801 Second Avenue/Suite 315 Seattle, WA 98104 P 206 582-5800 www.flad.com

WWAMI Medical Education Building, Improvements/Expansion

University of Idaho, Mosco, Idaho

Flad Project # 18050-05 University of Idaho CP # 240022

ADDENDUM 01 10/14/2024

This addendum form is a part of the Contract Documents and is issued to modify or interpret previously issued Bid Documents dated <u>06/28/2024</u>. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification. This Addendum consists of 4 pages and attached documents identified with the Addendum number and date. Replace previously issued documents of like number with those revised and reissued by this Addendum. Insert added documents and remove deleted documents as applicable.

CONTENTS:

- 1. Accepted Substitutions
- 2. Pre-Bid Conference Meeting Minutes and sign-in sheet
- 3. Plan Holders List
- 4. Plan + Specification clarifications

SUBSTITUTIONS:

This is an acceptance of general quality only. No attempt has been made to check each material as to special features, capacities, or physical dimensions specially required for the project. It shall be the responsibility of the supplier, manufacturer, and contractor to check all requirements before submitting for final acceptance. Final acceptance of exact features, sizes capacities, etc., all of which must match materials indicated and specified, will be determined when submitted during the construction period. Certain acceptances are subject to the conditions noted.

Section/Sheet	ltem	<u>Manufacturer</u>
03 3553	Concrete Sealer	SINAK
09 6105	Water Vapor Emission Control System	SINAK
09 8430	Sound-Absorbing Wall and Ceiling Units	Cardinal Acoustics
E-001	Light Fixture Type E	Sure-Lites
E-001	Light Fixture Type E2	Sure-Lites
E-001	Light Fixture Type F	Lighthead
E-001	Light Fixture Type J	Oxygen
E-001	Light Fixture Type K	Portfolio
E-001	Light Fixture Type KADJ	Portfolio
E-001	Light Fixture Type L	Metalux
E-001	Light Fixture Type X	Arcluce

GENERAL:

- 1. Sheet G-001 (Cover)
 - a. Fire Protection sheet index has been updated to REMOVE sheet F-102 which is no longer in the project and ADD sheet F-502 FIRE PROTECTION DETAILS.
 - b. List of alternates has been updated to show only (3) add alternates as described in specification.

CIVIL:

(none)

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LANDSCAPE:

- 1. Sheet L-200
 - a. Drawing 8 REMOVE note pertaining to deduct alternate showing concrete patio paver in lieu of permeable paver in base design

ARCHITECTURAL:

- 1. Sheet AD-002
 - Drawing 2 REVISED to show removal of existing 1x4 ACT ceiling and protection of lighting and MEP in existing SGL 121 rooms to remain
 - b. Drawing 4 REVISED note to include patching of existing building facade sheathing after installation of new structural framing.
- 2. Sheet A-120
 - a. Drawing 1 REVISED ceilings in SGL 121 Rooms to be ACT-04. ADD Callout detail of ACT-04 assembly
 - b. Drawing 1 REVISED note on Flex Room alternate scope to read "Add-Alt 1" instead of "Add-Alt 3".
- 3. Sheet A-802
 - a. ADD Drawing 5 detailing ACT-04 assembly

STRUCTURAL:

(none)

MECHANICAL:

(none)

FIRE PROTECTION:

- Sheet F-100

 REVISED notation on plans indicating combined water servicing piping to building by Div. 22.
- 2. Sheet F-101
 - a. REVISED notation on plans indicating combined water servicing piping to building by Div. 22.
- 3. Sheet F-501
 - a. REVISED details to indicate temporary scope of work required for Div. 21.
- 4. Sheet F-502
 - a. ADDED new sheet to indicate demolition of temporary fire service and relocated permanent fire protection service detail previously on sheet F-501.

PLUMBING:

- 1. Sheet P-101
 - a. REVISED notation on plans indicating combined water servicing piping to building by Div. 22.
- 2. Sheet P-501
 - a. REVISED detail 2/P-501 to indicate combined water servicing piping to building by Div. 22.

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ELECTRICAL:

- 1. Sheet E-001
 - a. UPDATE Communication Symbols to specify owner provided / owner installed Telecommunications cabling and associated equipment

TELECOMMUNICATIONS:

- 1. Sheet T-101
 - a. UPDATE Communication Symbols to specify owner provided / owner installed telecommunications cabling and associated equipment
- 2. Sheet T-401
 - a. UPDATE General Notes to specify owner provided / owner installed telecommunications cabling and associated equipment
- 3. Sheet T-501
 - a. UPDATE Detail Notes to specify owner provided / owner installed telecommunications cabling and associated equipment
- 4. Sheet T-801
 - a. UPDATE General Notes to specify owner provided / owner installed telecommunications cabling and associated equipment

ATTACHMENTS:

Pre-Bid Meeting minutes dated 10/08/2024 (including sign-in sheet) Drawings

- G-001 COVER SHEET
- L-200 LAYOUT AND GRADING PLAN ENLARGEMENT
- AD-002 DEMO FLOOR PLAN, REFLECTED CEILING PLAN, & ELEVATIONS
- A-121 REFLECTED CEILING PLAN
- A-802 CEILING DETAILS
- F-100 FIRE PROTECTION PLANS BELOW GRADE
- F-101 FIRE PROTECTION PLANS LEVEL 1
- F-501 FIRE PROTECTION DETAILS
- F-502 FIRE PROTECTION DETAILS
- P-101 FLOOR PLAN PLUMBING
- P-501 PLUMBING DETAILS
- E-001 LEGENDS & ABBREVIATIONS -ELECTRICAL
- T-101 FLOOR PLAN TELECOMMUNICATIONS
- T-401 ENLARGED PLANS TELECOMMUNICATIONS
- T-501 DETAILS TELECOMMUNICATIONS
- T-801 RISER DIAGRAM TELECOMMUNICATIONS

BLD-093 WWAMI Health Education Annex Addendum 01 10/14/2024 UI CP # 240022 / Flad #18050-00

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Spec Section:

- 2-7 Enumeration of Contract Drawings and Specifications
- 03 3553 Concrete Sealer
- 09 6105 Water Vapor Emission Control System
- 09 8430 Sound-Absorbing Wall and Ceiling Units
- 27 0500 Common Work Results for Communications
- 27 1100 Communications Equipment Room Fittings
- 27 1300 Communications Backbone Cabling
- 27 1500 Communications Horizontal Cabling

END OF ADD

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-	
	October 08, 2024
	Meeting Date
18050-05	October 14, 2024
Flad Project Number	Date Distributed
UI CP 240022	1 of 4
Client Project Number	Page
	Flad Project Number UI CP 240022

Attendees:

See attached sign-in sheet.

Project Team Introductions

Design ProfessionalJennifer Hing / Project ManagerPhone:206-582-5814E-mail:jhing@flad.com

Ari Grant / Job Captain 206-582-5819 agrant@flad.com

University of Idaho Architectural & Engineering Services Daryle Faircloth / Project Manager Phone: 208-596-0802 E-mail: darylef@uidaho.edu

Matt Proctor / Construction ManagerPhone:208-596-0357E-mail:mrpproctor@uidaho.edu

Aaron Rice / Construction Inspector 208-885-6249 agrice@uidaho.edu

Description of The Project: (Refer to Specification Section 01100 - Summary of Work.)

The work consists of all labor, materials, equipment and services, necessary to provide a 5,392 GSF single-story addition to the west end of the existing WWAMI Medical Education Building consisting of faculty, meeting rooms and study space.

Bid Opening / Bid Proposal:

- Bid Opening is on <u>Wednesday, October 23, 2024 at 2:00pm</u> at Architectural and Engineering Services, 875 Perimeter Drive, Moscow, Idaho 83844. Bring bids to the Facilities front desk prior to 2:00 where they will be time stamped by the attendant. Make bids attention to Daryle Faircloth.
- 2. This project requires a State of Idaho Public Works contractor's license for general and sub-contractors prior to submitting the bid. A 5% Bid Bond is required to be submitted with each Bid.
- 3. Bidders shall take care to fill out the Bid Proposal correctly using verified business names and license numbers for general and sub-contractors listed on the bid form. Fill in all spaces, do not leave blank.
- 4. Make sure to list all Alternates and receipt of addendums.
- 5. Make sure to include all required paperwork with the bid. (Bid bond, Power of Attorney, Contractor's Affidavit Concerning Alcohol and Drug-Free Workplace.)
- 6. Each Bid submitted must be good for 30 days after the Bid Opening.

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CP240022 BLD-093 UI WWAMI Medical Educat	ion Building Health Annex		
Addition	October 08, 2024		
Project Name		Meeting Date	
UI Facilities, Ponderosa Conf Room	18050-05	October 14, 2024	
Meeting Location	Flad Project Number	Date Distributed	
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Type of Meeting	Client Project Number	Page	

- 7. 100% Performance and Labor and Materials Payment Bonds are required for this project.
- 8. There is **no** federal funding on this project and there are **no** prevailing wage requirements.

Construction Contract / Duration:

- 1. The Construction Contract period is <u>three hundred (300)</u> consecutive calendar days from issuance of the Notice to Proceed. If bids are favorable, the Owner intends to issue the N.T.P as soon as possible.
- 2. Contract to be standard AIA contracts with University of Idaho standard modifications as outlined in the Specifications.
- 3. Liquidated Damages will be assessed at <u>\$500</u> per day for not completing work within the 300-day contract period as outlined in the Bidding and Contract Requirements.
- 4. The estimated construction cost is <u>\$3,400,000.00</u> for Base Bid as published in the Ad for Bid.

Bid Addenda:

1. Addendum No. 01 will be issues on or about Friday, October 11, 2024, and will include the meeting minutes and the attendance sheet from this Pre-Bid Conference.

Permits and Inspections:

- The State of Idaho Division of Building Safety requires Building Permits for all University of Idaho (and State of Idaho) projects. The contractor shall include the cost of the permit in the bid, as well as obtain the permit at the necessary time. The fee schedule for building permits can be found at the DBS website.
- 2. The Owner / Design Professional has already processed and paid for the plan review with the Division of Building Safety for this project. The drawings are approved and ready for permit application. The Plan Review ID# will be issued to the successful bidder.
- 3. The Owner will hire a qualified special testing agency for all required construction testing on the project. (Soils, concrete testing, welds, etc ...)

Base Bid & Alternates:

There are three (3) alternates for this project. MAKE SURE TO FILL OUT ALL ALTERNATES ON THE BID PROPOSAL.

Add-Alt 1: Flex Room 176 ceiling, CPT, WB02, MB03, MB04 and casework shown on 7/A703 and detail 1/A803, lighting, mechanical scope, AV scope. Base bid shall include furred interior gwb per details and recess for MB03 per 6/A703 and 3/A803.

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Add-Alt 2: is to include the sliding exterior pocket door from the Flex room to the courtyard and all associated scope such as the recessed curb, door pocket framing, and exterior closures where the door abuts the curtain wall. The base scope is curtain wall. Refer to sheet A-101 and A-202.

Add-Alt 3: is to include WD-01 to vertical partitions and faceted soffits around the perimeter of the Conference + Mixing Zone Pod/Nugget over the gwb in the base bid. Refer to sheet A-701 and A-703 for this scope. Note that the open room Mixing Zone 167 faceted ceiling SFT1 and MB4 east wall are in the base bid.

Substitution Requests:

1. Substitution requests are to be submitted to the Architect (Flad) for review and consideration 10-days prior to the final addendum issue date on or about Oct 18, 2024. If submitted less than the 10-day time period, substitution request may or may not be included in the final addendum.

Project Schedule / Coordination Items:

- 1. Anticipate NTP on or before December 1st, 2024.
- 2. The existing building will be occupied during construction of the addition and so coordination is required to minimize impact to users.
- Coordination with the occupants is required for work required withing the existing building as necessary to work around class schedules and other building activity. Interior work at the existing building, includes but not limited to, the west SGL spaces; electrical room and adjacent hallways; existing water riser room.

Construction Laydown and Staging Area:

- 1. Adequate construction staging / lay down space will be provided to the contractor. Likely the south side of the existing building. Ensure that materials are secured because site highly visible is directly off Main Street.
- 2. The construction site and the adjacent staging/storage area must be enclosed by a chain link fence.

Parking:

- 1. Parking availability is at a premium, and parking enforcement is a critical issue on campus. Violators, including contractors, will be ticketed. Unpaid tickets will be charged to the Contractor.
- 2. Construction equipment may be parked within the site confines without a permit.
- 3. Construction parking permits will be issued to the General Superintendent and the Superintendent for each major subcontractor for their shop pickups. These vehicles must be parked within the site confines or in designated spaces nearby. Construction Permits are issued free by Facilities.

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Review of the project and plans - Flad presentation:

- 1. A digital presentation through the new addition of the building presented.
- 2. A quick page turn through construction documents presented.

Questions and/or Discussion:

- 1. NOTE: Project is under direct UI contract only. State of Idaho DPW is not involved.
- 2. NOTE: Daryle and Matt will be on site regularly, but coordination items will ultimately need to go through Flad, Flad will act as primary POC for submittals/RFI's etc.
- 3. NOTE: Ceilings in existing SGL rooms 121B, 121C, 121D, and 121E are to be removed and replaced while protecting existing lighting and MEP for reinstallation. This will be clarified in Addendum 1 issuance.
- 4. QUESTION: What is the invert elevation of the existing 4" water service pipe?
 - ANSWER: Existing 4" water service pipe is estimated to be at +2574.3 (approx. 6' below L1 slab elevation) per DCI engineers. No definitive documentation on the height of this pipe could be found.
- 5. QUESTION: Who provides the new 4" combined domestic/fire service water piping within 5' of the building? Div. 21 or Div. 22?
 - ANSWER: Div. 22, however, MW will revise plumbing plans under Addendum 1 to further clarify.

Post Meeting Site Walk-Thru:

Attachments:

- 1. Current plan holder list
- 2. Pre-Bid Meeting sign-in sheet(s)

END OF MEETING NOTES

Reported By: Ari Grant / Flad Architects

The foregoing represents our best understanding of the discussions held and decisions reached at this meeting. Please advise the writer of any errors or omissions of substance.

UNIVERSITY OF IDAHO ARCHITECTURAL & ENGINEERING SERVICES PRE-BID CONFERENCE SIGN IN SHEET

UI CP240022 - WWAMI MEB Health Annex Addition

Tuesday, October 08, 2024 - 10:00AM

NAME	COMPANY	TELEPHONE NUMBER	E-MAIL ADDRESS
Daryle Faircloth	UI AES	208-885-7346	darylef@uidaho.edu
Jennifer Hing	Flad Architects	206-582-5814	jhing@flad.com
Ari Grant	Flad Architects	206-582-5819	agrant@flad.com
Justin Cooper	Ginno Construction	208-661-1397	justin @ ginno construction. com
Pavid Loree	Quality contractors	208-596-5943	dloree@quality-contractors.com
James McElroy	Quality Contractors	720-262-3816	James @quality-contractors.com
5 859 EVQ15	IRS Environmental	509-998-2595	M blankenship@issonviro.com
Etters Kircup	1686	208 553 4404	ekilcupekandoconstruction 11c. com
Leo Millstein	Mikes	208 669 0170	Leo Millstein @ mike - Mechanial . 10m
Typel Funke	mikes	208-807-1654	tyrelf @ mikes-mechanickel. an
Tyler Craigie	Fastsigns	509-254-3075	tyler. Craigie @ fastsigns.com
Atexandra McDonaugh	Fastoigno	509 552 0,08	alt.X. mcdonough@fastsigns.com
Aaron Mangum	Mangum Construction	509-254-1034	aaron 2 margin - construction. com
JERRY HANSED	Georgeuc	509-336-3972	JHANSEN Moscolog
Travis Schluneger	Gropp LLC	509-595-8114	broppestimator equail, com
Chris Roberson	ATS Inland NW	509.842.0085	chrisro Catsinu, com
BRIAN ELLWAY	Wright BrosTBC.	208-869-9236	BELLWAY @WBNATION. Com
Kenny Oakes	RM	208-816-2137	Kenny @rmmechanical, net
Chal Hinkley &	Air. Ops HVAC	208.791.7916	Ched . Winkley @ Air. O.DSHV/1C. com

NAME	COMPANY	TELEPHONE NUMBER	E-MAIL ADDRESS
Deacon Norton	RLH Fire Protection UI Facilities Gwands	(208)626-5662	dnorton@rLhFP.com ccarson@uidaho.edy
Craix Canson	UE Facilities Gwands	208.608-4722	ccarson@uidaho.edy
Davis BLAWDFORD	YMCINC	208 573-2605	ablandford Bymeinic. Com
Scutt Crow	Crow Electric	2-58 791-3973	Scott Derowelectric 1k. com
Kevin Lamb	Shetten Construction	801 946 0087	Klamb@sletteninc.com
Josh Orr	Strom Electric Inc.	(208) 596-8398	jorr@stromelectric.net
FETER HOLEROOK	RLH FIRE TRO	208 292 7720	jorr & stromelectric. net PHOLBROOK@RLHEP.Com
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University of Idaho Architectural & Engineering Services

CP240022 - WWAMI Medical Education Building Medical Health Annex Addition 121 Sweet Ave, Moscow, ID 83844

Bids Due: Wednesday, Oct 23, - 2:00PM Pacific Local Time Project Plan Holders List: Updated October 11, 2024

PLAN CENTERS							
Name	Address	City, State	Person	Phone	Email		
Abadan Plan Center	603 E 2nd Ave.	Spokane, WA 99202	Ron Sayler	(509) 747-2964	planroom@abadanplancenter.com	PDF	Plan Center
AGC Idaho-Boise Plan Room	1649 W Shoreline Dr Ste 100	Boise, ID 83702	Amanda Lines	208-472-0453/F-343-2521	planroom@idahoagc.org	PDF	Plan Center
ARC Document Solutions	2700 W. Idaho Street	Boise, ID 83702 Boise, ID 83702	Mike Mahan	208-342-4141	mike.mahan@e-arc.com	PDF	Plan Center
Associated Builder & Contractors	1760 E. Trent Ave.	Spokane, WA 99202		509-534-0826	admin@abcipc.org	PDF	Plan Center
The Blue Book	800 East Main St.	Jefferson Valley, NW 10535	Tarissa	845-208-8602		PDF	Plan Center
					bidinfo@mail.thebluebook.com		
Blueprint Specialties	6205 Overland Rd	Boise ID, 83709	Shawn	208-337-0294/F-208-323-9176	mail@bpsboise.com	PDF	Plan Center
Builders Exchange of WA	2607 Wetmore Ave	Everett, WA 98201		425-258-1303/F-259-3828	production@bxwa.com	PDF PDF	Plan Center Plan Center
Butte Builders Exchange	4801 Hope Road	Butte, MT 59701	Deia Kishaall	406-782-5433/F-782-5433	butteplans@gmail.com		
Plan Center Northwest	PO Box 2486	Clackamas, OR 97015	Brie Kidwell	503-650-0148	brie@plancenternw.com	PDF	Plan Center
Contractor Plan Center, Inc.	5468 SE International Way	Milwaukie, OR 97222	Svea Erickson	503-650-0148	svea@contractorplancenter.com	PDF	Plan Center
Construct Connect	3825 Edwards Rd., Suite 800	Cincinnati, OH 45209	Stacey Mighton	800-364-2059/F866-570-8187	Content@constructconnect.com	PDF	Plan Center
Construct Connect	3825 Edwards Rd., Suite 800	Cincinnati, OH 45209	Henri Bradshaw	800-364-2059/F866-570-8187	henri.bradshaw@constructconnect.com	PDF	Plan Center
Construct Connect			James Baah	513-458-5813	James.Baah@Constructconnect.com	PDF	Plan Center
Daily Journal of Commerce of Oregon	921 S.W. Washington St. Suite 210	Portland, OR 97205	Plan Room	503-274-0624	plancenter@djcoregon.com	PDF	Plan Center
Deltek, Inc.	2291 Wood Oak Drive	Herndon VA 20171	Jacqueline Sessa		PublicRecords@deltek.com	PDF	Plan Center
Dodge Data & Analytics			Carol Reichel		carol.reichel@construction.com	PDF	Plan Center
Dodge Data & Analytics			April Hamilton	413-304-2008	april.hamilton@construction.com	PDF	Plan Center
Dodge Data & Analytics			Adam Bouman		dodge.bidding@construction.com	PDF	Plan Center
Dodge Data & Analytics			Rechie Manalop	844-326-3826 ext. 7134	Rechie.Manalop@construction.com	PDF	Plan Center
Hermiston Plan Center	1565 N 1st St Ste 8a	Hermiston, OR 97838	Staci McQuain	(541) 564-0420	office@hermistonplancenter.com	PDF	Plan Center
Idaho Plan Room	4082 Chinden Blvd.	Boise, ID 83714		208-342-4141/F-208-343-5894	boise.print@e-arc.com	PDF	Plan Center
Inland NW AGC	4935 E Trent Avenue	Spokane, WA 99212	Mary Tantriella	509-534-1446/F-535-2680	mtantriella@nwagc.org	PDF	Plan Center
Lewiston-Clarkston Plan Service	2117 12th Avenue	Lewiston, ID 83501	Celia Weibler	(208) 746-3591/F (208) 746-5541	lcplancenter@gmail.com	PDF	Plan Center
Missoula Plan Exchange	201 N Russell St	Missoula, MT 59801	Twyla Brooks	406-549-5002	mpe@vemcoinc.com	PDF	Plan Center
Postal Copy Plus	601 3rd Street	Clarkson, WA 99403	Dave Irby	509-758-0234	postalcopy@gmail.com	PDF	Plan Center
Premier Builders Exchange	1902 NE 4th St	Bend, OR 97701	Candice Gerhardt	(541) 389-0123	admin@plansonfile.com	PDF	Plan Center
Seattle Daily Journal of Commerce	83 Columbia Street	Seattle, WA 98104	Ken Elliott	(206) 622-8272	<u>plans@djc.com</u>	PDF	Plan Center
Seattle Daily Journal of Commerce			Chrisy Martin	206-622-8272	chrisy.martin@djc.com	PDF	Plan Center
Seattle Daily Journal of Commerce			Alexandra Lavorato	206-622-8272	alex.lavorato@djc.com	PDF	Plan Center
Spokane Regional Plan Center	209 N Havania St	Spokane, WA 99220	Jenny Martin	509-328-9600/F-7279	projectinfo@plancenter.net	PDF	Plan Center
Tri Cities Construction council	20E Kennewick Ave	Kennewick, WA 99336	Christina Camp	509-582-7424/F509-582-6815	christina@tcplancenter.com	PDF	Plan Center
Tri Cities Construction council	20E Kennewick Ave	Kennewick, WA 99336	Kailey Casey	509-582-7424/F509-582-6815	bidinfo@tcplancenter.com	PDF	Plan Center
Walla Walla Valley Plan Center	29 E Sumach St	Walla Walla, WA 99362	Kyle Tarbet	(509) 525-0850	ktarbet@wwvchamber.com_	PDF	Plan Center
Yakima Plan Center	1909 W Lincoln Ave #2	Yakima, WA 98902	Jacki Bernardino	(509) 457-4271	jacki@yakimaplancenter.com	PDF	Plan Center
Univ of Idaho Arch & Engineering Services	875 Perimeter Drive, MS 2281	Moscow, ID 83844-2281	Daryle Faircloth	208-885-7346	darylef@uidaho.edu	PDF	Owner
Flad Architects		Seattle, WA 98104	Ari Grant	206-582-5819	agrant@flad.com	PDF	Architect
Contractors Notified at time of Ad	for Bid:						
Quality Contractors	307 Main St.	Deary, ID 83823	Gabe French	208-877-1840	gabe@quality-contractors.com	PDF	GC
Ginno Construction	3893 N. Schreiber Way	Coeur d'Alene, ID 83815	Matt Gray	208-667-5560	matt@ginnoconstruction.com	PDF	GC
A&R Construction	2037 2nd Avenue N.	Lewiston, ID 83501	Ron Trees	208-746-3394	office@a-rconst.com	PDF	GC
K&G Construction	625 D Street	Lewiston, ID 83501	Chris Kilcup	208-553-4404	ckilcup@kandgconstructionllc.com	PDF	GC
Gemer Construction	2710 Highway 95 South	Moscow, ID 83843	Dave Germer	208-882-8482	germer@moscow.com	PDF	Util / Earth
Gropp Heating, Air & Electric	225 W A Street	Moscow, ID 83843	Jerry Hansen	208-882-7672	jhansen@moscow.com	PDF	Elec
Gropp Heating, Air & Electric	225 W A Street	Moscow, ID 83843	Scott Gropp	208-882-7672	scottegropp@gmail.com	PDF	HVAC
Inland NW Painting		Pullman, WA 99163	Alan McDonald	208-596-8216	goodbznss@gmail.com		Painting
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Icon Roofing	3410 N Eden Road	Spokane, WA 99216	Alan Haas	509-413-8009	allan@iconroofing.com	PDF	Roofing
Kenaston Corp	2517 Main Street	Lewiston, ID 83501	Reece Hewett	208-746-1351	rhewett@kenaston.com	PDF	GC
United Contracting		Lewiston, ID 83501	Pat Shell	208-790-1052	unitedpshell@gmail.com	PDF	Conc
RM Mechanical	2017 3rd Ave N	Lewiston, ID 83501	Kenny Oakes	208-791-7916	kenny@rmmechanical.net_	PDF	MEP
ML Albright & Sons	6182 Lapwai Road	Lewiston, ID 83501		208-743-2100	sharona@mlalbright.com	PDF	Util / Earth
Crow Electric	404 Stubbs Ave	Reubens, ID 83548	Scott Crow	208-791-3973	Scott@CrowElectricLLC.com	PDF	Elec
McKinstry - INW Energy		Spokane, WA	Casey McGourin	509-625-7261	caseym@mckinstry.com	PDF	MEP
Mike's Heating and Air Conditioning	1005 Warner Ave	Lewiston, ID 83501	Kelly Watkins	208-743-0776	kellyw@cableone.net	PDF	HVAC
Motley & Motley	6901 State Route 270	Pullman, WA 99163	Kenny Ailor	509-872-2200	kenny@motleymotley.com	PDF	Paving
Strom Electric	405 S Main Street	Troy, ID 83871	Lance Styer	208-835-2331	lstyer@stromelectric.net	PDF	Elec



SHEET NUMBER	SHEET NAME		SHEET NUMBER	SHEET NAME
G-001	COVER SHEET & SHEET INDEX		A-001	GENERAL NOTES, ABBREVIATIONS, & LEGENE
G-101	LIFE SAFETY PLAN		A-011	SITE & VICINITY PLAN
		_	AD-001	DEMO SITE PLAN
			AD-002	DEMO FLOOR PLAN, REFLECTED CEILING PLA
		-	A-100	FLOOR PLAN - OVERALL
	CIVIL		A-101	FLOOR PLAN
	UIVIL		A-102	SLAB & DIMENSIONAL PLANS
SHEET NUMBER	SHEET NAME		A-111	ROOF PLAN
C-001	GENERAL CIVIL INFORMATION		A-121	REFLECTED CEILING PLAN
C-002	GENERAL NOTES		A-151	FINISH & FURNITURE PLAN
C-101	EXISITING SITE CONDITIONS AN DEMOLITION PLAN		A-201	BUILDING ELEVATIONS
C-102	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN		A-202	BUILDING ELEVATIONS
C-103	CIVIL SITE PLAN		A-301	BUILDING SECTIONS
C-104	SITE GRADING PLAN		A-302	BUILDING SECTIONS
C-105	SITE STORMWATER AND UTILITY PLAN		A-401	EXTERIOR WALL SECTIONS
C-501	DETAILS		A-402	EXTERIOR WALL SECTIONS
			A-403	EXTERIOR WALL SECTIONS
			A-501	EXTERIOR DETAILS - CLADDING
r		7	A-502	EXTERIOR DETAILS - CURTAIN WALL
	LANDSCAPE		A-503	EXTERIOR DETAILS - CURTAIN WALL
			A-504	EXTERIOR DETAILS - DOORS
SHEET NUMBER			A-505	EXTERIOR DETAILS - ROOF
L-100	OVERALL SITE PLAN		A-506	EXTERIOR DETAILS - ROOF
L-200	GRADING PLAN ENLARGEMENT		A-601	SCHEDULES - DOOR, FINISH, & MATERIALS
L-300	PLANTING PLAN ENLARGEMENT		A-611	PARTITION TYPES
			A-701	INTERIOR ELEVATIONS - CORRIDORS & MIXIN
			A-702	INTERIOR ELEVATIONS - FLEX ROOM, CONFE
			A-703	INTERIOR ELEVATIONS - ALTERNATES

IRRIGATION SHEET NUMBER SHEET NAME IR-300 IRRIGATION NOTES AND LEGEND IR-301 IRRIGATION PLAN IR-302 IRRIGATION DETAILS

GENERAL

A-121	REFLECTED CEILING PLAN
A-151	FINISH & FURNITURE PLAN
A-201	BUILDING ELEVATIONS
A-202	BUILDING ELEVATIONS
A-301	BUILDING SECTIONS
A-302	BUILDING SECTIONS
A-401	EXTERIOR WALL SECTIONS
A-402	EXTERIOR WALL SECTIONS
A-403	EXTERIOR WALL SECTIONS
A-501	EXTERIOR DETAILS - CLADDING
A-502	EXTERIOR DETAILS - CURTAIN WALL
A-503	EXTERIOR DETAILS - CURTAIN WALL
A-504	EXTERIOR DETAILS - DOORS
A-505	EXTERIOR DETAILS - ROOF
A-506	EXTERIOR DETAILS - ROOF
A-601	SCHEDULES - DOOR, FINISH, & MATERIALS
A-611	PARTITION TYPES
A-701	INTERIOR ELEVATIONS - CORRIDORS & MIX
A-702	INTERIOR ELEVATIONS - FLEX ROOM, CON
A-703	INTERIOR ELEVATIONS - ALTERNATES
A-711	INTERIOR SECTIONS
A-801	INTERIOR DETAILS
A-802	CEILING DETAILS
A-803	CASEWORK & MILLWORK DETAILS
A-811	SIGNAGE PLAN & DETAILS

A-901 3D PERSPECTIVES

These plans have been reviewed for code compliance based on the submitted documents and plan sheets, and have been found, to be, substantially code compliant, all other code compliance requirements shall be completed through field inspections, verifications, and approvals by the field building inspector. . See Plan Review notes: The plan review notes shall always be attached to the stamped approved plans and documents. These are part of the plans and shall be a permanent record with the plans. Inspection shall not take place without a complete set of the Idaho Division of Occupational and Professional Licenses (IDOPL) plan review notes and approved, stamped plans on site.

Construction Safeguards

Construction safeguards shall be required for any and all demolition and or construction to ensure public safety. Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure. All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.

Sprinkler Note

In tenant renovations and remodels, the installation, deletion, or movement of any walls may affect the sprinkler performance. A sprinkler evaluation by a licensed sprinkler contractor should be made to ensure that any modification to the sprinkler system is warranted. Any alteration deletions or additions to the system shall be by a licensed sprinkler contractor and be approved by the Fire Marshal through plan review and inspection.

ARCHITECTURAL
SHEET NAME
AL NOTES, ABBREVIATIONS, & LEGENDS
VICINITY PLAN
SITE PLAN
FLOOR PLAN, REFLECTED CEILING PLAN, & ELEVATIONS
PLAN - OVERALL
PLAN
DIMENSIONAL PLANS
PLAN
CTED CEILING PLAN
& FURNITURE PLAN
IG ELEVATIONS
NG ELEVATIONS
NG SECTIONS
NG SECTIONS
OR WALL SECTIONS
OR WALL SECTIONS
OR WALL SECTIONS
OR DETAILS - CLADDING
OR DETAILS - CURTAIN WALL
OR DETAILS - CURTAIN WALL
OR DETAILS - DOORS
OR DETAILS - ROOF
OR DETAILS - ROOF
ULES - DOOR, FINISH, & MATERIALS
ION TYPES
OR ELEVATIONS - CORRIDORS & MIXING ZONE
OR ELEVATIONS - FLEX ROOM, CONFERENCE, OFFICE, SGL, & GNB
DR ELEVATIONS - ALTERNATES
DR SECTIONS
OR DETAILS
GDETAILS
ORK & MILLWORK DETAILS
GE PLAN & DETAILS
ODECTIVES.

	STRUCTURAL
SHEET NUMBER	SHEET NAME
S-001	GENERAL NOTES
S-002	SPECIAL INSPECTIONS
S-101	FOUNDATION PLAN
S-102	ROOF FRAMING PLAN
S-201	FOUNDATION DETAILS
S-202	FOUNDATION DETAILS
S-301	FRAMING DETAILS
S-302	FRAMING DETAILS
S-303	FRAMING DETAIL
	MECHANICAL
SHEET NUMBER	SHEET NAME
M-001	LEGENDS AND ABBREVIATIONS - MECHANICAL
MD-101	FLOOR PLAN - DEMO HVAC
M-010	CRAWL SPACE PLAN - HVAC
M-100	FLOOR PLAN - OVERALL - HVAC
M-101	FLOOR PLAN - HVAC
M-102	ROOF PLAN - MECHANICAL
M-301	SECTIONS - HVAC
M-501	DETAILS - HVAC
M-601	SCHEDULES - HVAC
M-701	CONTROL DIAGRAMS - HVAC

FIRE PROTECTION

SHEET NUMBER	SHEET NAME
F-001	FIRE PROTECTION SYMBOLS AND ABBREVUATIONS
FD-100	FIRE PROTECTION PLANS BELOW GRADE DEMOLITION
FD-101	FIRE PROTECTION PLANS LEVEL 1 DEMOLITION
F-101	FIRE PROTECTION FLOOR PLAN LEVEL 1
- E-501	FIRE-RBOTECTION DETAILS
F-502	FIRE PROTECTION DETAILS
uu	

	PLUMBING
SHEET NUMBER	SHEET NAME
PD-100	FOUNDATION PLAN - DEMO - PLUMBING
PD-101	FLOOR PLAN - DEMO - PLUMBING
P-100	FOUNDATION PLAN - PLUMBING
P-101	FLOOR PLAN - PLUMBING
P-501	PLUMBING - DETAILS
P-502	PLUMBING - DETAILS
P-601	PLUMBING - SCHEDULES

ELECTRICAL SHEET NAME

SHEET NUMBER	SHEET NAME
E-001	LEGENDS & ABBREVIATIONS - ELECTRICAL
ED-102	FLOOR PLAN - DEMO - ELECTRICAL
E-100	SITE PLAN - ELECTRICAL
E-101	LEVEL 1 - FLOOR PLAN - ELECTRICAL
E-102	ROOF - FLOOR PLAN - ELECTRICAL
E-400	FLOOR PLANS - ENLARGED - ELECTRICAL
E-501	DETAILS - ELECTRICAL
E-600	EQUIPMENT SCHEDULE- ELECTRICAL
E-601	PANEL SCHEDULES - ELECTRICAL
E-700	ONE-LINE DIAGRAM - EXISTING - ELECTRICAL
E-701	ONE-LINE DIAGRAM - REVISED - ELECTRICAL
E-102 E-400 E-501 E-600 E-601 E-700	ROOF - FLOOR PLAN - ELECTRICAL FLOOR PLANS - ENLARGED - ELECTRICAL DETAILS - ELECTRICAL EQUIPMENT SCHEDULE- ELECTRICAL PANEL SCHEDULES - ELECTRICAL ONE-LINE DIAGRAM - EXISTING - ELECTRICAL

	LIGHTING
SHEET NUMBER	SHEET NAME
ELD-101	FLOOR PLAN - DEMO - LIGHTING
EL-101	FLOOR PLAN - LIGHTING
EL-501	LIGHTING - DETAILS

SHEET NUMBER	SHEET NAME	
ESD-101	FLOOR PLAN - DEMO - SYSTEMS	
ES-101	FLOOR PLAN - SYSTEMS	
ES-102	ROOF - FLOOR PLAN - SYSTEMS	
ES-501	DETAILS - SYSTEMS	
	TELECOMMUNICATI	ONS
SHEET NUMBER		
T-101		
T-401 T-501	ENLARGED PLANS - TELECOMMUNICATIONS DETAILS - TELECOMMUNICATIONS	
T-501	DETAILS - TELECOMMUNICATIONS	
	RISER DIAGRAM - TELECOMMUNICATIONS	
T-801		

BASE BID IS TO CONTINUE CURTAIN WALL GLAZING ON TYPICAL STEM WALL.

-BASE BID IS TO PROVIDE PERMEABLE PAVERS THROUGHOUT THIS AREA

ADD ALT-3:

INTERIOR WOOD PANELING ON CONFERENCE + MIXING ZONE POD. BASE BID INCLUDES ONLY FACETED DRYWALL CONSTRUCTION WITH PAINT FINISH ALT-4: (DEDUCT) CONCRETE HARDSCAPE W/ SURFACE DRAINAGE AT EXTERIOR COURTYARD AND ENTRY PLAZ

Moscow, ID, 83844 T. 208.885.6111 uidaho.edu

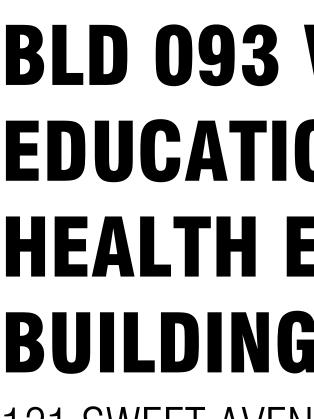








Spokane, WA 99201 T. 509.838.9020 mwengineers.com

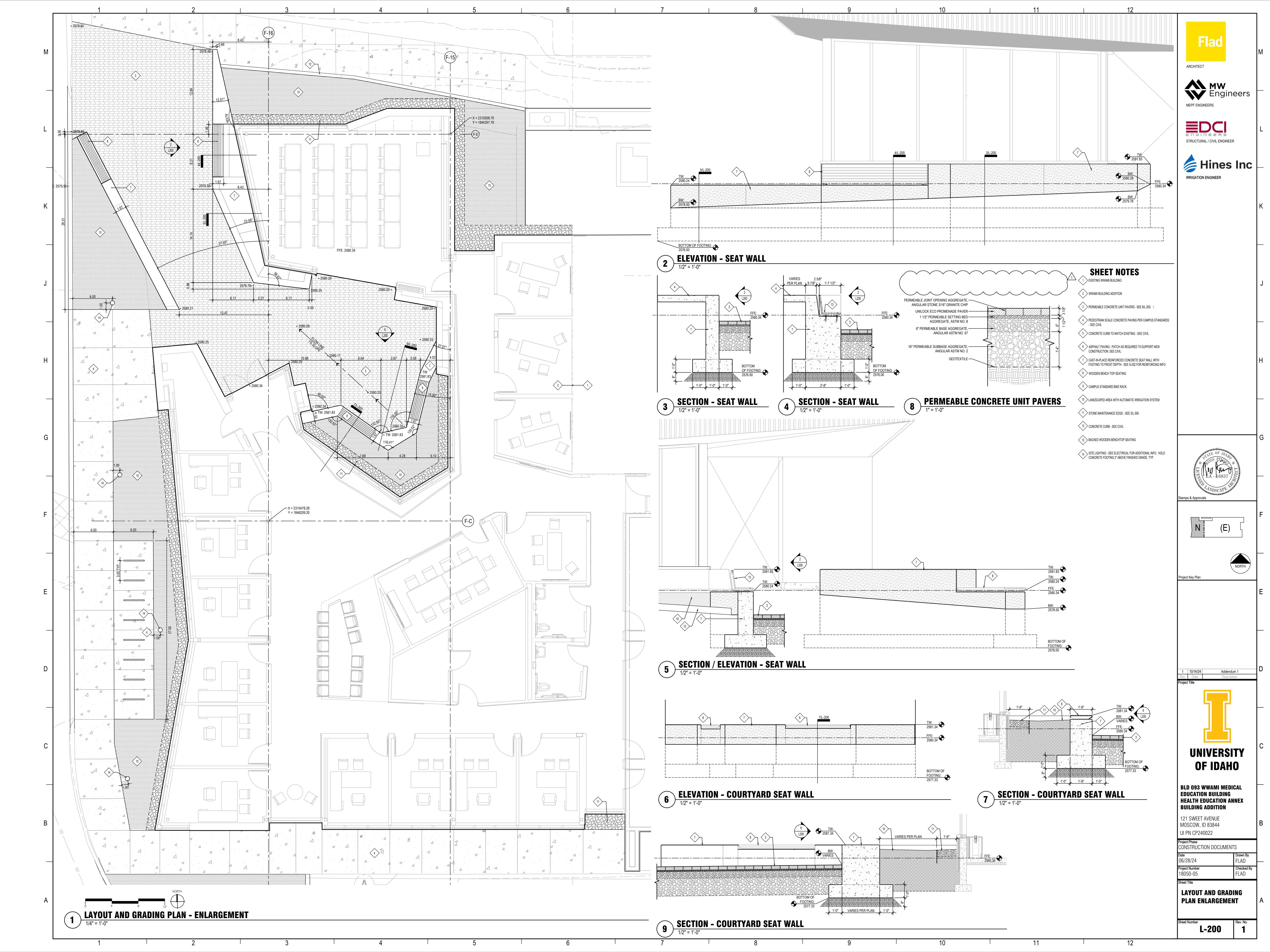


121 SWEET AVENUE MOSCOW, ID 83844 UI PN CP240022

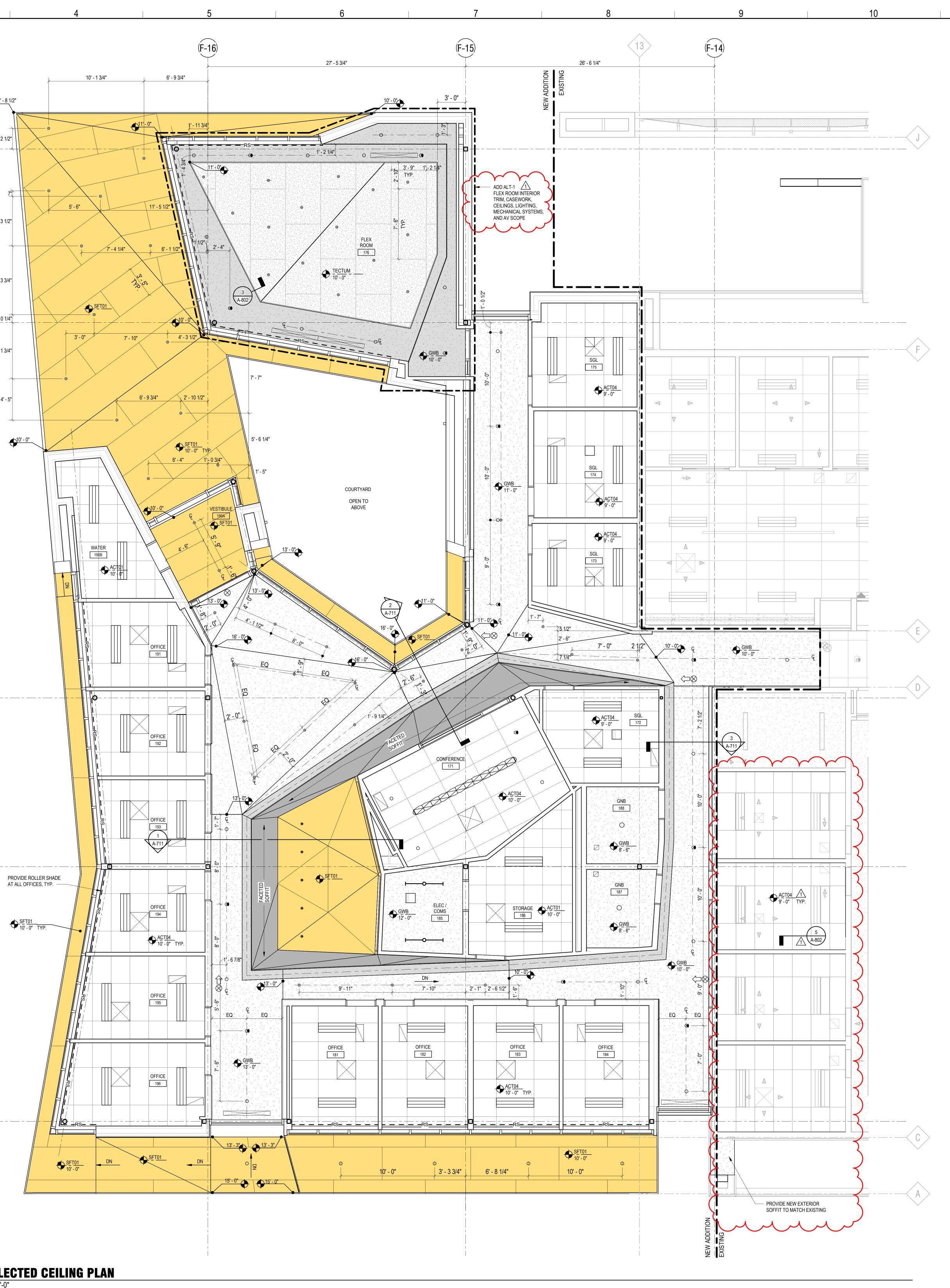
Flad Project Number 18050-05

EDUCATION BUILDING HEALTH EDUCATION ANNEX BUILDING ADDITION

Description of Package CONSTRUCTION DOCUMENTS Date 06/28/24



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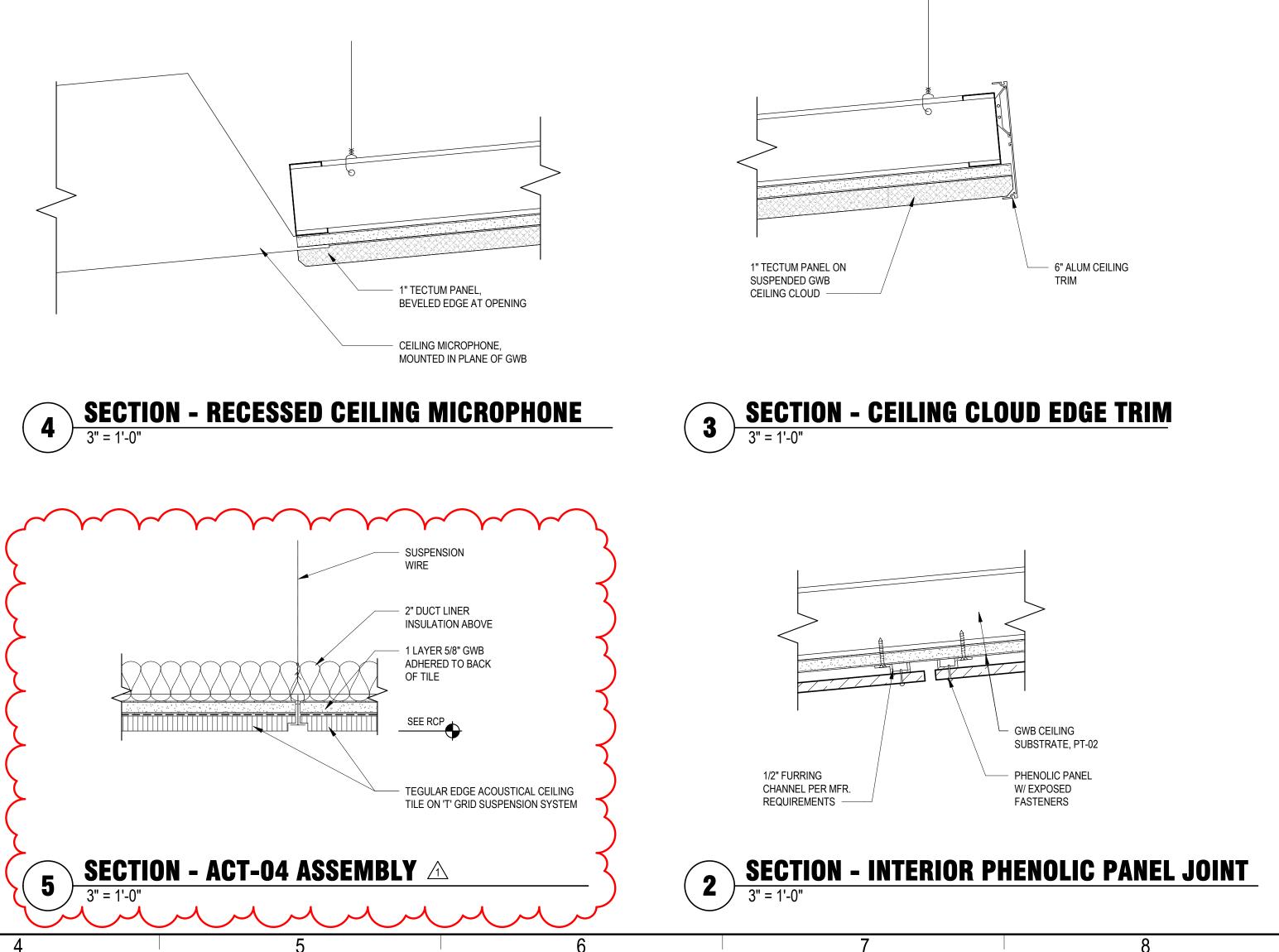
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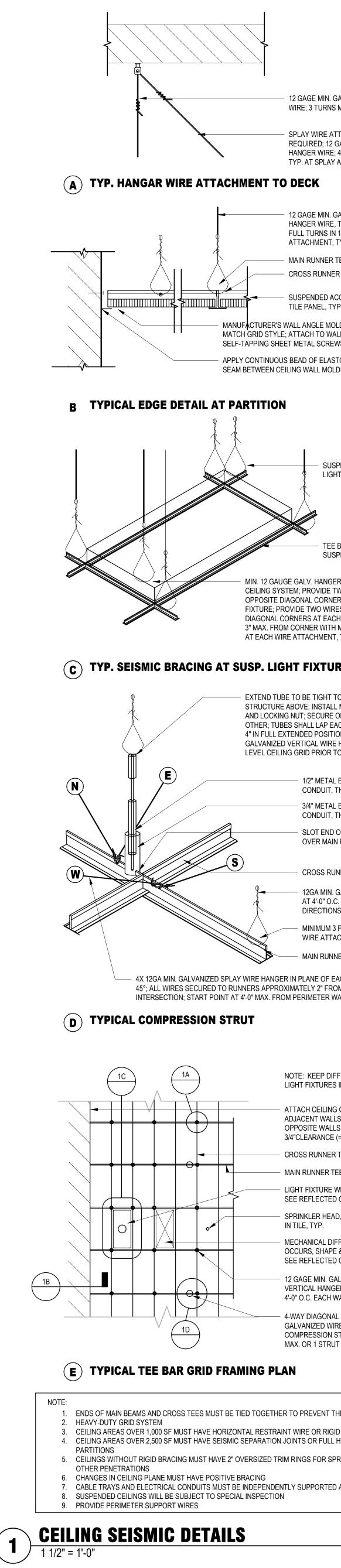
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GENERAL RCP NOTES 1. DIMENSIONS ARE TO FACE OF GWB OR CENTERLINE OF WALL, UNLESS OTHERWISE NOTED. SEE DETAILS FOR ADDITIONAL DIMENSION REFERENCE POINTS Flack 2. LIGHTING IS SHOWN FOR LOCATION ONLY. REFER TO ELECTRICAL DRAWINGS FOR COMPLETE LIGHTING SCHEDULE ARCHITECT 3. CENTER ALL LIGHTS, SENSORS, STROBES, OR OTHER MISC DEVICES IN CEILING PANELS WHERE OCCURS. 4. DIFFUSERS, SENSORS, SWITCHES, AND ALL OTHER MEP DEVICES SHOWN FOR LOCATION PURPOSES ONLY. REFER TO MEPF DRAWINGS FOR SPECIFIC REQUIREMENTS **MW** Engineers MEPF ENGINEERS STRUCTURAL / CIVIL ENGINEER General Hines Inc IRRIGATION ENGINEER **CEILING FINISH LEGEND** GWB ACT `- , », – / PHENOLIC PANEL TECTUM CEILING TAG / HEIGHT A.F.F. DIFFUSERS LINEAR LIGHTS DOWNLIGHT \oslash EXIT SIGN / DIRECTION OF TRAVEL \otimes OCCUPANCY SENSOR S D - DN CEILING SLOPE / DIRECTION - -RS- - ROLLER SHADE Stamps & Approvals (E) Project Key Plan
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 10/14/24
 ADDENDUM 1

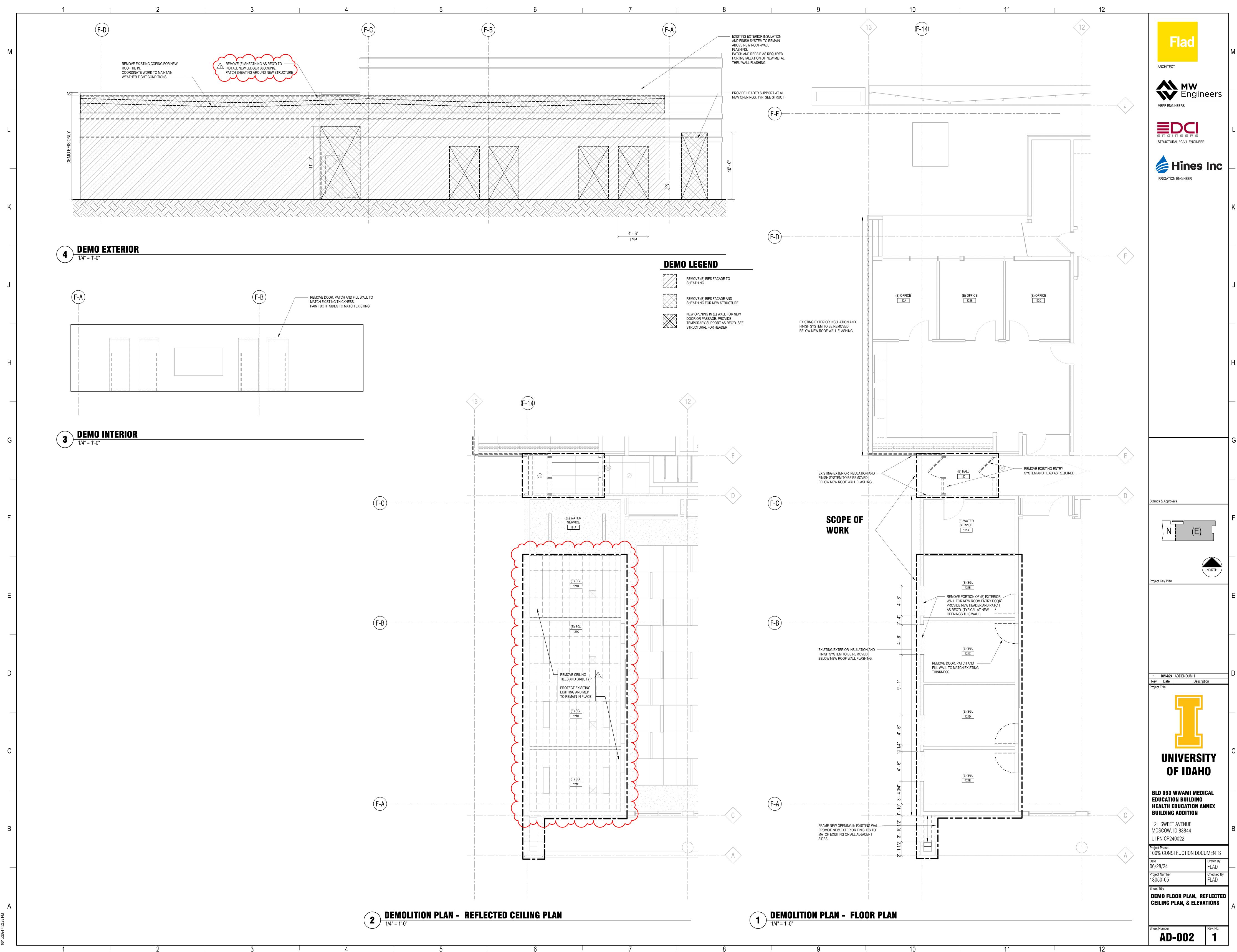
 Rev
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 Description UNIVERSITY **OF IDAHO** BLD 093 WWAMI MEDICAL EDUCATION BUILDING HEALTH EDUCATION ANNEX BUILDING ADDITION 121 SWEET AVENUE MOSCOW, ID 83844 UI PN CP240022 Project Phase
100% CONSTRUCTION DOCUMENTS Drawn By FLAD 06/28/24 Checked By FLAD Project Number 18050-05 Sheet Title **REFLECTED CEILING PLAN** Rev. No. Sheet Number 1 A-121

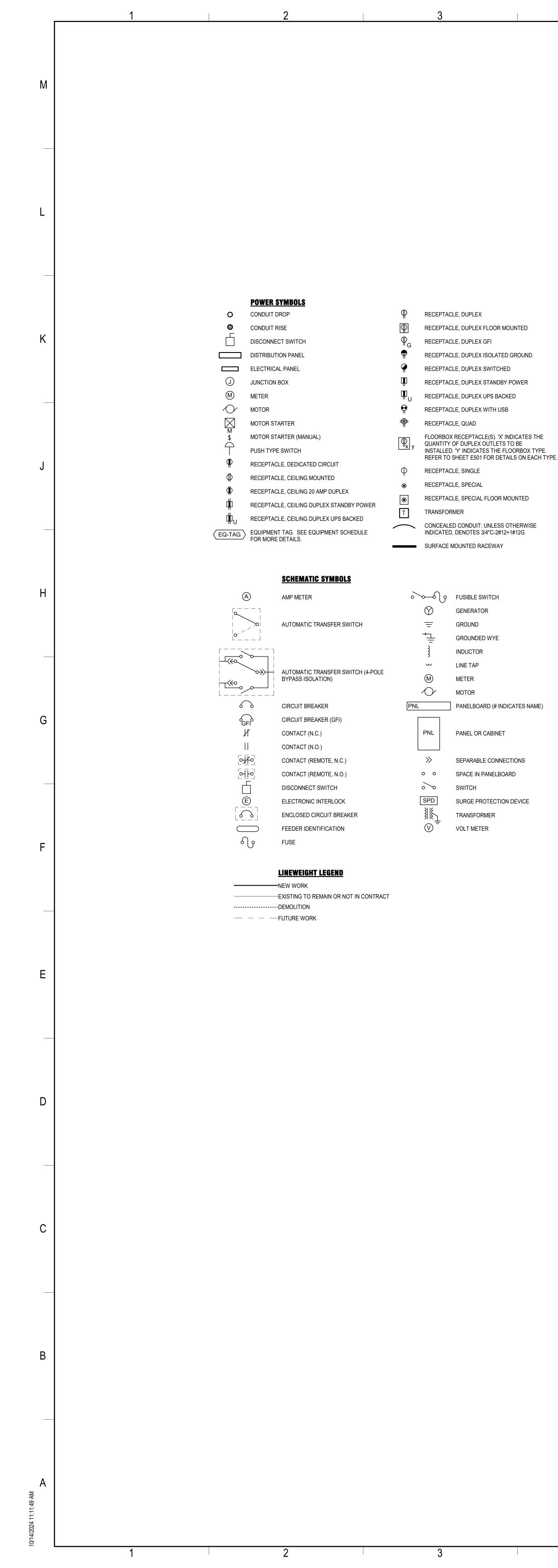
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11	12	A-802 1	
		Sheet Number Rev. No.	-
EU AINU BRAGEU			A
ED AND BRACED		Sheet Title CEILING DETAILS	1
GID BRACING L HEIGHT		Project Number Checked By 18050-05 FLAD	
THEIR SPREADING		100% CONSTRUCTION DOCUMENTSDateDrawn By06/28/24FLAD	
		UI PN CP240022 Project Phase 100% CONSTRUCTION DOCUMENTS	-
IAL 12 GAGE MIN. VIRE BRACING & VISTRUT AT 12'-0" O.C. 2UT EACH 144 S.F. MAX.		121 SWEET AVENUE MOSCOW, ID 83844	В
GER WIRES AT I WAY, TYP.		HEALTH EDUCATION ANNEX BUILDING ADDITION	
PE & SHAPE VARIES; ED CEILING PLAN GALVANIZED		BLD 093 WWAMI MEDICAL EDUCATION BUILDING	
AD, CENTER		OF IDAHO	
TEE BAR, TYP. E WHERE OCCURS; ED CEILING PLAN		UNIVERSITY	
E (="FREE") R TEE BAR, TYP.			С
NG GRID TO TWO LLS(="FIXED"); LLS MUST HAVE			
IFFUSERS AND ES IN ALIGNMENT			
		Project Title	╡
ROM RUNNER WALL		1 10/14/24 ADDENDUM 1 Rev Date Description	D
NNER TEE BAR EACH RUNNER AT			
3 FULL TURNS AT ALL TACHMENTS,TYP			
I. GALV. HANGER WIRE D.C. IN BOTH DNS			
NIN RUNNER TEE BAR			E
AL ELECTRIC , THIN WALL D OF TUBE TO FIT		Project Key Plan	
AL ELECTRIC , THIN WALL		NORTH	
TION; 12GA MIN. RE HANGER IN TUBING; R TO SETTING TUBE			
LL MIN. 1/8" DIA. BOLT E ONE TUBE TO THE EACH OTHER MINIMUM TION; 12GA MIN.		N (E)	
JRE TO CEILING GRID &			F
NT, TYP.		Stamps & Approvals	-
NERS OF 24" X 48" LIGHT RES, ONE AT OPPOSITE \CH 12" X 48" FIXTURE, TYP.; 'H MIN. THREE FULL TURNS			
GER WIRE INDEPENDENT OF TWO WIRES, ONE AT			
E BAR GRID AT ISPENDED CEILING, TYP.			
			G
JSPENDED 24" X 48" GHT FIXTURE			
ALL WITH #10 EWS, TYP. STOMERIC SEALANT AT DLDING & FACE OF WALL			н
ACOUSTIC IYP. IOLDING TO VALL WITH #10			
A LEE BAR IER TEE BAR ACOUSTIC			
E, TYP; MIN. 3 IN 1-1/2" AT F, TYP. R TEE BAR			
GALV.			J
E; 4 TURNS MIN. IN 1-1/2", Y ATTACHMENT, TYP.			
ATTACHMENT WHERE 2 GAGE MIN. GALV.			
. GALV. HANGER IS MIN. IN 1-1/2",TYP			
			К
		Hines Inc	
			L
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			Μ
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LIGHTING SYMBOLS

 \bigtriangledown

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Μ

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Н

ΗT

IG

IN

CRITICAL POWER LIGHT

DAYLIGHT SENSOR (LV INDICATES LOW

LIGHTING SWITCH (STANDARD)

LIGHTING SWITCH (3-WAY)

LIGHTING SWITCH (4-WAY)

LIGHTING SWITCH (DIMMER)

LIGHTING SWITCH (LOW VOLTAGE)

\$ K LIGHTING SWITCH (KEYED)

\$ P LIGHTING SWITCH (PILOT)

EMERGENCY POWER LIGHT

VOLTAGE DEVICE)

(P) PHOTOCELL SENSOR

OCCUPANCY SENSOR

	1'x4' LIGHT
	2'x2' LIGHT
	2'x4' LIGHT
0	DOWNLIGHT
\otimes	EXIT LIGHT
叉	EXIT LIGHT (WALL MOUNTED)
	PENDANT LIGHT
⊶□	POLE MOUNTED LIGHT
⊢––⊖ł	STRIP LIGHT
$\Delta\Delta\Delta$	TRACK LIGHT
	WALL MOUNTED EMERGENCY LIGH
\Box	WALL SCONCE
0	WALL WASHER

LIGHTNING PROTECTION SYMBOLS

0	AIR TERMINAL
•	DOWN CONDUCTOR (FLOOR)
0	DOWN CONDUCTOR (ROOF)
\sim	EQUIPMENT BOND

<u>Security symbols</u>

 \bigtriangleup

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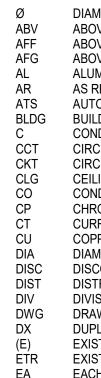
CAMERA FIELD OF VIEW
CARD READER
DOOR INTERLOCK
DOOR POSITION INDICATION SWITCH (INTERRUPTIBLE)
DOOR POSITION INDICATION SWITCH (UNINTERRUPTIBLE)
DURESS ALARM (WITH LIGHT)
DURESS ALARM (WITHOUT LIGHT)
ELECTRIC LOCK
ELECTRIC LOCK (DEADBOLT)
KEYED SWITCH
MOTION DETECTOR
PUSH BUTTON REX

ABBREVIATIONS

\$ _S	LIGHTING SWITCH (SENSOR)					
율율	GROUND BUS					
مأ	GROUND ROD					
HH	GROUNDING HAND HOLE					
r An						

SECURITY CONTROL PANEL
SENSOR REX
TOUCH PAD
VSS MONITOR
WINDOW BREAKAGE DETECTOR

SECURITY CAMERA (STANDARD)



EM

FLR

GA

GFI

FAC

FAA

FASF

GND GROUND

DIAMETER ABOVE ABOVE FINISH FLOOR ABOVE FINISH GRADE ALUMINUM AS REQUIRED AUTOMATIC TRANSFER SWITCH BUILDING CIRCUIT CIRCUIT CEILING CONDUIT ONLY WITH 1/4" POLYPROPYLENE PULL ROPE CHROME PLATED CURRENT TRANSFORMER COPPER DIAMETER DISCONNECT DISTRIBUTION DIVISION DRAWING DUPLEX EXISTING EXISTING TO REMAIN EACH EMERGENCY FLOOR, OR FLOOR MOUNTED FEET GROUND GAUGE

ANNOTATION

GROUND FAULT INTERRUPT

+XX"	MOUNTING HEIGHT (AFF OR AFG)
,	(n)x"C-a#b+c#d
	n = QÚANTITY OF CONDUIT
	x = SIZE OF CONDUIT
	a = QUANTITY OF CONDUCTORS
	b = CONDUCTOR WIRE SIZE
	c = QUANTITY OF GROUND
	d = GROUND WIRE SIZE

FIRE ALARM SYMBOLS

	DOOR HOLD OPEN
	DUCT SMOKE DETECTOR
0	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
D	FIRE ALARM SLAVE PANEL
•	FIRE BELL
	FLOW SWITCH
	HEAT DETECTOR (CEILING MOUNTED)
N	HEAT DETECTOR (WALL MOUNTED)
	HORN (WALL MOUNTED)
С	HORN (CEILING MOUNTED)
	HORN STROBE (WALL MOUNTED)
С	HORN STROBE (CEILING MOUNTED)

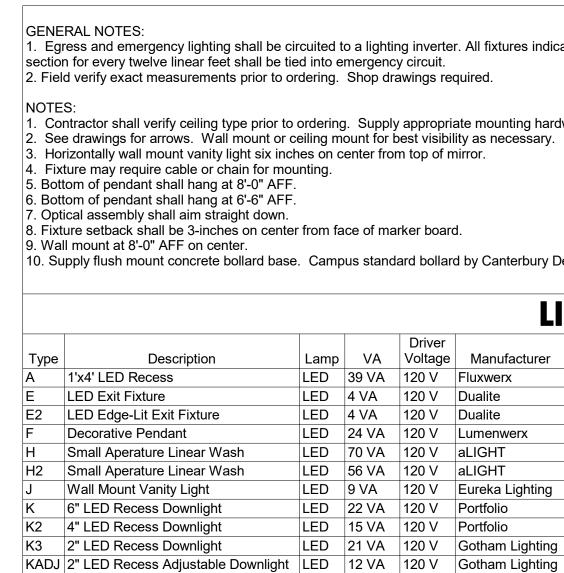
L	LONG
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MMS	MANUAL MOTOR STARTER
MRS	MOTOR RATED SWITCH
MNT	MOUNT(ED)
(N)	NEW
Ň	NEUTRAL
NL	NIGHT LIGHT
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NORM	NORMAL
PNL	PANEL
QIG	QUAD ISOLATED GROUND
REQ'D	REQUIRED
RM	ROOM
SIM	SIMILAR
SPST	SINGLE POLE/SINGLE THROW SWITCH
SS	STAINLESS STEEL
SW	SWITCH
TYP	TYPICAL
W	WIDE
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WP	WEATHERPROOF, RECEPTACLES TO BE GFI
XFMR	TRANSFORMER

HIGH HEIGHT ISOLATED GROUND

INCHES

P	MANUAL PULL STATION
M	MICROPHONE
ММ	MONITOR MODULE
●R	OUTPUT RELAY
(SMOKE DETECTOR (CEILING MOUNTED)
W	SMOKE DETECTOR (WALL MOUNTED)
• W	SPEAKER (WALL MOUNTED)
0	SPEAKER (CEILING MOUNTED)
¤	STROBE (WALL MOUNTED)
ДC	STROBE (CEILING MOUNTED)
X	TAMPER DETECTOR (WITH VALVE)
\Diamond	TAMPER DETECTOR (WITHOUT VALVE)

GENER THIS BL RACEW SPACE, ARCHIT SEE ARC



4' LED Industrial Strip

S12 Linear LED Pendant Illuminated Bollard

M Exterior Decorative Wall Mount

- 4

3	<u>COMMUNICATIONS SYMBOLS</u>		IMUNICATIONS ABBREVIATIONS
\mathbf{v}^{3}	3-PORT COMMUNICATIONS OUTLET, (1) 3-PORT FACEPLATE WITH (3) 8-POSITION CAT 6A RJ-45 JACKS, WALL FLUSI MOUNTED 18" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET T501 DETAIL 1 FOR OUTLET DETAIL. CABLING,	, JACKS, 🏅	ABOVE FINISHED FLOOR
ξ	FACEPLATES AND PATCH PANELS ARE OWNER FURNISHED, OWNER INSTALLED. CONTRACTOR TO PROVIDE ROU ONLY.	5	AMERICAN NATIONAL STANDARDS INSTITUTE
⁶ V Σ	6-PORT COMMUNICATIONS OUTLET, (1) 6-PORT FACEPLATE WITH (6) 8-POSITION CAT 6A RJ-45 JACKS, WALL FLUSI		
5	MOUNTED 18" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET T501 DETAIL 2 FOR OUTLET DETAIL. CABLING, • FACEPLATES AND PATCH PANELS ARE OWNER FURNISHED, OWNER INSTALLED. CONTRACTOR TO PROVIDE ROU	IGH-IN	BACKBONE
9 V	 ONLY. 9-PORT COMMUNICATIONS OUTLET, (1) 12-PORT FACEPLATE WITH (9) 8-POSITION CAT 6A RJ-45 JACKS, WALL FLUS 	SH SH SH	BIX BLOCK CONDUIT
v Ş	MOUNTED 18" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET T501 DETAIL 3 FOR OUTLET DETAIL. CABLING, FACEPLATES AND PATCH PANELS ARE OWNER FURNISHED, OWNER INSTALLED. CONTRACTOR TO PROVIDE ROU	, JACKS, 🔰	
}	• ONLY.		
$\mathbf{\overline{V}}$	3-PORT FLOORBOX OUTLET, (1) 3-PORT FACEPLATE WITH (3) 8-POSITION CAT 6A RJ-45 JACKS, MOUNTED IN FLOOI REFER TO SHEET E502 DETAILS 2 AND 3 FOR OUTLET DETAILS. CABLING, JACKS, FACEPLATES AND PATCH PANEL	R BOX.	E CATEGORY 5, ENHANCED
6 S	OWNER FURNISHED, OWNER INSTALLED. CONTRACTOR TO PROVIDE ROUGH-IN ONLY.		
	6-PORT FLOORBOX OUTLET, (1) 6-PORT FACEPLATE WITH (6) 8-POSITION CAT 6A RJ-45 JACKS, MOUNTED IN FLOOI REFER TO SHEET E502 DETAILS 2 AND 3 FOR OUTLET DETAILS. CABLING, JACKS, FACEPLATES AND PATCH PANEL	R BOX. 🄰	
9	• OWNER FURNISHED, OWNER INSTALLED. CONTRACTOR TO PROVIDE ROUGH-IN ONLY.	S CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLE
⁹	 9-PORT FLOORBOX OUTLET, (1) 6-PORT AND (1) 3-PORT FACEPLATE WITH (9) TOTAL 8-POSITION CAT 6A RJ-45 JAC MOUNTED IN FLOOR BOX. REFER TO SHEET E502 DETAILS 2 AND 3 FOR OUTLET DETAILS. CABLING, JACKS, FACE 		COMPUTER ROOM
}	AND PATCH PANELS ARE OWNER FURNISHED, OWNER INSTALLED. CONTRACTOR TO PROVIDE ROUGH-IN ONLY.	EIA	ELECTRONIC INDUSTRIES ALLIANCE
₹	TV OUTLET, WALL FLUSH MOUNTED 7'-6" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET T501 DETAIL 4 FOR F IN REQUIREMENTS. CABLING, JACKS, FACEPLATES AND PATCH PANELS ARE OWNER FURNISHED, OWNER INSTAL 2007 DOI 10 DO		ELECTROMAGNETIC INTERFERENCE
{	CONTRACTOR TO PROVIDE ROUGH-IN ONLY.	S EMT	ELECTRICAL METALLIC TUBING
₩ }	 3-PORT CEILING MOUNTED OUTLET. REFER TO SHEET T501 DETAIL 5 FOR OUTLET DETAILS. CABLING, JACKS, FACEPLATES AND PATCH PANELS ARE OWNER FURNISHED, OWNER INSTALLED. CONTRACTOR TO PROVIDE ROU 	IGH-IN 👌 FF	FINISHED FLOOR
ζ [AV]		FO FO	FIBER OPTIC
O O	12"W x 12"H x 3"D JUNCTION PANEL FOR AUDIO VISUAL EQUIPMENT. CEILING MOUNTED SPEAKER OFOI.	FOC	FIBER OPTIC CABLE
	BONDING STRAP	GE	GROUNDING EQUALIZER
F	_	HH	HAND HOLE
<u></u>		ISP	INSIDE PLANT
	FIBER OPTIC PATCH PANEL	JBOX	JUNCTION BOX
	PATCH PANEL (CAT6 OR CAT 6A)	LAN	LOCAL AREA NETWORK
		MDF	MAIN DISTRIBUTION FRAME
000000] POWER STRIP	MH	MAINTENANCE HOLE
	SMART UPS	MHz	MEGAHERTZ
		MIC	MICROPHONE
	WIRE MANAGER	MM	MULTIMODE
	10" TELECOMMUNICATIONS GROUNDING BUS BAR	NEMA	
	20" TELECOMMUNICATIONS GROUNDING BUS BAR	NFPA	
Ē	EQUIPMENT RACK	NIC	NOT IN CONTRACT OWNER FURNISHED CONTRACTOR INSTALLED
	4" DEEP WIRE BASKET CABLE TRAY, WIDTH AS INDICATED	OFOI	OWNER FURNISHED OWNER INSTALLED
	LADDER TYPE CABLE RUNWAY, WIDTH AS INDICATED	OSP	OUTSIDE PLANT
		P/C	PATCH CORD
		P/P	PATCH PANEL
		PB	PULL BOX
		PC	PERSONAL COMPUTER
		PR	PAIR
		PVC	POLYVINYL CHLORIDE
		RM	ROOM
		RMU	RACK MOUNT UNIT
		SM	SINGLEMODE
		SPKR	SPEAKER
GENERAL NOTES		STR	STRAND
RACEWAY, FOR	HAS PLENUM SPACES. WIRING AND CABLING NOT INSTALLED IN A WHICH ANY PORTION IS INSTALLED IN OR PASSES THROUGH A PLENUM	SWTH	H SWITCH TAIL
SPACE, SHALL B	BE PLENUM RATED FOR ITS ENTIRE LENGTH. REFER TO MECHANICAL AND L DRAWINGS FOR LOCATIONS OF PLENUM SPACE.	TBB	TELECOMMUNICATION BONDING BACKBONE
2. SEE ARCHITECT	FURAL DRAWINGS FOR ADDITIONAL MOUNTING HEIGHT INFORMATION.	TC	TELECOMMUNICATIONS CLOSET
		TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
		TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
		TMGE	3 TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
		TR	TELECOMMUNICATIONS ROOM, ALSO SEE TC
		TYP	TYPICAL
		UG	UNDERGROUND CONDUIT
		UL	UNDERWRITERS LABORATORIES
		um	
		UPS	
		UTP	UNSHIELDED TWISTED-PAIR
		WA	
		WM	WALL MOUNTED
		WS	WORKSTATION
	ted to a lighting inverter. All fixtures indicated on drawings with a diamond symbol shall be equipped with an	appropriate UL924 o	device. For continuous run linear light fixtures, one

10. Supply flush mount concrete bollard base. Campus standard bollard by Canterbury Designs #BOPN-43-PM-IL may be used in lieu of specified bollard if required by owner.

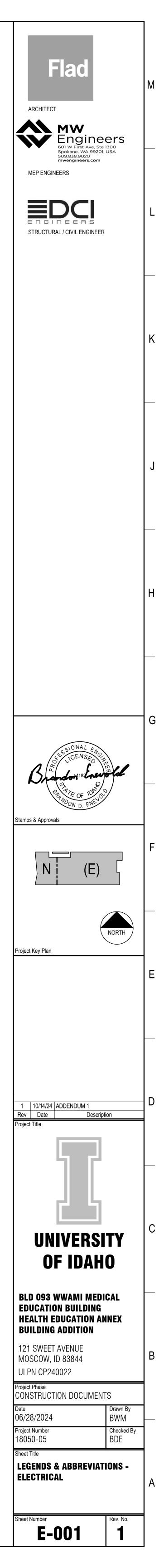
LIGHTING FIXTURE SCHEDULE

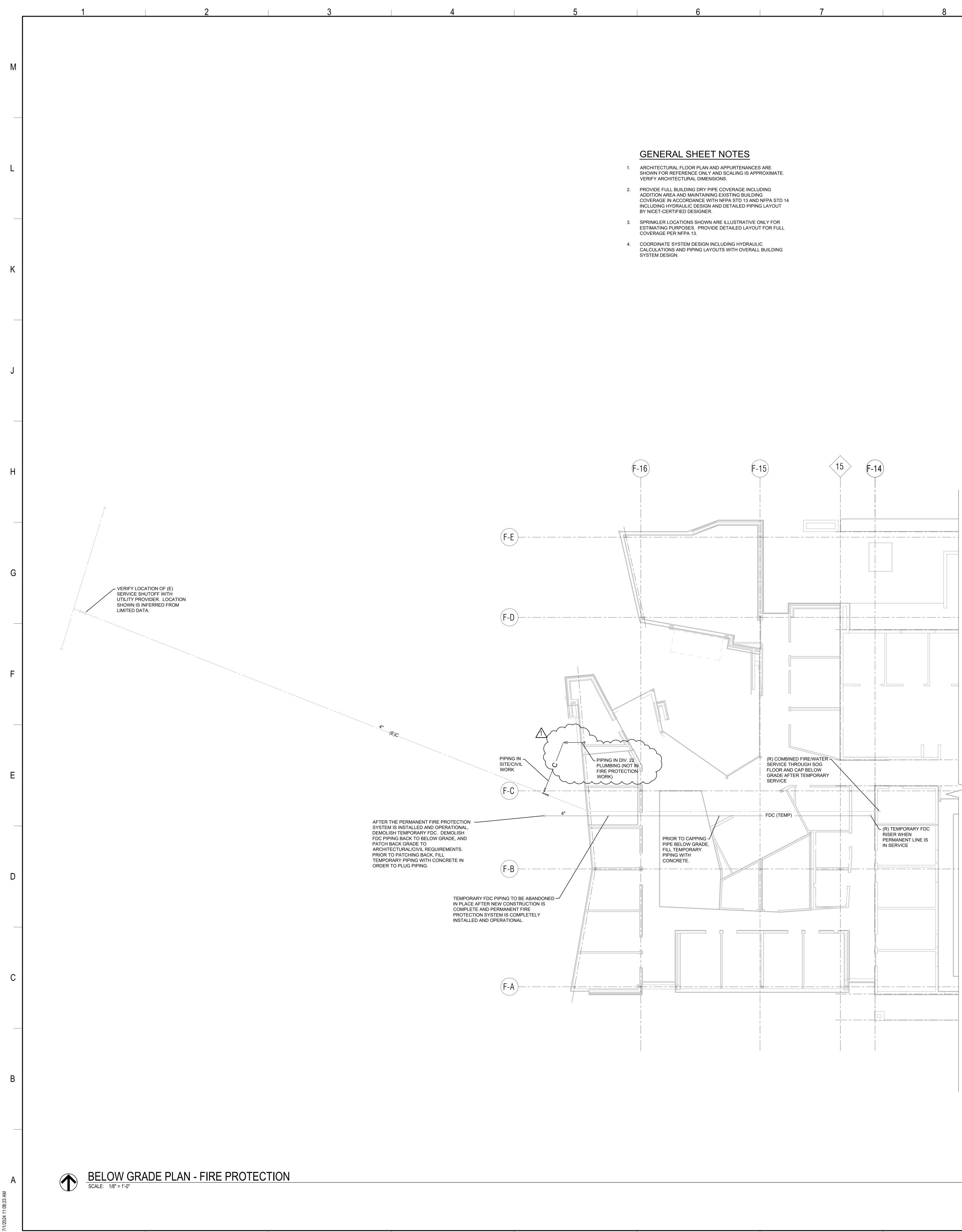
			Driver			
	Lamp	VA	Voltage	Manufacturer	Model #	Notes
	LED	39 VA	120 V	Fluxwerx	TR1-14-C-40-F2-M	1
	LED	4 VA	120 V	Dualite	EVE-U-R/G-W-I	2
	LED	4 VA	120 V	Dualite	LES-C/W/E-S-R/G-X-N	2
	LED	24 VA	120 V	Lumenwerx	FL3SLLCYP-DI-6IN-FTMB-SLFH-FTMB-FFFH-SW-50DEG-80DEG-2STP-80CRI-35K-NA-UNV-10W-14W-D1-1C-FLR-FTMB-BPC##IN	6
	LED	70 VA	120 V	aLIGHT	APX5-10-LS-35-U-55-XP-X-B-D	8
	LED	56 VA	120 V	aLIGHT	APX5-8-LS-35-U-55-XP-X-B-D	8
	LED	9 VA	120 V	Eureka Lighting	3541-23-LED.9.40-120V-DV-SC-WH-3980	3
	LED	22 VA	120 V	Portfolio	LD6C-20-90-40-D010-W-1-LI	
	LED	15 VA	120 V	Portfolio	LD4C-15-90-40-D010-W-1-LI	
	LED	21 VA	120 V	Gotham Lighting	EVO2-40/15-AR-LSS-WD-MVOLT-UGZ	
light	LED	12 VA	120 V	Gotham Lighting	ICO2ADJ-40/10-AR-TFC-LSS-45D-MVOLT-UGZ	7
	LED	32 VA	120 V	Lithonia	CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-WH	4
	LED	25 VA	120 V	Luminis	L2L10-R40-120V-FINISH-X	9
	LED	348 VA	120V	Peerless	OR3M1-LLP-12FT-MSL4-80CRI-40K-I1000LMF-DARK-ZT-277-SCT-X-24A-X-X	5
	LED	21 VA	120 V	Bega	B84690/B84009-K4-Finish	10

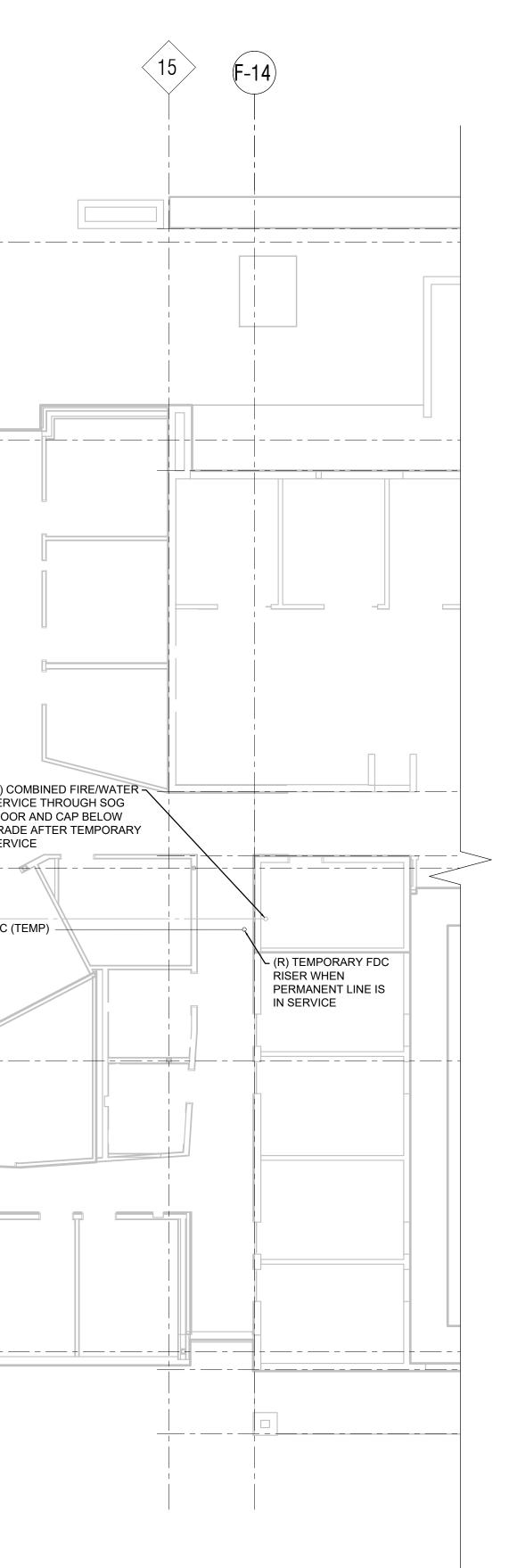
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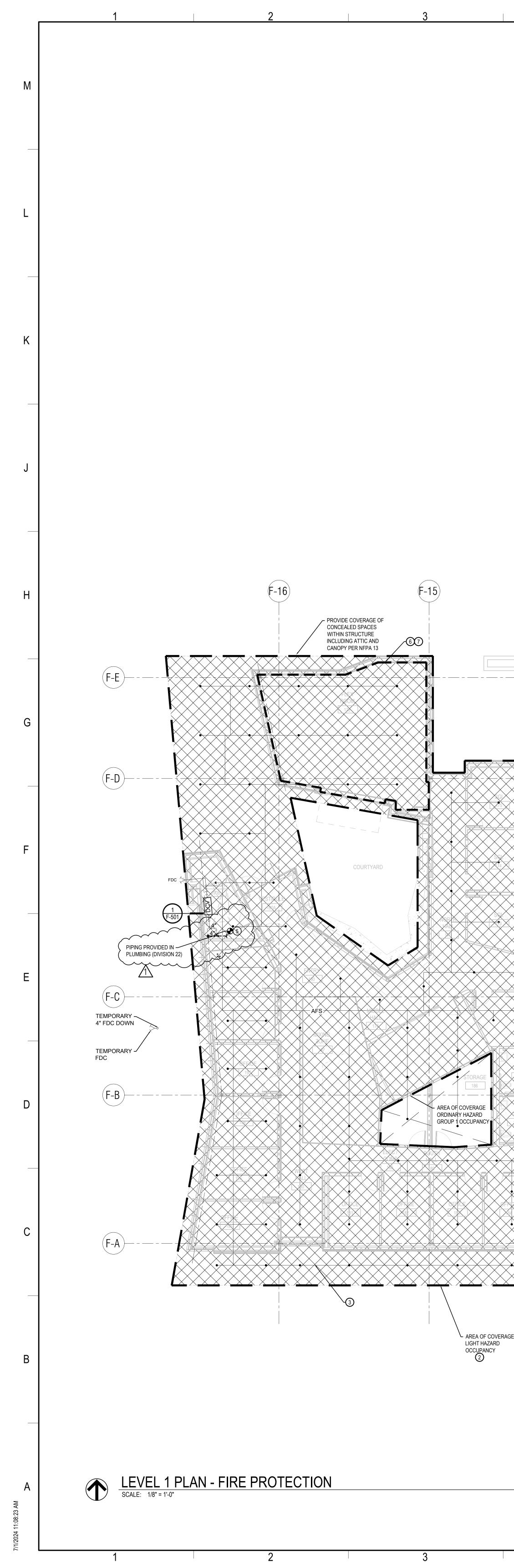
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Flad Architect	M
MEPF ENGINEERS	L
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06/21/2024 9306 9306 Part 5.6 Part 5.6	G
Stamps & Approvals	F
Project Key Plan	E
1 10/14/24 ADDENDUM 1 Rev Date Description Project Title	D
UNIVERSITY OF IDAHO	С
BLD 093 WWAMI MEDICAL EDUCATION BUILDING HEALTH EDUCATION ANNEX BUILDING ADDITION 121 SWEET AVENUE MOSCOW, ID 83844 UI PN CP240022 Project Phase CONSTRUCTION DOCUMENTS	В
Date Drawn By GSB Project Number Checked By Sheet Title FIRE PROTECTION PLANS BELOW GRADE	A
F-100	



GENERAL SHEET NOTES

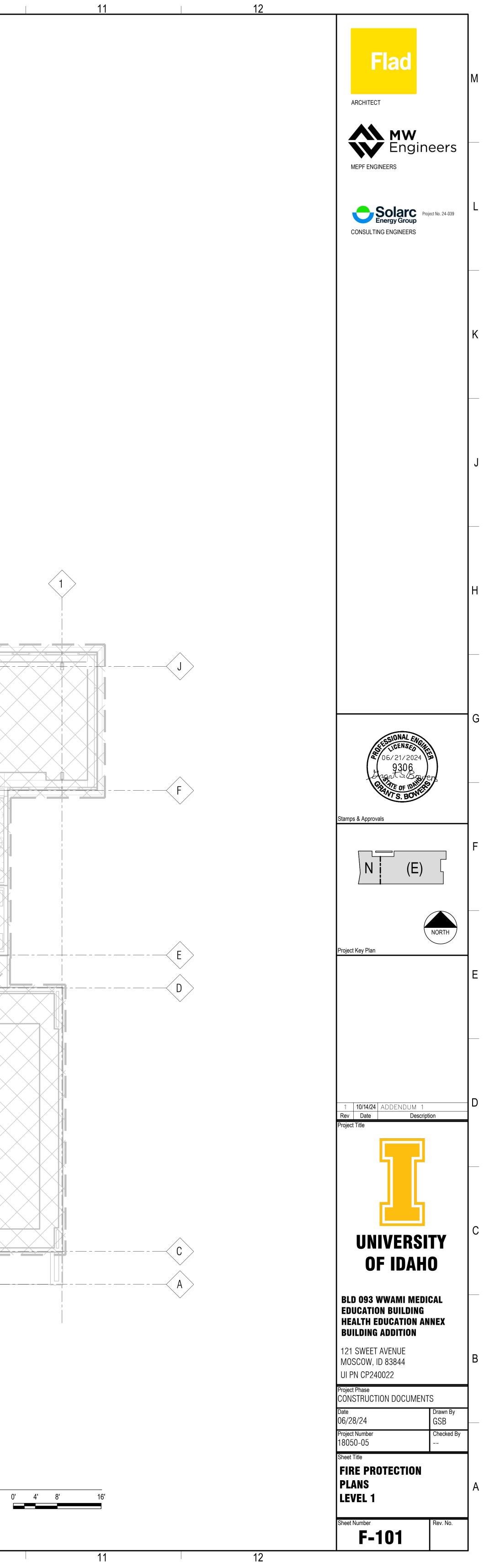
- ARCHITECTURAL FLOOR PLAN AND APPURTENANCES ARE SHOWN FOR REFERENCE ONLY AND SCALING IS APPROXIMATE. VERIFY ARCHITECTURAL DIMENSIONS.
 PROVIDE FULL BUILDING DRY PIPE COVERAGE INCLUDING
- ADDITION AREA AND MAINTAINING EXISTING BUILDING COVERAGE IN ACCORDANCE WITH NFPA STD 13 AND NFPA STD 14 INCLUDING HYDRAULIC DESIGN AND DETAILED PIPING LAYOUT BY NICET-CERTIFIED DESIGNER.
 3. SPRINKLER LOCATIONS SHOWN ARE ILLUSTRATIVE ONLY FOR
- 4. COORDINATE SYSTEM DESIGN INCLUDING HYDRAULIC
- CALCULATIONS AND PIPING LAYOUTS WITH OVERALL BUILDING SYSTEM DESIGN.5. MAINTAIN (E) FIRE SPRINKLER COVERAGE DURING

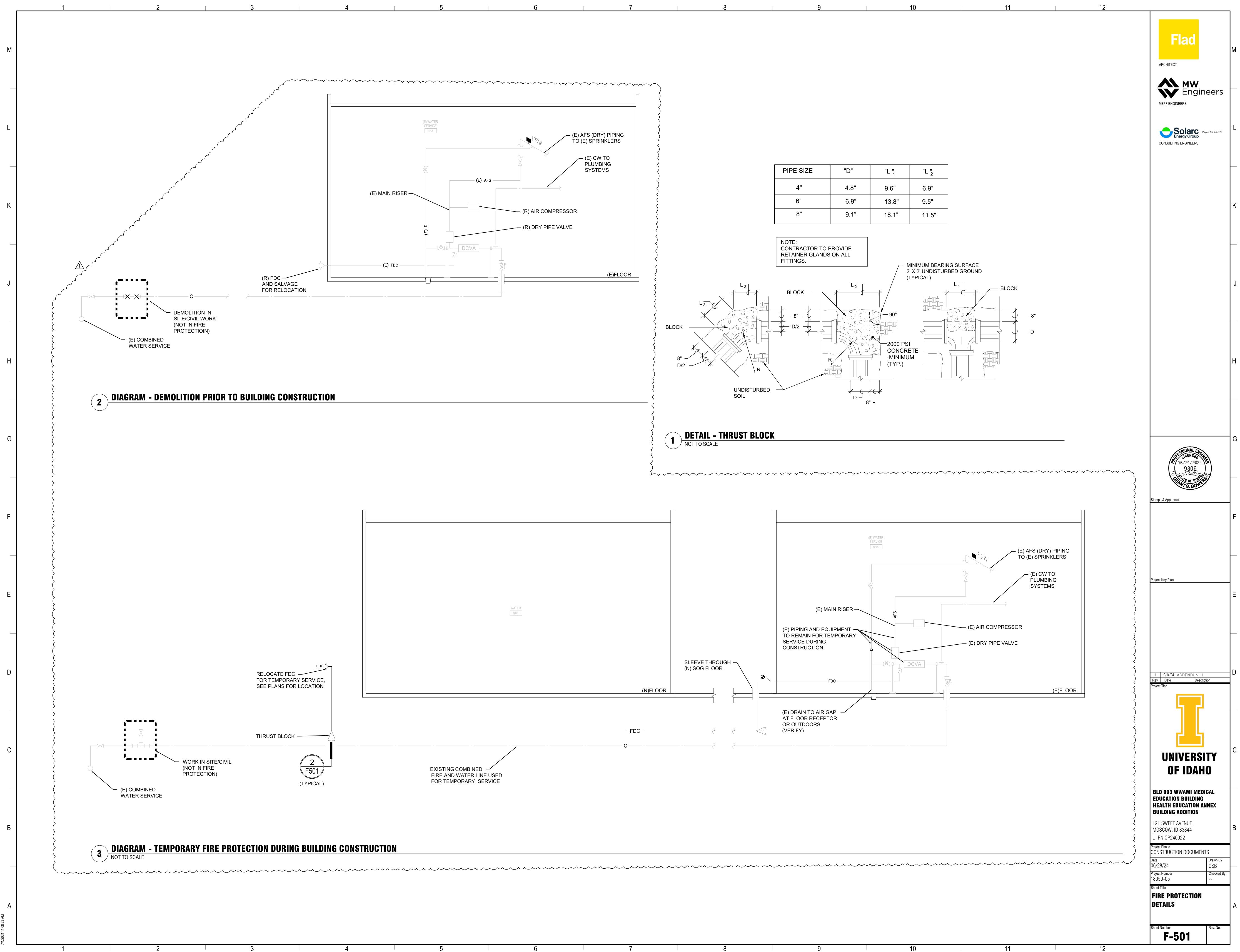
CONSTRUCTION.

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		MEETING 102 102 102 102 102 102 102 102 102 102					
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				(E) PRINT	(E) OFFICE FAC 142 142 144	OFFICE ALS 146 148A	(E) OFFICE VISITING 148 (E) VEND NOB
	SERVICE 121A 121A (E) HAL 220 (E) HAL (E) HAL (E MOTHERS 123 123 123 123 123 123 123 123 123 123			(E) OFFICE 1 FAC 1 FA	E) HALL	Evest 1924
	(E) SGL (E) SG	The storage of the st			HALL 158 (E) OFFICE 155A (E) OFFICE 155A (E) OFFICE 1555 (E) SG 1557	(E) STORAGE	
VERAGE			(E) FIRE PROTEC TO BE REMAIN. COVERAGE DUR CONSTRUCTION				

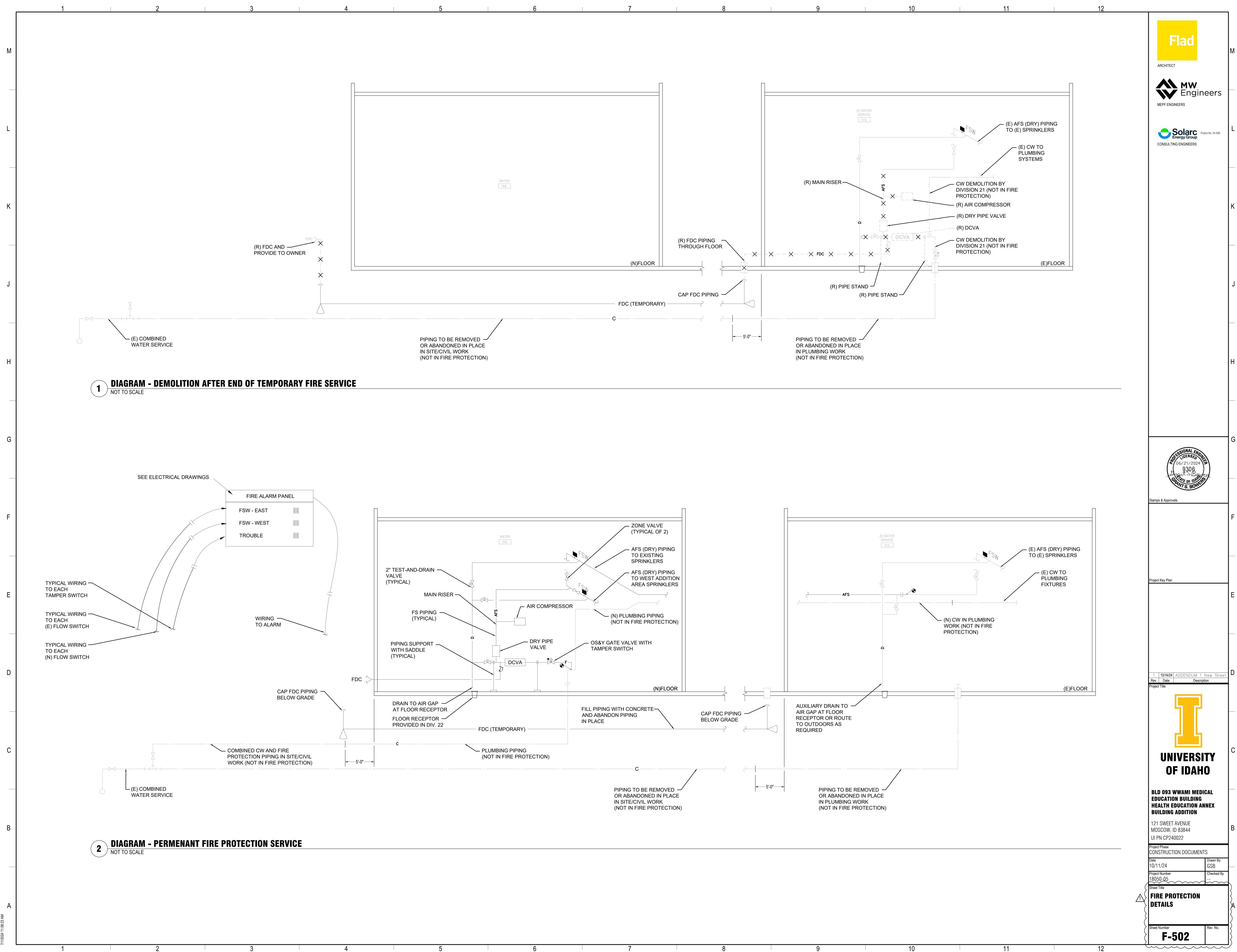
KEYED SHEET NOTES

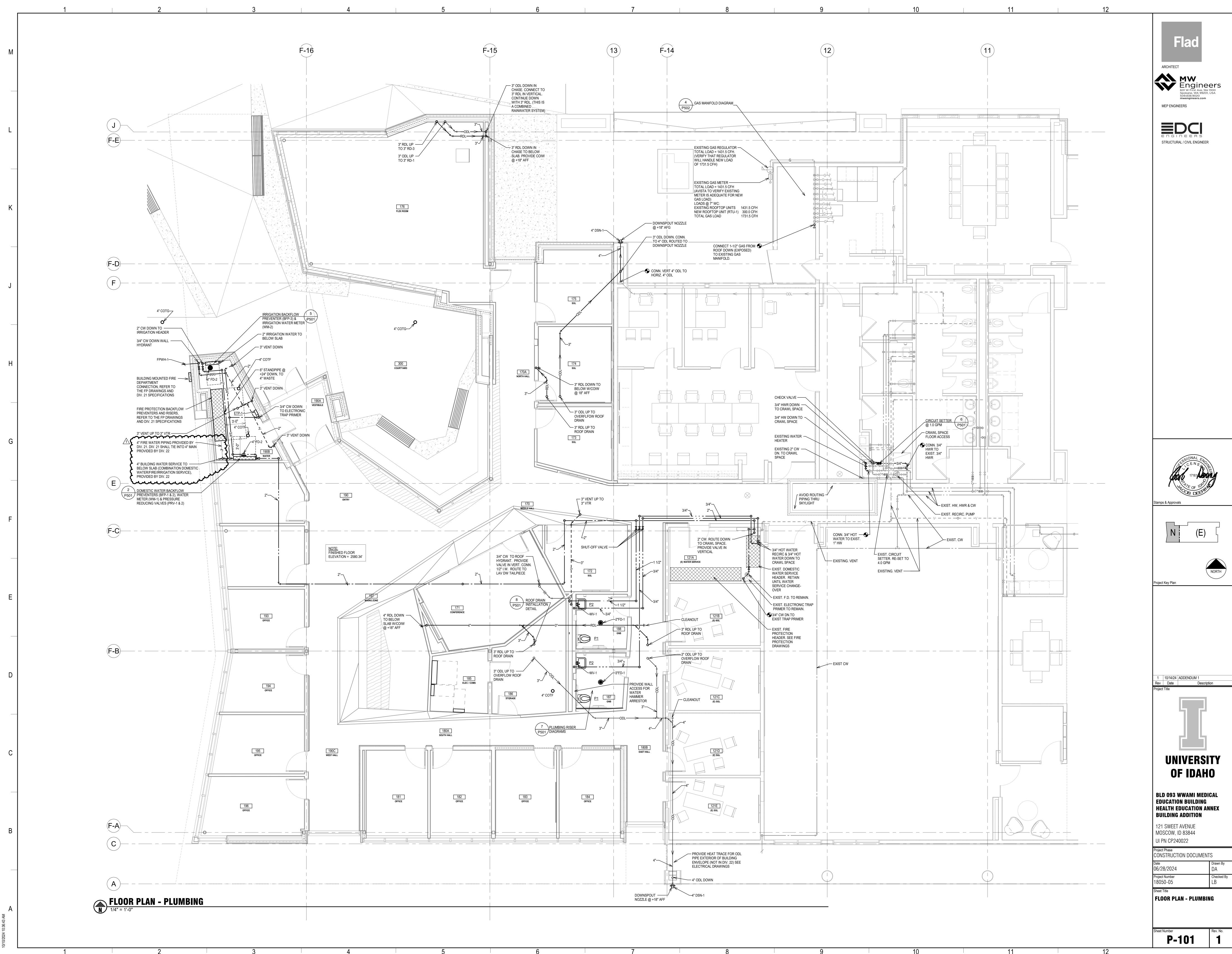
- () VERIFY EXTENT AND TYPE OF EXISTING BUILDING COVERAGE AT SITE AND BY REFERRING TO OWNER'S EXISTING FIRE PROTECTION SYSTEM RECORD DRAWINGS AVAILABLE FROM ARCHITECT.
- 2 THROUGHOUT THE BUILDING ADDITION AT SUSPENDED CEILINGS PROVIDE CONCEALED HEADS WITH CUSTOM COLOR COVERS. COLORS TO BE APPROVED BY ARCHITECT.
- 3 PROVIDE SOFFIT PROTECTION IF REQUIRED BY LOCAL JURISDICTION'S INTERPRETATION OF NFPA 13. VERIFY WITH AHJ.
- 4 SEE ALSO SHEET FD101 KEYED NOTE 3 FOR TEMPORARY SERVICE.
- CONNECT (N) COMBINED WATER PIPING TO CW LINE PROVIDED IN PLUMBING WORK. REFER TO PLUMBING PLANS FOR CONTINUATION OF PIPING TO IRRIGATION AND DOMESTIC WATER BACKFLOW PREVENTERS.
- 6 IN BASE BID PROVIDE THE FOLLOWING:
 1. PENDANT SPRINKLERS TO SERVE SHELL SPACE.
 2. UPRIGHT SPRINKLERS TO SERVE FUTURE CONCEALED SPACE ABOVE FUTURE SUSPENDED CEILING.
- 3. CAPPED TEES AS NEEDED FOR FUTURE SEMI-RECESSED PENDANT SPRINKLERS TO SERVE FUTURE FINISHED SPACE.
 (7) IN ALTERNATE NO. 1 PROVIDE THE FOLLOWING:
- UPRIGHTS PROTECTING CONCEALED SPACE TO REMAIN.
 REMOVE SHELL SPACE SPRINKLERS AND CAP OR REUSE BRANCH CONNECTIONS.
 PROVIDE SEMI-RECESSED SPRINKLERS LOCATED IN SUSPENDED CEILING INCLUDING BRANCH PIPING WITH FLEXIBLE CONNECTORS TO CENTER HEADS IN CEILING TILES OR COORDINATE WITH CEILING-MOUNTED APPURTENANCES IF GWB CEILING IS PROVIDE IN ARCHITECTURAL.

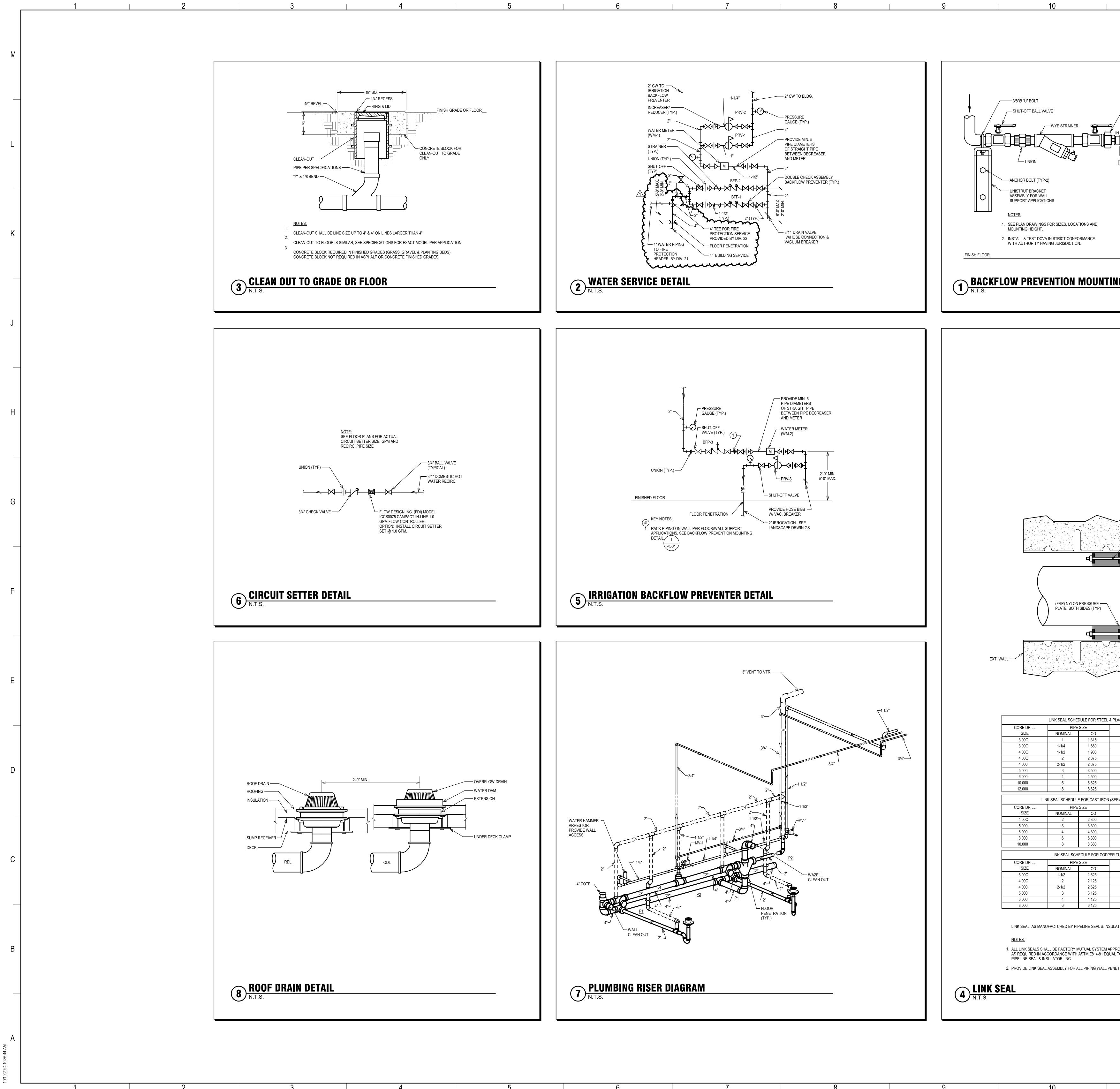




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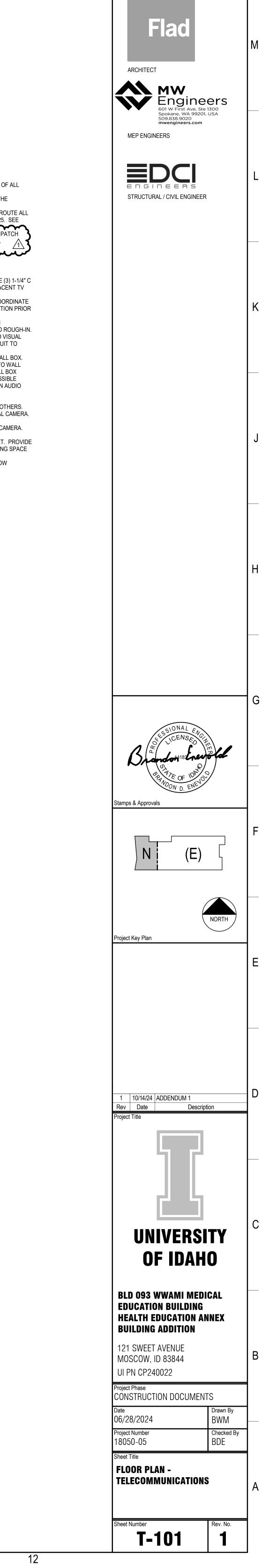




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BALL VALVE W/UNION END CONN. (TYP-2 WHEN SPECIFIED, SEE BACKFLOW PREVENTION SCHEDULE SHEET P601) BACKFLOW PREVENTION DEVICE, SEE BACKFLOW PREVENTION SCHEDULE, SHEET P601 FOR SIZE & TYPE 3/8"Ø "U" BOLT	ARCHITECT EXAMPLE AVE, Ste 1300 Spokane, WA 99201, USA S09,838,9020 mwengineers.com MEP ENGINEERS	
1"Ø SCHEDULE 40 STEEL PIPE. WELD BOTH ENDS TO STEEL PLATES.	E D G I D E E R S STRUCTURAL / CIVIL ENGINEER	-
(FLOOR SUPPORT APPLICATIONS)		• •
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CONCRETE WALL ELASTOMERIC SEAL ELEMENT LS MODEL (C, L, S-316, O, OS-316, T)	TTIEL OF LOW	(
PRESSURE PLATE	Stamps & Approvals	I
SILICONE SEAL STAINLESS STEEL NUT & BOLT (TYP) CAST OR CORE DRILLED HOLE INTERIOR WALL	Project Key Plan	-
& PLASTIC PIPE LINK SEAL LINKS PER MODEL SEAL LS-300 4 LS-275 8 LS-315 6		
LS-300 6 LS-200 9 LS-300 8 LS-300 10 LS-475 10 LS-475 12 (SERVICE WEIGHT) LINK SEAL LINKS PER MODEL SEAL	1 10/14/24 ADDENDUM 1 Rev Date Description Project Title	
LS-315 6 LS-300 8 LS-300 10 LS-315 15 LS-315 19 ER TUBING LINK SEAL LINK SEAL LINKS PER MODEL SEAL LS-275 8	UNIVERSITY	(
LS-315 6 LS-275 11 LS-315 8 LS-315 10 LS-315 15 SULATOR, INC. (WWW.LINKSEAL.COM)	OF IDAHO BLD 093 WWAMI MEDICAL EDUCATION BUILDING HEALTH EDUCATION ANNEX BUILDING ADDITION	
PPROVED FOR 1 HOUR OR 2 HOUR FIRE STOP JAL TO LINK SEAL AS MANUFACTURED BY ENETRATIONS AS INDICATED ON DRAWINGS.	121 SWEET AVENUE MOSCOW, ID 83844 UI PN CP240022 Project Phase CONSTRUCTION DOCUMENTS Date 06/28/2024 Drawn By DA	E
	Project Number 18050-05 Sheet Title PLUMBING - DETAILS	,
11 12	Sheet Number Rev. No. P-501 1	



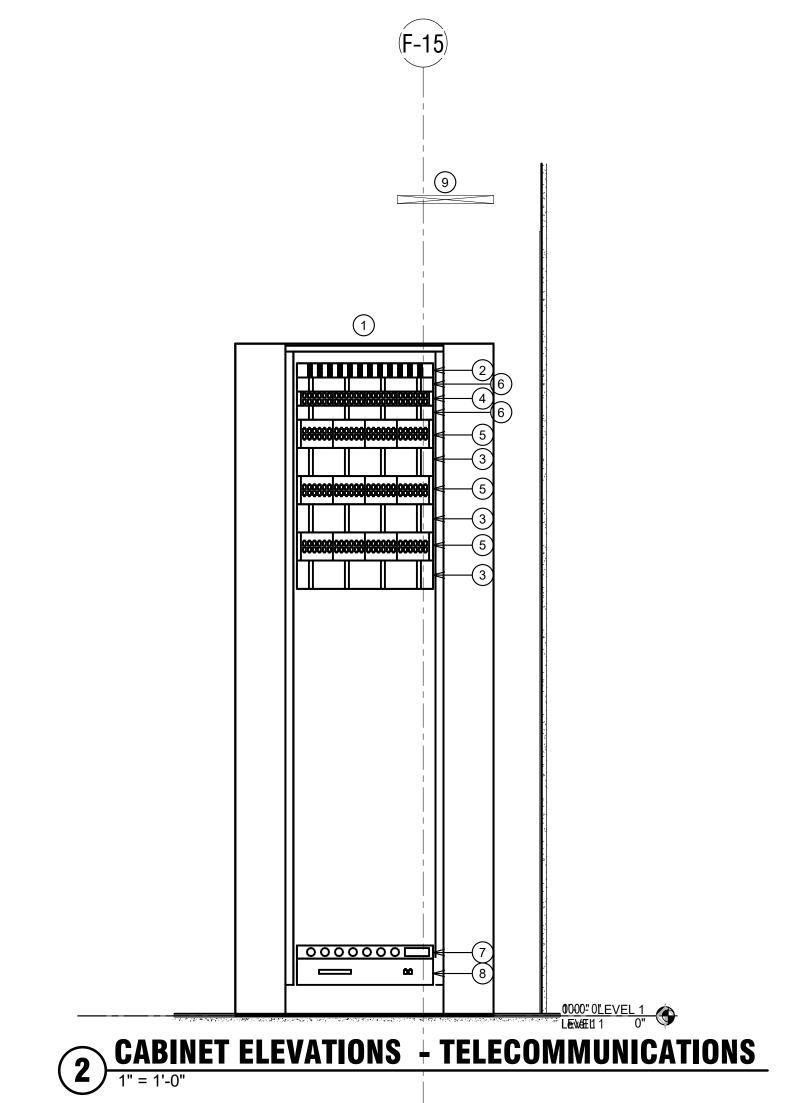
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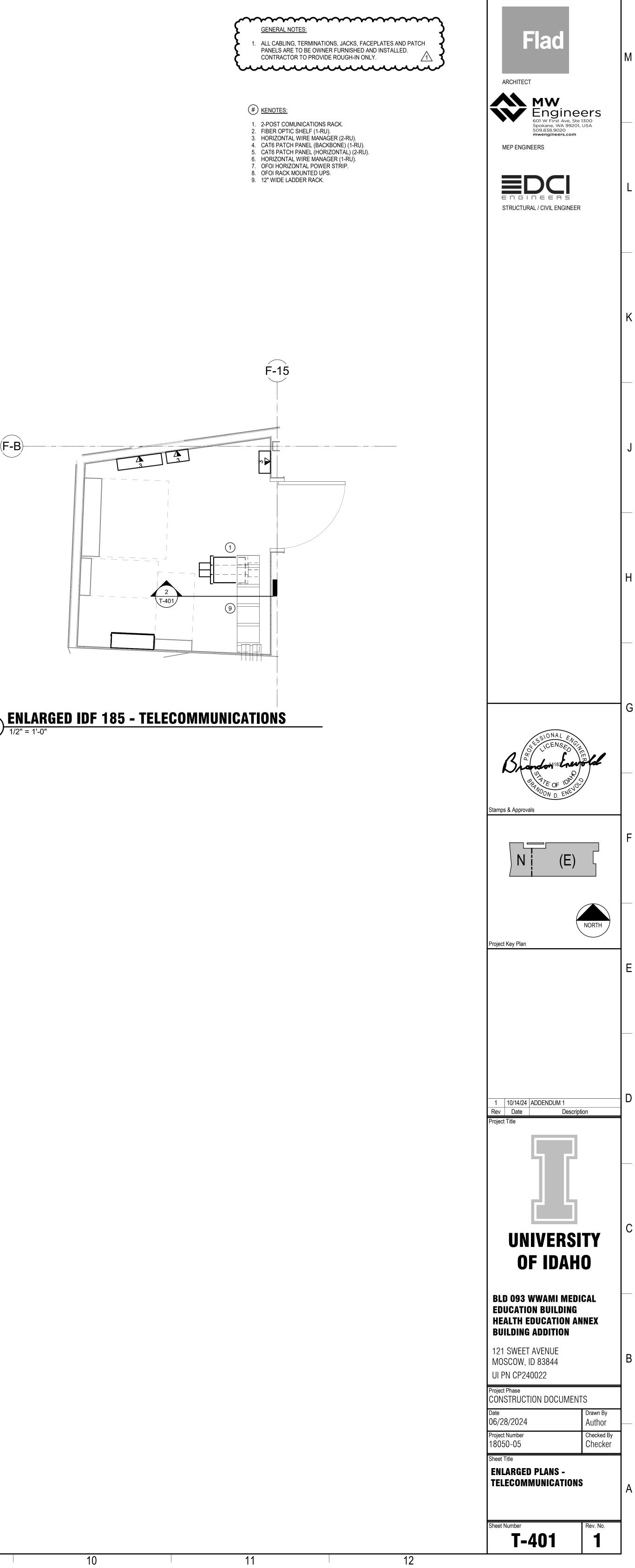


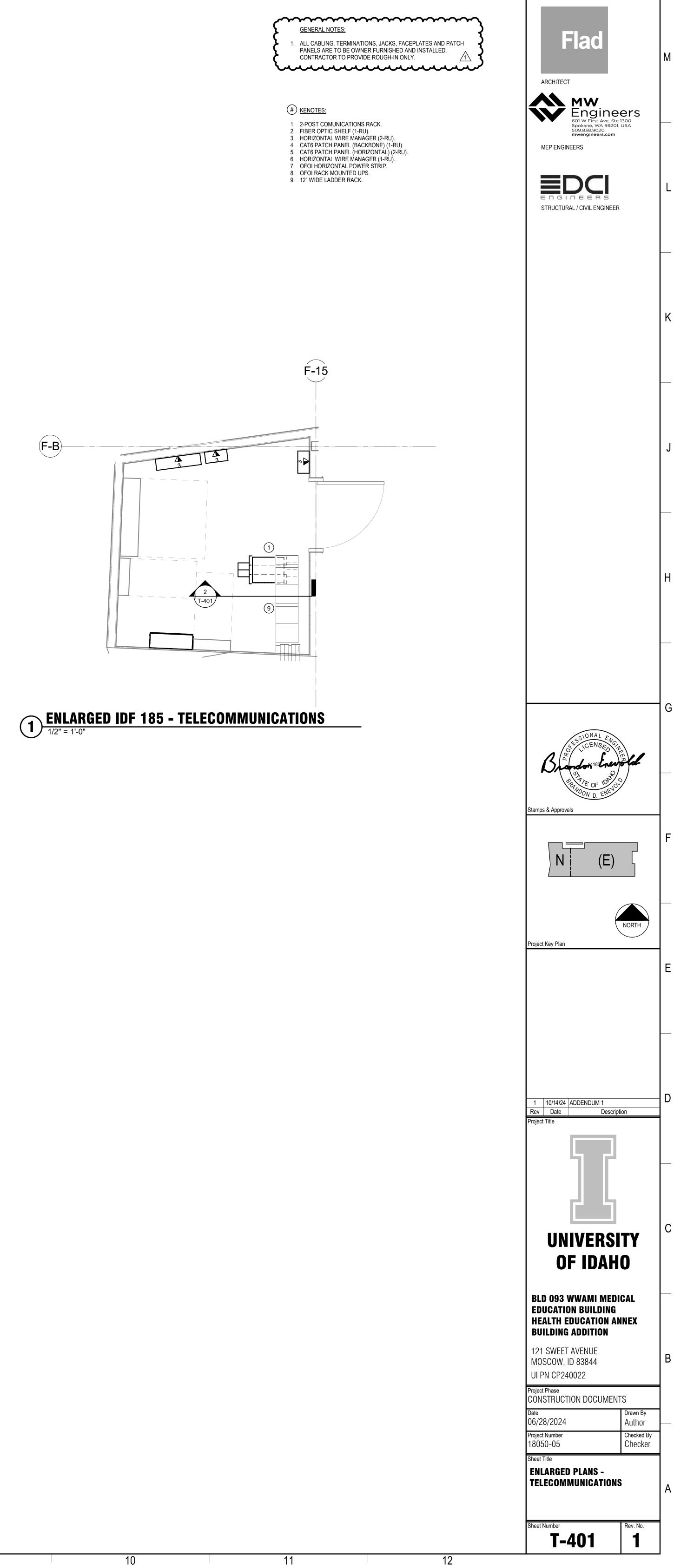
GENERAL NOTES: 1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR BOXES. 2. WAP DEVICE PLACEMENT PENDING PER DESIGN FROM THE UNIVERSITY OF IDAHO. 3. TV'S TO BE INSTALLED IN LEGRAND PAC525 WALL BOX. ROUTE ALL POWER, TELECOM AND AV CONFECTIONS TO THE PAC525. SEE PETAK SON SITUET SON PORMOREVARORINARION 4. ALL CABLING, TERMINATIONS, JACKS, FACEPLATES AND PATCH PANELS ARE TO BE OWNER FURNISHED AND INSTALLED. # KEY NOTES: 1. JUNCTION BOX FOR AUDIO/VISUAL EQUIPMENT. PROVIDE (3) 1-1/4" C TO ACCESSIBLE CEILING SPACE AND (1) 1-1/4" C TO ADJACENT TV BOX. OUTLET PROVIDED FOR SECURITY CONTROL PANEL. COORDINATE WITH ACCESS CONTROL CONTRACTOR FOR FINAL LOCATION PRIOR TO ROUGH-IN. 3. OUTLET PROVIDED FOR BAS PANEL. COORDINATE WITH MECHANICAL DRAWINGS FOR FINAL LOCATION PRIOR TO ROUGH-IN. 4. PROVIDE (1) 1-1/4" CONDUIT FROM FLOOR BOX TO AUDIO VISUAL WALL BOX BEHIND CREDENZA. PROVIDE (1) 1-1/4" CONDUIT TO ACCESSIBLE CEILING SPACE.
PROVIDE 16" TALL x 12" WIDE x 4" DEEP AUDIO VISUAL WALL BOX. CUT OUT REAR OF CREDENZA TO ALLOW FOR ACCESS TO WALL BOX. PROVIDE (1) 1-1/4" CONDUIT TO AUDIO VISUAL WALL BOX BEHIND DISPLAY. PROVIDE (1) 1-1/4" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE (9) CAT 6A NETWORK JACKS IN AUDIO VISUAL WALL BOX.

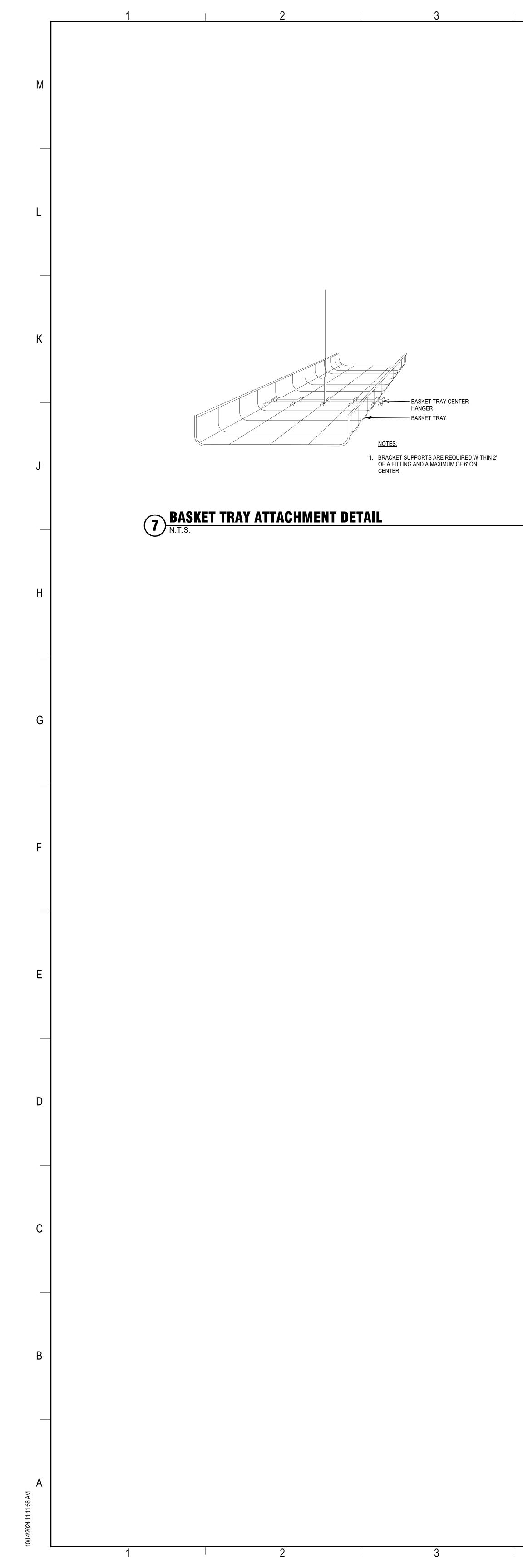
- CEILING MOUNTED SPEAKER, PROVIDED BY OTHERS.
 CEILING MOUNTED MICROPHONE ARRAY, PROVIDED BY OTHERS.
- OUTLET PROVIDED FOR CEILING MOUNTED AUDIO VISUAL CAMERA. AUDIO VISUAL CAMERA IS PROVIDED BY OTHERS.
 OUTLET PROVIDED FOR WALL MOUNTED AUDIO VISUAL CAMERA.
- AUDIO VISUAL CAMERA IS PROVIDED BY OTHERS. 10. OUTLET PROVIDED FOR LECTERN AUDIO VISUAL CABINET. PROVIDE AN ADDITIONAL (2) 1-1/4" CONDUIT TO ACCESSIBLE CEILING SPACE
- FOR OFOI AUDIO VISUAL CABLING. 11. OUTLET PROVIDED FOR CEILING MOUNTED SHORT THROW PROJECTOR. PROJECTOR IS PROVIDED BY OTHERS.

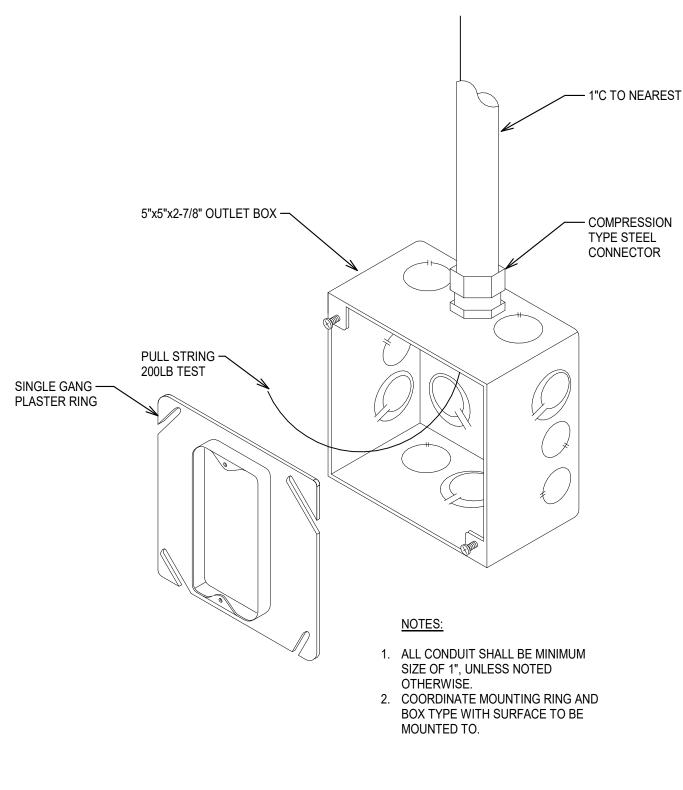
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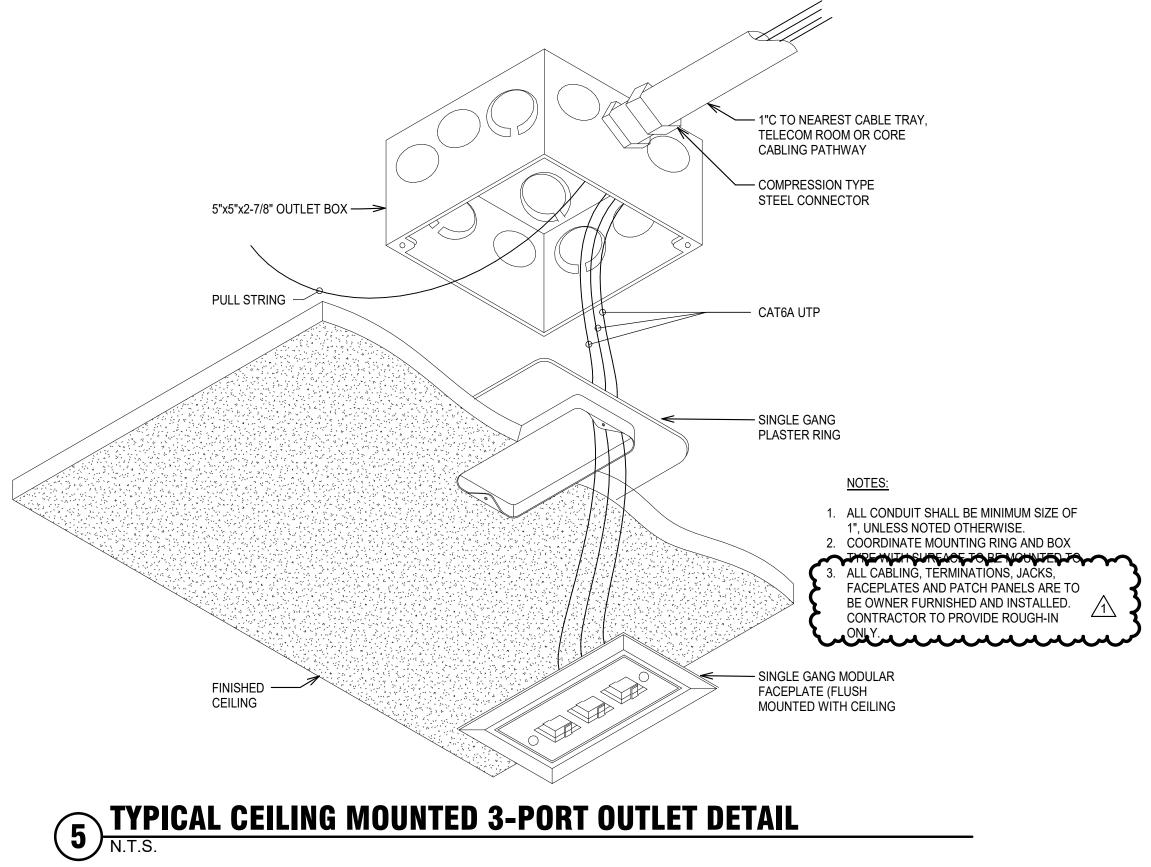








4 TYPICAL WALL MOUNT TV OUTLET DETAIL N.T.S.





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3 N.T.S.

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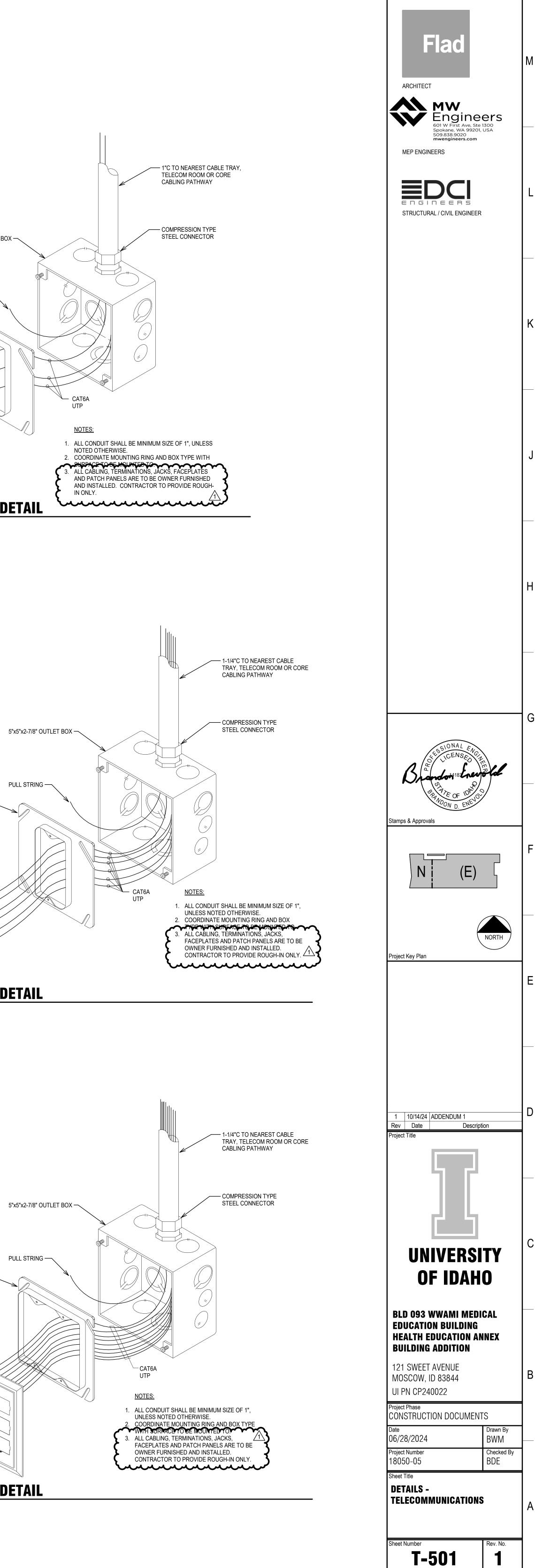
	DOUBLE GANG PLASTER RING	PULL STRING
DOUBLE GANG		
CAT 6A RJ-45 MODULAR JACK (TYPICAL OF 9)		
SPARE		

PULL STRING — SINGLE GANG —— PLASTER RING CAT 6A RJ-45 -----MODULAR JACK (TYP) 2 TYPICAL 6-PORT OUTLET DETAIL N.T.S.

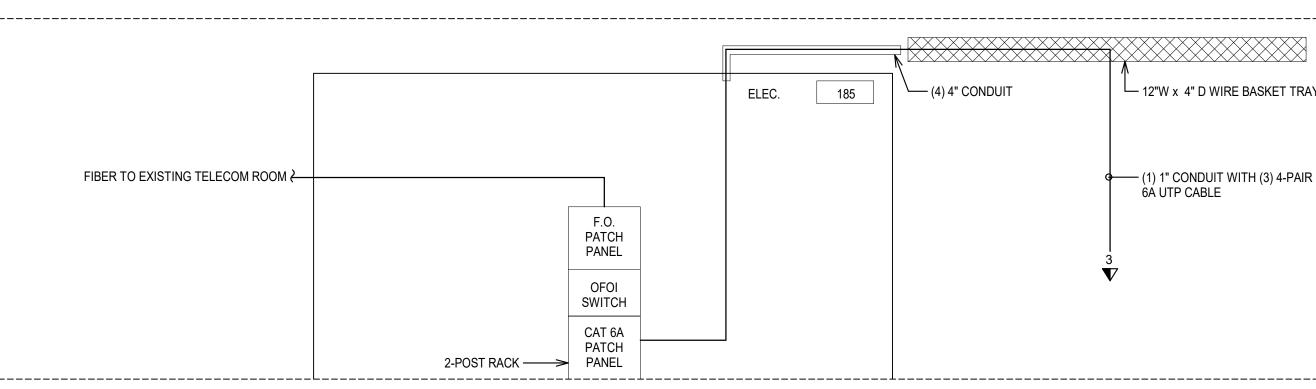
PULL STRING — SINGLE GANG — PLASTER RING CAT 6A RJ-45 —— MODULAR JACK (TYP) **TYPICAL 3-PORT OUTLET DETAIL** N.T.S.

/ 1"C TO NEAREST ACCESSIBLE CEILING SPACE.

5"x5"x2-7/8" OUTLET BOX —



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OM RISER DIAGRAM

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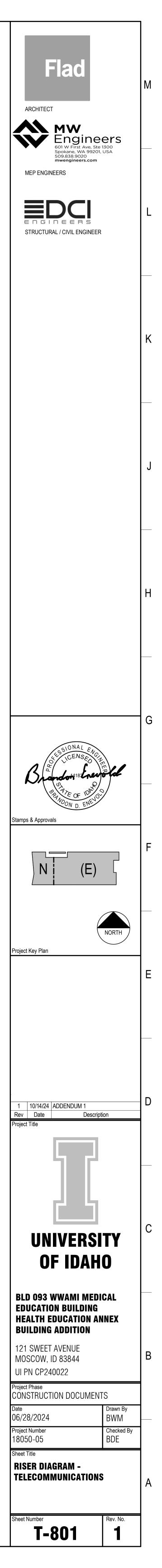
L 12"W x 4" D WIRE BASKET TRAY •----- (1) 1" CONDUIT WITH (3) 4-PAIR CAT 6A UTP CABLE

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FIRST FLOOR

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GENERAL NOTES: 1. ALL CABLING, TERMINATIONS, JACKS, FACEPLATES AND PATCH PANELS ARE TO BE OWNER FURNISHED AND INSTALLED. CONTRACTOR TO PROVIDE ROUGH-IN ONLY.

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ENUMERATION of CONTRACT DRAWINGS and SPECIFICATIONS

This document, <u>Enumeration of Contract Drawings and Specifications</u>, shall be included as an Exhibit to the Standard Form of Agreement Between Owner and Contractor, AIA Document A101 – 2017, as modified by the Supplemental Conditions to the Agreement.

BUILDING: BLD 093 WWAMI MEDICAL EDUCATION BUILDING PROJECT NAME: HEALTH EDUCATION ANNEX ADDITION University of Idaho

UI PROJECT No.: UI CP240022

LIST OF DRAWINGS: (AIA A101-2017, Paragraph 9.1.5)

General

G-001	COVER SHEET & SHEET INDEX
G-101	LIFE SAFETY PLAN

Civil

C-001	GENERAL CIVIL INFORMATION
C-002	GENERAL NOTES
C-101	EXISTING SITE CONDITIONS AND DEMOLITION PLAN
C-102	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN
C-103	CIVIL SITE PLAN
C-104	SITE GRADING PLAN
C-105	SITE STORMWATER AND UTILITY PLAN
C-501	DETAILS
C-501	DETAILS
C-103	CIVIL SITE PLAN
C-104	SITE GRADING PLAN
C-105	SITE STORMWATER AND UTILITY PLAN

Landscape

L-100	OVERALL SITE PLAN
L-200	GRADING PLAN ENLARGEMENT
L-300	PLANTING PLAN ENLARGEMENT

Irrigation

IR-300	IRRIGATION NOTES AND LEGEND
IR-301	IRRIGATION PLAN
IR-302	IRRIGATION DETAILS

Architectural

A-001	GENERAL NOTES, ABBREVIATIONS, & LEGENDS
A-011	SITE & VICINITY PLAN

AD-001 AD-002 A-100 A-101 A-102 A-111 A-121 A-151 A-201 A-202 A-301 A-202 A-301 A-302 A-401 A-402 A-403 A-501 A-502 A-503 A-504 A-505 A-506 A-505 A-506 A-601 A-505 A-506 A-601 A-611 A-701 A-702 A-703 A-711 A-801 A-802 A-803 A-811 A-901	DEMO SITE PLAN DEMO FLOOR PLAN, REFLECTED CEILING PLAN, & ELEVATIONS FLOOR PLAN – OVERALL FLOOR PLAN SLAB & DIMENSIONAL PLANS ROOF PLAN REFLECTED CEILING PLAN FINISH & FURNITURE PLAN BUILDING ELEVATIONS BUILDING ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS EXTERIOR WALL SECTIONS EXTERIOR WALL SECTIONS EXTERIOR WALL SECTIONS EXTERIOR DETAILS - CLADDING EXTERIOR DETAILS - CURTAIN WALL EXTERIOR DETAILS - CURTAIN WALL EXTERIOR DETAILS - CURTAIN WALL EXTERIOR DETAILS - CORFIDORS EXTERIOR DETAILS - CORFIDING EXTERIOR DETAILS - CORFIDING EXTERIOR DETAILS - CORTAIN WALL EXTERIOR DETAILS - CORTAIN WALL EXTERIOR DETAILS - CORFIDING EXTERIOR DETAILS - ROOF SCHEDULES - DOOR, FINISH, & MATERIALS PARTITION TYPES INTERIOR ELEVATIONS - CORRIDORS & MIXING ZONE INTERIOR ELEVATIONS - FLEX WORK, CONFERENCE, OFFICE, SGL, & GNB INTERIOR ELEVATIONS - ALTERNATES INTERIOR SECTIONS INTERIOR SECTIONS INTERIOR DETAILS CEILING DETAILS CASEWORK & MILLWORK DETAILS SIGNAGE PLAN & DETAILS 3D PERSPECTIVES
Structural	

S-001	GENERAL NOTES
S-002	SPECIAL INSPECTIONS
S-101	FOUNDATION PLAN
S-102	ROOF FRAMING PLAN
S-201	FOUNDATION DETAILS
S-202	FOUNDATION DETAILS
S-301	FRAMING DETAILS
S-302	FRAMING DETAILS
S-303	FRAMING DETAILS

Mechanical

M-001	LEGENDS & ABBREVIATIONS – MECHANICAL
MD-101	FLOOR PLAN - DEMO HVAC
M-010	CRAWL SPACE PLAN - HVAC
M-100	FLOOR PLAN - OVERALL - HVAC
M-101	FLOOR PLAN - HVAC

M-102	ROOF PLAN - MECHANICAL
M-301	SECTIONS - HVAC
M-501	DETAILS - HVAC
M-601	SCHEDULES - HVAC
M-701	CONTROL DIAGRAMS - HVAC

Fire Protection

F-001	FIRE PROTECTION SYMBOLS AND ABBREVIATIONS
FD-101	FIRE PROTECTION PLANS LEVEL 1 DEMOLITION
FD-100	FIRE PROTECTION PLANS BELOW GRADE DEMOLITION
F-101	FIRE PROTECTION FLOOR PLAN LEVEL 1
F-102	FIRE PROTECTION FLOOR PLAN ROOF LEVEL
F-501	FIRE PROTECTION DETAILS
F-502	FIRE PROTECTION DETAILS

Plumbing

PD-100 PD-101	FOUNDATION PLAN - DEMO - PLUMBING FLOOR PLAN - DEMO - PLUMBING
P-100	FOUNDATION PLAN - PLUMBING
P-101	FLOOR PLAN - PLUMBING
P-501	PLUMBING - DETAILS
P-502	PLUMBING - DETAILS
P-601	PLUMBING - SCHEDULES

Electrical

ED-102	FLOOR PLAN - DEMO - ELECTRICAL
E-001	LEGENDS & ABBREVIATIONS - ELECTRICAL
E-100	SITE PLAN - ELECTRICAL
E-101	LEVEL 1 - FLOOR PLAN - ELECTRICAL
E-102	ROOF - FLOOR PLAN - ELECTRICAL
E-400	FLOOR PLANS - ENLARGED - ELECTRICAL
E-501	DETAILS - ELECTRICAL
E-600	EQUIPMENT SCHEDULE - ELECTRICAL
E-601	PANEL SCHEDULE - ELECTRICAL
E-700	ONE-LINE DIAGRAM - EXISTING - ELECTRICAL
E-701	ONE-LINE DIAGRAM - REVISED - ELECTRICAL
Lighting	
ELD-101	FLOOR PLAN - DEMO - LIGHTING
EL-101	FLOOR PLAN - LIGHTING
EL-501	DETAILS - LIGHTING
Systems	

ESD-101	FLOOR PLAN - DEMO - SYSTEMS
ES-101	FLOOR PLAN - SYSTEMS
ES-102	ROOF - FLOOR PLAN - SYSTEMS
ES-501	DETAILS - SYSTEMS

Telecommunications

T-101 FLOOR PLAN - TELECOMMUNICATIONS	3
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- T-401 ENLARGED PLANS TELECOMMUNICATIONS
- T-501 DETAILS TELECOMMUNICATIONS
- T-502 DETAILS TELECOMMUNICATIONS
- T-801 RISER DIAGRAM TELECOMMUNICATIONS

LIST OF SPECIFICATIONS: (AIA A101-2017, Paragraph 9.1.6)

I. BIDDING REQUIREMENTS

Advertisement for Bids Notice to Contractors Instructions to Bidders; AIA A701 – 1997 (By Reference) UI Supplementary Conditions to AIA A701 - 1997 Substitution Request Form Bid Proposal Contractor's Affidavit Concerning Alcohol and Drug-Free Workplace Bid Bond; AIA A310 – 2010 (By Reference) Power of Attorney

II. CONTRACT REQUIREMENTS

Agreement between Owner and Contractor; AIA A101 – 2017 (By Reference) UI Supplementary Conditions to AIA A101 - 2017 General Conditions of the Contract for Construction; AIA A201 – 2017 (By Reference) UI Supplementary Conditions to AIA A201 – 2017 Public Works Contract Report, WH-5 Referenced Forms: Contractor's Affidavit Concerning Taxes UI Request for Certificate of Insurance Certificate of Insurance; AIA G715 – 2017 (By Reference) Performance Bond and Payment Bond; AIA A312 – 2010 (By Reference) Certificate of Substantial Completion; AIA G704 – 2017 (By Reference) Affidavit of Payment of Debts and Claims; AIA G706 – 1994 (By Reference) Contractor's Affidavit of Release of Liens; AIA G706A – 1994 (By Reference) Consent of Surety Company to Final Payment; AIA G707 – 1994 (By Reference) Enumeration of Contract Drawings and Specifications

III. TECHNICAL SPECIFICATIONS

DIVISION 01 - GENERAL REQUIREMENTS

01 1000 - Summary
01 2300 - Alternates
01 2500 - Substitution Procedures
01 2550 - Roofing Materials Substitution Request Form
01 2600 - Contract Modification Procedures
01 2613 - Requests for Information

- 01 3100 Project Management and Coordination
- 01 3216 Construction Progress Schedule
- 01 3233 Photographic Documentation
- 01 3300 Submittal Procedures
- 01 4000 Quality Requirements
- 01 4389 Mock-Ups
- 01 4533 Code-Required Special Inspections and Procedures
- 01 5000 Temporary Facilities and Controls
- 01 6000 Product Requirements
- 01 7329 Cutting and Patching
- 01 7419 Construction Waste Management and Disposal
- 01 7700 Closeout Procedures
- 01 7823 Operation and Maintenance Data
- 01 7839 Project Record Documents
- 01 9113 General Commissioning Requirements

DIVISION 02 – EXISTING CONDITIONS

02 4100 - Demolition

DIVISION 03 – CONCRETE

03 1553 - Underslab Vapor Retarders 03 3553 - Concrete Sealer

DIVISION 04 – MASONRY

NOT USED

DIVISION 05 – METALS

05 5000 - Metal Fabrications 05 5133 - Metal Ladders

DIVISION 06 – FINISHES

06 1000 - Rough Carpentry 06 2000 - Finish Carpentry 06 4100 - Architectural Woodwork 06 4200 - Wood Paneling

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

07 0543 - Cladding Support Systems
07 0553 - Fire and Smoke Assembly Identification
07 2100 - Thermal Insulation
07 2726 - Fluid-Applied Membrane Air Barriers
07 4213 - Metal Wall Panels
07 4243 - Phenolic Wall Panels
07 5400 - Thermoplastic Membrane Roofing
07 5400.1 - DPW-Approved Roofing Manufacturers
07 5400.2 - 30 Year Guaranty for Single-Ply Roofing

07 6200 - Sheet Metal Flashing and Trim
07 7100 - Roof Specialties
07 7200 - Roof Accessories
07 8413 - Penetration Firestopping
07 9200 - Joint Sealants
07 9219 - Acoustical Joint Sealants

DIVISION 08 - OPENINGS

- 08 1116 Aluminum Doors and Frames
- 08 1213 Hollow Metal Frames
- 08 1416 Flush Wood Doors
- 08 3100 Access Doors and Panels
- 08 3200 Sliding Glass Doors
- 08 4313 Aluminum-Framed Storefronts
- 08 4413 Glazed Aluminum Curtain Walls
- 08 7100 Door Hardware
- 08 8000 Glazing
- 08 8300 Mirrors

DIVISION 09 - FINISHES

- 09 2216 Non-Structural Metal Framing
- 09 2813 Cementitious Backer Boards
- 09 2900 Gypsum Board
- 09 3000 Tiling
- 09 5100 Acoustical Ceilings
- 09 6105 Water Vapor Emission Control System
- 09 6513 Resilient Base and Accessories
- 09 6519 Resilient Tile Flooring
- 09 6813 Tile Carpeting
- 09 8430 Sound-Absorbing Wall and Ceiling Units
- 09 9113 Exterior Painting
- 09 9123 Interior Painting
- 09 9300 Staining and Transparent Finishing

DIVISION 10 – SPECIALTIES

- 10 1100 Visual Display Units
- 10 2800 Toilet and Bath Accessories
- 10 4400 Fire Protection Specialties

DIVISION 11 – EQUIPMENT

NOT USED

DIVISION 12 – FURNISHINGS

- 12 2400 Window Shades
- 12 3600 Countertops

DIVISION 13 – SPECIAL CONSTRUCTION

NOT USED

DIVISION 14 – CONVEYING EQUIPMENT

NOT USED

DIVISION 21 – FIRE PROTECTION

- 21 0010 Fire Protection General Provisions
- 21 1000 Fire Protection Systems
- 21 2000 Fire Protection Operation and Maintenance Manuals
- 21 4200 Seismic Restraints for Fire Protection

DIVISION 22 – PLUMBING

- 22 0500 Common Work Results for Plumbing
- 22 0504 Plumbing Specialties
- 22 0505 Additions or Remodeled Facilities
- 22 0517 Sleeves and Sleeve Seals for Plumbing Piping
- 22 0519 Meters and Gauges for Plumbing Piping
- 22 0523 General Duty Valves for Plumbing Piping
- 22 0529 Hangers and Supports for Plumbing Piping and Fittings
- 22 0549 Seismic Controls for Plumbing Piping and Equipment
- 22 0553 Identification for Plumbing Piping and Equipment
- 22 0700 Plumbing Insulation
- 22 1000 Plumbing Piping
- 22 4000 Plumbing Fixtures

DIVISION 23 – HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

- 23 0500 Common Work Results for HVAC
- 23 0505 Additions or Remodeled Facilities
- 23 0513 Common Motor Requirements for HVAC Equipment
- 23 0517 Sleeves and Sleeve Seals for HVAC
- 23 0529 Hangers and Supports for HVAC Piping and Fittings
- 23 0548 Vibration Isolation
- 23 0549 Seismic Controls for Mechanical
- 23 0553 Identification for HVAC Piping and Equipment
- 23 0593 Testing, Adjusting, and Balancing
- 23 0700 HVAC Insulation
- 23 0800 Mechanical Commissioning
- 23 0923 Direct-Digital Control for HVAC
- 23 2300 Refrigerant Piping
- 23 3013 Air Handling Equipment Sound Levels
- 23 3100 HVAC Ducts and Casings
- 23 3300 Air Duct Accessories
- 23 3400 HVAC Fans
- 23 3600 Air Terminal Units
- 23 3700 Air Outlets and Inlets
- 23 4000 Air Cleaning Devices
- 23 7416 Packaged Rooftop Air-Conditioning Units

23 8126 - Split System Air Conditioners23 8200 - Convection Heating and Cooling Units

DIVISION 26 – ELECTRICAL

- 26 0101 Basic Electrical Requirements
- 26 0102 Project Finalization
- 26 0160 Electrical Demolition for Remodeling
- 26 0519 Building Wire and Cable
- 26 0520 Equipment Wiring
- 26 0526 Grounding and Bonding
- 26 0530 Conduit
- 26 0532 Boxes
- 26 0553 Electrical Identification
- 26 0573 Power System Study
- 26 0943 Low Voltage Lighting Controls (Distribution Relay Based)
- 26 2416 Panelboards
- 26 2716 Cabinets and Enclosures
- 26 2726 Wiring Devices
- 26 2727 Supporting Devices
- 26 2813 Fuses
- 26 2816 Enclosed Switches
- 26 2817 Enclosed Circuit Breakers
- 26 2913 Enclosed Motor Controllers
- 26 4313 Surge Protective Devices

DIVISION 27 - COMMUNICATIONS

- 27 0500 Common Work Results for Communications
- 27 0526 Grounding and Bonding for Telecommunications
- 27 0529 Hangers and Supports for Communications Systems
- 27 0533 Conduits and Backboxes for Communications Systems
- 27 0536 Cable Trays for Communications Circuits
- 27 1100 Communications Equipment Room Fittings
- 27 1300 Communications Backbone Cabling
- 27 1500 Communications Horizontal Cabling

DIVISION 28 – ELECTRONIC SAFETY and SECURITY

- 28 0528 Conduit Only System for AV
- 28 1300 Security Access Control System
- 28 3120 Addressable Fire Alarm Systems

DIVISION 31 – EARTHWORK

- 31 1000 Site Clearing
- 31 1500 Erosion and Sedimentation Control
- 31 2000 Earth Moving

DIVISION 32 – EXTERIOR IMPROVEMENTS

32 1216 - Asphalt Paving

32 1313 - Concrete Paving

32 1373 - Concrete Pavement Joint Sealants

32 1413 - Precast Concrete Unit Paving

32 3300 - Site Furnishings

32 8400 - Landscape Irrigation

- 32 9113 Soil Preparation
- 32 9300 Plants
- 32 9400 Planting Accessories

DIVISION 33 - UTILITIES

33 1000 - Water Utilities

33 4100 - Storm Utility Drainage Piping

END OF ENUMERATION OF CONTRACT DRAWINGS AND SPECIFICATIONS

SECTION 03 3553 CONCRETE SEALER

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Concrete sealer
 - 1. Slabs-on-grade.

1.02 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Material Certificates: For each of the following, signed by manufacturers:1. Floor and slab treatments.

1.03 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant, obtain aggregate from single source, and obtain admixtures from single source from single manufacturer.
- B. Pre-installation Conference: Conduct conference at Project site.
- 1. Review concrete finishes and finishing, curing procedures, and concrete protection.

PART 2 PRODUCTS

2.01 LIQUID FLOOR TREATMENTS

- A. Penetrating Liquid Floor Treatment: Clear, chemically reactive, waterborne solution of inorganic silicate or siliconate materials and proprietary components; odorless; that penetrates, hardens, and densifies concrete surfaces.
 - 1. Products:
 - a. Curecrete Distribution Inc.; Ashford Formula: www.ashfordformula.com.
 - b. Dayton Superior Corporation; Sure Hard Densifier J-17: www.daytonsuperior.com.
 - c. Euclid Chemical Company (The), an RPM company; Euco Diamond Hard: www.euclidchamical.com.
 - d. Laticrete International, Inc.; L&M Seal Hard: www.laticrete.com.
 - e. Master Builders Solutions/BASF; MasterKure HD 300WB: www.master-builderssolutions.basf.us.
 - f. SINAK Corporation; LithoHard: www.sinak.com.
 - g. Vexcon Chemicals, Inc.; Vexcon StarSeal PS Clear: www.vexcon.com.

PART 3 EXECUTION

3.01 LIQUID FLOOR TREATMENTS

- A. Penetrating Liquid Floor Treatment: Prepare, apply, and finish penetrating liquid floor treatment according to manufacturer's written instructions.
 - 1. Remove curing compounds, sealers, oil, dirt, laitance, and other contaminants and complete surface repairs.
 - 2. Do not apply to concrete that is less than 28 days' old.
 - 3. Apply liquid until surface is saturated, scrubbing into surface until a gel forms; rewet; and repeat brooming or scrubbing. Rinse with water; remove excess material until surface is dry. Apply a second coat in a similar manner if surface is rough or porous.

3.02 PROTECTION OF LIQUID FLOOR TREATMENTS

A. Protect liquid floor treatment from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by liquid floor treatments installer.

END OF SECTION

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SECTION 09 6105 WATER VAPOR EMISSION CONTROL SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Water vapor emission control systems applied to interior concrete slabs scheduled to receive moisture sensitive flooring, including, but not limited to:
 1. Resilient tile flooring.
- B. Hydraulic-cement-based underlayment applied over water vapor emission control systems.

1.02 REFERENCE STANDARDS

- A. 40 CFR 59, Subpart D National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency.
- B. ASTM C109/C109M Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 50 mm [2 in.] Cube Specimens).
- C. ASTM C150/C150M Standard Specification for Portland Cement.
- D. ASTM C219 Standard Terminology Relating to Hydraulic Cement.
- E. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- F. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
- G. ICRI CSP Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair.

1.03 ALLOWANCES

A. Furnish and install water vapor emission control system and underlayment as part of allowance.

1.04 PRE-INSTALLATION

A. Pre-Installation Conference: Conduct conference at Project site.

1.05 SUBMITTALS

- A. Product Data: For each type of product indicated, and including the following:
 - 1. Manufacturer's specification.
 - 2. Installation instructions.
 - 3. Independent test data.
 - 4. Certification requirements.
 - 5. Warranty information.
- B. Sustainable Design Submittals:
 - 1. Product Data: For primer and sealing coatings, indicating VOC content.
- C. Moisture Testing: Submit anhydrous calcium chloride testing results per ASTM F1869 and relative humidity testing results per ASTM F2170.
- D. Alkalinity Testing: Submit testing results according to manufacturer's written recommendations.
- E. Qualification Data: For qualified Installer.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: Installer who is approved by manufacturer for application of water vapor emission control products required for this Project and approved to provide full system warranty.
- B. Manufacturer Qualifications: Manufacturer shall have no less than 10 years experience in manufacturing water vapor reduction systems. The water vapor reduction system shall be specifically formulated and marketed for water vapor reduction and alkalinity control without change of system design for a minimum period of 5 years.

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UI PN CP240022 Flad Project No. 18050-05 Water Vapor Emission Control System Section 09 6105 - 1 C. Product Compatibility: Manufacturers of water vapor emission control systems and floorcovering systems certify in writing that products are compatible.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to the job site in their original unopened containers, clearly labeled with the manufacturer's name and brand designation.
- B. Store materials to comply with manufacturer's written instructions to prevent deterioration from moisture or other detrimental effects.

1.08 PROJECT CONDITIONS

- A. Environmental Limitations: Comply with manufacturer's written instructions for substrate temperature, ventilation, ambient temperature and humidity, and other conditions affecting performance.
 - 1. Do not apply water vapor reduction system when temperature is lower than 50°F or expected to fall below this temperature within 24 hours from time of application.

1.09 COORDINATION

A. Coordinate application of water vapor emission control systems with requirements of floorcovering products and adhesives, to ensure compatibility of products.

1.10 WARRANTY

- A. Manufacturer shall provide the Owner with standard 10 year full system warranty at no additional cost. Applicator of water vapor emission control systems shall provide standard installation warranty for workmanship.
 - 1. Manufacturer agrees to repair or replace components of system that fail in materials or workmanship within specified warranty period.
 - 2. Warranty includes removal and replacement of finish floor covering materials due to water vapor emission and moisture contaminates.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Source Limitations: Provide primer, water vapor emission control system, and underlayment materials from same manufacturer.

2.02 WATER VAPOR EMISSION CONTROL SYSTEM

- A. Epoxy based coating system capable of permanently reducing water vapor and moisture levels to acceptable levels for coatings, adhesives, and floor covering systems.
- B. Manufacturers:
 - 1. Aquafin; Vaportight Coat: www.aquafin.net.
 - 2. Ardex; MC Moisture Control System: www.ardex.com.
 - 3. Koster American Corporation; VAP I 2000: www.kosterusa.com.
 - 4. <u>SINAK Corporation; VECT-R: www.sinak.com.</u>
- C. Primer: Product of water vapor emission control system manufacturer recommended in writing for substrate, conditions, and application indicated.
 - 1. Primer shall have a VOC content of 200 g/L or less when calculated according to 40 CFR 59, Subpart D.

2.03 HYDRAULIC-CEMENT-BASED UNDERLAYMENTS

- A. Underlayment: Hydraulic-cement-based, polymer-modified, self-leveling product that can be applied over water vapor emission control system in minimum uniform thickness of 1/8 inch and that can be feathered at edges to match adjacent floor elevations.
 - 1. Cement Binder: ASTM C150/C150M, portland cement, or hydraulic or blended hydraulic cement as defined by ASTM C219.
 - 2. Compressive Strength: Not less than 4000 psi at 28 days when tested according to ASTM C109/C109M.
- B. Water: Potable and at a temperature of not more than 70 degF.

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- C. Primer: Product of underlayment manufacturer recommended in writing for substrate, conditions, and application indicated.
 - 1. Primer shall have a VOC content of 200 g/L or less when calculated per 40 CFR 59, Subpart D.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine substrates, with Installer present, for conditions affecting performance.
 - 1. Proceed with application only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. General: Prepare and clean substrate per manufacturer's written instructions.
 - 1. Treat nonmoving substrate cracks per manufacturer's written instructions to prevent cracks from telegraphing (reflecting) through underlayment.
 - 2. Fill substrate voids to prevent underlayment from leaking.
- B. Concrete Substrates: Mechanically remove, according to manufacturer's written instructions, laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants that might impair underlayment bond.
 - 1. Sand or shot blast to a minimum surface profile of ICRI CSP 3-4 finish, unless required otherwise by manufacturer.
 - 2. Moisture Testing: Perform anhydrous calcium chloride test, ASTM F1869. Proceed with installation only after substrates do not exceed maximum moisture-vapor-emission rate in 24 hours as required by the manufacturer.

3.03 WATER VAPOR EMISSION CONTROL SYSTEM APPLICATION

- A. Install water vapor emission control system according to manufacturer's written instructions.
- B. Apply primer and water vapor emission control system over prepared substrate at manufacturer's recommended spreading rate.
- C. Cure water vapor emission control system according to manufacturer's written instructions. Prevent contamination during application and curing processes.

3.04 UNDERLAYMENT APPLICATION

- A. General: Mix and apply underlayment components according to manufacturer's written instructions.
 - 1. Close areas to traffic during underlayment application and for time period after application recommended in writing by manufacturer.
 - 2. Coordinate application of components to provide optimum underlayment-to-substrate and intercoat adhesion.
 - 3. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue through underlayment.
 - 4. Adhesion Tests: After substrate preparation, test substrate for adhesion with underlayment according to manufacturer's written instructions.
- B. Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- C. Apply underlayment to produce uniform, level surface.
 - 1. Apply a final layer without aggregate to product surface.
 - 2. Feather edges to match adjacent floor elevations.
- D. Cure underlayment according to manufacturer's written instructions. Prevent contamination during application and curing processes.
- E. Remove and replace underlayment areas that evidence lack of bond with substrate, including areas that emit a "hollow" sound when tapped.
- F. Protect underlayment from concentrated and rolling loads for remainder of construction period.
- G. Do not install floor coverings over underlayment until after time period recommended in writing by underlayment manufacturer.

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3.05 PROTECTION

A. Protect each product during required cure period from any kind of traffic, topical water, and contaminants.

END OF SECTION

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SECTION 09 8430 SOUND-ABSORBING WALL AND CEILING UNITS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Sound-absorbing panels.

1.02 REFERENCE STANDARDS

- A. ASTM C423 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- B. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. ASTM E795 Standard Practices for Mounting Test Specimens during Sound Absorption Tests.
- D. NFPA 265 Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Wall Coverings on Full Height Panels and Wall.
- E. NFPA 286 Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.
- F. UL 723 Standard for Test for Surface Burning Characteristics of Building Materials.

1.03 SUBMITTALS

- A. Product Data: Manufacturer's printed data sheets for products specified.1. Include panel edge, core material, and mounting indicated.
- B. Shop Drawings: Fabrication and installation details, panel layout.
- C. Verification Samples: Fabricated samples of each type of panel specified; 12 by 12 inch, showing construction, edge details, and fabric covering.
- D. Coordination Drawings: Elevations and other details, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
 - 1. Items penetrating or covered by units including the following:
 - a. Lighting fixtures.
 - b. Air outlets and inlets.
 - c. Speakers.
 - d. Alarms.
 - e. Sprinklers.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Protect acoustical units from moisture during shipment, storage, and handling. Deliver in factory-wrapped bundles; do not open bundles until units are needed for installation.
- B. Store units flat, in dry, well-ventilated space; do not stand on end.
- C. Protect edges from damage.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: Units shall comply with "Surface-Burning Characteristics" or "Fire Growth Contribution" Subparagraph below, or both, as determined by testing identical products by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Surface-Burning Characteristics: Comply with ASTM E84 or UL 723; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 50 or less.
 - 2. Fire Growth Contribution: Comply with acceptance criteria of local code and authorities having jurisdiction when tested per NFPA 265 Method B Protocol or NFPA 286.

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2.02 TEC1 - WOOD FIBER SOUND-ABSORBING UNITS

A. Manufacturers:

- 1. Armstrong World Industries, Inc; Tectum DesignArt: www.armstrongceilings.com/#sle.
- 2. Cardinal Acoustics; Direct Attached Panel: www.cardinalacoustics.com.
- B. Wood Fiber Acoustical Panels for Walls and Ceilings: Cementitious wood fiber.
 - 1. Size: As indicated on Drawings.
 - 2. Thickness: 1 inch.
 - 3. Noise Reduction Coefficient (NRC): 0.70 to 0.80 when tested in accordance with ASTM C423 for Type A mounting, per ASTM E795.
 - 4. Panel Edge: Rectuangular.
 - 5. Surface Pattern: Coarse.
 - 6. Surface Color: Match PT1.
 - 7. Mounting: Use fixing clips to attach to wood furring strips anchored to wall substrate.

2.03 AWP2 - PLASTIC SOUND-ABSORBING UNITS

- A. Polyester Panels for Walls:
 - 1. Basis of Design: MDC Wallcoverings; Zintra Acoustic Panels: www.mdcwall.com. Provide indicated product or comparable approved by Design Professional.
 - 2. Surface Burning Characteristics: Flame spread index of 25 or less and smoke developed index of 450 or less, when tested in accordance with ASTM E84.
 - 3. Sound Absorption: Noise Reduction Coefficient (NRC) of 0.45 when tested in accordance with ASTM C423.
 - 4. Panel Size: As indicated on Drawings.
 - 5. Total Panel Thickness: Nominal 1/2 inches (12 mm).
 - 6. Edges: Square.
 - 7. Mounting: Direct adhesive.
 - 8. Color: Slate

2.04 FABRICATION

A. Tolerances: Fabricate to finished tolerance of plus or minus 1/16 inch for thickness, overall length and width, and squareness from corner to corner.

2.05 ACCESSORIES

- A. Back-Mounting Accessories: Manufacturer's standard accessories for concealed support, designed to allow panel removal, and as follows:
- B. Fixing Clips: Manufacturers standard for application as indicated.
- C. Furring Strips: As indicated on drawings.
- D. Panel Adhesive: Acceptable to acoustical panel manufacturer for application as indicated.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates for conditions detrimental to installation of acoustical units. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install acoustical units in locations as indicated, following manufacturer's installation instructions.
- B. Install mounting accessories and supports in accordance with shop drawings.
- C. Align panels accurately, with edges plumb and top edges level. Scribe to fit accurately at adjoining work and penetrations.
- D. Attach ceiling baffles at locations and heights as indicated.
- E. Furring-Mounted Cementitious Wood Fiber Panels:

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- 1. Install furring strip along meeting edges of adjacent panels to ensure they are attached to same furring strip along abutted edge; 24 inches on center, maximum.
- 2. Install acoustic insulation between furring as indicated on drawings.
- 3. Adhere first panel from edge to furring strip; attach subsequent panels using fasteners.
- F. Install acoustical units to construction tolerances of plus or minus 1/16 inch for the following:
 1. Plumb and level.
 - 2. Flatness.

3.03 CLEANING

A. Clean sound-absorptive panels upon completion of installation from dust and other foreign materials, following manufacturer's instructions.

3.04 PROTECTION

- A. Provide protection of installed acoustical panels until Date of Substantial Completion.
- B. Replace panels that cannot be cleaned and repaired to satisfaction of the Design Professional.

END OF SECTION

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SECTION 27 0500 COMMON WORK RESULTS FOR COMMUNICATIONS

PART 1 GENERAL

1.01 SUMMARY

A. This section includes general requirements for the installation of a <u>conduit and pathway system</u> <u>to support the owner furnished, owner installed</u> complete and functional telecommunications structured cabling system. The SCS (structured cabling system) shall conform to current industry standards as referenced within this document and within the other Division 27 specifications.

1.02 STANDARDS AND CODES

- A. The following codes and standards, at a minimum, shall be overserved for telecommunications infrastructure:
 - 1. National Fire Protection Association (NFPA) NFPA 70: National Electrical Code (NEC)
 - 2. National Fire Protection Association (NFPA) NFPA 101: Life Safety Code
 - 3. ANSI/TIA 568-C.0: Generic Telecommunications Cabling for Customer Premises
 - 4. ANSI/TIA 568-C.1: Commercial Building Telecommunications Cabling Standard
 - 5. ANSI/TIA 568-C.2: Balanced Twisted-Pair Telecommunications Cabling and Component Standard
 - 6. ANSI/TIA 568-C.3: Optical Fiber Cabling Standard
 - 7. ANSI/TIA 569-B: Commercial Building Standard for Telecommunication Pathways and Spaces
 - 8. ANSI/TIA 607-B: Commercial Grounding (Earthing) and Bonding for Customer Premises
 - 9. BICSI: BICSI Telecommunications Distribution Methods Manual (TDMM)
- B. In instances where discrepancies existing between building codes, industry standards and local ordinances, the contractor shall adhere to the most stringent.

1.03 DEFINITIONS

- A. EMI Electromagnetic Interference
- B. EMT Electrical Metallic Tubing
- C. ER Equipment Room
- D. IDF Intermediate Distribution Facility
- E. MDF Main Distribution Facility
- F. Pathway Conduit, wall rack, cable runway, sleeves, or j-hooks.
- G. Pullbox Metallic box with removable cover used for a pulling point of cabling runs longer than 100' or with more than (2) 90° bends
- H. Raceway Enclosed channel for routing wire or cable
- I. RFI Radio Frequency Interference
- J. RMC Rigid Metal Conduit
- K. SCS Structured Cabling System
- L. TBB Telecommunications Bonding Backbone
- M. TGB Telecommunications Grounding Busbar
- N. TMGB Telecommunications Main Grounding Busbar
- O. TR Telecommunications Room
- P. UTP Unshielded Twisted Pair cable.

1.04 SUBMITTALS

A. Product Data:

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- Submit product cut sheets for each type of product provided within the division 27 1. specifications and the contract drawings.
- Β. Shop Drawings:
 - 1. Site Plan: Indicate final routing and placement of OSP conduit runs from the utility demarcation point to the MDF.
 - Floor Plans: Indicate final outlet and device locations and major pathway routing. 2.
 - Device Identification: Identify labeling for each device as required by the specifications. 3.
 - Pathway Riser diagrams: Provide final condition of all major building pathways including 4. cable tray, ladder rack and conduit runs greater than 1-1/2". Provide pathway location, size, originating point and destination.
 - -System Riser Diagrams: Provide final condition of all cabling for system devices and components. Include all interconnectivity between system components throughout the buildina.
- Proposed Network-Telecom Station Cable Record for approval, which shall contain the following information: 1-Cable ID: 2-Faceplate ID: 3-Work Area, Room, Location and Cable Number; 4-Outlet Configuration Type from Table-03 in this Section-27 10 00; 5-Closet Position.

1.05 QUALITY ASSURANCE

- A. Contractor Qualifications:
 - 1. Contractor shall be trained and certified by the Manufacturer to install, test and maintain the structured cabling system and be certified by the manufacturer to offer the full structured cabling system warranty.
 - 2. Contractor shall have been in business for a minimum of 5 years and successfully engaged in the routine installation of structured cabling systems or similar size and complexity.

a. Contractor shall possess current liability insurance certificates.

- B. Warranty:
 - SYSTIMAX® SCS Certificate of Warranty for the 20-year product warrantee on all horizontal, station cables, jacks and associated parts.
 - CORNING LANscape® Certificate of Warranty for the 25-year product warrantee on all 2 Fiber Optic cables, terminations and associated parts.
 - 3. All installed products shall carry the manufacturer's full warranty.
 - The Communications (Network-Telecom) Distribution System shall be installed, tested, 4. demonstrated, and placed in service and then maintained under an in-place (installation workmanship) warranty for a period of 1-year from the date of acceptance. During the 1year warranty period, the system vendor shall maintain trouble reporting, diagnostic services, and perform repairs.

1.06 COORDINATION

- A. The telecommunications contractor shall coordinate all work with mechanical, plumbing, structural, electrical and other disciplines throughout all stages of construction.
- B. When conduit for outlet boxes is required, contractor shall coordinate the installation with other trades.
- When cable tray is required, contractor shall coordinate the installation with other trades to C. ensure that a minimum of 8" clear space is provided above the cable tray for safe working clearance.

1.07 PRODUCT SUBMITTALS

- A. Furnish the Owner a complete set of printed system documentation which includes "as built" drawings that show station location and labeling information, all pathways and Communication Rooms or cross connect locations, all Fiber Optic and all Copper cable testing records, product and equipment brochures and manuals.
- In addition to the printed documentation, the Contractor shall supply drawings in digital format, B. accessible by the owner. "Communications Pathway-and Cables" shall be on their own layer.

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- C. All cable and fiber test records shall be provided in a digital format accessible by the owner.
- D. The printed documentation shall be furnished in three ring loose leaf volumes.

E. Performance data on complete system.

F. Warrantees.

- G. Record drawings ("as built"):
 - 1. Record drawings shall be provided to the Owner.
 - 2. These drawings shall show the locations of all cabinets, racks, cable, splice closures, cross-connects, cable routes, and outlets.
 - 3. The record drawings prepared after installation shall indicate:
 - a. Routing for all intra-building pathway and media.
 - b. Backboard layout detail for each Entrance and Distribution Facility including entrance penetration detail.
 - c. Locations of power panels and un-interruptible power sources.
 - d. Locations for protected, bonded, and grounded terminals.
 - e. Cross-connection hardware locations by floor and room.
 - f. Cross-connection hardware identification.
 - g. Pair counts information at each Entrance and Distribution Facility.
 - h. Location of all support hardware, installed equipment, and hardware.
 - i. Routing, pair count, and cable make-up information for backbone cables.
 - j. Location and quantity of slack cable and/or service loops.
 - k. Associated building structures and equipment.
- H. Pathway Assignment and Test Records:
 - 1. Contractor shall provide complete pair assignment records for the horizontal and backbone facilities.
 - 2. The assignment records shall indicate the fill ratio of each pathway.
 - 3. Splice closure records shall contain splice identifier, type, manufacturer, installation date, and last access date.

1.08 SCOPE OF WORK

- A. Provide a complete <u>conduit and pathway infrastructure for the owner furnished</u>, <u>owner installed</u> voice/data network distribution cable system throughout the facility as indicated on construction drawings.
- B. The system shall include the following items as required to form a complete and operable system:
 - 1. Construction of all Communications Rooms (CR) and environmental support of these spaces, Standards for these rooms are included in Section-13 21 00.
 - 2. Network Information Outlet (NIO) devices (Network/Telephone).
 - 3. Station cabling between the Communications Rooms and other designated equipment locations and the outlets shall be terminated on patch panels in the equipment room.
 - 4. Patch panels, patch cords, cabinets, equipment racks, etc., required to support, terminate, and/or cross-connect cabling at the Communications Intermediate Distribution Facility (IDF) rooms and/or other designated equipment locations.
 - 5. Cable management hardware including, but not limited to, ladder-type cable racks within Communications Rooms, jumper troughs, retainer clips, "D-rings", and/or other appropriate cable management hardware on backboards and in equipment racks.
 - 6. Labeling of all cables and hardware shall be provided.
 - 7. Documentation showing performance testing, as-built drawing that show cable pathway and station placement, labeling information, power and ground sources, product brochures.
- C. The Contractor shall show satisfactory evidence that he maintains and/or retains a service organization capable of installing the CDS and capable of furnishing adequate inspections and service to the materials being installed.

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1.09 REQUIREMENTS

- A. Communications Contractor shall submit a list of similar CDSs previously installed under supervision of the person who will oversee the telephone and data distribution system work. Projects shall have been operating for at least one year, but not more than three years. Provide name of persons to contact for each project and phone number for verification.
- B. Communications Contractor shall provide a complete, functional, and tested telephone and data Communications Distribution System, which includes all vertical and horizontal distribution components.
- C. During the installation activities, the Communications Contractor shall always provide one SYSTIMAX® SCS Certified Senior Technician/Supervisor on the jobsite.
- D. Contractor employees installing the SYSTIMAX® SCS shall be certified by SYSTIMAX® SCS for product installation.
- E. All copper station cable and supportive termination devices shall carry the full 20 Year SYSTIMAX® SCS product and performance warranty and shall be installed to be warrantable by the manufacturer.
- F. All Fiber Optic Cable shall be manufactured by the Corning Company, installed by a Corning Certified Technician. A CORNING Fiber Optic Cable System 25 Year Warranty shall be provided.
- G. Contractor employees installing the CORNING Fiber Optic Cable System shall be certified by CORNING for product installation. There shall always be one CORNING Fiber Optic Cable System Certified Senior Technician/Supervisor on the jobsite, when the installation is being done.
- H. All other non-CORNING LANscape® and non-SYSTIMAX® SCS products shall carry a 5-year performance and installation warranty.
- I. Contractor shall provide and display on site all required installation and inspection permits.
- J. Contractor shall be licensed and bonded in the State of Washington.
- K. Special notes to Contractors:
 - 1. All drawings are diagrammatic; therefore, device and pathway placement is only representative of a general location. Do not scale from the drawings in order to place a device or pathway, since the drawing location may not represent the actual location. It is the responsibility of the Contractor to place these devices and pathway such that they offer full functionality without hindrance from casework, furniture, windows and doors, HVAC, and other building systems.
 - 2. It is the Contractor's responsibility to obtain and use the proper room and space numbers or names. If the Contractor receives from the Owner any shop drawings or "as built" construction prints that do not contain proper room or space numbers, the Contractor shall obtain the correct numbers. The Contractor shall provide correct numbers on all drawings and related records it provides to the Owner.
 - 3. Damage to equipment, service outages, and schedule delays caused by the contractor are both the financial and restorative responsibility of the Contractor.
 - 4. The Owner will not accept any cable plant or pathway installation until it passes a physical and performance inspection. All cable not installed to manufacturer specifications will be rejected regardless of electrical and performance testing. The Owner may spot test contractor installed cable.
 - 5. The Contractor is responsible for removing all construction debris and unused cable, boxes, and shipping containers. The work areas are to be swept clean and wet mopped prior to floor sealants or tile work.
 - 6. The Contractor shall remove all unused and obsolete cables in trays and conduits and shall turn scrap cable over to the Owner.

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- 7. Only water-based, propylene glycol or clay-based lubricants are acceptable as cable lubricants. Ideal brand Yellow 77 or similar soap-based cable lubricants are not acceptable and are not to be used for fiber or copper cable installations.
- 8. All conduits that are installed underground for Fiber Optic Cable shall be equipped with a 10 AWG Green Jacketed CU trace cable in all locations that are not located in a Utilidor, Tunnel, or Cable Tray System.

PART 2 PRODUCTS

2.01 GENERAL

- A. Division 27 products shall comply with all requirements of Division 26.
- B. Products and materials shall be provided as specified within the Division 27 specifications. Products proposed to be substituted are not acceptable unless the specifications state "or equal", "or approved equal", "or pre-approved equal."
- C. Cabling system components shall be manufactured by the manufacturers listed in Division 27. Cabling system components shall not be intermixed between different manufacturers unless the manufacturer has listed another manufacturer's component as an approved product that maintains the original manufacturer's system warranty.
- D. Contractor shall physically verify existing site conditions prior to the purchase and delivery of materials.
- E. Contractor shall turn over any unused material or products specifically purchased for this project to the owner upon completion of the project.

2.02 TOUCH-UP PAINT

- A. Equipment Not Exposed to Harsh Environment: Equipment manufacturer's paint.
- B. Equipment Enclosures Not Exposed to Harsh Environment: Manufacturer's standard finish for indoor installations in non-harsh environments.
- C. Galvanized Surfaces: Zinc-rich paint recommended by item manufacturer.

2.03 FIRESTOPPING

- A. Comply with requirements of Division 07 Section 078413 Penetration Firestopping
- B. Comply with BICSI TDMM Chapter 7 Fire Stop Systems
- C. Comply with ANSI/TIA 569A Firestopping
- D. Provide EZ Path single compartment model EZD 44T with EZP144WT plates for penetrations through fire rated walls.
- E. Provide EZ Path single compartment model EZD 44 with EZG144T plates for penetrations through floors.
- F. Pathway wall sleeves passing into a wiring closet shall be EZ Path four compartment model EZD 44T with EZP544WT plates.
- G. Pathway floor sleeves shall be EZ Path model EZD 44. EZ Path compartments and wall plates shall be sized such that the device shall represent 200% cable fill capacity of the pathway it is extending.
- H. Multiple floor sleeves shall be placed no more than 2 inches from the wall and be grouped in one row.

2.04 GROUNDING AND BONDING

A. Provide grounding as specified under Division 27 Section 270526 — "Grounding and Bonding for Communications Systems Telecommunications."

PART 3 EXECUTION

3.01 GENERAL

- A. The contractor shall review all floor plans, details and elevations and coordinate with the architect, mechanical and electrical contractor prior to installation.
- B. All components of the structured cabling system shall be installed per the manufacturer's written instructions and shop drawings.
- C. Provide all equipment, components and materials required to complete a full and functioning structured cabling system, including equipment, components or materials not covered within the Division 27 specifications but which are required to complete a functional system.
- D. Equipment Clearances:
 - 1. Contractor shall verify that planned equipment will fit within the locations and spaces indicated within the final drawing set.
- E. Mounting heights indicated within the drawing set are to be measured to the bottom for suspended items and to the center for wall mounted items.

F.

3.02 INSTALLATION

- A. Install Category cables in a continuous length from patch panel to outlet location. No field splicing is allowed.
- B. Sleeves shall be installed at each cable penetration through walls, floors and ceilings. Sleeves shall be minimum 3/4" with insulated inserts. Sleeves shall be installed regardless of wall type construction, fire rated or non-fire rated.
- C. All cables must be terminated using a compression connection tool. All cables shall be installed using EIA/TIA 568, 569, 570, BICSI and standards as follows: Wire pair twists must be maintained to within ½" of IDC contacts on each jack, jacketing must be undamaged for the full length of the cable run and must continue to within ½" of IDC contacts on each jack, each end of each cable must be secured to the jack module with a velcro cable tie. Any cables damaged during pulling shall be the responsibility of the pulling party/parties (electrical contractor or LAN installer). Any failing or marginal tests (see above) shall be re-terminated, rerouted, re-tested, etc., until no other alternatives exist, at which time it will be assumed that a bad cable run (too much twisting of the cable, compression of jacketing and wire pairs, etc.) has resulted (at the discretion of the LAN Tester) and the pulling party/parties will have to bear the responsibility of re-pulling new cable to replace it.
- D. Provide raceway system as indicated. Open wiring is permitted within the tunnels and above accessible ceilings provided plenum rated cables are neatly arranged and supported with J-hooks every 4 feet and in accordance with industry standards. Routing of cables in tunnels shall occur along sides of tunnels stay away from center.

3.03 FIRESTOPPING

A. Provide fire stopping for telecommunications penetrations at all fire rated walls per this specification, ANSI/TIA 569A and BICSI TDMM. Maintain fire rating of penetrated fire barriers. Fire stop and seal penetrations made during construction.

3.04 GROUNDING AND BONDING

A. Provide grounding as specified under Division 27 Section 270526 — "Grounding and Bonding for Telecommunications."

3.05 IDENTIFICATION AND LABELING

3.06 TESTING

A. Cable Test

1. Perform cable tests in accordance with Cable Test set manufacturer's written instructions. All cables must pass at 100 Mhz.

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- 2. Connect the NEXT test set to the cable to be tested at the centralized network location.
- 3. Correct malfunctions when detected and proceed with testing. Record test results on a standard UTP Category 6 Cable Test Results form. Contractor must guarantee the cabling meets EIA/TIA 568B 568-C performance specifications.

END OF SECTION

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SECTION 27 1100 COMMUNICATIONS EQUIPMENT ROOM FITTINGS

PART 1 GENERAL

1.01 SUMMARY

A. Provide all materials and labor for the installation of telecommunications room equipment defined within this specification section. Equipment defined in this specification is for the support of the <u>owner furnished</u>, <u>owner installed</u> structured cabling system (SCS).

PART 2 PRODUCTS

2.01 CABLE SUPPORTS

- A. Backboards:
 - ³/₄ inch A-C grade, fire-retardant plywood backboards, void free, 8 feet high, mounted at +6" above finished floor, unless otherwise noted. Provide a minimum of 2 coats light colored fire retardant paint.
- B. D-Rings:
 - 1. Metallic (CPI or equal):
 - a. Size: 2" minimum.
 - b. Corrosion-resistant and fire-resistant.
- C. Ladder Rack:
 - 1. Ladder racks shall have maximum load with minimal deflection of 45 lbs/ft when supported every 5 feet.
 - 2. Ladder rack shall be manufactured by CPI or approved equal.
 - 3. Field constructed accessories such as transitions, splices, bends are prohibited.
 - 4. Provide manufactured junction splices to join pieces of ladder rack.
 - 5. Ladder rack and accessories shall be black in color.

2.02 EQUIPMENT RACKS/ENCLOSURES

- A. Free Standing Equipment Racks
 - 1. Racks shall be manufactured by CPI or approved equal.
 - 2. Size: 7 foot high x 19 inch wide.
 - 3. Racks shall be steel racks with universal alternating hole pattern.
 - 4. Racks shall have self supporting bases.
 - 5. Racks shall be black in color.
 - 6. Racks shall have vertical cable management on both sides
 - a. Cable management shall be a minimum of 7" wide.

2.03 GROUNDING AND BONDING

A. As specified under Division 27 Section – "Grounding and Bonding for Communications Systems."

2.04 LABELING AND ADMINISTRATION

A. Provide labeling per University of Idaho standards.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Backboards
 - 1. Provide backboards as shown on Contract Documents.
 - 2. Mount A-C plywood backboards with the "A" side exposed.
 - 3. Paint backboards with a minimum of two coats (over primer) of fire retardant paint.
 - 4. Mask the fire-treatment stamp on each sheet of plywood so that the stamp remains visible after painting.
 - B. D-Rings.

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- 1. Provide D-Rings as necessary to route exposed cables in telecommunications rooms and on backboards.
- 2. In telecommunications rooms, mount D-Rings at 12 inch intervals.
- 3. Size D-Rings as required to support the structured cabling system. D-Rings shall be a minimum of 2".
- 4. D-Rings are not permitted outside of telecommunications rooms.
- C. Ladder Rack.
 - 1. Provide ladder racking, sized and in locations as shown on the drawing set.
 - 2. Attach ladder racking to the top of equipment racks to serve as bracing.
 - 3. Ladder rack shall be cut square, unless noted otherwise on the drawings. Cap ends with manufacturer recommended caps.
 - 4. Provide telecommunications bonding jumpers across ladder racking as shown on the drawings set.
 - 5. Where ladder rack is shown vertically mounted on telecommunications room walls, provide wall- mount brackets. Vertical ladder rack shall be routed from within 6-inches above the riser pathway in the floor up to within 6-inches of the riser pathway in the ceiling. Cap cut ends of ladder rails with end caps.
- D. EQUIPMENT RACKS/ENCLOSURES
 - 1. Provide EIA racks and all associated hardware according to locations shown in the drawing set
 - 2. Free-standing Equipment Racks:
 - a. Bolt racks to structurally suitable flooring.
 - b. Attach top of rack to overhead ladder racking per manufacturer's recommendations. Use ladder rack elevation kits to span the gap between the top of the racks and the overhead ladder rack.

3.02 GROUNDING AND BONDING

- A. Provide grounding and bonding specified under Division 27 Section "Grounding and Bonding for Communications Systems."
 - 1. Provide a minimum of one wall-mountable telecommunications ground bus bar per telecommunications room and as shown on the Contract Documents.

END OF SECTION

SECTION 27 1300 COMMUNICATIONS BACKBONE CABLING

PART 1 GENERAL

1.01 SUMMARY

A. The work covered in this section consists of <u>All</u> outside plant fiber optic cabling, outside plant fiber optic terminations, fiber optic patch panels, riser copper terminations, riser fiber optic cable, riser fiber optic cable terminations and riser copper cabling <u>shall be owner furnished</u>, <u>owner installed</u>.

1.02 SYSTEM DESCRIPTION

- A. Provide and install all backbone fiber optic and copper cabling and components as indicated within the drawing set and these specifications. Components required but not specifically identified shall be provided to ensure a complete and functioning system.
- B. All work shall be completed in accordance with ANSI/EIA/TIA and BICSI standards.

PART 2 PRODUCTS

2.01 GENERAL

- A. Pathways shall be provided in accordance with specification sections 260530 "Conduit", 270529 "Hangers and Supports for Communications Systems", 270533 "Conduits and Backboxes for Communications Systems", and 270536 "Cable Tray for Communications Circuits."
- B. Telecommunications cabling system components such as cable, jack, termination blocks, and patch panels shall be of one manufacturer or product line.

2.02 FIBER OPTIC TERMINATIONS

- A. The Contractor shall Provide and Install Fiber Optic Cable Termination enclosures and Closet Management Panels for this building. The enclosures shall be berk-Tek/Leviton, 5R1UM-S03, rack-mounted distribution panel and shall use the following connectors:
 - 1. LC Bulkhead Connectors for single-mode fiber strands, part number " 5F100-2LL", a Fiber Optic Adapter Panel with 12 Port LC Bulkhead adapters, single-mode, ceramic insert, composite housing.

2.03 INNERDUCT

- A. Innerduct shall be 1¹/₄" size, plenum-rated and white-colored.
 - 1. Carlon
 - 2. Dura-line
 - 3. or approved equal.

2.04 FIBER OPTIC RISER CABLING

A. Riser Fiber Optic Cables:

1. The Contractor shall Provide, Install, Terminate and Test (Volume) each Fiber Optic Riser Cables, Berk-Tek/Leviton, indoor/outdoor- rated, OFNR cable, 12SM Fiber Optic Riser Cable.

2.05 LABELING AND ADMINISTRATION

A. Provide labeling per University of Idaho standards.

PART 3 EXECUTION

3.01 FIBER TERMINATION

- A. Fiber Optic Cable termination enclosures shall be placed at the top of the electronics rack, below the Upper Jumper Tray.
- B. Rack-mounted Un-interruptible Power Systems (UPS) shall be mounted at the bottom of the rack that will house the network equipment and other electronics.

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3.02 INNERDUCT

A. Provide innerduct in OSP conduit 4" or larger only. Do not provide innerduct in riser conduit unless specifically indicated in the drawing set.

3.03 RISER FIBER OPTIC CABLES

A. All Fiber Optic Cable shall have the Berk-Tek/Leviton 20 Year Warranty.

B. Each fiber cable label shall contain the fiber's source and destination.

END OF SECTION

SECTION 27 1500 COMMUNICATIONS HORIZONTAL CABLING

PART 1 GENERAL

1.01 SUMMARY

A. The work covered in this section consists of <u>All</u> horizontal copper cabling, terminations and patch panels <u>are to be owner furnished</u>, <u>owner installed</u>.

1.02 SYSTEM DESCRIPTION

- A. Provide and install all horizontal copper cabling and components as indicated within the drawing set and these specifications. Components required but not specifically identified shall be provided to ensure a complete and functioning system.
- B. All work shall be completed in accordance with ANSI/EIA/TIA and BICSI standards.

PART 2 PRODUCTS

2.01 GENERAL

- A. Pathways shall be provided in accordance with specification sections 260530 "Conduit", 270529 "Hangers and Supports for Communications Systems", 270533 "Conduits and Backboxes for Communications Systems", and 270536 "Cable Tray for Communications Circuits."s
- B. Telecommunications cabling system components such as cable, jack, and patch panels shall be of one manufacturer or product line.
- C. All copper cabling and components shall be manufactured by Berk-Tek/Leviton unless specifically noted otherwise.

2.02 WIRE MANAGEMENT

A. Patch Panel Horizontal patch cord/wire management is required on the top and on the bottom of the "Patch Panel" stack.

2.03 HORIZONTAL COPPER STATION CABLE

- A. All Category 6 Station Cables shall be terminated on the Berk-Tek/Leviton 48-port patch panels and shall be White Color Jacketed and Plenum Rated.
- B. Horizontal Cat 6 station cabling shall be plenum rated, white-colored, Berk-Tek/Leviton 10136265 or 10136230.
- C. Cat 6 terminations shall be black or ivory model Berk-Tek/Leviton 61110-RB6 or 6110G-RE6.

2.04 PATCH PANELS

A. Berk-Tek/Leviton rack-mounted patch panel model 49255-H48.

2.05 FACEPLATES

A. Faceplates shall be 2 or 4-port, Ivory-colored, with identification windows, Berk-Tek/Leviton model 42080-2IS or 42080-4IS.Provide blank inserts in unused ports model Berk-Tek/Leviton 41084-BI.

2.06 LABELING AND ADMINISTRATION

A. Provide labeling per University of Idaho standards.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install cabling and connectors per the applicable industry standards and in accordance with the manufacturers recommendations so as not to void the system warranty.
- B. Install cables without damaging conductors, shield, or jacket.

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- C. Do not bend cables, in handling or in installing, to smaller radius than minimums recommended by manufacturer's installation recommendation.
- D. Service loop: Provide 12" service loop in workstation outlet box or at nearest cable tray location.
- E. Cable Pulling: Pull cables without exceeding cable manufacturer's recommended pulling tensions. Pull cables simultaneously if more than one is being installed in same raceway.
 - Use pulling compound or lubricant if necessary. Use compounds that will not damage conductor or insulation. Lubricant shall be viscous gel or colorless liquid with no odor. Use lubricants, which deter rodents and insects.
 - 2. Use pulling means, including fish tape, cable, rope, and basket weave wire or cable grips, that will not damage media or raceway.
 - 3. Cable that has been damaged (tears in cable sheath) during installation shall be removed from pathways. Replace damaged cable with new cable within same raceway.
- F. Install exposed cables parallel and perpendicular to surfaces or exposed structural members and follow surface contours where possible.
- G. Secure and support cables at intervals not exceeding 30" and not more than 6" from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
- H. Wiring within Telecommunications Rooms and Enclosures: Provide conductors of adequate length. Train conductors to terminal points with no excess. Use lacing bars to restrain cables, to prevent straining connections, and to prevent bending cables to smaller radius than minimums recommended by manufacturer.
- I. Field splicing of cabling is not permitted.

3.02 TESTING

- A. The tests listed herein, shall be completed prior to placing the equipment in operation. Certification shall be submitted after completion of the tests that the equipment is ready for use. Records of all tests, including expected test results, actual test results, and corrective actions taken, shall be submitted by the Contractor in accordance with the requirements of Section 26 01-01.
- B. The Structured Cable System Installer shall test each pair of each section of cable after installation and termination, using an appropriate Level 2 testing instrument. Tests to be performed shall include, but not be limited to, the following:
 - 1. Presence of AC and/or DC voltage.
 - 2. Termination sequence
 - 3. Polarity check.
 - 4. Cable continuity.
 - 5. DC insulation resistance.
 - 6. Near-end crosstalk (NEXT).
 - 7. Attenuation.
 - 8. Impedance.
 - 9. Installed length.
 - 10. 250 MHz sweep test.
- C. Corrective action, including replacement of defective cable if necessary, shall be undertaken by the Contractor as required to correct non-compliant test results, at no additional expense to the Owner. Once the non-compliant condition is corrected, the affected cable shall be retested to demonstrate compliance, at no additional expense to the Owner.
- D. Documentation of cable test results shall be maintained during testing. At the completion of testing, copies of test results shall be placed in a 3-post binder and included with the record documents. The table shall include:
 - 1. Listing of the measured values for each cable pair.
 - Indication of whether test results comply with EIA/TIA 568B Category 6 requirements or EIA/TIA 568-C.2 Category 6A requirements.

BLD 093 – WWAMI Medical Education Building Health Education Annex Addition Construction Documents June 28, 2024 (Addendum 01 10/11/24) MW I UI PN CP240022 Flad Project No. 18050-05 Communications Horizontal Cabling Section 27 1500 - 2 3. Identification of any defective pairs and/or failed test results.

E. Cables not in compliance with test criteria shall be referred to the Project Manager for corrective action. Corrective action, including replacement of cable, shall be undertaken by the Contractor and the affected cable retested at no additional expense to the Owner.

END OF SECTION

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