

ADDENDUM NO. 2

The additions, omissions, clarifications, and corrections contained herein shall be made to drawings and specifications for the project and shall be included in scope of work and proposals to be submitted. References made below to specifications and drawings shall be used as a general guide only. Bidder shall determine the work affected by Addendum items.

General:

1.	Pre-bid walk	See attached meeting notes and attendance sheet from the Pre-Bid walk held 4/14/21.
2.	Fan Coil Warranty	The owner is responsible for the equipment warranty as it relates to the fan coil units. The contractor is responsible for the labor warranty as it relates to the fan coil units.
3.	Fan Coil Units	The fan coil units are owner supplied and contractor installed.
4.	Asbestos in Tunnel	The utility tunnel contains asbestos. For any work required in the tunnel, refer to Volume 3 of the project specifications.
5.	Raceway & Rough-in Provisions for Intercommunications & Clock System.	The intent of the design is that all intercommunication and clock devices that are installed into new walls in the remodel area are to be recessed and flush with the finished wall. Recessed back boxes are to be used for devices installed in the remodel areas. All new speakers installed in portions of the building that are existing to remain may utilize surface mounted back boxes and surface raceway routed into the existing cable tray system or adjacent accessible ceiling space.
6.	Category 6 Cabling for Telecommunications and Low Voltage systems.	All Cat-6 cabling installed as part of the project, for telecommunications and other low voltage systems, is to be provided by a Leviton Certified Contractor, per the requirements of Specification Section 27 10 00. Refer to additional specification items related to Sections 27 10 00 and 27 51 23 for more information.

In the Specification:

1.	00 00 02 Instructions to Bidders	1.12 D: REVISE to read: "DATE OF SUBSTANTIAL COMPLETION. The first phase of work as shown in the documents shall be Substantially Completed to the Owner's satisfaction on or before August 27, 2021. The second phase of work as shown in the documents shall be Substantially Completed to the Owner's satisfaction on or before October 15, 2021." 1.12E REVISE "Section 01010" to be "Section 01 11 00"
2.	00 00 03 Bid Form – Parts 1 & 2	REPLACE Bid Form with attached.
3.	00 00 03.1 Contractor Qualification Statement Form	ADD attached Contractor Qualification Statement Form, attached.
4.	02 83 00 Lead Survey and Work Plan	ADD Section 02 83 00, Lead Survey and Work Plan, attached.

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5.	10 11 00 Visual Display Boards	ADD 2.2A.c Size: Varies. See Drawings REVISE 2.4A.1 to read: Length: Varies. See Drawings. Largest single panel 16'-0" wide. DELETE 2.4A.2 and 2.4A.2a-f.
6.	02 82 00 (Vol. III) Abatement and Safety Requirements	1.01 REVISE first sentence to read "This section covers the special handling requirements for demolition of floor finishes and window putty containing asbestos, as well as removal of contaminated soil in crawl space as needed for stair construction."
7.	23 09 93 Sequence of Operation	The fan coil units installed under Phase 1 shall introduce ventilation air through the existing outside air intake louvers until such time as the Dedicated Outside Air Unit (DOAS) is functional under Phase 2. At that time, ventilation air shall be introduced through the DOAS unit.
8.	23 09 93 Sequence of Operation	Fan Coil Units: Modulate heating and chilled water valves as required to maintain room setpoint when in heating or cooling mode.
9.	23 09 93 Sequence of Operation	Energy Recovery Ventilator (DOAS-1): Modulate heating and chilled water valves as required to maintain supply air discharge temperature.
10.	26 27 26 Wiring Devices – Device Color – Wall Plate	REVISE finish for 2.6 (A) (2) device wall plates as follows: Wall Plates shall be Type 302 Stainless-Steel. If a stainless-steel plate is not available for a specific device, the wall plate shall match the color of the device. For reference: Per 2.6 (A) (1), All Electrical Devices shall be White, unless otherwise indicated or required by NFPA 70 or device listing.
11.	27 10 00 Structured Cabling – Summary	ADD Paragraph for Part 1.1 (A) (3) as follows: <i>"All category cabling installed on the project for other low voltage systems, including the Intercommunications And Program System defined in Section 27 51 23, shall be installed by a Full Leviton Certified Contractor (PNI), and cabling for those systems shall be included under the Limited Lifetime Leviton System Warranty."</i>
12.	27 51 23 Intercommunications and Program System – Related Documents	ADD Paragraph for Part 1.1 (C) as follows: <i>"All category 6 structured cabling installed in support of the Intercommunications and Program System described in this Section shall meet all the requirements of Specification Section 27 10 00 – Structured Cabling, including the requirement for the cabling system to be installed by a Full Leviton Certified Contractor, and is to be included under the Limited Lifetime Leviton System Warranty."</i>
13.	27 51 23 Intercommunications and Program System – General Description	DELETE the first sentence in the paragraph 1.2 (A) that reads, <i>"The base bid shall include no intercommunications and program system."</i>

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14.	27 51 23 Intercommunications and Program System – Intercom Equipment	<p>REVISE 2.5 (U) (5) Specifications for Classroom Configuration Material list for items indicated below:</p> <ol style="list-style-type: none"> 1. Remodeled Classrooms: Speaker Assembly Rauland ACC1207; Flush Back Box: Rauland ACC1100; Speaker US0188, and include transformer. 2. Existing to Remain Classrooms: Speaker Assembly ACC1207; Surface Backbox: Rauland ACC1113, Speaker USO188, and include transformer. 3. Speaker Baffle (Surface): ACC1003 4. Classroom IP Module: TCC2011A. 5. Dual Push Call Button: Rauland 603302. <p>NOTE: From the list in the paragraph indicated in the Specification, DELETE "Small Message Board: TCC3011S". The classrooms will contain either a surface or recessed mounted speaker assembly, classroom module, and call switch, as described above.</p>
15.	27 51 23 Intercommunications and Program System – Intercom Equipment	<p>DELETE 2.5 (D) <i>"Contractor to Provide a Rauland Atomic Master clock to connect to the existing clocks that were originally connected to the TC2100. All new clocks are to be connected to a Rauland Wireless WCXREPEAT."</i></p> <p>CLARIFICATION: All existing clocks in existing portion of the building are to be replaced with new. All clocks shown in remodeled areas are new. All clocks are IP based and powered over ethernet. Time signal to be derived from District Local Area Network. Provide programming and startup as required to commission new clocks. No existing clocks are to be re-used.</p>
16.	28 00 00 Integrated Security Systems – Cable	<p>CLARIFICATION 2.02 (A): Contractor is to verify final catalog numbers and ordering information for Access Control Device CFCI cables with Spokane Public Schools project manager and the District's designated Integrated Security Vendor prior to ordering. Catalog numbers listed in specification are subject to change.</p>

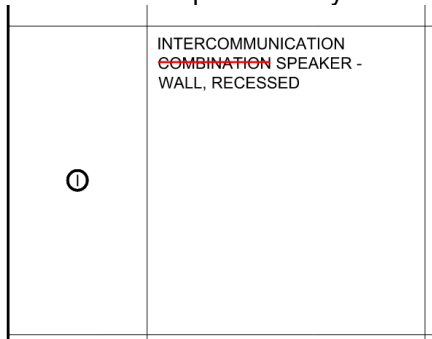
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17.	28 00 00 Integrated Security Systems – Cable	<p>REVISION 2.02 (A): Revise part numbers for CFCI security cabling indicated in table as follows:</p> <ol style="list-style-type: none"> 1. Door Position Switch: Windy City #4443430 2. Electric Strike: Windy City #0023430 3. Request-to-Exit Pushbutton: Windy City #4443430 4. Request-to-Exit Motion Detector: Windy City #4443430 5. Proximity Card Reader: Windy City #444351-30 6. Proximity Arming Reader: Windy City #444351-30 7. Addressable POPIT: Windy City #0023430 8. Door or Window Position Switch: Windy City #0023430 9. Glass Break Detector: Windy City #0023430 10. Removable Center Mullion: Windy City #0023430 11. Arm/Disarm Keypad: Windy City #4443430 12. Blue Strobe/Security Siren: Windy City #0023430 13. Temperature Monitoring Sensor: Windy City #0023430 14. Overhead Door Contact: Windy City #0023430 15. Sounder (Piezo): Windy City #4423230 16. Sargent Electric Latch Retraction Device 'Lock': Windy City #0023430 17. McKinney Electric Hinge: Windy City #0023430 18. Lock Down Pull Station to Galaxy Head End Equipment: Windy City #0023430 19. PTZ Camera Indoor or Outdoor: Windy City #714410VNQ, CAT 5E per Requirements of Specification 16756 20. Interior Fixed IP PoE Camera: CAT 5E Per Requirements of Specification 16756 21. PoE Midspan Power Injector: Leviton 22. Exterior Fixed IP Camera: Windy City #714410VNQ, CAT 5E per Requirements of Specification 16756 23. Video Monitor: White Cable Jacket <p>Fire Alarm reporting for Alarm, Trouble, Supervisory: Windy City #4423230</p>
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In the Drawings:

1.	AD-101 and AD-102	REVISE second sentence of General Note 2 to read "See Volume 3 of the Specifications for procedures and locations."
2.	S-110	ADD note to "LOCATE FTG AND STEMWALL PER STL STAIR REQUIREMENTS" at steel stairs at Alternate #1 area per attached SC-01.
3.	S-120	ADD note "OPNGS PER MECH" at mechanical unit roof penetrations per attached SC-02.
4.	S-210	ADD "T/SLAB PER PLAN" callouts to details 4/S-210, 6/S-210 and 9/S-210 per attached SC-03, SC-04, SC-05.
5.	S-310	ADD "6 INCH MAX" dimension at new operable partition column and existing beam offset on detail 1/S-310 per attached SC-06.
6.	M-140	The fire sprinkler system shall remain functional while the building is occupied. The contractor shall provide the necessary shutoff valves to ensure the system is functional during occupancy. Shop drawings for the fire sprinkler install are available through the school district.

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7.	M-410	Energy Recovery Ventilator (DOAS-1) Schedule: Model number shall be revised to RNA-011.
8.	M-410	Fan Coil Schedule: Delete "Damper Voltage" line. Damper voltage is the responsibility of the contractor.
9.	E-001 – ELECTRICAL SYMBOLS & ABBREVIATIONS	<p>In the 'INTERCOMMUNICATIONS DEVICE SCHEDULE', Third Entry from the top: DELETE the word "COMBINATION" from the 'DESCRIPTION' column. The Intercommunication speakers in the classrooms will have speakers only.</p> 
10.	E-100 – NEW OVERALL ELECTRICAL FLOOR PLAN	<p>REVISE the last sentence in General Note 'K' to read, "REFER TO VOLUME 3 OF THE SPECIFICATIONS."</p> <p>This line replaces the general reference to the "ARCHITECTURAL SPECIFICATIONS" in order to refer to "VOLUME 3" of the specifications, dealing with Hazardous Materials, and safety and abatement requirements.</p>
11.	E-400 – NEW OVERALL INTERCOM & CLOCK FLOOR PLAN	REVISE Flag Note '6' to read: " PROVIDE PROGRAMMING VIA SIP INTERFACE TO AVAYA BASED SCHOOL DISTRICT PHONE SYSTEM FOR ALL BUILDING VOIP NETWORK PHONES. COORDINATE PROGRAMMING WITH SPOKANE PUBLIC SCHOOLS IT DEPARTMENT. "
12.	E-400 – NEW OVERALL INTERCOM & CLOCK FLOOR PLAN	CLARIFICATION: Flag Note '3' calls for a dedicated Cat6 cable and Intercom Administrative Handset, to be located in existing Office 111. The final location of this device shall be field coordinated in that room with Spokane Public Schools (SPS) project manager to be in a location confirmed by SPS Office staff. There will be one (1) of these administrative handsets on the project. Other District IP phones are to be interfaced with the intercom system via SIP interface.

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13.	E-401 – LEVEL 1 SPECIAL SYSTEMS PLAN	<p>REVISE Flag Note '1' to read: <i>"PROVIDE CLASSROOM MODULE, RAULAND TCC2011A OR EQUIVALENT, AND ALL CABLING, HARDWARE, AND APPURTENANCES AS REQUIRED TO CONNECT ALL NEW INTERCOM SYSTEM DEVICES IN CLASSROOMS TO HEAD END IN MDF ROOM. PROVIDE CAT-6 HOME RUN FROM MODULE TO NEW HEAD END EQUIPMENT IN EXISTING MDF ROOM. REFER TO DETAIL 5 ON SHEET E-702 AND DETAIL 1 ON SHEET E-701 FOR MORE INFORMATION. TYPICAL FOR ALL SPACES WHERE IP BASED SPEAKERS AND CALL SWITCHES ARE INDICATED"</i></p> <p>CLARIFICATION: The intent of the above note is to indicate the existence of a device required for the complete intercom system in the classroom that is not shown with a symbol because it is intended to be installed with the IP speaker assembly. The module allows for a single Cat-6 home run from the classroom to connect both the speaker and call switch, with shorter patch cables between the module and the speaker and call switch (see Detail 5/E-702).</p>
14.	E-402 – LEVEL 2 SPECIAL SYSTEMS PLAN	<p>REVISE Flag Note '1' to match that of Sheet E-401, as modified by this Addendum. Refer to Item above.</p>
15.	E-702 – ELECTRICAL DETAILS: DETAIL #5 – INTERCOM AND CLOCK SYSTEM DETAIL	<p>CLARIFICATION: Detail to be revised to indicate one (1) new Administrator Console, Rauland #TCC2045, to be located in Administration Office per Flag Note '3' on Sheet E-400. Contractor to provide SIP integration to interface intercommunication system with Owner's Avaya VOIP phone system.</p> <p>DELETE call outs for two (2) Administrator Consoles shown on detail. One (1) to remain, as described above.</p>
16.	E-703 – ELECTRICAL DETAILS: DETAIL #2 – ACCESS CONTROL RISER	<p>CLARIFICATION: Contractor is to verify final catalog numbers for all Owner furnished access control devices with Owner and/or Owner's designated vendor prior to ordering. Refer to Addendum items in the specifications for Section 28 00 00.</p>

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Acceptance of Substitutions

Add the following to approved list of manufacturers at this time.

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

1.	SECTION	ITEM	MANUFACTURER
2.	09 30 00	Tiling - Setting Materials/grouts	Ardex Americas
3.	10 51 13	Welded Corridor Lockers	ASI Storage Solutions, Traditional Collection
4.	26 09 23	Addressable Lighting Control Devices	Osram Encelium, as submitted by Ambient Lighting & Controls in Prior Approval Package dated 4/16/2021. NOTE: Approval is based on assumption that where the drawings indicate luminaire level control modules, the Encelium control devices will be factory installed on the fixture types indicated with integral modules. Fixtures indicated with integral modules shall have the control device pre-wired to the fixture driver, and ready for connection to an un-switched lighting circuit and the lighting control network bus upon delivery. Approval is also contingent on the bid including programming and startup to connect the facility to Spokane Public Schools' existing Encelium head-end SSU equipment. Controls package to include Extend Manager equipment as required to connect new lighting zones in remodel areas, and system shall have capability of expanding to include zones in existing portion of the building in the future.
5.	27 51 10	Interior Lighting	Refer to manufacturers below for individual Types:
		Type C48	As specified
		Type R02W	Neoray Define 4 S124DR Series
		Type R04 / R04E	Neoray Define 4 S124DR Series
		Type R04W	Neoray Define 4 S124DR Series
		Type R05	Neoray Define 4 S124DR Series
		Type R05W	Neoray Define 4 S124DR Series
		Type R33 / R33E	Corelite Class D3X Series
		Type R60 / R60E	Corelite Class D3X Series
		Type S01E	McGraw Edison GWC Galleon Wall Series
		Type S40E	As Specified
		Type X01	Sure-Lites CX Series
6.		27 51 23	Intercommunications And Program System



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**Spokane Public Schools
Libby Center Classroom Remodel**

ALSC Project No. 2020-033

PRE-BID CONFERENCE NOTES

Wednesday – April 14, 2021

I. INTRODUCTIONS

A. Spokane Public Schools

1. Greg Forsyth – Director of Capital Projects
2. Randy Lasswell – Project Manager
3. Kimberly Stretch – Principal, Libby Center

B. Design Team

1. Architect: ALSC Architects
 - a. Ken Murphy, Managing Principal
 - b. Jodi Kittel, Project Manager
 - c. Todd Keller, Project Architect
2. Structural Engineer: DCI Engineers
 - a. Vincent Valenti
3. Mechanical Engineer: Dumais-Romans
 - a. Jeff Romans, Project Engineer
4. Electrical Engineer: KWR Engineers
 - a. Kelly Waterman, Project Engineer

II. INSTRUCTIONS TO BIDDERS

- A. Bid Opening: Tuesday, April 27, 2021 at 2:00 p.m. Base Bids and Alternate Bids received no later than 2:00 p.m. on the date of the opening.
- B. Location: Spokane Public Schools Capital Projects and Planning Office
2815 E. Garland Avenue, Spokane
- C. Lowest Responsible Bidder Criteria (RCW 39.04.350) – Para. 1.05A.
- D. Reciprocal Preference for Resident Contractors (RCW 39.04.380) – Para. 1.05B.

III. BID FORM

A. Base Bid Form

1. Bid Security: 5% - In the form of a certified or bank cashier's check payable to the Owner or a bid bond acceptable to the Owner and executed by a bonding company licensed in the State of Washington on a Public Works Bond or equivalent form.
2. Acknowledge Receipt of Addenda.
3. Prevailing Wage Rates: Washington State Prevailing Wage Rates will apply.
4. Washington State Sales Tax not included in Bid.
5. Alternates: Section 01 23 00.
 - a. Alternate 1- As shown in the drawings, to include remodel of offices and classroom space into classroom and breakout space, at the first floor of the 1926 building.
 - b. Alternates 2a, 2b- Carpet Manufacturers
6. Subcontractor List

IV. BID DOCUMENTS

A. Content

1. Project Manual – 3 Volumes.
2. Drawing Sheets – 1 Bound Volume
3. Addenda

B. Method of Correction (Addendum)

1. Addendum No. 1 was issued this week.
2. It is anticipated that the last Addendum will be issued one week prior to Bid Opening.

C. Substitution Requests (Products/Materials)

1. Received 10 days prior to Bid Opening (April 16, 2021).

V. GENERAL CONDITIONS

- A. Supervision/Coordination with General Contractor (Article 3.3).
- B. Insurance (Article 11).
- C. Performance and Payment Bonds 100% of Contract (Article 11).
- D. Building Permit to be paid by the Owner. All other permits and fees to be paid by the Contractor (Special Conditions).

VI. SPECIAL CONDITIONS

- A. Permits, Licenses and Fees.
- B. Construction Schedule.
 - a. Construction to begin after school is out, coordinate start date with Owner.
- C. Prevailing Wage Requirements – RCW 39.12.

VII. SITE CONDITIONS

- A. Safety – Contractor's Responsibility.
- B. Access and Site Staging (Fencing).
- C. Areas of Operation.

VIII. FRONTAL DOCUMENTS

- A. Summary of Work
 - 1. On-Site Work
 - a. Remodel portion of the second floor of the 1926 building including, to be complete as Phase 1.
 - b. Remodel the first floor 1970 addition, to be complete as Phase 2. Remodel portion of the first floor 1926 building if alternate is accepted, also would be complete in Phase 2.
 - c. Fan coil units will be Owner Furnished, Contractor Installed.
 - d. The project will include some abatement, see Volume 3 of the Specs for more information.
 - 2. Phasing/Occupied Site – See Sheet G-003.

3. Existing Building Selective Demolition – any District Salvage will be done prior to start of construction.

B. Schedule – Notice-to-Proceed: Early May, construction to begin after school is out in June.

The Project involves two primary phases with different completion dates.

Substantial Completion Phase 1 - August 27, 2021.

Substantial Completion Phase 2 (full project) – October 15, 2021.

C. Inspection and Testing required by the IBC – Paid by Owner (Section 01 40 00).

D. Hours of Work (7:00 a.m. – 7:00 p.m.) – May be mutually modified at a later date.

E. Temporary Facilities – 01 50 00.

F. Building Commissioning – 01 91 13.

G. Apprentice Labor – RCW 39.04.320.

IX. QUESTION/ANSWERS

A. The warranty for the fan coils should cover installation.

B. The full building intercom is part of the base bid.

X. SITE/BUILDING TOUR

KM/ : 2020-033

SIGN IN SHEET (Please print)



PROJECT NO. 2020-033	PROJECT Libby Center Classroom Remodel	PURPOSE Pre-Construction Meeting	DATE April 14, 2021
NAME	ORGANIZATION & POSITION	E-MAIL ADDRESS	PHONE/CELL NUMBER
Dan Halane	Halane Builders	dan@halanebuilders.com	(T) 509 725-1200 (C) 509 721 0432
KEVIN DAVIS	WESTERN STATES CONSTRUCTORS	WSC@AIR-PIPE	(T) 509-892-0600 (C) 509-995-6869
Frank Robinson	MERIDIAN CONST.	frank@meridianco.com	(T) 509 443 0252 (C) 509 496 7908
AL Feltz	Dimensional Communications	alf@dimensional.ne	(T) 509 481 9009 (C) 206 550 3512
Clanny Wold	Garco Const.	clanny@garco.com	(T) (C) 509 475-1204
Jonnie Teman	Swinerton	jonnie.teman@swinerton.com	(T) (C) 425-229-5114
Jeff Thomas	DZ4	jeff@dumaismans.com	(T) (C) 509 893 9646
MIKE DIX	KILGORE CONSTRUCTIONS INC.	MIKE@KEISPOKAWA.COM	(T) 509-238-0704 (C) 509-951-7139
			(T) (C)

SIGN IN SHEET (Please print)



PROJECT NO. 2020-033	PROJECT Libby Center Classroom Remodel	PURPOSE Pre-Construction Meeting	DATE April 14, 2021
NAME	ORGANIZATION & POSITION	E-MAIL ADDRESS	PHONE/CELL NUMBER
Stefan Altberg	TW Clark Construction PM	bid@twclark.com	(T) 509.927.0800 (C) 509.666.2895
Eric Halme	Halme Cascade Owner	Eric@HalmeCascade.com	(T) 509.919.9803 (C)
Jason Bailey	Gratham Construction & MANAGEMENT	jason.bailey@grathamus.com	(T) (C) 509-850-8331
Shaun Wood	Pro Mechanical PM	Swood@pro-msi.com	(T) (C) 509-992-7343
Ryan Vanos	Pro Mechanical PM	Rvanos@pro-msi.com	(T) (C) 509 954-0274
Jason Wiethman	Pro Mechanical	JASONW@pro-msi.com	(T) (C) 509-904-8180
Brian Gaines	Pro Mechanical Assistant PM	bgaines@pro-msi.com	(T) (C) 509-309-1107
Brian Beck	JACKSON CONTRACTOR PM	brinb@jacksoncontractorgroup.com	(T) (C) 509-992-2531
Josh Chisman	Walker Construction Inc	jchisman@walkerconstructioninc.com	(T) 509-535-3354 (C)

BID FORM

Spokane Public Schools Libby Center Classroom Remodel

PART 1 of 2

This document is Part 1 of a two-part submittal. Part 2 may be submitted up to one hour after the time specified for receipt of this Part 1 which will be held unopened. Both parts must be submitted by the specified times to consider this bid valid. Bids for Part 1 and Part 2 will be opened and read aloud immediately after Part 2 Bids are due. Refer to Instructions to Bidders for Bid submittal procedures.

The undersigned hereby submits the following Bid to:

Purchasing Department
Spokane Public Schools
2815 East Garland Avenue
Spokane, Washington 99207

A. **CONTRACT**

The undersigned, if notified of the acceptance of this Bid within thirty (30) days of the time set for the opening of Bids, agrees to execute a Contract for the Work, for a compensation of the sum(s) stated below and to give bonds as required by the Contract Documents and Washington statutes.

The standard form of the American Institute of Architects, No. A-101-2017, entitled "Standard Form of Agreement Between Owner and Contractor," 2017 Edition has been modified and made the FORM OF AGREEMENT for this contract. The form is bound herein after this section.

B. **BID GUARANTEE**

The undersigned further agrees that the certified check or Bid bond, payable to the Owner and accompanying this Bid, is the measure of liquidated damages which the Owner will sustain by failure of the undersigned to execute and deliver the above-named agreement and bonds within ten (10) days of written notification of the award of the Contract. Should the undersigned fail to enter into the Contract, the certified check, cashier's check, or Bid bond shall be forfeited as liquidated damages. If this Bid is not accepted by the Owner within thirty (30) days after the time set for the opening of Bids, or if the undersigned executes and delivers said bonds, the check or Bid bond shall be returned.

C. ADDENDA

Receipt of Addenda numbered _____ is hereby acknowledged.

(Fill in number of each addenda received)

D. BID

1. BASE BID

Having carefully examined the Project Manual and Drawings entitled:

Spokane Public Schools Libby Center Classroom Remodel

Dated: April 2, 2021

as well as premises and conditions affecting the Work, the undersigned proposes to furnish all labor and materials and to perform all Work required by and in strict accordance with the above-named documents for a fixed amount in the sum of the following amount, NOT INCLUDING SALES TAX:

 _____ Dollars \$ _____
 (Please print dollar amount in words in space above) (Dollar amount in numerals)

2. TRENCH EXCAVATION SAFETY

To comply with relevant trenching safety requirements in Chapter 39.04 RCW, 49.17 RCW and WAC 296-155-650, the bid amount may contain costs required for trenching exceeding a depth of four feet. All costs for trench safety shall be included in the Base Bid and indicated below for adequate trench safety systems. Even if trench excavation safety provisions do not pertain to the Project, the Bidder must include a lump sum dollar amount in blank below (even if value is \$0.00) to be responsive.

Trench Excavation Safety Provisions: Dollars \$ _____
 (Dollar amount in numerals)

3. SALES TAX AND PERMITS

The retail sales tax shall not be included in the Bid sums; the Owner will pay such taxes proportionally with each periodic payment. All City of Spokane plan check and building permit fees have been paid by the owner and shall not be included in the Bid. (See SPECIAL CONDITIONS of the CONTRACT section following the GENERAL CONDITIONS of the CONTRACT for CONSTRUCTION for detailed requirements. All other necessary fees and taxes shall be paid by the Contractor and included in the Bid.)

4. OVERHEAD AND PROFIT

All of the above Bid prices (and alternate bid or unit cost prices) include overhead and profit.

5. LISTING OF SUBCONTRACTORS:

This Contractor agrees to provide a listing of Subcontractors herein, per requirements of Instructions to Bidders. (Note: This is only required when total of Basic Bid and Alternates exceeds \$1,000,000.)

6. TIME OF COMPLETION/LIQUIDATED DAMAGES

The Undersigned agrees if awarded the Contract, to complete the entire project as stipulated in the Contract Documents. The Undersigned further agrees that the Owner may retain from the compensation otherwise due, liquidated damages costs incurred by the owner, for each calendar day expiring beyond a time fixed for completion that the work remains not substantially completed. This sum is not to be construed in any sense as penalty, but as agreed liquidated damages which the Owner shall sustain in the case of failure of the Undersigned to complete the work at the time stipulated. For dates of completion and liquidated damages amount, see SECTION entitled "INSTRUCTIONS TO BIDDERS".

7. VERIFICATION

The undersigned hereby verifies under penalty of perjury, in accordance with RCW 9A.72.085, that Bidder is in compliance with the responsible bidder criteria requirement of subsection (1)(g) of RCW 39.04.350. Specifically, within the three-year period immediately preceding the date of the bid solicitation for the Project, Bidder has not been determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgement entered by a court of limited or general jurisdiction that Bidder has willfully violated, as defined in RCW 49.48.082, any provision of chapter 49.46, 49.48, or 49.52 RCW. The undersigned certifies (or declares) under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

E. BIDDER

Bidder's Firm Name

Contractor's Tax ID Number

By

Contractor's Registration Number

Address

Date

City, State, Zip Code

Telephone

Email

END OF PART 1

BID FORM

Spokane Public Schools Libby Center Classroom Remodel

PART 2 of 2

This document is Part 2 of a two-part submittal. Part 2 will be submitted up to one hour after the time specified for receipt of Part 1. Refer to Instructions to Bidders for Bid submittal procedures.

The undersigned has previously submitted Bid Form – Part 1 and hereby submits the following Part 2 Bid to:

Purchasing Department
Spokane Public Schools
2815 East Garland Avenue
Spokane, WA 99207

A. ALTERNATES

Should any of the Alternates as described in the Contract Documents be accepted, the amount written below shall be the amount to be added to or deducted from the Base Bid, as specified below. If the Bidder fails to identify whether an Alternate is an addition or deduction below, the amount will be considered an addition. (Do not include Washington State sales tax).

Alternate No. 1: Remodel of rooms 118/120

Add/Deduct _____

_____ Dollars \$ _____
(Please print dollar amount in words in space above) (Dollar amount in numerals)

Alternate No. 2a: Tarkett Carpet

Add/Deduct _____

_____ Dollars \$ _____
(Please print dollar amount in words in space above) (Dollar amount in numerals)

Alternate No. 2b: Bentley Carpet

Add/Deduct _____

_____ Dollars \$ _____
(Please print dollar amount in words in space above) (Dollar amount in numerals)

B. SUBCONTRACTOR WORK

In submitting its Bid to do the Work as outlined in the Contract Specifications, the undersigned hereby stipulates that if awarded a Contract, the following subcontractors will be subcontracted to perform Work for this project. List only one subcontractor—or indicate self-performance—in each space below.

<u>Trade</u>	<u>Subcontractor Name and Address</u>
HVAC	
Plumbing	
Electrical	
Carpentry	

C. SUBCONTRACTORS IF ALTERNATES SELECTED

Check one of the following two choices (if neither choice is checked, the Owner will conclude that there is no change in the identity of any subcontractor if any or all Alternates are selected):

☐ Subcontractors listed above in Part B will not change if the Owner selects any or all of the Alternates

☐ If an Alternate is selected by the Owner, the subcontractors listed above in Part B will be changed to the following new subcontractors:

<u>Alt. No.</u>	<u>Subcontractor Name and Address</u>	<u>Trade</u>

D. REINSTATEMENT OF ALTERNATE BIDS

The Undersigned agrees that the Owner has the right to reinstate, at the bid price, any Alternate Bid not incorporated in the Contract, provided the Owner so notifies the Undersigned within 45 calendar days after the contract is signed.

E. BIDDER

_____ Bidder's Firm Name	_____ Contractor's Tax ID Number
_____ By	_____ Contractor's Registration Number
_____ Address	_____ Date
_____ City, State, Zip Code	
_____ Telephone	
_____ Email	

F. VERIFICATION OF COMPLIANCE – RESPONSIBLE BIDDER CRITERIA REQUIREMENTS

I _____, declare under penalty of perjury
Print Name

Under the laws of the State of Washington that the foregoing is true and correct:

That _____, is in compliance with the responsible
Firm Name

Bidder criteria requirements of 1.05.C.3 – Requirements for Award: Bidder Responsibility contained in the Instructions to Bidders.

_____ <i>Date and Place</i>	_____ <i>Signature</i>
--------------------------------	---------------------------

END OF PART 2

As evidence that the bidder meets the bidder responsibility criteria, the apparent low bidder must submit this documentation to the Architect and Owner. The Owner reserves the right to request such documentation from other bidders also.

BIDDER _____

NAME: _____

ADDRESS: _____

CITY: _____ COUNTY: _____

STATE: _____ ZIP CODE _____

TELEPHONE NO.: (____) _____ FAX NO.: (____) _____

Mandatory Bidder Responsibility:

Washington State Contractors License No. _____

Unified Business Identifier (UBI) No. _____

If applicable:

Do you have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in RCW 51? **YES / NO**

Washington Employment Security Department number, as required in RCW 50:

Washington Department of Revenue state excise tax registration number, as required in RCW 82:

Have you (the bidder) been disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3)? **YES / NO**

Have you (the bidder) been found to be out of compliance for public works projects subject to the apprenticeship utilization requirements of RCW 39.04.320, for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under RCW 49.04 for the one-year period immediately preceding the first date of advertising for the project? **YES / NO**

Have you (the bidder) received training on the requirements related to public works and prevailing wage under RCW 39.04 and RCW 39.12? **YES / NO**

Person or persons trained on these requirements: (provide full name)

(Note: Bidders that have completed three or more public works projects and have had a valid business license in Washington for three or more years are exempt from this requirement.)

Within the three-year period immediately preceding the date of the bid solicitation, have you (the bidder) been determined by a final and binding citation and notice of assessment issued by the department of labor and industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of RCW 49.46, 49.48, or 49.52? **YES / NO**

Supplemental Bidder Responsibility:

Responsibility Criterion 1: To determine bidder responsibility the Owner will review for: Quality of project and quality control, Management of safety and safety record, Timeliness of performance, Management of subcontractors, Compliance with contract documents, Management of schedule, submittals process, change orders, and closeout. List all projects completed by your company with a project value of between \$500,000 and \$1 Million over the past five years (use additional pages as necessary to list all projects).

1. Project Name: _____
Dollar amount of Contract: \$ _____
Owner: _____
Owner's Representative _____ Phone _____
Contractor's Superintendent on this project _____
Brief Description of Project Scope: _____

2. Project Name: _____
Dollar amount of Contract: \$ _____
Owner: _____
Owner's Representative _____ Phone _____
Contractor's Superintendent on this project _____
Brief Description of Project Scope: _____

3. Project Name: _____
Dollar amount of Contract: \$ _____
Owner: _____
Owner's Representative _____ Phone _____
Contractor's Superintendent on this project _____
Brief Description of Project Scope: _____

4. Project Name: _____
Dollar amount of Contract: \$ _____
Owner: _____
Owner's Representative _____ Phone _____
Contractor's Superintendent on this project _____
Brief Description of Project Scope: _____

5. Project Name: _____
Dollar amount of Contract: \$ _____
Owner: _____
Owner's Representative _____ Phone _____
Contractor's Superintendent on this project _____
Brief Description of Project Scope: _____

Responsibility Criterion 2: Claims Against Retainage and Bonds: To determine bidder responsibility the Owner will review for any projects where claims have been made against retainage and/or bonds for your company's projects. List all the projects completed within the previous five years that have had any claim filed against the retainage or payment bonds for the project. Include a brief description of the nature and resolution of each claim noted (use additional pages as necessary to list all projects).

1. Project Name: _____
Brief Description of claim made against Retainage or Bond: _____

2. Project Name: _____
Brief Description of claim made against Retainage or Bond: _____

3. Project Name: _____
Brief Description of claim made against Retainage or Bond: _____

Responsibility Criterion 3: Termination for Cause / Termination for Default: To determine bidder responsibility the Owner will review for any projects where the contractor has been terminated for cause or default. List all the projects completed within the previous five years that have resulted in your company being terminated for cause or default. Include a brief description of the nature of each termination noted, along with possible extenuating circumstances (use additional pages as necessary to list all projects).

1. Project Name: _____
Brief Description of Termination claim and surrounding circumstances: _____

2. Project Name: _____
Brief Description of Termination claim and surrounding circumstances: _____

3. Project Name: _____
Brief Description of Termination claim and surrounding circumstances: _____

Responsibility Criterion 4: Lawsuits: To determine bidder responsibility the Owner will review for any projects where the contractor has lawsuits with judgments entered against the Bidder. List all the projects completed within the previous five years that have resulted in lawsuits with judgments entered against your company. Include a brief description of the nature of each lawsuit and judgment noted, along with possible extenuating circumstances (use additional pages as necessary to list all projects).

1. Project Name: _____
Brief Description of Lawsuit and surrounding circumstances: _____

2. Project Name: _____
Brief Description of Lawsuit and surrounding circumstances: _____

3. Project Name: _____
Brief Description of Lawsuit and surrounding circumstances: _____

Subcontractor Responsibility - Bidder certifies that at the time of sub-contract execution each subcontractor shall comply with the responsibility requirements defined in the Instructions to Bidders, sub-section 1.06, A, 3. The Contractor shall include the language of that section in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. Upon request of the Owner, the Contractor shall promptly provide documentation to the Owner demonstrating that the subcontractor meets the subcontractor responsibility criteria. The requirements of this section apply to all subcontractors regardless of tier.

If the above contract is awarded to our company, the following persons will be authorized to sign change orders, progress payments and similar documents for the company: (provide names and positions)

The Contractor's superintendent at the job site will be: (provide full name)

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct:

(Date) (Place) (Signature)

END OF DOCUMENT

**LIMITED LEAD COATINGS SURVEY
FOR THE
INTERIOR SUSPECT WALL & CEILING COATINGS PRESENT
THROUGHOUT THE LIBBY CENTER FACILITY
LOCATED AT
2900 EAST 1ST AVENUE
SPOKANE, WA**

Project No: 12-021.01

Prepared for
Spokane Public schools - Facility Services
*2815 East Garland Avenue
Spokane, WA 99207*

Prepared By
Mountain Consulting Services LLC
*9922 E Montgomery Drive, Suite 9
Spokane Valley, WA 99206*

February 17, 2012

Mountain Consulting Services, LLC

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APPENDICES

- A: Inspector and Laboratory Certifications
- B: XRF Confirmed Positives Data
- C: XRF Survey Data & Calibrations Worksheet
- D: XRF HUD Data (depicting paint colors)
- E: Bulk Coating Sample Analysis Report
- F: Sample Location Drawings and Photographs

LIMITED LEAD CONTAINING SURVEY; INTERIOR SUSPECT WALL & CEILING COATINGS; LIBBY CENTER FACILITY; 2900 EAST 1ST AVENUE; SPOKANE, WA

1.0 INTRODUCTION

Mr. Randy Lasswell, representing Spokane Public schools - Facility Services, contracted Mountain Consulting Services, LLC (Mountain Consulting) to conduct a **limited Lead Coatings Survey** of the suspect interior wall and ceiling coatings present throughout the Libby Center Facility located at 2900 East 1st Avenue in Spokane, Washington.

This project was conducted to facilitate a scheduled fire suppression systems upgrade renovation project for the school facility. No prior survey documentation was provided for this project.

Mr. David A. Jones, Washington State Lead Risk Assessor; Certification: 0567; Expiration: February 16, 2013 conducted the fieldwork portion of the survey on February 6, 2012. (See Appendix A for inspector certifications.)

The survey process uses a surface-by-surface measurement of suspected interior wall and ceiling paint coatings or ceramic tile glazing's by X-ray fluorescence (XRF) and bulk sampling. This survey complies with all applicable state and federal regulations and is provided to help the property owner determine the impact of lead coating and material hazards for the upcoming renovation project activities.

SITE DESCRIPTION

The facility is a masonry and wood constructed, two story, school facility, built on a concrete foundation. Interior wall finishes are a mixture of gypsum wallboard, plaster, masonry brick and concrete. Interior ceiling systems are either suspended lay-in ceiling tiles with metal grid work or glued applied ceiling tiles installed over plaster or gypsum substrates.

The property is located in the eastern central part of Spokane, Washington, bounded by 1st Avenue to the north, Haven Street to the east, Pacific Avenue to the south, and, residential property & Lacey Street to the west. The closest main arterial is Sprague Avenue to the north.

2.0 X-RAY FLUORESCENCE TESTING

2.1 THEORY OF X-RAY FLUORESCENCE

Fluorescence can be defined as the emission (giving off) of electromagnetic waves by an atom when something excites it. An example of fluorescence is the visible light or glow given off by certain

paints when a black light (a purple-looking ultraviolet light) is shone on them. This is the concept used in an X-ray lead detector. The detector contains a source of radiation, a hermetically sealed radioactive isotope of cobalt (Co^{57}) about the size of an aspirin tablet. The radiation is used to excite the atoms of a coated surface. As the surface returns to its normal state, it fluoresces.

The detector works something like a radio. Radio stations are assigned different frequencies, allowing the listener to select a single station. Lead fluoresces at a known frequency and, like a radio; the detector can be tuned to it. The fluorescence is sensed by the detector and displayed on a digital readout. The concentration of lead in the coating is expressed as mass (milligrams) per unit area (square centimeter) (mg/cm^2).

2.2 XRF LEAD BASED PAINT SURVEY

Mountain Consulting collected fifty-five (55) XRF assays from the interior of the facility using the procedural protocol outlined in the EPA's Standard Operating Procedures for Measurement of Lead in Paint employing a Scitec Map-4 X-Ray Fluorescence Spectrometer (EPA 600/8-91/214; 1991), the revised Chapter 7 (November 1997) of HUD's Guidelines for the Evaluation and Control of Lead Based Paint Hazards in Housing and the Performance Characteristic Sheet for the Scitec MAP-4. Components tested during this survey were averaged using the HUD averaging system included in the ARM software used to generate the HUD tables located in Appendix D of this report.

Mountain Consulting used the Scitec MAP 4 XRF spectrum analyzer (Serial No: M41299) to perform nondestructive sampling of suspect lead paint or glazing coatings.

Over time, the instrument's radiation source "decays," requiring longer times to reach standard precisions. Because of this, Mountain Consulting performs quality-control checks before, during, and after collecting data (depending on the length of the survey) to ensure that the MAP 4 is functioning properly and that assay results truly reflect lead levels at the sample points.

The instrument is calibrated using a standard from the National Institute of Standards and Technology backed by a common building material. Results of the averaged calibration readings are compared to the factory calibration results before the instrument was shipped to the owner.

Morning calibration results are plotted on a graph to detect trends that might indicate that the instrument is not working properly.

If the result of a daily calibration check differs from the factory average by more than $0.2 \text{ mg}/\text{cm}^2$, the instrument is not functioning properly or the radiation source may be too weak to provide accurate readings. See Appendix C for daily XRF calibration results.

An unlimited-test-length measurement was used to determine the lead concentration during the assays of each identified painted surface. The unlimited-length assay has an average precision

(95% confidence) of about 0.2 mg/cm². The action level for this study was set at the standard of 1.0 mg/cm².

The unlimited-length test mode allows the inspector to continue to collect data until the action level (1.0 mg/cm²) is met within the set precision limit of the device. If the desired results are not achieved within a reasonable time, the inspector can end the assay, and the analyzer will report it as inconclusive.

In conjunction with the Advanced Report Manager software, the MAP 4 produces a comprehensive report based on the assay data. Each sample is given a unique code that identifies the room number, wall number, component tested, substrate of the component, condition of the paint tested, substrate condition, and amount of lead detected in milligrams per square centimeter (mg/cm²).

2.3 BULK COATING SAMPLING

Destructive bulk paint sampling was also conducted by Mountain Consulting for suspect coatings that produced negative results from XRF assay screening. Mountain Consulting collected eight (8) representative bulk coating samples from majority component painted surfaces that produced XRF results of less than 1.0 mg/cm².

The samples were submitted following proper chain-of-custody procedures to EMSL Analytical of Westmont, New Jersey, for analysis by methods SW846, 3050B and 7000B. EMSL Analytical, Inc. (phone 1-800-220-3675) is accredited by the American Industrial Hygiene Association. Laboratory accreditations are provided in Appendix A.

3.0 RESULTS

3.1 XRF LBP SURVEY

Lead coatings are defined by EPA regulations under Title X (Residential Lead Based Paint Hazard Reduction Act of 1992) as containing lead concentrations above 1.0 mg/cm² when measured by a portable XRF instrument or 0.5% by weight (equated to 5,000 parts per million (ppm)) when measured by laboratory analysis. Since this project is for potential renovation and/or demolition and not Housing and Urban Development (HUD) target housing, HUD regulations do not apply, although the procedures for XRF testing can be utilized effectively for lead positive screens. Unfortunately negative XRF assays for renovation or demolition projects do require additional testing by bulk sampling protocol to verify actual lead content.

The Occupational Safety and Health Administration (OSHA) to include WISHA does not have a definition for lead containing coatings, so, if any amount of lead is present in a material, OSHA & WISHA worker-health-and-safety due diligence does apply.

Positive Results – A “positive” result refers to a sample that has a lead concentration greater than or equal to 1.0 mg/cm² by XRF analysis. See Appendix B for a list of XRF confirmed positive assay results. See HUD data results in Appendix D for specific colors of positive coatings.

Inconclusive Results – “Inconclusive” refers to a sample that has a lead concentration ranging from 0.80 mg/cm² through 1.20 mg/cm². No inconclusive assay results were recorded during this survey.

Negative Results – A “negative” result refers to a sample that has an average lead concentration of less than 1.0 mg/cm² by XRF assay testing. Negative results indicate only that lead levels are below the action level by HUD regulations, within the precision limit of the machine. A “negative” XRF result does not mean that lead is not present under OSHA and WISHA regulations. See tables of XRF Survey Results in Appendix C for a listing of all negative assays. Majority coatings that produced negative XRF assay results were bulk tested to verify actual lead content. Refer to Section 3.4 for the results of bulk coating analysis.

3.2 SUBSTRATE CONDITION

Mountain Consulting made a visual assessment of the coated sub-straights throughout the structure for this project. Substrate conditions were satisfactory for all tested coatings.

3.3 LEAD CONTAINING COATINGS BY XRF

The following coated components contain lead above the regulatory limit by XRF testing protocol. These coatings are potential lead hazards to employees working with them for renovation or demolition activities. Contractors working on or around these materials should be informed of the potential lead hazards.

Libby Center Facility 2900 East 1st Avenue Lead Coated Components by XRF Testing	
Components	Range in mg/cm²
All Interior White Painted Plaster Walls and Ceilings (with the exception of the newer main Level west addition)	5.03 mg/cm ²
All Interior White Painted Concrete Walls (with the exception of the newer main Level west addition)	2.770 to 7.766 mg/cm ²
All White Painted 2x4x8 Masonry Brick Walls (with the exception of the newer main Level west addition)	14.819 to 24.484 mg/cm ²
Blue Glazed Ceramic Wall Tiling (Kitchen)	6.381 to 6.959 mg/cm ²
All White Painted CMU Walls (with the exception of the newer main Level west addition)	1.24 mg/cm ²
Grey Painted CMU Walls (Boiler Room Lower Walls <u>Deteriorated Condition</u>)	12.263 to 15.027 mg/cm ²

mg/cm² = micrograms per cubic centimeter.

Components in satisfactory condition did not constitute a lead hazard at the time of this inspection. Lead hazards could emerge if coating deteriorates during renovation or demolition activities. Worker Health & Safety Lead Safe Work Practices should be employed for working with or around these components.

3.4 BULK COATING SAMPLE RESULTS

The Occupational Safety and Health Administration (OSHA) and the Washington State Industrial Safety and Health Administration (WISHA) do not define by regulation a definition for lead based paint or lead glazing. The Housing & Urban Development (HUD) Federal Regulation action limit for the presence of lead by bulk paint analysis is 0.5 percent by weight (%wt.) for target housing only and therefore does not apply to renovation or demolition projects. The Washington State threshold for lead containing materials is 100 parts per million (ppm).

Mountain Consulting collected bulk paint and ceramic tile glazing samples for this project. Bulk coating samples were collected from majority coatings that produced negative XRF assay results.

The results of the bulk coating samples collected for this project are listed as follows: [Refer to Appendix E for laboratory report and chain of custody].

Sample No:	Tested Coating	%wt	ppm
Pb01	Interior White Plaster Walls Coating	0.030 %wt	300 ppm
Pb02	Interior White Plaster Ceilings Coating	0.11 %wt	1,100 ppm
Pb03	Gold Varnish on wood Flooring	< 0.069 %wt	<690 ppm
Pb04	Interior White Drywall Coating (Lower New West Addition)	<0.010 %wt	<100 ppm
Pb05	Interior White CMU Walls Coating	<0.029 %wt	<290 ppm
Pb06	Interior Blue CMU Walls Coating	< 0.012 %wt	<120 ppm
Pb07	Interior Off White Wall Coating on CMU (Lower New West Addition)	<0.010 %wt	<100 ppm
Pb08	Interior Off White Wall Coating on CMU Boiler Room Upper Walls	0.019 %wt	190 ppm

Note: 1.0 %wt = 10,000 parts per million, Bold = indicated regulated lead coating.

The results for bulk paint Samples 1, 2, 3, 5, 6 and 8 prove the presence of regulated lead containing paint films. The lead content ranges from 120 to 1,100 parts per million.

The result for bulk paint Samples 4 and 7 prove lead content below the Washington State action limit for lead containing materials both are considered to be non-regulated. *It should be noted that samples 4 and 7 were in the newer main level west addition of the school.*

4.0 RECOMMENDATIONS

All coatings identified as containing greater than >100 ppm (parts per million) lead from bulk coating analysis or proven lead containing by XRF assay testing are regulated by Federal and/or Washington State regulations. Explanations of regulations are detailed as follows:

The Occupational Safety and Health Administration (OSHA) 29 CFR 1926.62 and the Washington State Industrial Safety and Health Administration (WISHA) WAC 296-155 lead in construction standards do not define by regulation a definition for lead coatings, but do establish safe airborne exposure limits for employees working with lead containing materials to include coatings by PEL (permissible exposure limit). The current PEL for airborne lead is 50 ug/m³ (micrograms per cubic meter) and the current action limit (AL) is 30 ug/m³.

If any material contains lead above the limit of detection by Flame Atomic Absorption (FAA) analysis (>0.01 %wt which equals 100ppm), proven to be lead containing by XRF testing or assumed lead containing then abatement, renovation or demolition contractors must demonstrate worker health and safety due diligence and lead safe work practices.

This would include lead awareness training for all affected employees, establishing proper employee personnel protective equipment (PPE), proper demarcation of effected work areas and performance of negative exposure assessment (NEA) lead air monitoring prior to downgrading any established PPE.

Lead, Toxic Characterization Leaching Procedure (TCLP) bulk sampling and analysis must be conducted for any proposed or generated demolition/renovation waste streams that will impact the identified coatings that contain greater than 100 ppm lead. If the analytical results of TCLP samples are below the Hazardous Waste Classification threshold limit of 5 ppm or 5 mg/l (milligrams per liter), the waste stream can be classified as Category I Low Lead Waste and can be disposed of in a landfill that accepts standard construction debris as per the requirements of 40 CFR Part 261 and WAC 173-303 for the determination of lead waste characterization.

It should be noted that recycling of components with lead based paints such as; metal door frames, window frames, etc... do not require TCLP sampling and analysis because the materials are not

being disposed of. However, the owner is required to disclose to the recycling firm that lead based paint is present.

5.0 HEALTH EFFECTS OF LEAD EXPOSURE

For information concerning lead based paint and the health effects of lead, contact the National Lead Information Clearing House at 1-800-424-Lead.

Lead can be absorbed into the body by inhalation (breathing) and ingestion (eating or drinking). Inhaling or ingesting even small amounts of lead can be harmful. Lead poisoning can occur at high exposure concentrations (acute) or at low exposure concentrations over a long period of time (chronic) and can cause either temporary or permanent damage. Lead is a poison that accumulates in the blood, bones, and organs, including the kidneys, brain, and liver. It stays in the bones for decades and may be released slowly over time to cause toxic effects. An increasing blood-lead level usually means that there has been recent exposure and that lead is building up in the body faster than it is being eliminated. The early effects of lead poisoning are not specific and resemble flu-like illnesses.

Cumulative exposure to lead, which is typical in home settings, may result in damage to the blood, nervous system, kidneys, bones, heart, and reproductive system and contributes to high blood pressure. **It is especially toxic to young children and women of childbearing age.**

The symptoms of lead poisoning include the following:

- Headache
- Poor appetite
- Dizziness
- Irritability or anxiety
- Constipation
- Pallor
- Excessive tiredness
- Numbness
- Metallic taste in the mouth
- Muscle or joint pain or soreness
- Sleeplessness
- Hyperactivity
- Weakness
- Reproductive difficulties
- Nausea
- Fine tremors
- Insomnia
- "Lead line" on the gums
- "Wrist drop" [muscle weakness]

6.0 LIMITING CONDITIONS AND CLOSURE

6.1 LIMITING CONDITIONS

We have exercised reasonable efforts to accomplish the tasks for this project using current professional standards of the industry. To the extent that the services require subjective judgment, there can be no assurance that definitive or desired results have been obtained or that they will be usable. Although based on scientific principles, to the extent that results depend on subjective judgment, they are subject to human error.

6.2 CLOSURE

The results, conclusions, and recommendations in this report were prepared following our inspection of suspected lead containing coatings at the subject property. Methods used by Mountain Consulting for this study are consistent with the standard of care and professionalism normally exercised by consultants in environmental science and engineering. The Client acknowledges that Mountain Consulting has been retained for the sole purpose of helping the Client to identify lead hazards, if any, associated with the subject structure(s).

It is agreed that Mountain Consulting has assumed responsibility only for performing this inspection and presenting this report and conclusions to the Client. The Client acknowledges that Mountain Consulting is not acting as an “agent” for the Client, or any other user or entity, for work associated with any lead containing materials. Mountain Consulting does not act or have authority to act for or in place of the Client or its successors or assigns.

Mountain Consulting does not represent the Client nor does it authorize or allow any construction, renovation, remodeling, maintenance, repair, or demolition work by performing this inspection. Mountain Consulting is not a licensed contractor.

STATEMENT OF PROFESSIONALISM

Mountain Consulting Services, LLC, hereby certify that, to the best of our knowledge and ability, the lead coatings survey performed for the suspect interior wall and ceiling coatings present throughout the Libby Center Facility located at 2900 East 1st Avenue in Spokane, Washington, reflects an accurate level of lead content for the identified materials and painted surfaces present with this structure.




David A. Jones

Certified Washington State Lead Risk Assessor

Certification: 0567

Expiration: February 16, 2013



Date

This report was prepared for the exclusive use of the Spokane Public schools - Facility Services and/or representatives thereof. It may be reproduced only in full and with the written permission of Mountain Consulting. The accuracy of this report is void unless the document remains unaltered and unabridged.

**APPENDIX A
INSPECTOR & LABORATORY
CERTIFICATIONS**

STATE OF WASHINGTON

Department of Community, Trade and Economic Development
Lead-Based Paint Program

David Jones

Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200 as a:

Risk Assessor

Certification #	Issuance Date	Expiration Date
0567	2/16/2007	2/16/2010

STATE OF WASHINGTON

Department of Commerce
Lead-Based Paint Program

David A. Jones

Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200 as a:

Risk Assessor

Certification #	Issuance Date	Expiration Date
0567	2/8/2010	2/16/2013



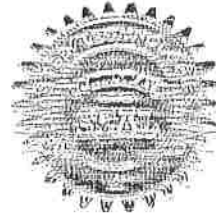
STATE OF WASHINGTON

Department of Commerce Lead-Based Paint Program

Mountain Consulting Services, LLC

Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200.

<u>Certification #</u>	<u>Issuance Date</u>	<u>Expiration Date</u>
0167	2/8/2010	4/2/2013

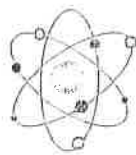


This is to certify that
David A. Jones

Has successfully completed a course of instruction in the safe operation of Gamma sourced portable XRF Devices manufactured by KeyMaster Technologies, Inc. This course covered Fundamentals of Radiation, State Licensing Regulation, Principles of XRF, Safety Regulations, and Environmental Sampling Theory.

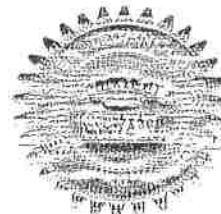
Date: February 16, 2007

Operator's Number: 8153



BASIC RADIATION SAFETY

Authorized Signature



This is to certify that
David A. Jones

has successfully completed a course of instruction in Basic MAP 4 Operations. This course covered Advanced Report Manager Coding, Sampling Practices and Protocols, XRF Field Testing, Acutransfer Operations and "MAP 4" Operations.

Date: March 9, 2007

Operator's Number: 8164

MAP 4



XRF OPERATOR

Authorized Signature



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
107 Haddon Avenue, Westmont, NJ 08108

Laboratory ID: 100194
Issue Date: 07/01/2010

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

Field of Testing (FoT)	Method	Method Description (for internal methods only)
Airborne Dust	NIOSH 7082	
	EPA SW-846 3050B	
	EPA SW-846 7420	
Settled Dust by Wipe	EPA SW-846 3050B	
	EPA SW-846 7420	
	EPA SW-846 3050B	
Soil	EPA SW-846 7420	
	EPA SW-846 7420	

The laboratory participates in the following AIHA-LAP, LLC approved proficiency testing programs:

- ✓ Paint
- ✓ Soil
- ✓ Settled Dust by Wipe
- ✓ Airborne Dust

Effective: 4/24/09
Scope_ELLAP_R4
Page 1 of 1



APPENDIX B

XRF CONFIRMED POSITIVE DATA

Mountain Consulting Services LLC
9922 East Montgomery Ave
Suite 9
Spokane WA 99206

Customer: Spokane Public Schools
2815 East Garland Avenue
Spokane, WA 99207

Project Name: Libby Center
2900 East 1st Avenue
Spokane, WA 99202

Site Name: Mountain Consulting No: 12-021.01

Confirmed Positives

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported

13

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
55770	0001	Classroom	1	North	Wall	Concrete	Intact	4.467 K	0.227 L	0		Pos
55772	0001	Classroom	1	South	Wall	Plaster	Intact	5.003 K	0.286 L	0		Pos
55773	0001	Classroom	1	West	Wall	Plaster	Intact	1.474 K	1.052 L	0		Pos
55789	0001	Classroom	5	South	Wall	Brick	Intact	1.240 K	-0.132 L	0		Pos
55794	0001	Bathroom	6	South	Wall	Concrete	Intact	2.770 K	0.041 L	0		Pos
55802	0001	Kitchen	8	North	Wall	Ceramic Tile	Intact	6.959 K	0.768 L	0		Pos
55804	0001	Kitchen	8	South	Wall	Concrete	Intact	7.766 K	0.818 L	0		Pos
55805	0001	Kitchen	8	South	Wall	Ceramic Tile	Intact	6.381 K	0.358 L	0		Pos
55812	0001	Gymnasium	1	North	Wall	Brick	Intact	14.819 K	2.655 L	0		Pos
55813	0001	Gymnasium	1	East	Wall	Brick	Intact	16.140 K	2.187 L	0		Pos
55816	0001	Gymnasium	1	West	Wall	Brick	Intact	24.484 K	2.129 L	0		Pos
55818	0001	Furnace Room	2	North	Wall	Brick	Deteriorated	12.263 K	3.162 L	0		Pos
55820	0001	Furnace Room	2	East	Wall	Brick	Deteriorated	15.027 K	2.676 L	0		Pos

**APPENDIX C
XRF SURVEY DATA &
CALIBRATIONS**

Mountain Consulting Services LLC
9922 East Montgomery Ave
Suite 9
Spokane WA 99206

Customer: Spokane Public Schools
2815 East Garland Avenue
Spokane, WA 99207

Project Name: Libby Center
2900 East 1st Avenue
Spokane, WA 99202

Site Name: Mountain Consulting No: 12-021.01

XRF and Lab Results

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported

55

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
55769	0001	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
55770	0001	Classroom	1	North	Wall	Concrete	Intact	4.467 K	0.227 L	0		Pos
55771	0001	Classroom	1	East	Wall	Plaster	Intact	0.504 K	0.079 L	0		Neg
55772	0001	Classroom	1	South	Wall	Plaster	Intact	5.003 K	0.286 L	0		Pos
55773	0001	Classroom	1	West	Wall	Plaster	Intact	1.474 K	1.052 L	0		Pos
55774	0001	Hallway	2	East	Wall	Plaster	Intact	-1.042 K	-0.531 L	0		Neg
55775	0001	Hallway	2	South	Wall	Concrete	Intact	-0.033 K	-0.149 L	0		Neg
55776	0001	Hallway	2	West	Wall	Concrete	Intact	0.167 K	-0.032 L	0		Neg
55777	0001	Bathroom	3	North	Wall	Ceramic Tile	Good	0.260 K	-1.357 L	0		Neg
55778	0001	Bathroom	3	North	Wall	Plaster	Intact	-0.184 K	0.161 L	0		Neg
55779	0001	Bathroom	3	East	Wall	Plaster	Intact	0.066 K	-0.041 L	0		Neg
55780	0001	Bathroom	3	South	Wall	Concrete	Intact	0.157 K	0.065 L	0		Neg
55781	0001	Bathroom	3	West	Wall	Plaster	Intact	-0.045 K	-0.221 L	0		Neg
55782	0001	Classroom	4	North	Wall	Concrete	Intact	0.245 K	0.182 L	0		Neg
55783	0001	Classroom	4	East	Wall	Concrete	Intact	0.300 K	-0.042 L	0		Neg
55784	0001	Classroom	4	South	Wall	Plaster	Intact	-0.100 K	-0.073 L	0		Neg
55785	0001	Classroom	4	West	Wall	Plaster	Intact	-1.137 K	0.012 L	0		Neg
55786	0001	Classroom	4	Floor	Floor	Wood	Stain Varnish	0.346 K	-0.001 L	0		Neg
55787	0001	Classroom	5	North	Wall	Plaster	Intact	0.214 K	0.054 L	0		Neg
55788	0001	Classroom	5	East	Wall	Plaster	Intact	-0.090 K	0.016 L	0		Neg
55789	0001	Classroom	5	South	Wall	Brick	Intact	1.240 K	-0.132 L	0		Pos

Mountain Consulting Services LLC
9922 East Montgomery Ave
Suite 9
Spokane WA 99206

XRF and Lab Results

Customer: Spokane Public Schools
2815 East Garland Avenue
Spokane, WA 99207

Project Name: Libby Center
2900 East 1st Avenue
Spokane, WA 99202

Site Name: Mountain Consulting No: 12-021.01

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported

55

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
55790	0001	Classroom	5	West	Wall	Plaster	Intact	-0.056 K	-0.301 L	0		Neg
55791	0001	Bathroom	6	North	Wall	Plaster	Intact	0.607 K	0.143 L	0		Neg
55792	0001	Bathroom	6	East	Wall	Plaster	Intact	0.148 K	0.032 L	0		Neg
55793	0001	Bathroom	6	East	Wall	Ceramic Tile	Good	0.364 K	-1.403 L	0		Neg
55794	0001	Bathroom	6	South	Wall	Concrete	Intact	2.770 K	0.041 L	0		Pos
55795	0001	Bathroom	6	West	Wall	Plaster	Intact	-0.742 K	0.290 L	0		Neg
55796	0001	Classroom	7	North	Wall	Brick	Intact	0.113 K	0.141 L	0		Neg
55797	0001	Classroom	7	East	Wall	Brick	Intact	0.354 K	-0.079 L	0		Neg
55798	0001	Classroom	7	South	Wall	Plaster	Intact	0.114 K	-0.172 L	0		Neg
55799	0001	Classroom	7	South	Wall	Sheetrock	Intact	-0.038 K	-0.008 L	0		Neg
55800	0001	Classroom	7	West	Wall	Sheetrock	Intact	0.490 K	0.201 L	0		Neg
55801	0001	Kitchen	8	North	Wall	Plaster	Intact	0.199 K	0.106 L	0		Neg
55802	0001	Kitchen	8	North	Wall	Ceramic Tile	Intact	6.959 K	0.768 L	0		Pos
55804	0001	Kitchen	8	South	Wall	Concrete	Intact	7.766 K	0.818 L	0		Pos
55805	0001	Kitchen	8	South	Wall	Ceramic Tile	Intact	6.381 K	0.358 L	0		Pos
55806	0001	Kitchen	8	Ceiling	Ceiling	Plaster	Intact	0.565 K	0.102 L	0		Neg
55807	0001	Dining Room	9	North	Wall	Brick	Intact	-0.629 K	0.193 L	0		Neg
55808	0001	Dining Room	9	North	Wall	Sheetrock	Intact	0.077 K	0.055 L	0		Neg
55809	0001	Dining Room	9	East	Wall	Sheetrock	Intact	0.019 K	0.163 L	0		Neg
55810	0001	Dining Room	9	South	Wall	Brick	Intact	-0.187 K	-0.055 L	0		Neg
55811	0001	Dining Room	9	West	Wall	Brick	Intact	-0.242 K	-0.162 L	0		Neg

Mountain Consulting Services LLC
9922 East Montgomery Ave
Suite 9
Spokane WA 99206

Customer: Spokane Public Schools
2815 East Garland Avenue
Spokane, WA 99207

Project Name: Libby Center
2900 East 1st Avenue
Spokane, WA 99202

Site Name: Mountain Consulting No: 12-021.01

XRF and Lab Results

Total Assays Reported										55		
Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2												
#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
55812	0001	Gymnasium	1	North	Wall	Brick	Intact	14.819 K	2.655 L	0		Pos
55813	0001	Gymnasium	1	East	Wall	Brick	Intact	16.140 K	2.187 L	0		Pos
55814	0001	Gymnasium	1	South	Wall	Brick	Intact	-0.354 K	-0.216 L	0		Neg
55815	0001	Gymnasium	1	West	Wall	Brick	Intact	0.239 K	-0.082 L	0		Neg
55816	0001	Gymnasium	1	West	Wall	Brick	Intact	24.484 K	2.129 L	0		Pos
55817	0001	Furnace Room	2	North	Wall	Brick	Deteriorated	-0.416 K	-0.120 L	0		Neg
55818	0001	Furnace Room	2	North	Wall	Brick	Deteriorated	12.263 K	3.162 L	0		Pos
55819	0001	Furnace Room	2	East	Wall	Brick	Deteriorated	-0.967 K	0.172 L	0		Neg
55820	0001	Furnace Room	2	East	Wall	Brick	Deteriorated	15.027 K	2.676 L	0		Pos
55821	0001	Furnace Room	2	Ceilin	Ceiling	Concrete	Deteriorated	-1.817 K	-0.129 L	0		Neg
55822	0001	Calibration	*	*	*	*	*	1.000 K	0.993 L	299		Incl
55823	0001	Calibration	*	*	*	*	*	1.030 K	1.005 L	299		Incl
55824	0001	Calibration	*	*	*	*	*	1.142 K	1.015 L	299		Incl

MAP4 DAILY CALIBRATION CHECK SAMPLE WORKSHEET

MAP4 Serial Number - M41299

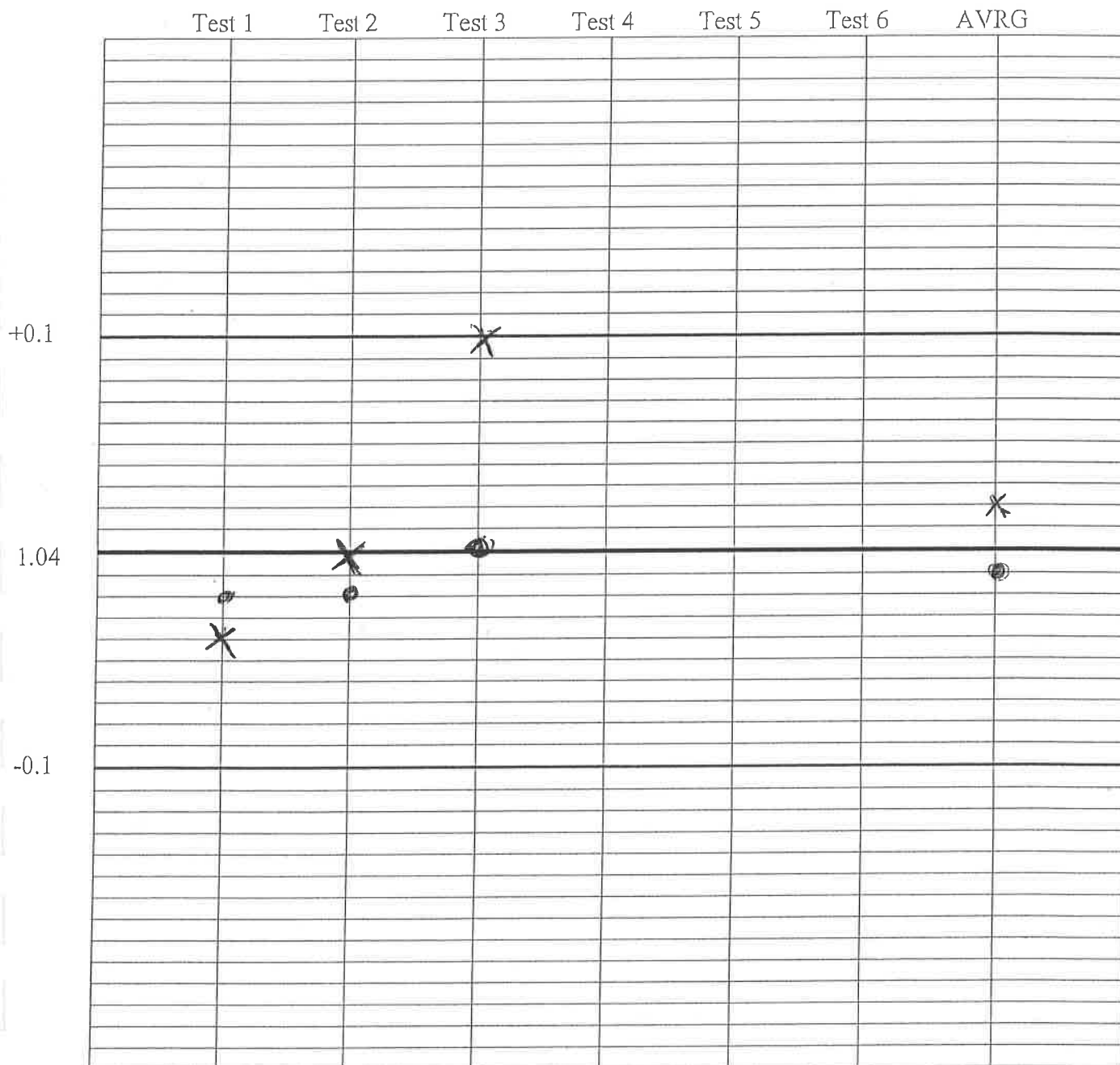
Location 2900 F 1st Ave

Factory Calibration Average - 1.04 mg/cm²

Job Number 12-021.01

Site 0001

DATE	TIME	TEST 1	TEST 2	TEST 3	TEST 4	TEST 5	TEST 6	AVERAGE
2-6-12	225PM	1.02	1.02	1.04				1.03
2-6-12	635PM	1.00	1.03	1.14				1.06



MAP Customer Number: 7808

XRF Project Number: 2101

Project No: 12-021.01
Limited Lead Coatings Survey

APPENDIX D XRF HUD DATA

February 22, 2012

Mountain Consulting Services, LLC

Mountain Consulting Services LLC
9922 East Montgomery Ave
Suite 9
Spokane WA 99206

Customer: Spokane Public Schools
2815 East Garland Avenue
Spokane, WA 99207

Project Name: Libby Center
2900 East 1st Avenue
Spokane, WA 99202

Site Name: Mountain Consulting No: 12-021.01

Single Family HUD Data Sheet

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 51

Map #	Room Tested	#	Grp	Wall	Component	Substrate	Paint Color	Paint Cond	K-Shell mg/cm2	Average	Lab	Result
0	Hallway	2	(GX)	East	Wall	Plaster	White	Intact	-1.042 K	-1.042		Neg
0	Hallway	2	(GX)	South	Wall	Concrete	White	Intact	-0.033 K	0.067		Neg
0	Hallway	2	(GX)	West	Wall	Concrete	White	Intact	0.167 K			
0	Kitchen	8	(GX)	North	Wall	Ceramic Tile	Blue	Intact	6.959 K	6.670		Pos
0	Kitchen	8	(GX)	South	Wall	Ceramic Tile	Blue	Intact	6.381 K			
0	Kitchen	8	(GX)	North	Wall	Plaster	White	Intact	0.199 K	0.199		Neg
0	Kitchen	8	(GX)	South	Wall	Concrete	White	Intact	7.766 K	3.484		Pos
0	Kitchen	8	(GX)	Ceilin	Ceiling	Plaster	White	Intact	0.565 K	0.565		Neg
0	Bathroom	3	(GX)	North	Wall	Ceramic Tile	Grey	Good	0.260 K	0.260		Neg
0	Bathroom	6	(GX)	East	Wall	Ceramic Tile	Grey	Good	0.364 K	0.364		Neg
0	Bathroom	3	(GX)	North	Wall	Plaster	White	Intact	-0.184 K	-0.054		Neg
0	Bathroom	3	(GX)	East	Wall	Plaster	White	Intact	0.066 K			
0	Bathroom	3	(GX)	West	Wall	Plaster	White	Intact	-0.045 K			
0	Bathroom	6	(GX)	North	Wall	Plaster	White	Intact	0.607 K	0.004		Neg
0	Bathroom	6	(GX)	East	Wall	Plaster	White	Intact	0.148 K			
0	Bathroom	6	(GX)	West	Wall	Plaster	White	Intact	-0.742 K			
0	Bathroom	3	(GX)	South	Wall	Concrete	White	Intact	0.157 K	0.157		Neg
0	Bathroom	6	(GX)	South	Wall	Concrete	White	Intact	2.770 K	2.770		Pos
0	Dining	9	(GX)	North	Wall	Sheetrock	White	Intact	0.077 K	0.048		Neg
0	Dining	9	(GX)	East	Wall	Sheetrock	White	Intact	0.019 K			

Mountain Consulting Services LLC
9922 East Montgomery Ave
Suite 9
Spokane WA 99206

Single Family HUD Data Sheet

Customer: Spokane Public Schools
2815 East Garland Avenue
Spokane, WA 99207

Project Name: Libby Center
2900 East 1st Avenue
Spokane, WA 99202

Site Name: Mountain Consulting No: 12-021.01

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2 Total Assays Reported 51

Map #	Room Tested	#	Grp	Wall	Component	Substrate	Paint Color	Paint Cond	K-Shell mg/cm2	Average	Lab	Result
0	Dining	9	(GX)	North	Wall	Brick	White	Intact	-0.629 K	-0.353		Neg
0	Dining	9	(GX)	West	Wall	Brick	White	Intact	-0.242 K			
0	Dining	9	(GX)	South	Wall	Brick	Blue	Intact	-0.187 K			Neg
0	Furnace	2	(GX)	North	Wall	Brick	White	Deteriorated	-0.416 K	6.477		Neg
0	Furnace	2	(GX)	East	Wall	Brick	White	Deteriorated	-0.967 K			
0	Furnace	2	(GX)	North	Wall	Brick	Grey	Deteriorated	12.263 K			Pos
0	Furnace	2	(GX)	East	Wall	Brick	Grey	Deteriorated	15.027 K			
0	Furnace	2	(GX)	Ceilin	Ceiling	Concrete	White	Deteriorated	-1.817 K	-1.817		Neg
0	Classroom	7	(GX)	South	Wall	Sheetrock	White	Intact	-0.038 K	0.226		Neg
0	Classroom	7	(GX)	West	Wall	Sheetrock	White	Intact	0.490 K			
0	Classroom	1	(GX)	East	Wall	Plaster	White	Intact	0.504 K	2.327		Neg
0	Classroom	1	(GX)	South	Wall	Plaster	White	Intact	5.003 K			
0	Classroom	1	(GX)	West	Wall	Plaster	White	Intact	1.474 K			
0	Classroom	4	(GX)	South	Wall	Plaster	White	Intact	-0.100 K	-0.619		Neg
0	Classroom	4	(GX)	West	Wall	Plaster	White	Intact	-1.137 K			
0	Classroom	5	(GX)	North	Wall	Plaster	White	Intact	0.214 K	0.023		Neg
0	Classroom	5	(GX)	East	Wall	Plaster	White	Intact	-0.090 K			
0	Classroom	5	(GX)	West	Wall	Plaster	White	Intact	-0.056 K			
0	Classroom	7	(GX)	South	Wall	Plaster	White	Intact	0.114 K	0.114		Neg
0	Classroom	1	(GX)	North	Wall	Concrete	White	Intact	4.467 K	4.467		Pos

Mountain Consulting Services LLC
9922 East Montgomery Ave
Suite 9
Spokane WA 99206

Single Family HUD Data Sheet

Customer: Spokane Public Schools
2815 East Garland Avenue
Spokane, WA 99207

Project Name: Libby Center
2900 East 1st Avenue
Spokane, WA 99202

Site Name: Mountain Consulting No: 12-021.01

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 51

Map #	Room Tested	#	Grp	Wall	Component	Substrate	Paint Color	Paint Cond	K-Shell mg/cm2	Average	Lab	Result
0	Classroom	4	(GX)	North	Wall	Concrete	White	Intact	0.245 K	0.273		Neg
0	Classroom	4	(GX)	East	Wall	Concrete	White	Intact	0.300 K			
0	Classroom	5	(GX)	South	Wall	Brick	White	Intact	1.240 K	1.240		Pos
0	Classroom	7	(GX)	North	Wall	Brick	White	Intact	0.113 K	0.234		Neg
0	Classroom	7	(GX)	East	Wall	Brick	White	Intact	0.354 K			
0	Classroom	4	(GX)	Floor	Floor	Wood	Other	Stain	0.346 K	0.346		Neg
0	Gymnasium	1	(GX)	North	Wall	Brick	White	Intact	14.819 K	11.066		Pos
0	Gymnasium	1	(GX)	East	Wall	Brick	White	Intact	16.140 K			
0	Gymnasium	1	(GX)	South	Wall	Brick	White	Intact	-0.354 K			
0	Gymnasium	1	(GX)	West	Wall	Brick	White	Intact	0.239 K			
0	Gymnasium	1	(GX)	West	Wall	Brick	White	Intact	24.484 K			

**APPENDIX E
BULK COATING SAMPLE
ANALYSIS REPORT**



Lead & Metals Chain of Custody

EMSL Order Number (Lab Use Only):

201201143

Westmont--Chemistry-Lead-Metals--MOVES I
200 Route 130 Nor
Cinnaminson, NJ 0807
PHONE: 1-800-220-367
FAX: (856) 858-496

Company: Mountain Consulting Services LLC

Street: 9922 East Montgomery Drive Suite 9

City/State/Zip: Spokane, WA 99206

Report To (Name): David Jones

Telephone: 509-024-9236

Project Name/Number: 12-021-01

Please Provide Results: Email

Purchase Order:

State Samples Taken: WA

EMSL-Bill to: ☒ Same ☐ Different

If Bill to is Different note instructions in Comments*

Third Party Billing requires written authorization from third party

Fax: 509-824-2287

Email Address: djones@mountainconsultingllc.com

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour☐ 5 Hour☐ 24 Hour☒ 48 Hour☐ 72 Hour☐ 96 Hour☐ 1 Week☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> mg/cm ² <input checked="" type="checkbox"/> % by wt.	SW846-7000B/7420 or AOAC 974.02	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B/7420	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	0.5 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7420/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7421	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	<input type="checkbox"/>
Wastewater	SM 3111B or SW846-7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	<input type="checkbox"/>
Drinking Water	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>

Other:

Preservation Method (Water):

Name of Sampler: Dave Jones

Signature of Sampler: *[Signature]*

Sample #	Location	Volume/Area	Date/Time Sampled
12-021-01-PB01	RM 105 White on plaster	2 in ²	2-6-12 PM
PB02	RM 101 White on plaster	2 in ²	
PB03	RM 101 60 ID Varnish on flooring	2 in ²	
PB04	RM 126 White on dry wall	2 in ²	
PB05	RM 126 White on CMU wall	2 in ²	
PB06	RM 132 Blue on CMU	2 in ²	

Client Sample #'s

Total # of Samples:

Relinquished (Client): *[Signature]*

Date:

2-7-12

Time:

Febr 13

Received (Lab): *[Signature]*

Date:

2/8/12

Time:

9:31 AM

Comments/Special Instructions:



EMSL Order Number *(Lab Use Only)*:

761201143

Westmont—Chemistry—Lead—Metals—MOVES to:
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 858-4960

[illegible]

Controlled Document – Lead & Metals COC – LM-1.0 – 11/23/2009

Page ____ of ____ Pages

2017-FEB-03 AM 9:31

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 858-4800 Fax: (856) 858-9551 Email: westmontleadlab@emsl.com

Attn: **David A. Jones**
Mountain Consulting Services, LLC
9922 East Montgomery Avenue
Suite 9
Spokane Valley, WA 99206

Customer ID: MCS50
Customer PO:
Received: 02/08/12 9:31 AM
EMSL Order: 201201143

Fax: Phone: (509) 924-9236
Project: 12-021.01

EMSL Proj:

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
12-021.01-PB01	0001	2/6/2012	2/8/2012	0.030 % wt
Site: Rm 215 White on Plaster				
12-021.01-PB02	0002	2/6/2012	2/8/2012	0.11 % wt
Site: Rm 101 White on Plaster				
12-021.01-PB03	0003	2/6/2012	2/8/2012	<0.069 % wt
Site: Rm 101 Gold Varnish on Flooring				
12-021.01-PB04	0004	2/6/2012	2/8/2012	<0.010 % wt
Site: Rm 126 White on Drywall				
12-021.01-PB05	0005	2/6/2012	2/8/2012	<0.029 % wt
Site: Rm 126 White on CMU Wall				
12-021.01-PB06	0006	2/6/2012	2/8/2012	<0.012 % wt
Site: Rm 132 Blue on CMU				
12-021.01-PB07	0007	2/6/2012	2/8/2012	<0.010 % wt
Site: Rm 147 Off White on CMU				
12-021.01-PB08	0008	2/6/2012	2/8/2012	0.019 % wt
Site: Lower Boiler Rm 150 Off White on Concrete				

Initial report from 02/08/2012 18:39:53

Julie Smith - Laboratory Director
NJ-NELAP Accredited:04653
or other approved signatory

Reporting limit is 0.010 % wt based on a 0.2 gram sample weight. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 04653, NY 10896, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

APPENDIX F
SAMPLE LOCATION DRAWINGS
AND PHOTOGRAPHS



○ SAMPLE LOCATION
DRAWING NOT TO SCALE



9922 E Montgomery Dr. Suite #9
Spokane, WA 99206
Telephone 509-924-9236

FLOOR PLANS AND SAMPLE SITE LOCATIONS
LIBBY CENTER 2900 EAST 1ST AVE SPOKANE, WA

DRAWN BY:
D.JONES

CHECKED BY:
SB

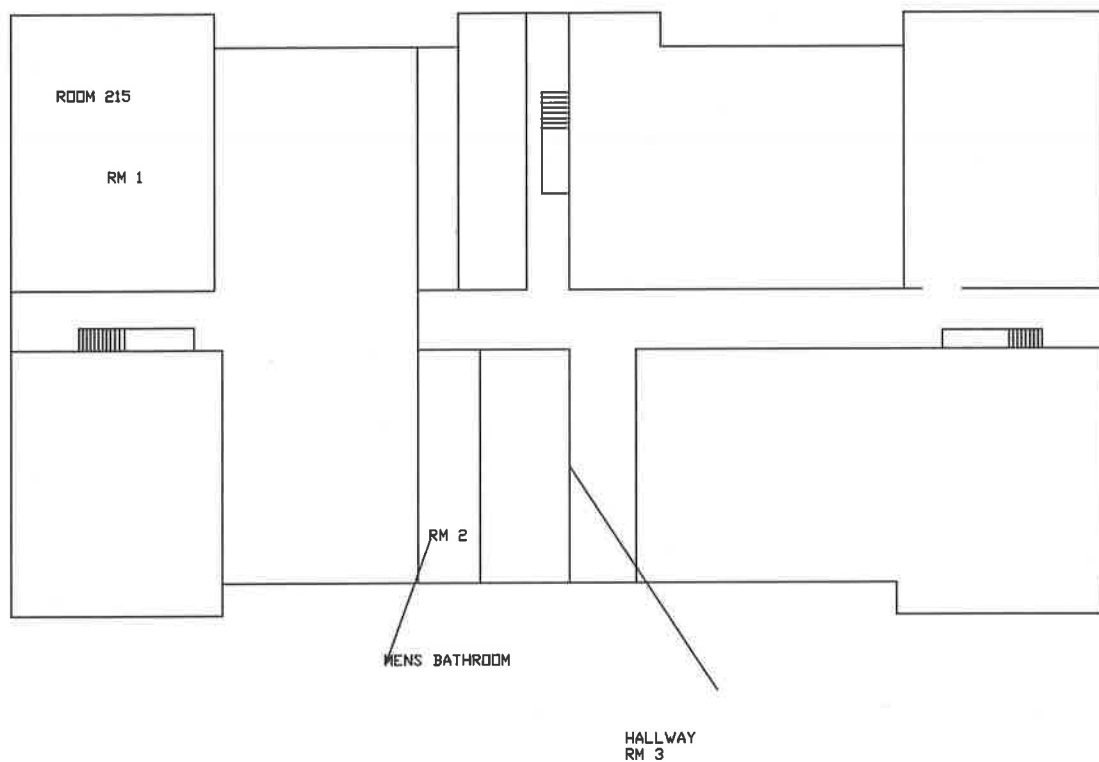
APPROVED:
2 /15/12

PAINT CHIP
SAMPLE LOCATION

Mountain
Consulting
Project No.
12-021.1

DRAWING No.
1
OF
1
DRAWINGS

N
↑
BUILDING
NORTH



2ND FLOOR

○ SAMPLE LOCATION
DRAWING NOT TO SCALE



9922 E Montgomery Dr. Suite #9
Spokane, WA 99206
Telephone 509-924-9236

FLOOR PLANS AND SAMPLE SITE LOCATIONS LIBBY CENTER 2900 EAST IST AVE SPOKANE, WA

DRAWN BY:
D.JONES

CHECKED BY:
SB

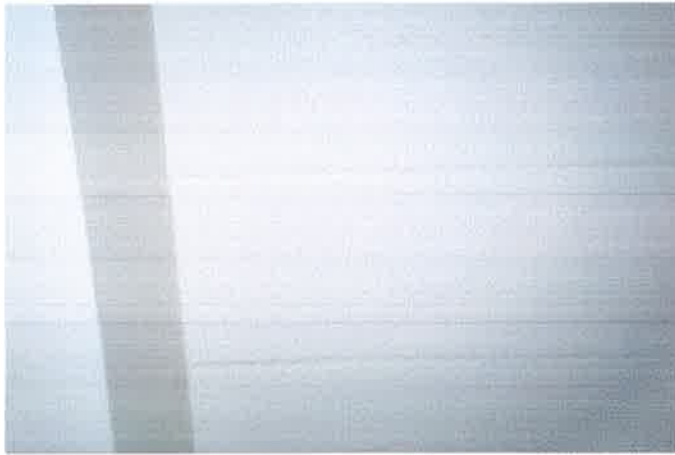
APPROVED:
2 /15/12

PAINT CHIP
SAMPLE LOCATION

Mountain
Consulting
Project No.
12-021.1

DRAWING No.
1
OF
2
DRAWINGS

N
↑
BUILDING
NORTH



WHITE CMU COATING



BLUE CERAMIC TILING



BASMENT BOILER ROOM

LEAD HAZARD WORK PLAN

TO FACILITATE A FIRE SPRINKLER UPDATE FOR THE SCHOOL
BUILDING (LIBBY CENTER) LOCATED AT 2900 EAST 1ST AVENUE IN
SPOKANE, WASHINGTON

Prepared for

Spokane Public schools - Facility Services

2815 East Garland Avenue

Spokane, WA 99207

Prepared by

Mr. David A. Jones

Washington State Lead Risk Assessor

Certification: 0567; Expiration: February 16, 2013

Mountain Consulting Services, LLC

9922 East Montgomery Drive, Suite 9

Spokane Valley, Washington

February 22, 2012

Note: The following work plan is
provided as a guide for work within the
Libby Center Classroom Remodel
Work Area. Comply with current codes
and standards for work practices.

Mountain Consulting Services, LLC

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APPENDICES

- A Designer Certification

DIVISION 02 85 00

LEAD HAZARD WORK PLAN

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RELATED DOCUMENTS:

Drawings and general provisions of contract, including general and supplementary general conditions and other division-1 specification sections, apply to this division.

1.01 PROJECT IDENTIFICATION

PROJECT NAME:	Interior remodel to facilitate sprinkler system update Libby Center 2900 East 1 st Avenue Spokane, Washington 99202
PROJECT DESCRIPTION:	The project consists of the interior remodel to facilitate a fire sprinkler upgrade. Lead containing paint and ceramic tile glazing components were identified with the structures included with this project.

1.02 REFERENCE DOCUMENTS

Chapter 296-62, Washington Administrative Code, General Occupational Health Standards
Chapter 296-62-0721, Part I, Washington Administrative Code, Lead
Chapter 296-155, Safety Standard for Construction Work
29 CFR 1926.62 OSHA Lead in Construction Standard
29 CFR 1910.1025 OSHA Lead General Industry Standards

1.03 DEFINITIONS

- A. ACTION LEVEL for Lead: Means exposure, without regard to the use of respirators, to an airborne concentration of lead equal to 30 micrograms per cubic meter of air when calculated as an 8-hour time weighted average (TWA).
- B. AUTHORIZED PERSON: Means any person authorized by the employer and required by work duties to be present in a regulated area.

- C. **COMPETENT PERSON:** Means one who is capable of identifying existing and predictable hazards in the workplace and selecting the appropriate control strategy for exposure, and who has the authority to take prompt corrective measures to eliminate them.
- D. **DECONTAMINATION AREA:** Means an area adjacent to and connected to a regulated area and consisting of an equipment room, shower area, and clean room, which is used for the decontamination of workers, materials, and equipment contaminated with hazardous material.
- E. **ENVIRONMENTAL ENGINEER:** Means the owner or general contractors, environmental consultant, for this project the Mountain Consulting is the environmental engineer.
- F. **EMPLOYEE EXPOSURE:** Means that exposure to airborne hazardous materials that would occur if the worker were not using respiratory protective equipment.
- G. **LEAD CONTAINING MATERIAL (LCM):** Mean any detectable amount of metallic lead, all inorganic lead compounds, and organic lead soaps. Excluded from this definition are all other organic lead compounds.
- H. **PERMISSIBLE EXPOSURE LIMIT:** Means an Occupational Safety and Health Administration (OSHA) standard designating the maximum occupational exposure permitted as an 8-hour time weighted average.
 - 1. **THE PERMISSIBLE EXPOSURE LIMIT:** For lead based on an 8-hr TWA is 50 micrograms per cubic meter of air.
 - 2. **ACTION LIMIT FOR AIRBORNE LEAD:** For airborne lead concentrations on an 8-hr TWA is 30 micrograms per cubic meter of air.
- H. **REGULATED AREA:** Mean an area established by the employer to demarcate areas where hazardous work is conducted, and any adjoining areas where debris and waste from such work accumulates, and a work area within which airborne concentrations exceed or can reasonably be expected to exceed the permissible exposure limit.
- I. **8-HOUR TIME WEIGHTED AVERAGE (8-Hr TWA):** Means the eight-hour average value of a parameter; a concentration of a material in air that varies over time.

1.04 SUMMARY OF THE WORK / SUBMITTALS

- A. For this project regulated lead containing material in the form of paint coatings and glazed ceramic tiling's were identified on select interior components associated with the included structure for this project.

- B. The Washington State Department of Ecology (WDOE) dangerous waste regulations Toxic Characteristic Leaching Procedure (TCLP) sampling of non recyclable lead containing waste streams for this project HAS NOT BEEN CONDUCTED.
- C. OSHA and WISHA worker health and safety regulations apply to this project. In order to protect, the health of workers and the general public all personnel evolved in the demolition site process shall be lead awareness trained using accepted lead safe work practices and proper personnel protective equipment (PPE) until initial and/or negative exposure assessments have been achieved and/or accomplished. The renovation contractor shall submit any prior negative exposure assessment (NEA) data to the Owners Environmental Engineer for review. The Owners Environmental Engineer will decide in writing if the prior NEA data is current and/or acceptable for this project.
- D. The general contractor or sub-contractors shall submit copies of all personnel lead awareness training certificates; a site plan detailing decontamination facility locations and routs of entry/egress points; and a site specific health and safety plan (HASP) that will incorporate the requirements of this lead hazard work plan. The Owners Environmental Engineer will respond in writing with any requited changes or with notice to proceed.

1.05 LEAD AIR MONITORING AND DEMOITION PROCEDURES

1.05.01 GENERAL INFORMATION AND REQUIREMENTS

- A. Lead based painted (LBP) and lead glazed ceramic tile materials were identified on select components associated with the interior of the building. The following tables detail the building components coated with LBP and Lead Glazing.

Libby Center Facility 2900 East 1st Avenue Lead Coated Components by XRF Testing	
Components	Range in mg/cm²
All Interior White Painted Plaster Walls and Ceilings (with the exception of the newer main Level west addition)	5.03 mg/cm ²
All Interior White Painted Concrete Walls (with the exception of the newer main Level west addition)	2.770 to 7.766 mg/cm ²
All White Painted 2x4x8 Masonry Brick Walls (with the exception of the newer main Level west addition)	14.819 to 24.484 mg/cm ²
Blue Glazed Ceramic Wall Tiling (Kitchen)	6.381 to 6.959 mg/cm ²
All White Painted CMU Walls	1.24 mg/cm ²

(with the exception of the newer main Level west addition)	
Grey Painted CMU Walls (Boiler Room Lower Walls Deteriorated Condition)	12.263 to 15.027 mg/cm ²

B. mg/cm² = micrograms per cubic centimeter.

Sample No:	Libby Center 2900 East 1 st Avenue Tested Coating by Paint scrape	%wt	ppm
Pb01	Interior White Plaster Walls Coating	0.030 %wt	300 ppm
Pb02	Interior White Plaster Ceilings Coating	0.11 %wt	1,100 ppm
Pb03	Gold Varnish on wood Flooring	< 0.069 %wt	<690 ppm
Pb04	Interior White Drywall Coating (Lower New West Addition)	<0.010 %wt	<100 ppm
Pb05	Interior White CMU Walls Coating	<0.029 %wt	<290 ppm
Pb06	Interior Blue CMU Walls Coating	< 0.012 %wt	<120 ppm
Pb07	Interior Off White Wall Coating on CMU (Lower New West Addition)	<0.010 %wt	<100 ppm
Pb08	Interior Off White Wall Coating on CMU Boiler Room Upper Walls	0.019 %wt	190 ppm

Note: 1.0 %wt = 10,000 parts per million, Bold = indicated regulated lead coating.

- C. All site personnel involved in the demolition activities that will impact these lead containing materials will comply with the requirements set forth in the Lead in Construction Standard (29 CFR 1926.62) and Chapters 296-62 and 296-155 of the Washington Administrative Code, requiring that when any amount of lead is present the employer must: 1) identify lead containing materials, 2) conduct an exposure assessment (air monitoring) of all affected employees, 3) provide appropriate personal protective equipment (PPE), 4) conduct an exposure assessment while working with leaded materials, 5) enroll affected employees in a medical surveillance program, 6) provide lead training for employees, and 7) provide appropriate decontamination facilities to affected employees.

1.05.02 EXPOSURE AIR SAMPLING PROCEDURES

- A. **NEGATIVE EXPOSURE ASSESSMENT:** Chapter 296-62-0721, WAC requires that all operations not covered by a negative exposure assessment be performed in respiratory protection until such a time that an initial/negative exposure assessment can be prepared.
 - 1. A competent person proficient in air sampling techniques should conduct an exposure assessment immediately before or at the initiation of the operation to ascertain expected airborne lead exposure during renovation demolition operations. The assessment must be completed in time to comply with the requirements triggered by exposure data or lack of a negative exposure assessment and to provide information necessary to assure that all control systems planned are appropriate for the operations and will work properly.
- B. **RENOVATION/DEMOLITION ACTIVITIES:** Demolition activities will be completed indoors and outdoors. All indoor activities that will impact lead based paint or lead material will be conducted with critical barriers and proper demarcation, using proper interim or abatement engineering controls to separate the work from building occupants.
- C. **REGULATED WORK AREAS:** Establish a regulated work area for all renovation/demolition activities and/or areas.
 - 1. The regulated area will be demarcated in any manner that minimizes the number of persons within the area and protects persons outside the area from exposure to any possible airborne lead concentrations

in excess of the PEL.

2. Access to the regulated area will be limited to persons authorized by the general contractor who have successfully completed at least the requirements for lead awareness training, the Washington Industrial Safety and Health Act, or regulations issued pursuant thereto.
 3. Until a negative exposure assessment has been achieved, each person entering the controlled work area will be required to use a respirator, selected according to Part E, Chapter 296-62-071 WAC. The minimum protection shall be a half face negative pressure air purifying respirator equipped with P-100 HEPA filter canisters.
 4. Until a negative exposure assessment has been achieved, each person entering the controlled work area will be required to wear protective clothing, selected according to Chapter 296-62-07521 (8), WAC.
 5. Persons inside the regulated area will not eat drink, smoke, chew tobacco products or gum, or apply cosmetics.
- D. WARNING SIGNS: Will be displayed at each access location to the controlled regulated work areas. In addition, warning signs will be posed at all approaches to the regulated area and at such a distance that persons may read the sign in sufficient time to take the necessary protective steps before entering the work area.
1. Warning signs will bear the following information:

**WARNING
LEAD WORK AREA
POISON
NO SMOKING OR EATING
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA**

- E. COMPETENT PERSON: The general contractor is required to supply a competent person who will have the qualifications and authority for ensuring worker safety and health as required by Chapter 296-155 and Chapter 296-62, WAC.
1. The competent person will do or directly supervise the following duties as applicable:

- a. Set up the regulated control areas,
- b. Ensure by daily on-site inspection the integrity of the regulated and contamination control areas,
- c. Set up procedures to control entry and exit from the regulated area,
- d. Supervise all exposure monitoring required and ensure it is conducted as required by Chapter 296-62-07521 (5), WAC,
- e. Ensure that all workers within the controlled area wear protective clothing and respirators as required by Chapter 296-62-07521, WAC,
- f. Ensure through on-site supervision that workers set up engineering controls, use work practices and personal protective equipment in compliance with all requirements,
- g. Ensure that workers use the hygiene facilities and observe the decontamination procedures specified in Chapter 296-62-07521, WAC,
- h. Ensure through daily on-site inspection engineering controls are functioning properly and workers are using proper work practices.

F. METHODS OF COMPLIANCE: Engineering Controls and Work Practices shall be instituted to reduce and maintain worker exposure to or below the OSHA Action Level, at the point where it is obvious that renovation/ demolition activities are not producing elevated airborne lead levels by air monitoring data (negative exposure assessment) the competent person may elect to down-grade PPE while still maintaining the following:

1. Continuous Use of wet methods,
2. Proper use of hand tools and mechanical construction equipment in a manner that does not generate visible dust,
3. The Owners Environmental Engineer shall conduct initial and periodic environmental area lead air monitoring to ensure that lead air levels are below the PEL.
4. The Owner will not be performing air monitoring to meet the Contractor's OSHA and WISHA requirements for personnel sampling or any other purpose.

1.05.03 AIR MONITORING

- A. MONITORING: Will be performed by persons having a thorough understanding of monitoring principles and procedures and who can demonstrate proficiency in sampling techniques. Samples will be evaluated using Flame Atomic Absorption (FAA) NIOSH 7082 analytical methods.
1. DAILY AND PERIODIC MONITORING: the Owners Environmental Engineer will conduct periodic air monitoring that is representative of the exposure of each regulated work area, unless a negative exposure assessment has been prepared and representative to the operations.
 2. PERSONAL AIR MONITORING: the contractor shall collect samples from the breathing zone, that are representative of each work area within each regulated work area to an 8-hr time weighted average (TWA) to obtain a negative exposure assessment.
 3. SAMPLES: Will be collected on 37-millimeter diameter cassette with 0.8-micrometer pore size mixed cellulose ester filter elements at a rate of 1.5 to 2.5 liters of air per minute.
 4. EIGHT-HOUR TWA: Will be determined on the basis of one (1) or more samples representing full shift exposure for each shift for workers in each job assignment in each work area.
 5. RESULTS: The contractor shall submit all personnel air sample results to the Owners Environmental Engineer within 48 hours of receipt.
- B. ENVIRONMENTAL WORK AREA SAMPLES: A minimum of one (1) location, for each work area shall be sampled daily around the Regulated Work Areas.
1. A minimum of 1,200 liters of air will be collected on a 37-millimeter diameter cassette with a 0.8 micrometer mixed cellulose ester filter element and at a rate of 5 to 10 liters of air per minute.

1.05.04 RESPIRATORY PROTECTION

- A. All workers shall be provided and required to wear respiratory protection as required by Chapter 296-62-07521 (7), WAC, and the following table:

Airborne Concentration of Lead or Condition of Use	Required Respirators ⁽¹⁾
Not in excess of 0.5 mg/m ³ (10 x PEL)	Half-face, Negative Pressure Air Purifying Respirator equipped with P-100 High Efficiency Filters ⁽²⁾
Not in excess of 2.5 mg/m ³ (50 x PEL)	Full-face, Negative Pressure Air Purifying Respirator equipped with P-100 High Efficiency Filters
Not in excess of 50 mg/m ³ (1000 x PEL)	(1) Any Powered Air Purifying Respirator (PAPR) equipped with P-100 High Efficiency Filters (2) Any Half Face supplied air respirator operated in a positive-pressure mode ⁽²⁾
Not in excess of 100 mg/m ³ (2000 x PEL)	Supplied air respirator with a full face piece, hood, helmet operated in a positive pressure mode and equipped with emergency escape P-100 High Efficiency Filters ⁽²⁾
Greater than 100 mg/m ³ , unknown concentrations or fire fighting	Full face piece, self-contained breathing apparatus operated in a positive pressure mode

- (1) Respirators specified for a high concentration can be used in lower concentrations.
- (2) Full face piece is required if the lead aerosol cause eye or skin irritation at the use concentration.

- B. RESPIRATORY PROTECTION: is required in the following circumstances:

1. Prior to the preparation of a negative exposure assessment.
2. Combination organic vapor and P-100 HEPA filter cartridges will be supplied for air-purifying respirators when workers are exposed to chemical vapors as well as particulate hazards.
3. Employees may request and shall be provided a loose fitting powered air-purifying (PAPR) respirator in lieu of any type negative pressure respirator.
4. The contractor shall submit to the Owners Environmental Engineer copies of all personnel's current qualitative respirator fit test

certifications.

1.05.05 PROTECTIVE WORK CLOTHING AND EQUIPMENT

- A. All workers will be provided and required to wear protective work clothing and equipment during the negative exposure assessment process and/or demolition activities. The minimum protective work clothing will be:
 - 1. Disposable coveralls with head coverings, as appropriate,
 - 2. Leather, Canvas or Rubber gloves,
 - 3. Substantial Footwear (canvas or nylon tennis shoes are not considered to be substantial footwear)
 - 4. Respirators as appropriate,
 - 5. Hard hats and other safety related equipment will be provided as necessary.

1.05.06 HYGIENE FACILITIES AND PRACTICES

- A. The decontamination facility will consist of a controlled entry point, consisting of a clean area, wash station or shower area, and equipment area. The equipment area will be supplied with impermeable, labeled bags and containers for the proper disposal of single use protective equipment.
- B. All workers will be required to egress the work area through the decontamination facility to ensure that protective clothing and equipment worn during the work shift are disposed of properly or decontaminated and cleaned for future work activities.
- C. If a shower facility is provided it shall comply with Chapter 296-24-12009 (c), WAC and be supplied with hot and cold water and will be adjustable from within the shower without outside assistance. Water from the shower will be filtered by a cascade type filter consisting of a primary filter that will remove particles larger than 20 microns and a secondary filter that will remove particles as small as 5 microns.
- D. Hand washing facilities shall consist of fresh water and washbasins so that workers can wash their face and hands prior to departing the worksite. The hand washing station shall be equipped with sufficient amounts of

soap and disposable towels.

- E. All workers entering the contamination control area without exception will pass through the decontamination access area for entry into and exit from the work area for any purpose. No parallel routes of entry will be permitted except for disposal transportation vehicle access.
- F. For transportation vehicle drivers, PPE should be donned upon exiting the vehicle within the regulated work area, until a negative exposure assessment has been achieved.
- G. All workers will remove and dispose of or decontaminate all personal protective equipment in the equipment area of the decontamination facility.

1.05.07 DISPOSAL & MANAGEMENT OF LEAD CONTAINING MATERIALS DEBRIS

Note: Anticipated non-recyclable demolition lead containing waste streams have not been tested.

- A. Any lead containing wastes that are to be stored on-site prior to disposal shall be properly containerized and stored in a secure location with proper demarcation. The secured storage location must be approved in writing by the Owners Environmental Engineer prior to its use.
- B. All personnel lead air sample information and waste disposal manifests must be submitted to the Owners Environmental Engineer for review and/or authorization signature prior to transportation for disposal.
- C. Lead containing wastes may be recycled. Example: metal window frames, metal door frames, etc... If recycling is conducted then waste stream TCLP sampling is not required, however recycler release forms will be required for closeout documentation.

END OF DIVISION 02 85 00

Interior Remodel to facilitate fire Sprinkler
system
2900 EAST 1ST AVENUE
PROJECT NO. 12-021.01

APPENDIX A DESIGNER CERTIFICATION

STATE OF WASHINGTON

Department of Commerce

Lead-Based Paint Program

David A. Jones

Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200 as a:

Risk Assessor

Certification #	Issuance Date	Expiration Date
0567	2/8/2010	2/16/2013

STATE OF WASHINGTON

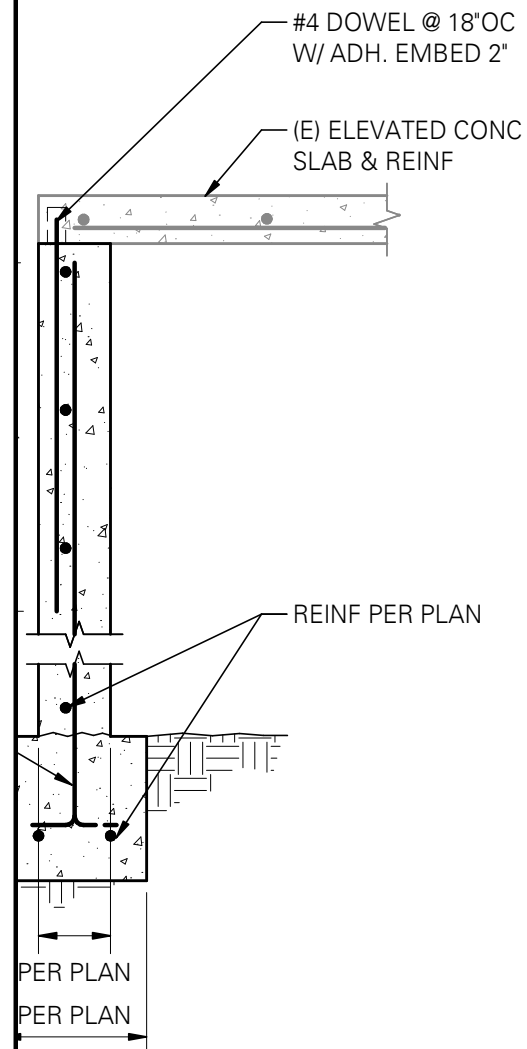
Department of Commerce

Lead-Based Paint Program

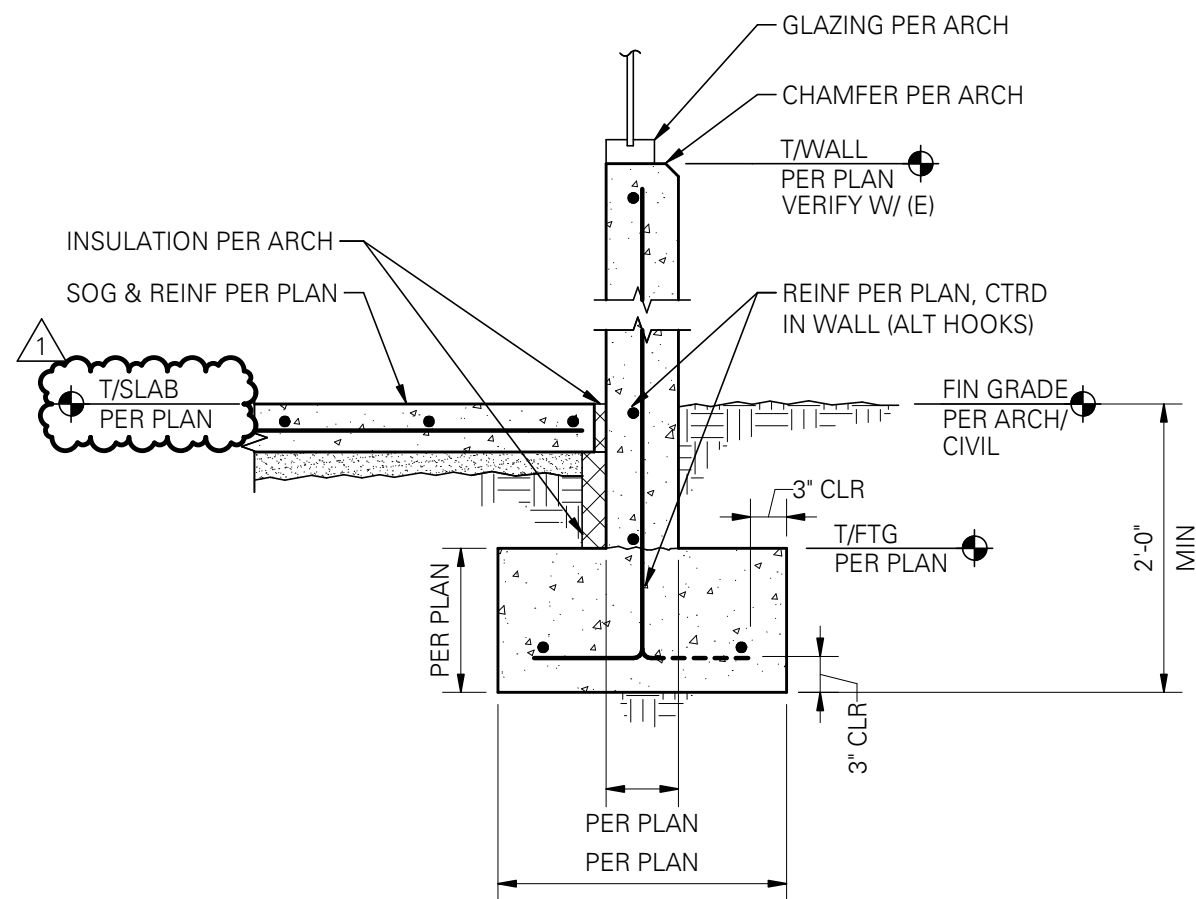
Mountain Consulting Services, LLC

Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200:

Certification #	Issuance Date	Expiration Date
0167	2/8/2010	4/2/2013



**STEMWALL AT EXISTING
CONCRETE SLAB**



NOTE:

BOTTOM OF FOOTING TO MATCH
BOTTOM OF EXISTING FOOTING.

4

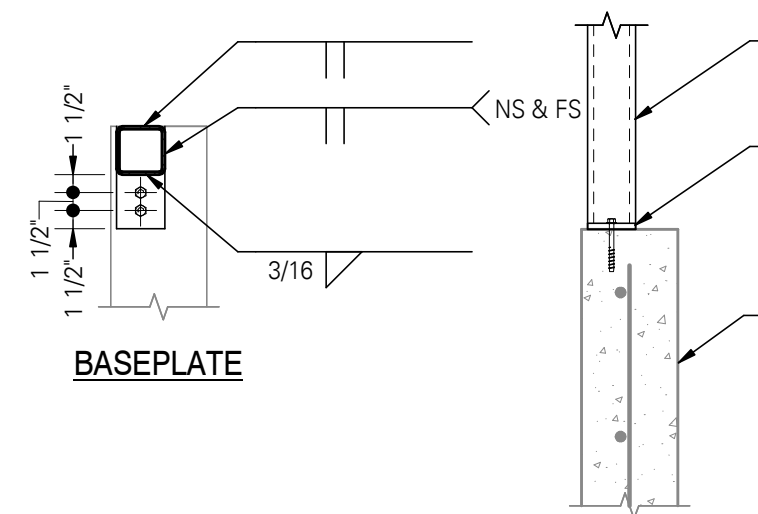
EXTERIOR FOOTING AND STEMWALL AT GLAZING

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

5

COLUMN AT EXISTING STEMWALL

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



ALSC
ARCHITECTS

PROJECT
LIBBY CENTER
CLASSROOM REMODEL
21041-0011

ADDENDUM # 02

DATE	DRAWN	DWG. NO.	JOB NO.	REF. SHT.
2021-04-20	DJM	SC-03	21041-0011	S-210
DESCRIPTION REVISED 4/S-210				

TIES AND CROSSTIES FOR SHEAR WALL
BOUNDARY ELEMENTS SHALL BE
DETAILED AS COLUMN TIES/CROSSTIES.

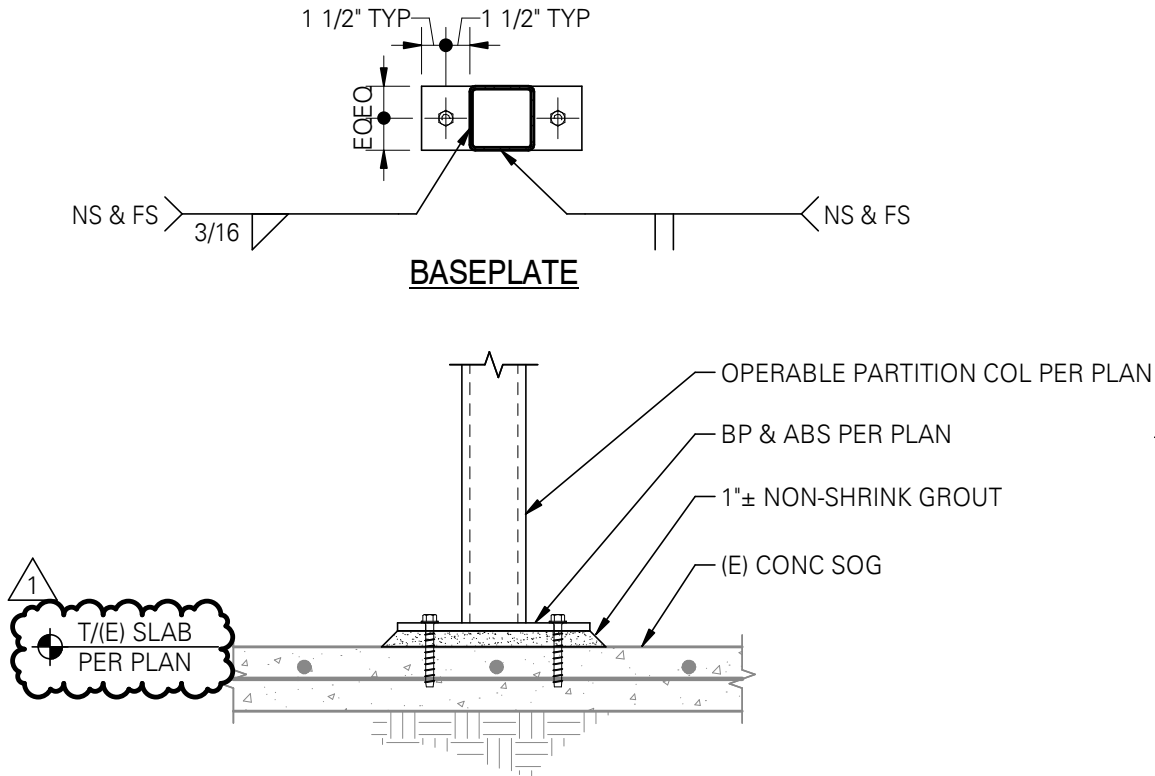
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EXISTING CONCRETE
CUT DURING CONSTR

1

STANDARD HOOKS AND BENDS

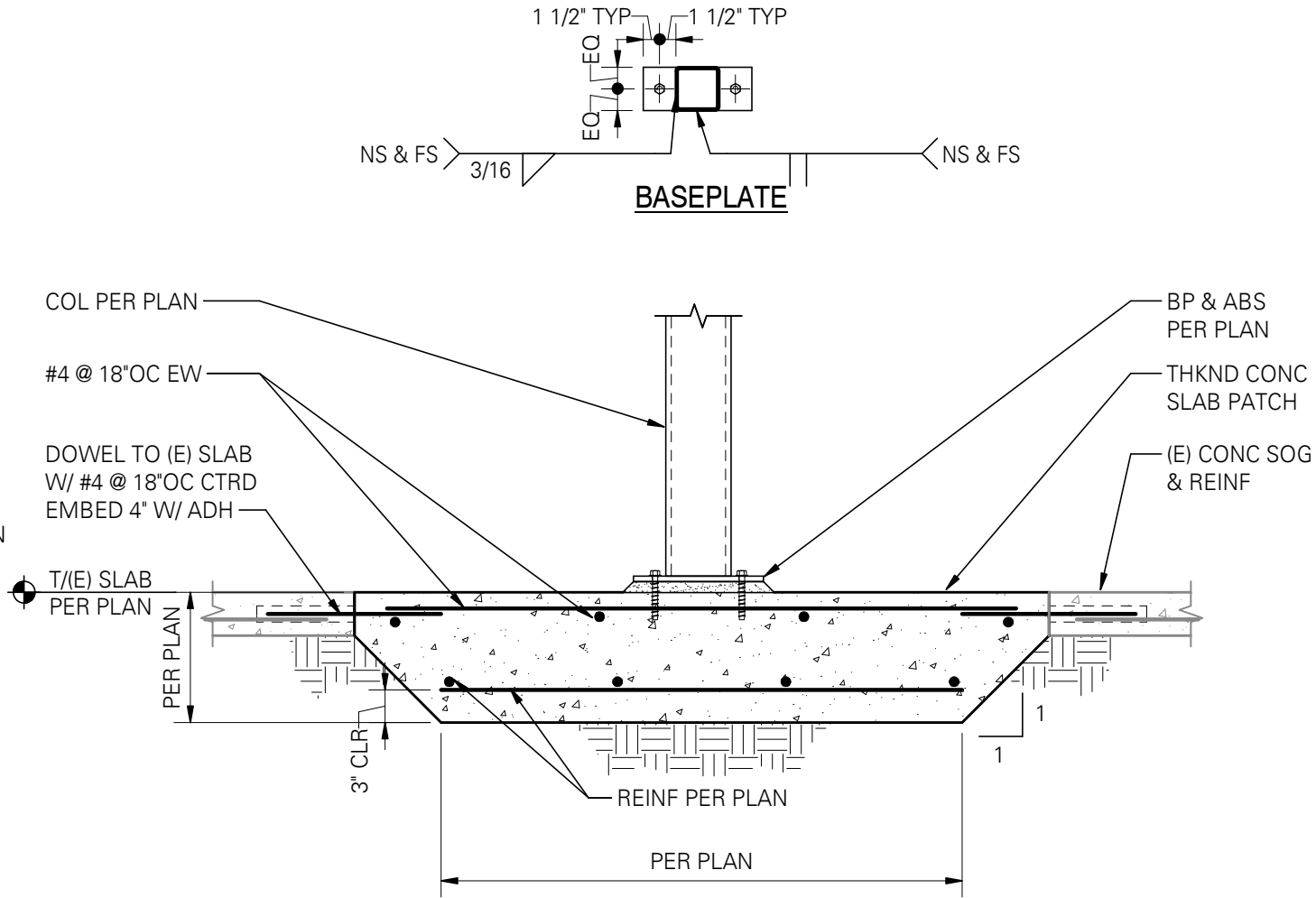
SCALE: 3/4" = 1'-0" (03400)



2

LAP SPLICE AND DEVELOPMENT
LENGTH SCHEDULE

SCALE: 3/4" = 1'-0" (01403A)



3

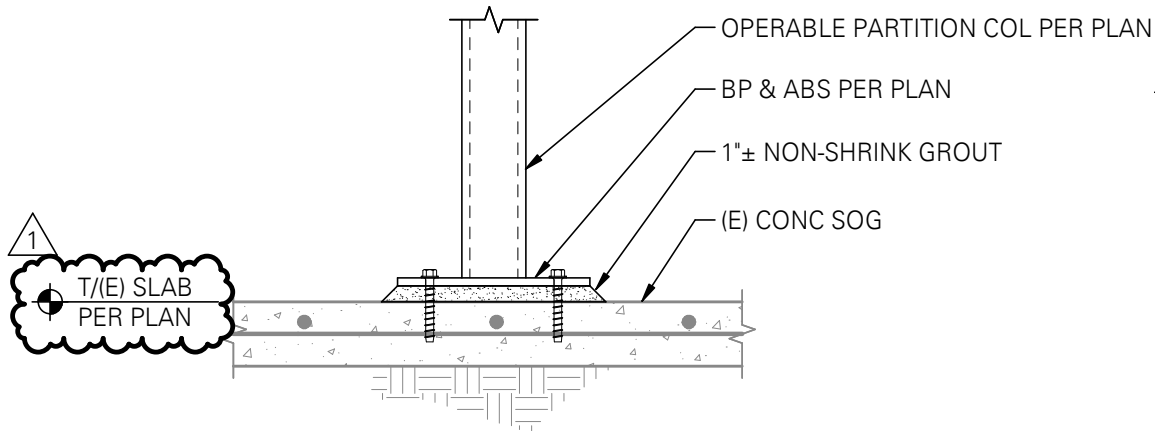
FOOTING
ELEVATION

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

6

OPERABLE PARTITION COLUMN AT SLAB

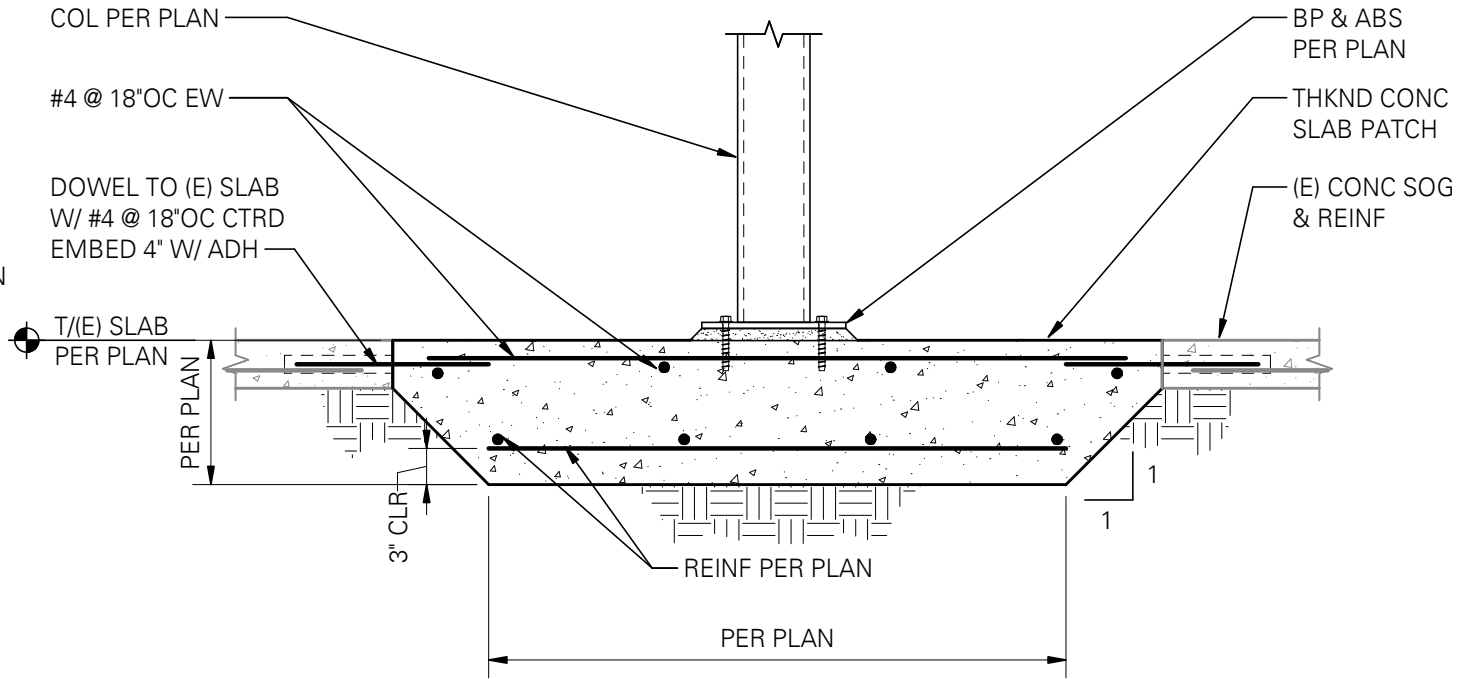
SCALE: 1" = 1'-0"



7

THICKENED SLAB FOOTING AT
EXISTING CONCRETE SLAB

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



8

EMBARKMENT

SCALE: 1" = 1'-0"

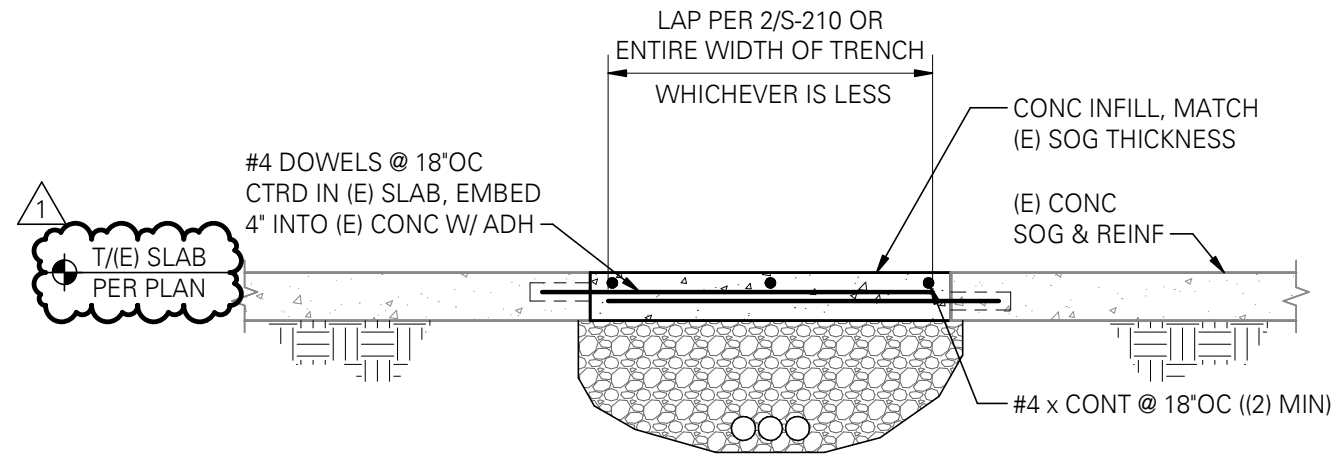
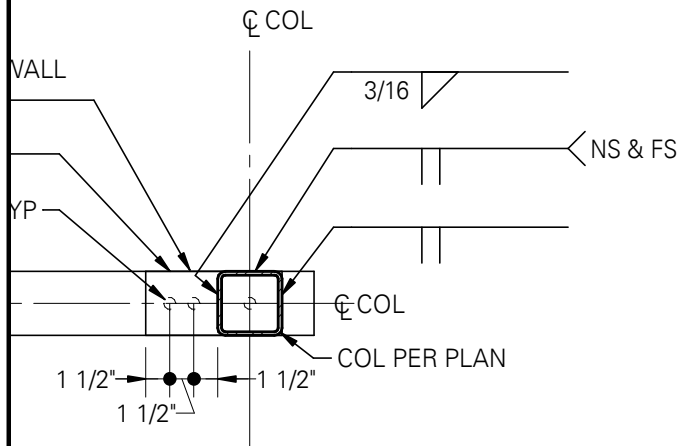
ALSC
ARCHITECTS

PROJECT
LIBBY CENTER
CLASSROOM REMODEL
21041-0011

ADDENDUM # 02

DATE	DRAWN	DWG. NO.	JOB NO.	REF. SHT.
2021-04-20	DJM	SC-04	21041-0011	S-210

DESCRIPTION
REVISED 6/S-210



NOTE:

IF REMOVED AREA IS WIDER THAN 4'-0", INFILL WITH 4" SLAB ON GRADE WITH #4 @ 18"OC EW. GREASED SMOOTH DOWELS INTO EXISTING FOOTING TO BE USED IN PLACE OF ADHESIVE.

9

TRENCH INFILL DETAIL

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



PROJECT
LIBBY CENTER
CLASSROOM REMODEL
21041-0011

ADDENDUM # 02

DATE
2021-04-20

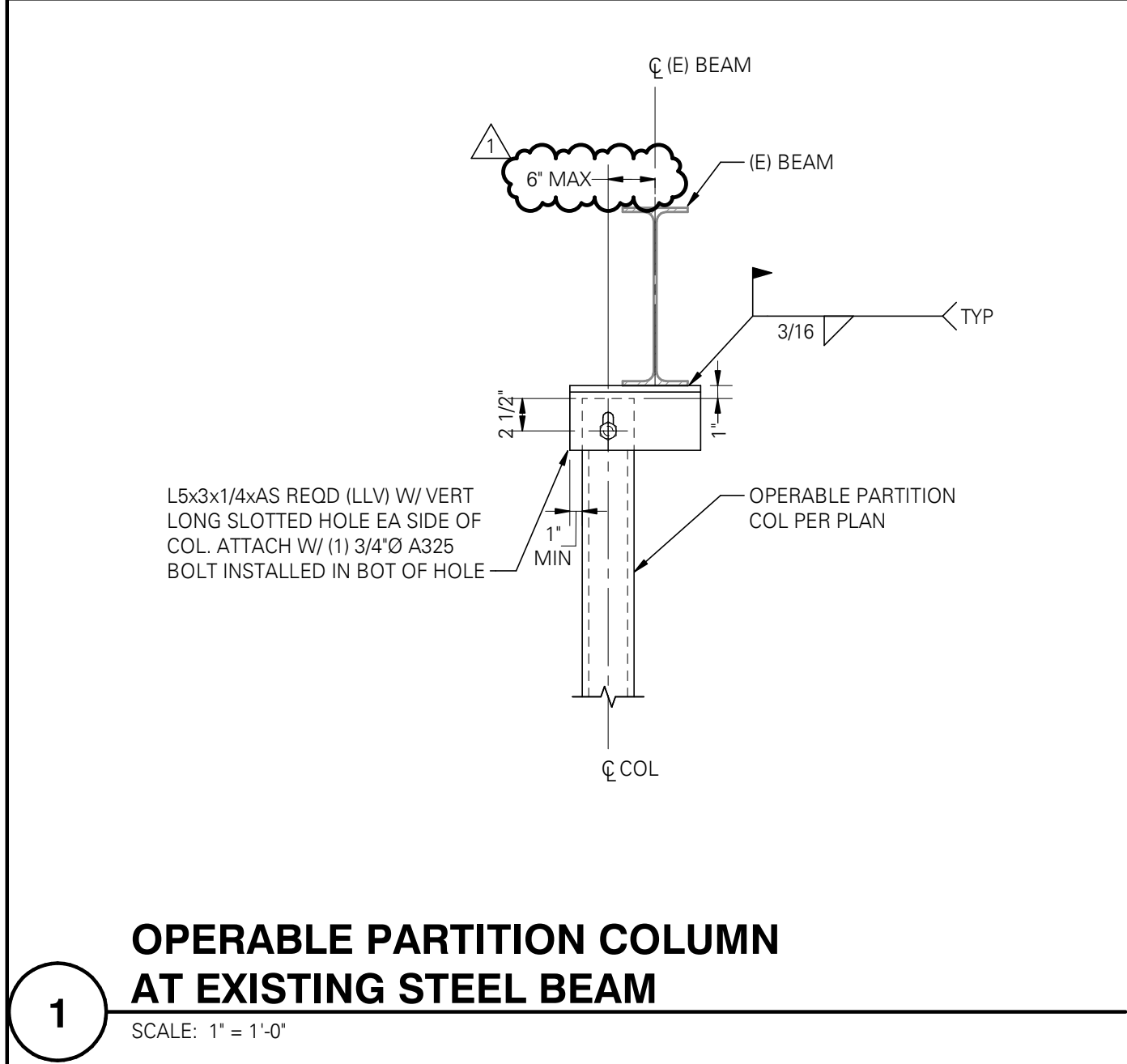
DRAWN
DJM

DWG. NO.
SC-05

JOB NO.
21041-0011

REF. SHT.
S-210

DESCRIPTION
REVISED 9/S-210

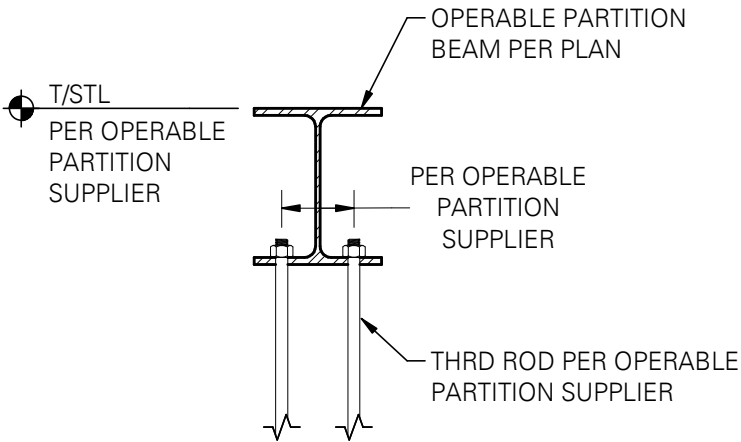


**OPERABLE PARTITION COLUMN
AT EXISTING STEEL BEAM**

SCALE: 1" = 1'-0"

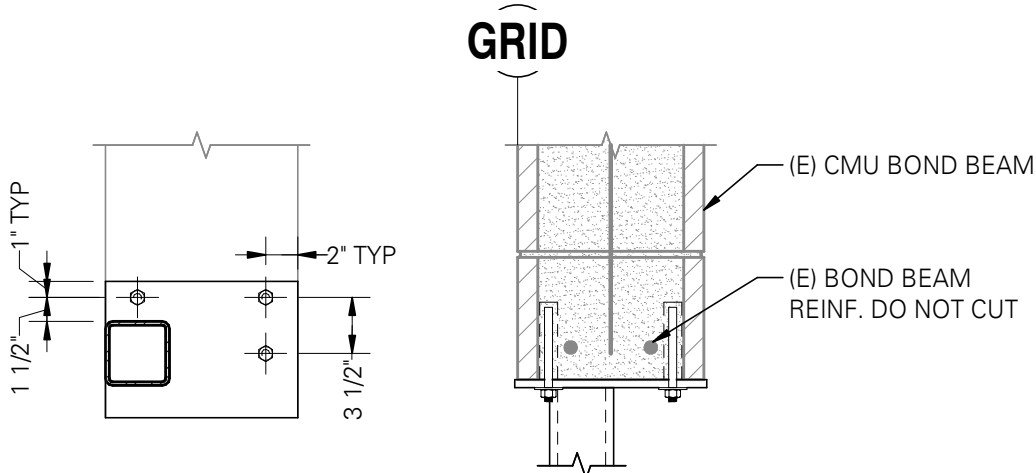
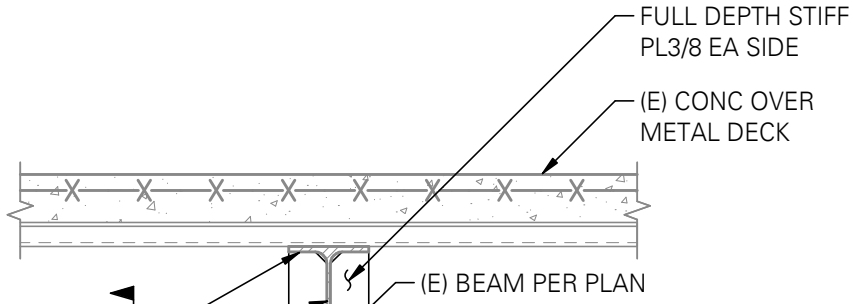
NOTE:

MAXIMUM PARTITION HEIGHT 9'-0"



OPERABLE PARTITION ATTACHMENT

SCALE: 1" = 1'-0"



3/4"Ø - A325-N	
BEAM SIZE	"N" BO REQUIR (1)
C8,C9,C10	2
W8	2
W10	2
C12,C15	3
W12	3
W14	3
W16	4
W18	5
W21	6
W24	7
W27	8
W30	8
W33	9
W36	10

BOLTED SINGLE

1. PROVIDE EITHER S
SHEAR PLATE.
2. WHERE SHORT-SL
3. CAPACITIES BASED
4. HORIZONTAL DIST
EXCEED 3 1/2" IN THE
5. PER AISC TABLE J3
7/8" DIAMETER BOLT,
6. GAP BETWEEN BE
ARE USED AS SHEAR
OR THE "K" DISTANCE
7. WELD SIZES SHAL
8. FIELD FILLET WELD
UP IS VERIFIED BY A S
9. COPE DEPTHS (SIN
HOLE SPACING AND I



PROJECT
LIBBY CENTER
CLASSROOM REMODEL
21041-0011

ADDENDUM # 02

DATE	DRAWN	DWG. NO.	JOB NO.	REF. SHT.
2021-04-20	DJM	SC-06	21041-0011	S-310

DESCRIPTION
REVISED 1/S-310