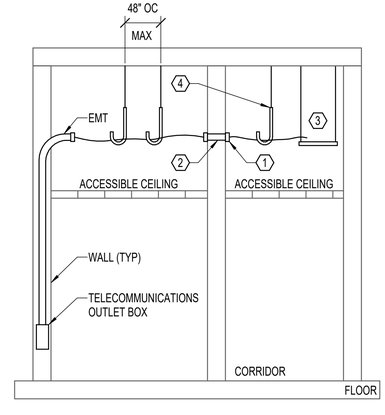
6 ACCESS CONTROL PANEL ELEVATION
NONE



NOTES:

1. EMT THROUGH WALL WITH NON-METALLIC PROTECTIVE BUSHING.
2. PROVIDE FIRE-RATED PATHWAYS AS REQUIRED.
3. WIRE MESH (BASKET) STYLE CABLE TRAY (SECURE TO STRUCTURE).
4. J-HOOK (SECURE TO STRUCTURE) (TYP).

5 TYPICAL ROUTING FOR AREAS WITH INACCESSIBLE CEILINGS - TECHNOLOGY
NONE



NOTES:

1. EMT THROUGH WALL WITH NON-METALLIC PROTECTIVE BUSHING.
2. PROVIDE FIRE-RATED PATHWAYS AS REQUIRED.
3. WIRE MESH (BASKET) STYLE CABLE TRAY (SECURE TO STRUCTURE).
4. J-HOOK (SECURE TO STRUCTURE) (TYP).

4 TYPICAL ROUTING FOR AREAS WITH ACCESSIBLE CEILING - TECHNOLOGY
NONE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

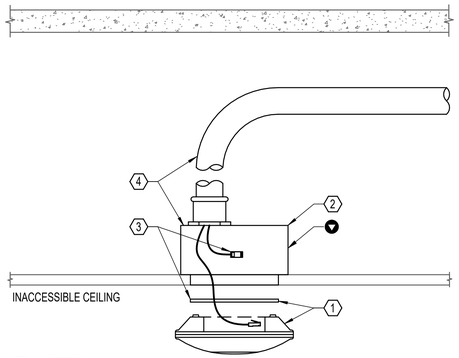
No.	Description	Date

Drawn:	Author
Checked:	Checker
M|H Proj No.:	A23.0156.00
Issue Date:	09/16/26

SHEET

DETAILS - TECHNOLOGY
T601

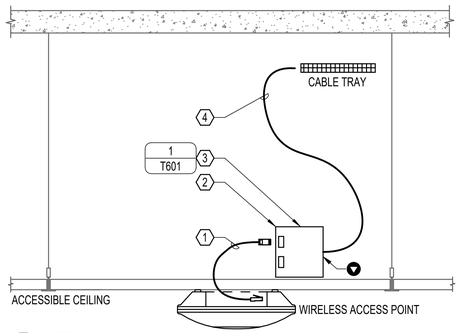
Autodesk Docs://23-1065 - City of Bellingham Cent Lib Reno/23-1065 - City of Bellingham Cent Lib Reno_MEP725.rvt
9/11/2026 11:52:47 AM



NOTES:

1. MOUNTING BRACKET AND WIRELESS ACCESS POINT.
2. TELECOMMUNICATIONS OUTLET BOX.
3. OMIT FACEPLATE AND TERMINATE TO 8P8C PLUGS WHEN BRACKET MOUNTS DIRECTLY TO BACKBOX.
4. BACKBOX WITH CONDUIT TO ACCESSIBLE CEILING (UON).

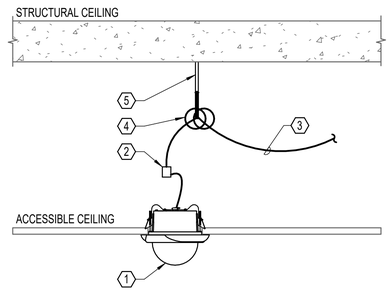
4 WAP OUTLET INSTALLATION DETAIL (INACCESSIBLE CEILINGS) - TECHNOLOGY
NONE



NOTES:

1. CITY IT TO PROVIDE AND INSTALL PATCH CORD TO WAP. CONTRACTOR RESPONSIBLE TO COORDINATE WITH CITY IT.
2. SURFACE MOUNT OUTLET TO BE LEFT UNSECURED IN ACCESSIBLE CEILING. CITY IT TO DETERMINE AND SECURE OUTLET IN FINAL LOCATION. CONTRACTOR TO COORDINATE WITH CITY IT.
3. SURFACE MOUNT TELECOMMUNICATIONS OUTLET.
4. PROVIDE CABLING TO NEAREST TO NEAREST CABLE TRAY.

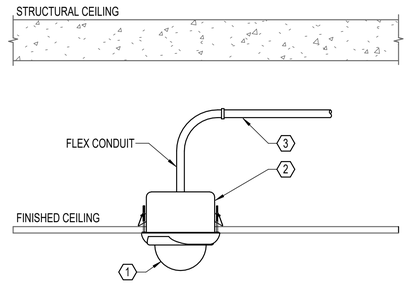
3 WAP OUTLET INSTALLATION DETAIL (ACCESSIBLE CEILINGS) - TECHNOLOGY
NONE



NOTES:

1. CAMERA DOME HOUSING.
2. 1- PORT SURFACE MOUNT BOX OUTLET.
3. CONTINUE TO NEAREST CABLE TRAY
4. COIL SECURITY CABLING, PROVIDE 36" OF SLACK.
5. PROVIDE HANGER TO SUPPORT SECURITY CABLING.

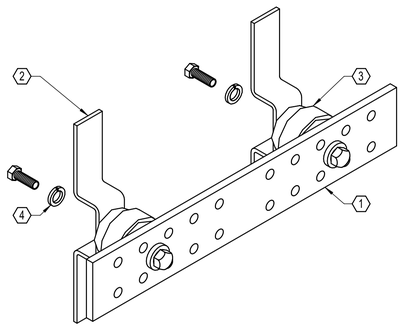
2 INTERIOR IP CAMERA (ACT CEILING MOUNTED) - TECHNOLOGY
NONE



NOTES:

1. CAMERA DOME HOUSING.
2. 4-11/16" SQ X 2-5/6"D BACKBOX.
3. 1" CONDUIT TO NEAREST ACCESSIBLE CEILING.

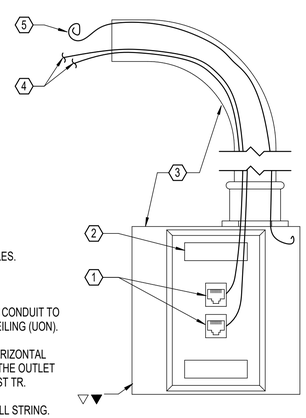
1 INTERIOR IP CAMERA (INACCESSIBLE CEILING) - TECHNOLOGY
NONE



NOTES:

1. COPPER GROUND BAR (SIZE AND HOLE CONFIGURATION AS AS SPECIFIED).
2. WALL MOUNTING BRACKET (TYP).
3. 2700V INSULATORS (TYP).
4. LOCKWASHERS (TYP).

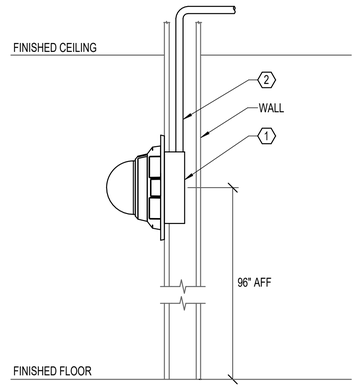
7 TYPICAL GROUNDING BAR - TECHNOLOGY
NONE



NOTES:

1. (2) 8P8C MODULES.
2. LABEL (TYP).
3. BACKBOX WITH CONDUIT TO ACCESSIBLE CEILING (UON).
4. PROVIDE (2) HORIZONTAL CABLES FROM THE OUTLET TO THE NEAREST TR.
5. PROVIDE (1) PULL STRING.

6 TELECOMMUNICATIONS OUTLET - TWO PORT
NONE



NOTES:

1. JUNCTION BOX WITH SINGLE GANG DEVICE RING.
2. 1" CONDUIT TO ACCESSIBLE CELIING.

5 INTERIOR IP CAMERA (WALL MOUNTED) - TECHNOLOGY
NONE

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

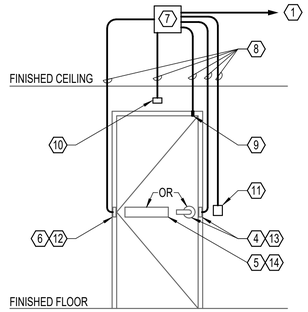
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

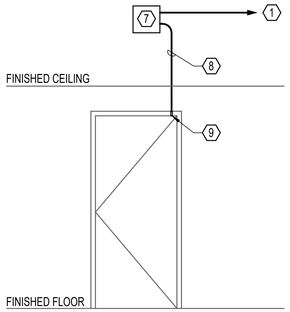
SHEET

DETAILS - TECHNOLOGY
T602

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/17/2026 11:24:29 AM



2 SINGLE DOOR - CARD READER (S2)
NONE



1 DOOR DETAIL - 01 - SINGLE - CONTACT (S1)
NONE

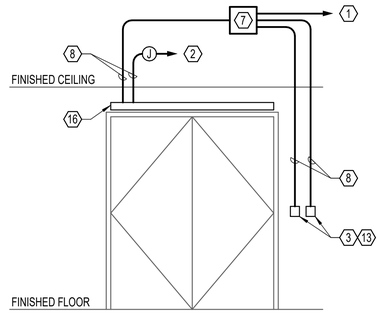
GENERAL NOTES:

A. ALL DIVISION 8 DOOR HARDWARE SHOWN IS SCHEMATIC IN NATURE. REFER TO DIVISION 8 DOOR HARDWARE SCHEDULES AND DIVISION 8 DOOR HARDWARE GROUPS FOR ADDITIONAL REQUIREMENTS. DIVISION 28 TO COORDINATE THE INTEGRATION OF THIS EQUIPMENT INTO THE ACCESS CONTROL SYSTEM.

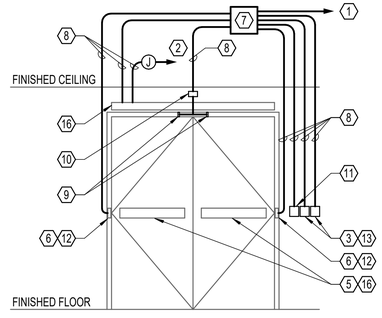
B. SEE FLOOR PLANS FOR LOCATIONS OF CARD READERS AND DOOR OPERATOR BUTTONS.

C. CABLING MAY BE ROUTED THROUGH DOOR FRAME CHANNEL WHERE PERMITTED BY CODE.

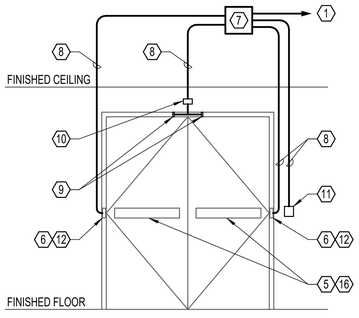
D. REFER TO DIVISION 28 ACCESS CONTROL DOOR HARDWARE SCHEDULE FOR ADDITIONAL REQUIREMENTS.



5 DOUBLE DOOR - DOOR OPERATOR ONLY (D4)
NONE



4 DOUBLE DOOR - DOOR OPERATOR, CARD READER (D5)
NONE



3 DOUBLE DOOR - CARD READER (D2)
NONE

NOTES:

1. DOOR INTERFACE COMPOSITE POWER AND SIGNAL PLENUM-RATED CABLING PER MANUFACTURER'S REQUIREMENTS. ROUTE TO NEAREST ACCESS CONTROL PANEL (DIVISION 28). WHERE POE POWERED DOOR CONTROLELRS ARE UTILIZED, DIVISION 27 SHALL PROVIDE CATEGORY CABLING FROM THE CONTROLLER TO THE NEAREST TR. PROVIDE 1" CONDUIT TO NEAREST CABLE TRAY AND/OR TR (DIVISION 26).
2. AC POWER (DIVISION 26) FOR DOOR OPERATOR/MOTOR (BY DIVISION 8).
3. FURNISHED BY DIVISION 8, INSTALLED BY DIVISION 26.
4. WHERE DIVISION 8 DOOR HARDWARE SCHEDULE/GROUPS INDICATE ELECTRIC LOCKS/ELECTRIC STRIKES, PROVIDE CONNECTION TO THE ACCESS CONTROL SYSTEM.
5. WHERE DIVISION 8 DOOR HARDWARE SCHEDULE/GROUPS INDICATE ELECTRIFIED EXIT DEVICES AND/OR PANIC HARDWARE WITH INTEGRAL REQUEST TO EXIT RELAYS, PROVIDE CONNECTION TO ACCESS CONTROL SYSTEM. PASSIVE INFRARED REQUEST TO EXIT SENSORS MAY BE OMITTED FOR THESE DOOR CONFIGURATIONS UNLESS OTHERWISE NOTED.
6. WHERE DIVISION 8 DOOR HARDWARE SCHEDULE/GROUPS INDICATE ELECTRIC TRANSFER HINGES, PROVIDE CONNECTION TO THE ACCESS CONTROL SYSTEM.
7. 12"x12"x4 JUNCTION BOX. LOCATE ON SECURE SIDE (DIV 26).
8. 3/4" CONDUIT (DIV 26).
9. RECESSED DOOR CONTACT (DIV 26).
10. REQUEST TO EXIT SENSOR (DIV 28).
11. CARD READER (NON-SECURE SIDE) (DIV 28).
12. ELEC. TRANSFER HINGE (DIV 8).
13. ELECTRIFIED EXIT DEVICE (DIV 8).
14. DOOR OPERATOR BUTTON (BOTH SIDES).
15. DOOR OPERATOR (DIV 8).
16. ELECTRIC LOCK/STRIKE (DIV 8).

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

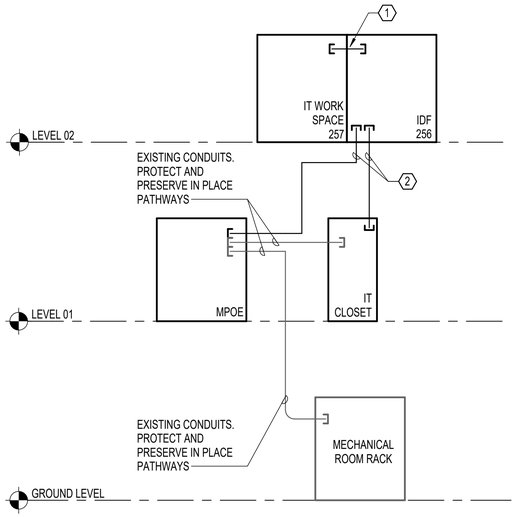
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

DETAILS - TECHNOLOGY
T603

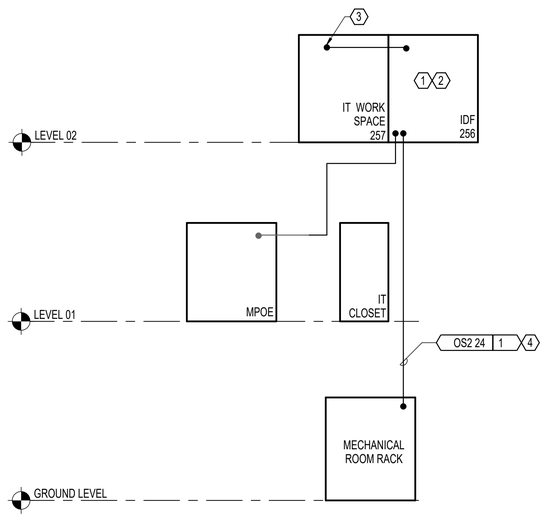
Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEPT25.rvt
9/11/2026 11:54:49 AM



NOTES:

1. (2) 4" SLEEVES TO NEW IDF.
2. (2) 2" CONDUIT.

2 CONDUIT ONE-LINE DIAGRAM - TECHNOLOGY
NONE



NOTES:

1. PROVIDE QUANTITIES OF FIBER OPTIC DISTRIBUTION UNITS AS REQUIRED TO TERMINATE TYPES AND QUANTITIES OF FIBER SHOWN ON THIS DIAGRAM.
2. PROVIDE QUANTITIES OF COPPER PUNCHDOWN BLOCKS AND/OR PATCH PANELS AS REQUIRED TO TERMINATE TYPES AND QUANTITIES OF COPPER BACKBONES SHOWN ON THIS DIAGRAM.
3. EXTEND EXISTING SERVICE LOOP TO NEW IDF AND TERMINATE AT NEW RACKS.
4. PROVIDE NEW FIBER CONNECTION FROM MECH ROOM TELECOM ENCLOSURE TO IDF TELECOM RACK

1 BACKBONE CABLING ONE-LINE DIAGRAM - TECHNOLOGY
1/8" = 1'-0"

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

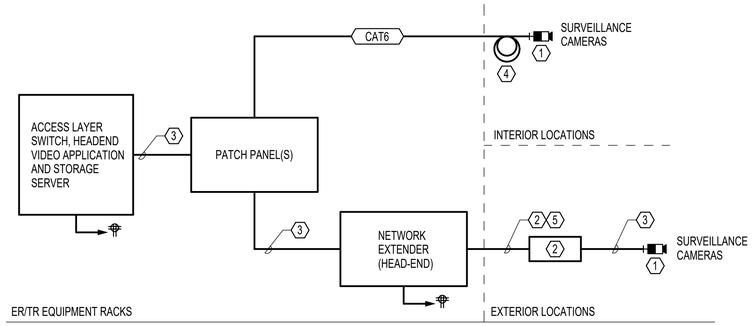
No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

DIAGRAMS - TECHNOLOGY
T701

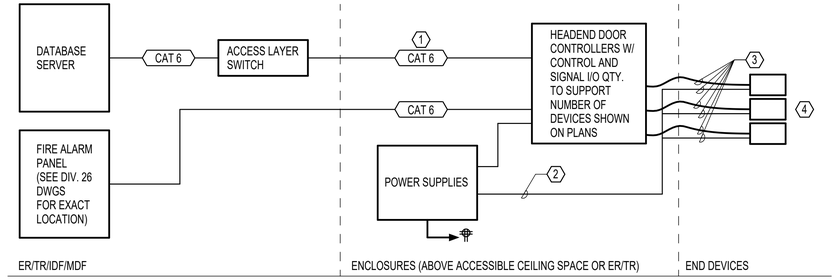
Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/11/2026 11:02:49 AM



NOTES:

1. SEE PLANS FOR DEVICE QUANTITY AND LOCATION.
2. VIDEO EXTENDERS AND CABLING.
3. CAT6 PATCH CABLES.
4. UNLESS OTHERWISE NOTED PROVIDE 10' COIL WITHIN BACKBOX AND/OR NEAREST ACCESSIBLE CEILING SPACE.
5. COMPOSITE FIBER/COPPER CABLING TO PROVIDE SIGNAL AND REMOTE POWER TO/FROM SURVEILLANCE CAMERA. PROVIDE CABLING TYPE PER TRANSMITTER/RECEIVER MANUFACTURER'S RECOMMENDATIONS.

2 VIDEO SURVEILLANCE DIAGRAM - TECHNOLOGY
NONE



NOTES:

1. PROVIDE (1) FOR EACH CONTROL UNIT.
2. PROVIDE WIRING GAUGE AS REQUIRED TO REMOTELY POWER END DEVICES.
3. WIRING GAUGE AND TYPE AS REQUIRED FOR EACH ACCESS CONTROL END DEVICE. SEE PLANS FOR DEVICE QUANTITY AND LOCATION. ALL CABLING TO BE PLENUM RATED.
4. TO ACCESS CONTROL END DEVICES AS SHOWN ON PLANS, INCLUDING CARD READERS, ELECTRIFIED LOCKS, DOOR POSITION SWITCHES, ELECTRIFIED EXIT DEVICES (WITH INTEGRAL REQUEST-TO-EXIT), DOOR OPERATOR/HANDICAPPED RELEASE BUTTONS, MOTORIZED DOOR OPERATORS.

1 ACCESS CONTROL DIAGRAM - TECHNOLOGY
NONE

Autodesk Docs://23-1065 - City of Bellingham Cent Lib Renov/23-1065 - City of Bellingham Cent Lib Renov_MEP725.rvt
9/11/2026 11:42:56 AM

MILLER HULL
The Miller Hull Partnership, LLP
Architecture and Planning
Polson Building
71 Columbia, Sixth Floor
Seattle, WA 98104
Phone: 206.682.6837
Contact: Name

PAE
pae-engineers.com

STAMP

BELLINGHAM CENTRAL LIBRARY

210 CENTRAL AVE,
BELLINGHAM, WA 98225

SUBMITTAL

BID SET

SEPTEMBER 16TH, 2026

REVISIONS

No.	Description	Date

Drawn: Author
Checked: Checker
M|H Proj No.: A23.0156.00
Issue Date: 09/16/26

SHEET

DIAGRAMS - TECHNOLOGY

T702