



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
COR61461

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
KRISTA FERRELL 304-558-2596

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF CORRECTIONS
 CHARLESTON CORRECTIONAL CENTER
 WV REHAB CENTER, BUILDING B
 BARRON DRIVE
 CHARLESTON, WV
 25112 304-558-2036

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/03/2010				

BID OPENING DATE: 08/11/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1		
				THIS ADDENDUM IS ISSUED TO:		
				1.) PROVIDE A COPY OF THE MANDATORY PRE-BID ATTENDEE LIST,		
				2.) PROVIDE PROJECT CLARIFICATIONS,		
				3.) ANSWER ALL TECHNICAL QUESTIONS SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF COR61461,		
				4.) PROVIDE DRAWINGS SK-01, SK-02, SK-03, AND SK-04,		
				5.) PROVIDE LEAD BASED PAINT REPORT, AND		
				6.) PROVIDE ASBESTOS REPORT		
				BID OPENING DATE REMAINS: 08/11/2010		
				BID OPENING TIME REMAINS: 1:30 PM		
				***** END ADDENDUM NO. 1 *****		
0001	1	LS	968-20	RENOVATE/CONSTRUCT CHARLESTON CORRECTIONAL CENTER		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

Pre-bid Charleston Correctional Center
Request for Proposal No.

SIGN IN SHEET
PLEASE PRINT

Page 1 of 5
Date: 7/20/2010

* PLEASE BE SURE TO PRINT LEGIBLY - IF POSSIBLE, LEAVE A BUSINESS CARD

FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	TELEPHONE & FAX NUMBERS
Company: Plateau Electric Inc	P.O. Box 39	PHONE 304-465-0947
Rep: Rodney Towey	Scarbro WV 25917	TOLL FREE
Email Address: R.towey@shentel.net		FAX 304 465-0948
Company: Summersville Multiplex, Inc	PO Box 505	PHONE 304-872-6678
Rep: Mary Ann Kiser	Summersville, WV	TOLL FREE
Email Address: multiplexap@yahoo.com	26651	FAX 304-872-1445
Company: Rhodes Brick & Block	10 Winfield Rd	PHONE 304-553-1161
Rep: Joni Winkler	St Albans, WV	TOLL FREE
Email Address: joni@rhodesblock.com	25177	FAX 304-722-1822
Company: Beckley Mechanical, LLC		PHONE 304-252-1539
Rep: Mark Bewles		TOLL FREE
Email Address: mbewles@beckleymechnical.com		FAX 304-253-1123
Company: Brewer		PHONE 304-744-5314
Rep: Wayne Taylor		TOLL FREE
Email Address: wtaylor@brewerspringkler.com		FAX 304-744-4889

Pre-bid Charleston Correctional Center
Request for Proposal No.

Page 2 of 5
Date: 7-20-2010

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* PLEASE BE SURE TO PRINT LEGIBLY - IF POSSIBLE, LEAVE A BUSINESS CARD

FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	TELEPHONE & FAX NUMBERS
Company: Hayslett Construction Co Inc.	P.O. Box 447 3707 Tenays Valley Road Cps	PHONE 304-757-9348 TOLL FREE FAX 304-757-9561
Rep: Tim Hayslett	Harrison, WV 25526	
Email Address: whayslett@aol.com		
Company: E.P. LEACH - SONS	1424-4 th AVE	PHONE 304-523-7560 TOLL FREE FAX 304-523-1238
Rep: BILL TREACY	HUNTINGTON, WV 25701	
Email Address: bltreacy@comcast.net		
Company: Wiseman Construction Co., Inc	1616 6 th Ave	PHONE 304-344-1200 TOLL FREE ext 212
Rep: JC Linkinogor	Charleston, WV 25312	
Email Address: JLinkinogor@wisemanconst.com		FAX 304-344-1281
Company: BBL Carlton LLC	900 Lee Street, Suite 1400	PHONE 304-345-1300 TOLL FREE
Rep: Tim Malcomb	Charleston, WV 25324	FAX 304-345-1304
Email Address: tmalcomb@bblinc.com		
Company: GAG Builders Inc	500 Corporate Centre Drive	PHONE 304-757-9196 TOLL FREE
Rep: Rod Orem	Suite 550	
Email Address: rorem@gagandgbuilders.com	Scott Depot WV 25568	FAX 304-757-0993

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Request for Proposal No.

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Page 3 of 5
Date: 7/28/2010

* PLEASE BE SURE TO PRINT LEGIBLY - IF POSSIBLE, LEAVE A BUSINESS CARD

FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	TELEPHONE & FAX NUMBERS
Company: ELCO MECHANICAL	1510 COONSIGMO DR	PHONE 304-346-0596
Rep: SCOT GRIGSBY	CHARLESTON WV 25312	TOLL FREE
Email Address: SCOTGRIGSBY@SUDDENLINKMAIL.COM		FAX 304-346-0548
Company: PRAY CONSTRUCTION CO	4964 TEAYS VALLEY RD	PHONE 304-755-4944 x237
Rep: PATRICK BEALL	SCOTT DEPOT WV 25560	TOLL FREE
Email Address: pbeall@prayconstruction.com		FAX 304-755-7679
Company: DANHILL CONSTRUCTION	P.O. BOX 685	PHONE 304-632-1600
Rep: DAN HILL	BOWLEY BRIDGE, W.VA	TOLL FREE
Email Address: danhill@hotmail.com	65085	FAX 304-632-1501
Company: DANHILL CONSTRUCTION	Same	PHONE 304-632-1600
Rep: ALLEN JONES		TOLL FREE
Email Address: calledaj@hotmail.com		FAX 304-632-1501
Company:		PHONE
Rep:		TOLL FREE
Email Address:		FAX

Pre-bid Charleston Correctional Center
Request for Proposal No.
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* PLEASE BE SURE TO PRINT LEGIBLY - IF POSSIBLE, LEAVE A BUSINESS CARD

FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	TELEPHONE & FAX NUMBERS
Company: <u>Oval Construction</u>	<u>P.O. Box 401</u>	PHONE <u>304.347.8820</u>
Rep: <u>Eric Coffey</u>	<u>Charleston, WV 25322</u>	TOLL FREE
Email Address: <u>ecoffey@ovalconstruction.com</u>		FAX <u>304.347.8821</u>
Company: <u>J D + E</u>	<u>P.O. Box 6253</u>	PHONE <u>304-232-5000</u>
Rep: <u>MARK R. SIMPSON</u>	<u>WHEELING, WV 26003</u>	TOLL FREE
Email Address: <u>MARK@jdc-inc.com</u>		FAX <u>304-232-0619</u>
Company: <u>CITY ELECTRIC Co.</u>	<u>Po 6550</u>	PHONE <u>304 345-6150</u>
Rep: <u>Alao W MILES</u>	<u>CHARLESTON, WV 253662</u>	TOLL FREE
Email Address: <u>AMILES@CITYELECTRIC.WV.COM</u>		FAX <u>304 345-6151</u>
Company: _____	_____	PHONE _____
Rep: _____	_____	TOLL FREE _____
Email Address: _____	_____	FAX _____
Company: _____	_____	PHONE _____
Rep: _____	_____	TOLL FREE _____
Email Address: _____	_____	FAX _____

Pre-bid Charleston Corneal Center
Request for Proposal No.

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Page 5 of 25

Date: 7/20/2010

* PLEASE BE SURE TO PRINT LEGIBLY - IF POSSIBLE, LEAVE A BUSINESS CARD

FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	TELEPHONE & FAX NUMBERS
Company: Corde Builders Inc.	P.O. Box 244	PHONE 304 733-4020
Rep: Bob Condo	Barboursville WV 25504	TOLL FREE
Email Address: Cordebuilders@gmail.com		FAX 304 733-4040
Company: Paramount Builders LLC	501 6TH AVE	PHONE 304 727-2770
Rep: Chris Shaw	St. Albans WV 25177	TOLL FREE
Email Address: cshaw@paramountwv.com		FAX 304 727 0302
Company: SILLING ASSOC		PHONE 904.546.0565
Rep: JEREMY JONES		TOLL FREE
Email Address: jjones@silling.com		FAX
Company:		PHONE
Rep:		TOLL
Email Address:		FREE
		FAX
Company:		PHONE
Rep:		TOLL
Email Address:		FREE
		FAX



405 Capitol Street, Upper Atrium
Charleston, West Virginia 25301-1727

ADDENDUM NO. 1

Date: July 30, 2010

Project: Charleston Correctional Center

Architect: Silling Associates, Inc.
405 Capitol Street, Upper Atrium
Charleston, WV 25301

Owner: State of West Virginia Division of Corrections

The following amendments, addenda, additions and deletions shall be made to the contract documents titled as above. Insofar as the contract documents are at variance with Addendum Number One, this Addendum shall govern. Bidders shall acknowledge receipt of the Addendum on the Bid Form included in the Project Manual.

QUESTIONS & CLARIFICATIONS

- Q1:** In demolition notes #1 and #7, for example, it states that demolition is by the owner to be discarded by the contractor. Can you explain further what the contractor's responsibility would be?
- A1:** All of the items demolished by the owner to be discarded will be placed in the contractor's dumpster by the owner and then legally discarded by the contractor. See demolition general note 4.

- Q2:** In spec section 01782-page3, sec 2.2, it talks of emergency manuals. It mentions giving instructions to the owner on how to handle certain emergencies. Other than a gas leak, a water leak, or some sort of system, subsystem, or equipment failure pertaining to our scope of work, I don't see how we can give any instructions on how the DOC should handle emergencies. I imagine that they would have procedures in place for emergencies such as fire, flood, power failure, water outage, and a chemical release or spill. Can you advise?
- A2:** Items mentioned are those intended to be covered.
- Q3:** I have concerns about the Technical Assistance Program. I know that it states that there should be a one day turnaround repair express and 24 hour parts replacement. That may not always be possible, and if not, then what would be the penalty for not being able to fulfill this obligation?
- A3:** There is not a penalty for this.
- Q4:** It also states in spec section 08711, pg. 1, subsection 2.01, that there should be free access to technical assistance as long as the system is installed. This doesn't seem feasible. What if they only offer free technical assistance for two years, for ex.?
- A4:** Free tech support should be included for 1 year.
- Q5:** After looking at the existing showers yesterday, we observed that a lot of the ceramic tile is loose, as well as some of them are cracked. My fear is that if we try to replace the ones that are cracked, then the whole section of ceramic wall tile may just fall off the wall. Some appeared to be bulging out from the wall, which indicates that something has perhaps settled which has pushed them together and forced them out. How can we accurately bid this part of the work?
- A5:** Delaminated tile occurs in approximately 25% of existing shower locations. Allow for re-installation of tile that may peel away from wall during repair. Replace cracked tiles with new in all existing showers that will remain shower locations in new work. The contractor is to estimate the labor involved to complete this task.
- Q6:** In one note, it says that the new ceramic threshold is to be part of Alt. 4. However, in the schedule of alternates, they are listed as Alt. 5. Please advise.
- A6:** New shower thresholds are to be included in Alternate No. 5 as listed on the Bid Form.
- Q7:** In the details on drawing A3-2 pertaining to window types A, B, C, they are shown to be part of Alt. 1. However, in the schedule of alternates these windows are part of Alt. 4. Please advise.
- A7:** Window types A, B, and C are to be included in Alternate No. 4 as listed on the Bid Form.

- Q8:** On drawing A3-3, room 333 has a window which is not identified. What Type of window is it?
- A8:** The window in room 333 is type A.
- Q9:** On drawing A3-4, in the wall opening details, it shows a ½” thick lintel to be installed in the opening for the 20” pipe, and only a 5/16” lintel to be installed for the 48” hole. Is this correct?
- A9:** Detail 4/A3-4 and Detail 7/A3-4 will use (2) L5 x 3 ½ x 5/16” LLH galvanized lintel. Detail 5/A3-4 will use (2) L6 x 4 x 5/16” LLH galvanized lintel. See sketch 1, 2, 3, & 4.
- Q10:** Is there water in the building currently? If so, will we be able to use the restrooms while working in the building?
- A10:** Building currently has running water. Contractor will be permitted to use any restrooms in the building and will be responsible for the cleaning of these restrooms before the owner begins occupancy.
- Q11:** Under the owners work responsibility, the notes say that they will replace, repair, or remove vinyl base. Does this include the new walls too? Is the contractor responsible for any base?
- A11:** Contractor will be responsible for the removal of all vinyl base as required by demolition. The owner will be responsible for all vinyl base replacement and new installation.
- Q12:** What type of door hardware is to be used on door number 400?
- A12:** Hardware set #12.
- Q13:** Has the facility been tested for lead and asbestos?
- A13:** See attached lead-based paint report and asbestos report by Astar Abatement.
- Q14:** RFQ, Page 4, Builder’s Risk Insurance box is not checked indicating the contractor is not to provide. Specifications, Supplementary General Conditions, 11.3.1 changes these responsibilities from the owner to the contractor. Do we go by the RFQ or the Specifications?
- A14:** Contractor shall provide Builder’s Risk Insurance per the specifications.

C1: On all demolition drawings, demolition key notes 1, 7, 8, & 29 shall be included in contractor's scope of work instead of owner.

D.O.C./Owner's demolition responsibilities shown on A2-1 will no longer include "removal & disposal of plaster clg. in showers" or "removal & disposal of non-load bearing walls".

C2: On all new work drawings, new work key notes 9 & 22 should read "Patch, repair, and prep walls by contractor. Paint wall to match existing by owner. Architect to approve paint color on site."

C3: Specification Section 15975, paragraph 2.1, add the name Alerton as installed by the Muninn Group.

C4: Specification Section 15975, paragraph 2.2, add paragraph E as follows: The control system shall be provided with the necessary hardware and software to all the State to access the control system and view temperature and start/stop set points and make set point adjustments through their Trane Tracer Summit control system.

ARCHITECTURAL DRAWINGS/SKETCHES

The following revisions apply to drawings dated 6-28-10:

1. SK-01: Revising detail 4/A3-4.
2. SK-02: Revising detail 5/A3-4.
3. SK-03: Revising detail 6/A3-4.
4. SK-04: Revising detail 7/A3-4.

SEE ATTACHED LEAD-BASED PAINT REPORT (31 pages)

SEE ATTACHED ASBESTOS REPORT (28 pages)

SEE ATTACHED PRE-BID ATTENDEES LIST (5 pages)

**REMINDER: PLEASE SUBMIT ALL CONSTRUCTION-RELATED QUESTIONS
IN WRITING VIA FAX OR EMAIL TO THE WV PURCHASING BUYER
SUPERVISOR AT THE FOLLOWING NUMBER/ADDRESS.**

Krista S. Ferrell, Buyer Supervisor-File 21

West Virginia State Purchasing Division

2019 Washington Street, East

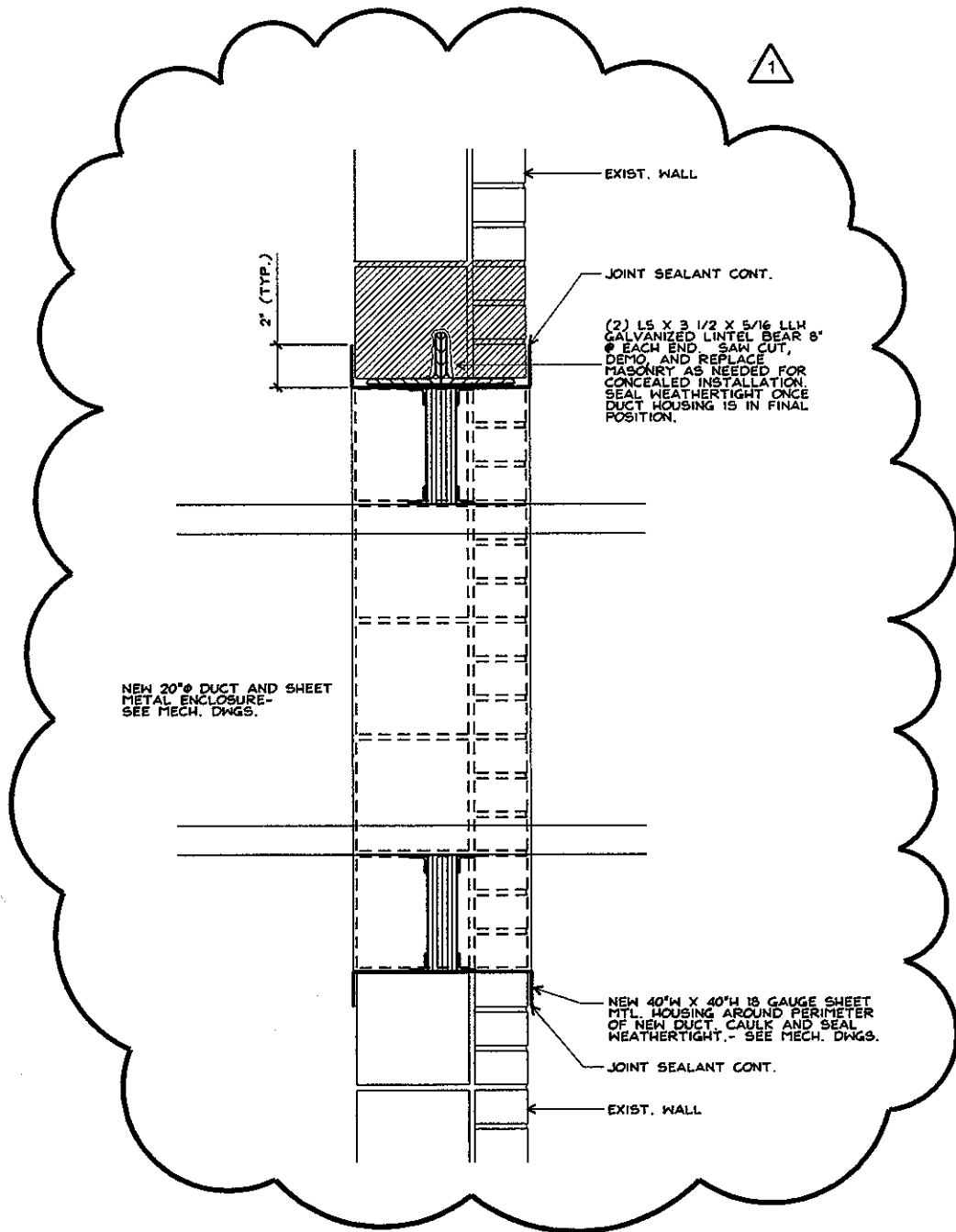
Charleston, WV 25305

Phone: 304-558-2596

Fax: 304-558-4115

email: krista.s.ferrell@wv.gov

END OF ADDENDUM NO. 1



4 DUCT WALL PENETRATION DETAIL
A3-4

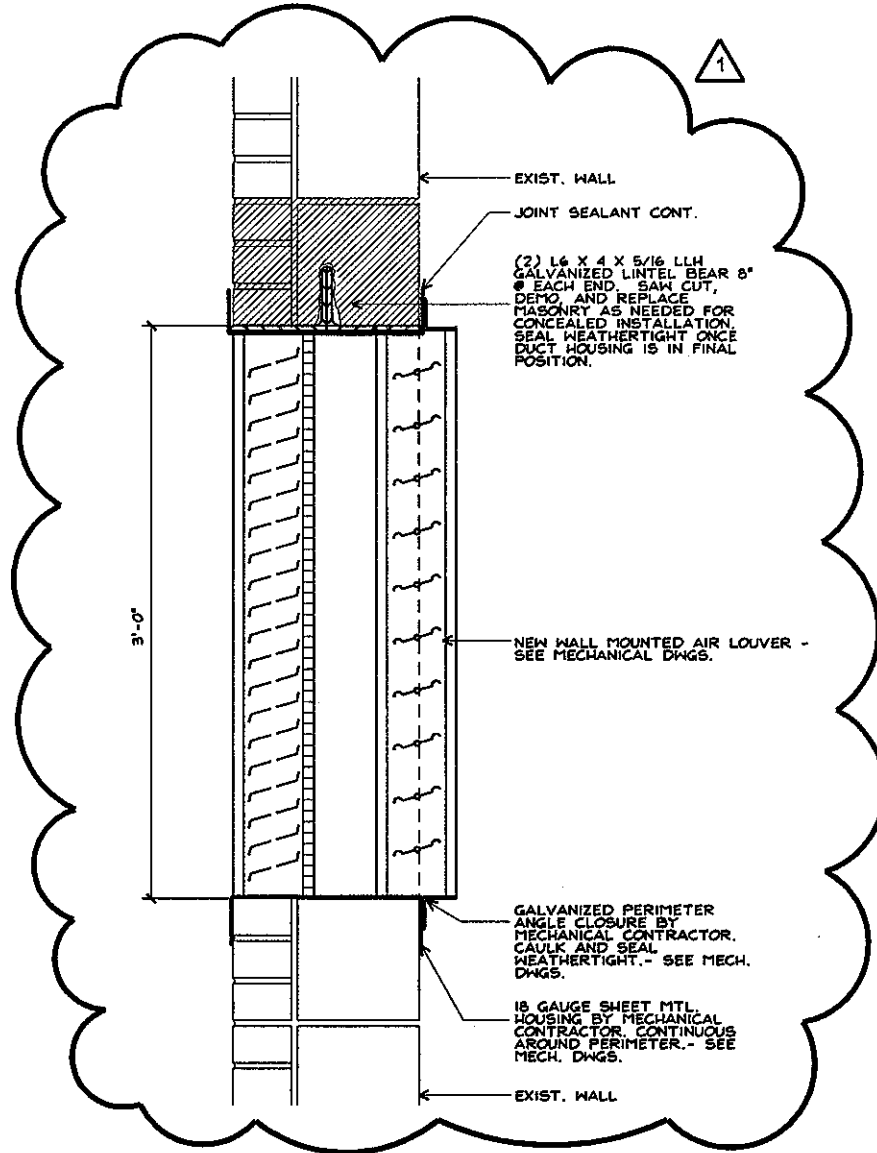
REF SHEET A3-4

SILLING
 Architects • Planners

405 CAPITOL STREET
 UPPER ATRIUM
 CHARLESTON, WV 25301-1727
 VOICE 304.346.0565
 FAX 304.346.1522
 www.silling.com

JOB TITLE:	CHARLESTON CORRECTIONAL CENTER
NOTES:	1 ADDENDUM # 1

DATE:	7.30.10
SCALE:	1" = 1'-0"
SHEET NO.:	SK-01



5 ELEVATOR HOISTWAY LOUVER
 A3-4

REF SHEET A3-4



405 CAPITOL STREET
 UPPER ATRIUM
 CHARLESTON, WV 25301-1727
 VOICE 304.346.0565
 FAX 304.346.1522
 www.silling.com

JOB TITLE:

CHARLESTON CORRECTIONAL
 CENTER

DATE:

7.30.10

SCALE:

1" = 1'-0"

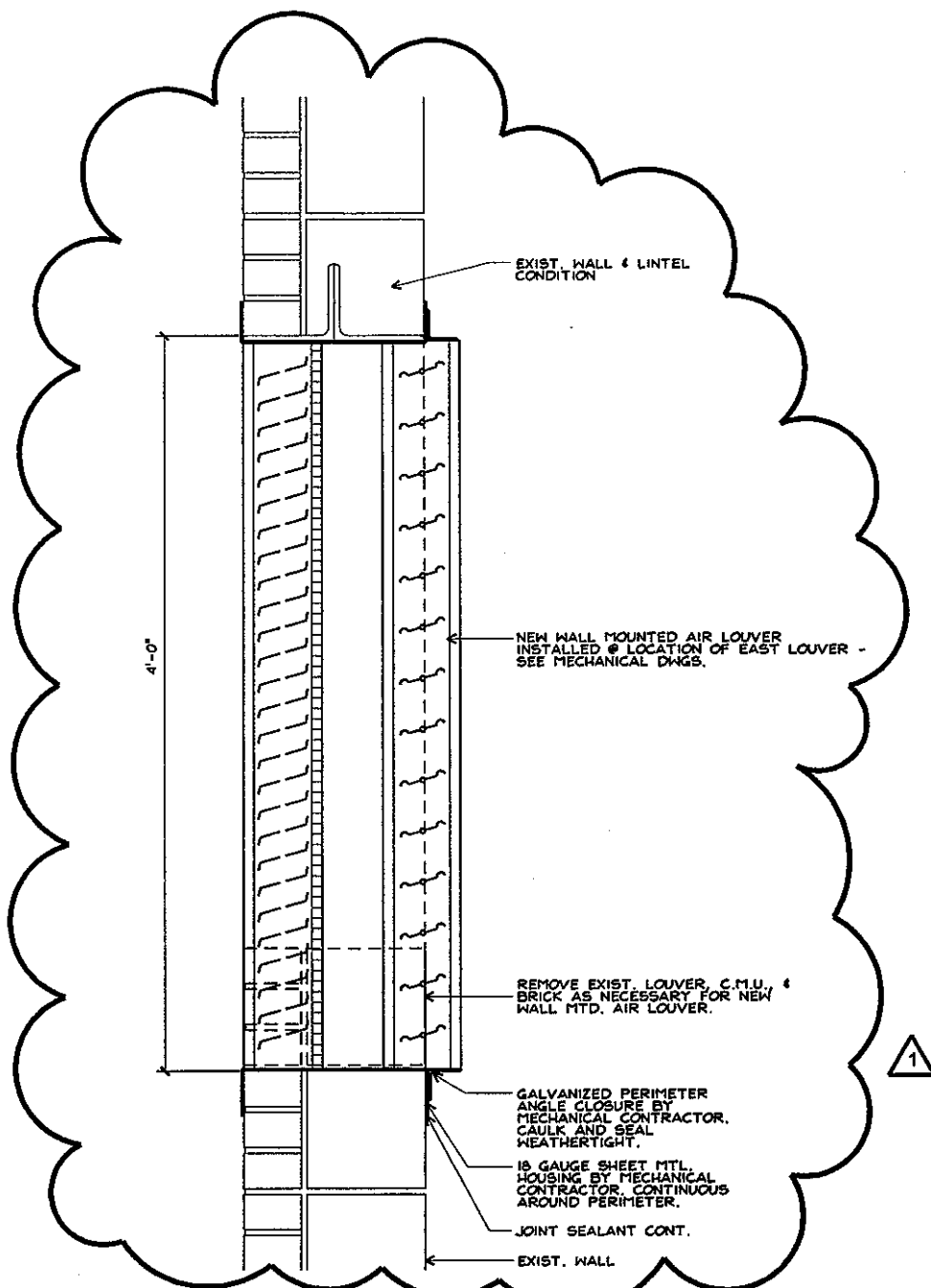
NOTES:



ADDENDUM # 1

SHEET NO.:

SK-02



6 ENLARGED AIR HANDLER INTAKE LOUVER
A3-4

REF SHEET A3-4



405 CAPITOL STREET
 UPPER ATRIUM
 CHARLESTON, WV 25301-1727
 VOICE 304.346.0565
 FAX 304.346.1522
 www.silling.com

JOB TITLE:

CHARLESTON CORRECTIONAL CENTER

DATE:

7.30.10

SCALE:

1" = 1'-0"

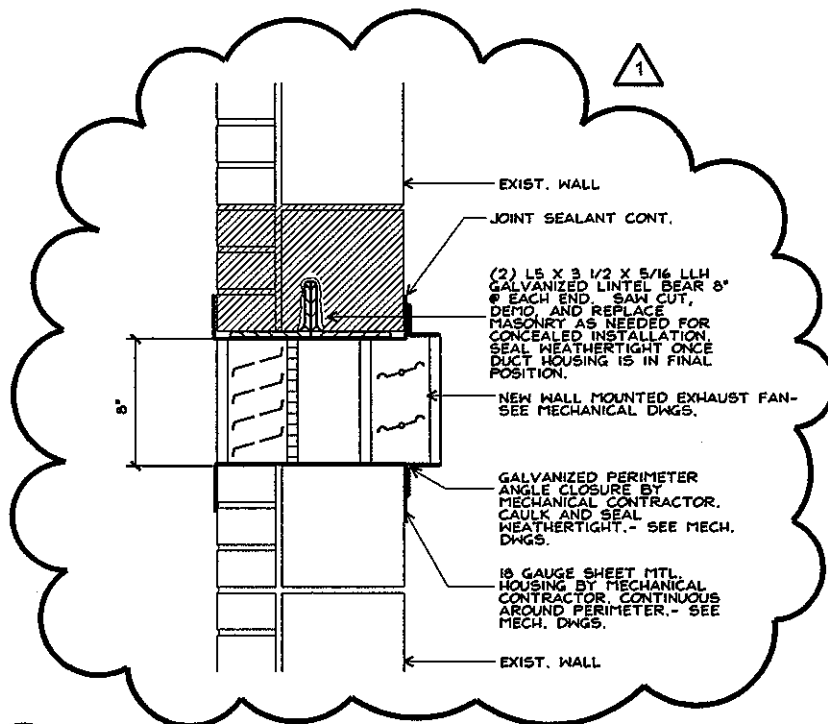
NOTES:



ADDENDUM # 1


SHEET NO.:

SK-03



7 EXHAUST FAN DETAIL
A3-4

REF SHEET A3-4

 <p>405 CAPITOL STREET UPPER ATRIUM CHARLESTON, WV 25301-1727 VOICE 304.346.0565 FAX 304.346.1522 www.silling.com</p>	JOB TITLE: CHARLESTON CORRECTIONAL CENTER	DATE: 7.30.10
	NOTES: 1 ADDENDUM # 1	SCALE: 1" = 1'-0"
	SHEET NO.: SK-04	

LEAD-BASED PAINT REPORT

Report Date:
7/19/2010

Project Number:
10-365

Lead-Based Paint/Lead
 Containing Materials Present:

Yes

No

Presumed

Property Owner:
**State of West Virginia
 Dept. of Corrections
 1409 Greenbrier St.
 Charleston, WV 25311**

Property Address:
 Building 'B'
 WV Rehabilitation Center
 Institute, WV

SYNOPSIS
<p>The Building 'B' of the WV Rehabilitation Center was tested for the presence of lead-based paint, per the OSHA regulations of any level above 0.00mg/cm². Refer to the Summary Table for the list of lead-based painted surfaces.</p>
<p>IMPORTANT: This document is intended only for the individual or entity to which it is directed. This document contains competition sensitive information that is privileged, confidential, or proprietary. Dissemination, distribution, or reproduction of this document by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. This document, or any portions thereof, may not be divulged to third parties without expressed written consent.</p>

 Lead-Based Paint Inspector Date
 License #: PI000330

 Peer Review Date

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Section 3	Summary of Findings for LBP.....	
Section 4	Recommendations for LBP.....	
Section 5	Photographs/Drawings.....	

Appendices

Appendix	Title
Appendix 1	XRF Sequential Results
Appendix 2	XRF Summary Results
Appendix 3	XRF Distribution Report
Appendix 4	Example Room & Component Diagrams
Appendix 5	Certification/License



Section 1 – Lead Paint Inspection and XRF Testing Procedures

The U.S. Department of Housing and Urban Development (HUD) and the U.S. Environmental Protection Agency (EPA) define an inspection as a surface-by surface investigation to determine the presence of lead-based paint (see 40 CFR part 745 and Title X of the 1992 Housing and Community Development Act).

As per the EPA & HUD guidelines lead based paint is defined as a dried paint film with a lead concentration of greater than or equal to 1.0 mg/cm² or 0.5 percent by weight for this survey. Lead paint amounts were reported mg/cm² because this unit of measurement does not depend on the number of layers of non-lead based paint. OSHA defines lead containing as any material that has a measurable amount of lead present. Therefore XRF analysis is not acceptable for OSHA compliance. The owner/contractor may, at their own liability, choose to use the Sequential Results, located in **Appendix 1**, and make the determination that any reading above 0.00 is lead containing.

Portable XRF Testing Machines

Portable XRF lead-based paint analyzers are the most common primary analytical method for inspections because of their demonstrated abilities to:

1. Determine if lead-based paint is present on many different types of surfaces
2. Measure the paint without destructive sampling or paint removal
3. Provide sample results immediately and at a relatively low cost per sample

Portable XRF instruments expose a building component to X rays or gamma radiation, which causes lead to emit X-rays with a characteristic frequency or energy. The intensity of this radiation is measured by the instrument. The inspector must then compare this displayed value (reading) with the inconclusive range or threshold specified in the XRF Performance Characteristic Sheet for the specific substrate beneath the painted surface. If the reading is less than the lower boundary of the inconclusive range, or less than the threshold, then the reading is considered negative. If the reading is greater than the upper boundary of the inconclusive range, or greater or equal to the threshold, then the reading is considered positive. Readings within the inconclusive range, including its boundary values, are considered inconclusive. Because the inconclusive ranges and/or thresholds shown in the Performance Characteristic Sheet are based on 1.0 mg/cm², positive and negative readings are consistent with the HUD definition of lead-based paint for identification and disclosure purposes.

XRF Inspection Methodology

Astar Abatement, Inc. conducts LBP Inspections using XRF methodology in a strict and rigorous manner. Our inspection methodology is based on Chapter 7 of the U.S. Department of Housing and Urban Development's (HUD) *Guidelines for the Evaluation and Control of Lead Based Paint Hazards in Housing*. A typical Lead-Based Paint Inspection involves several distinct tasks:

1. **Side identification:** Identify perimeter wall sides with letters A, B, C, and D (or numbers or Roman numerals). Side A for single-family housing is the street side for the address. Side A in multifamily housing is the apartment entry door side. Side B, C, and D are identified clockwise from Side A as one faces the dwelling; thus Wall B is to the left, Wall C is across from Side A, and Side D is to the right of Side A. Each room equivalent's side identification follows the scheme for the whole housing unit.



Because a room can have two or more entries, sides should not be allocated based on the entry point. For example, giving a closet a side allocation based on how the room is entered would make it difficult for another person to make an easy identification, especially if the room had two closets and two entryways.

2. **Room Equivalent Identification:** Room equivalents should be identified by both a number and a use pattern (for example, Room 5-Kitchen). Room 1 is always the exterior. As the inspector enters the structure to be inspected, room 2 is to be the room which contains the entry door to the dwelling or facility. Each subsequent room equivalent is then numbered. Room 3 is designated as the room which is nearest to the left hand side of Room 2 (if facing the dwelling with back towards the dwelling's primary entrance). Room numbering is then continued in a clockwise fashion. If multiple closets exist, they are given the side allocation: for example, Room 3, Side C Closet. The exterior is always assigned a separate room equivalent identifier.
3. **Sides in a Room:** Sides in an interior room equivalent follow the overall housing unit side allocation. Therefore, when standing in any four-sided room facing Side C, the room's Side A will always be to the rear, Side B will be to the left, and Side D will be to the right.

See **Appendix 4** for an example diagram of a room and common components such as the inspector utilizes.

Using the XRF device, the inspector collects readings from all testing combinations in Room 1. When all testing combinations are tested, the inspector then continues the inspection with the remaining room equivalents. The inspection is finished when all testing combinations in the dwelling or facility have been tested.

Section 2 – Scope of Work

In response to a request from Mr. Philip Farley, WV Department of Correction, Astar conducted a limited scope lead paint inspection of the property on Building 'B', of the WV Rehabilitation Center, Institute, WV. This report represents the results from the limited inspection performed in accordance with all established rules and regulations. The inspection was characterized by a close visual inspection of all accessible areas. Suspect paints were sampled and inventoried for quantity and condition.

The inspection for lead-based paint included the following locations:

Levels above HUD's 1.0mg/cm2

[REDACTED]

[REDACTED]

[REDACTED]

This report or any statements or information contained herein shall not be interpreted to imply any conclusions or opinions related in any manner as to whether any potential health risks to individuals exposed to the building environments were or were not present at the time of our inspection or may or may not develop at some time in the future.

This report is not a guarantee or warranty of any kind and was prepared for the exclusive use of the owner and Astar Abatement, Inc. and may be provided to others for disclosure purposes only. Prospective purchasers or any other interested parties are advised that this report is not intended for their use or benefit nor is to be relied upon to ascertain the condition of the property. Astar Abatement, Inc., their employees, agents and subcontractors do not assume any liability for hidden/latent defects or conditions of any kind.

Indemnification:

Astar Abatement, Inc., its employees or subcontractors, shall not be legally responsible for any direct, indirect, incidental, special, consequential or exemplary damages, including (but not restricted to) damages for loss of investment, value, use, expenditure, or other intangible losses (even if Astar has been advised of the possibility of such damages), resulting from:

1. The use or the incapability to use this document or previously related documentation issued by Astar;
2. Statements or behavior of any third party; or
3. Any other matter relating to our efforts regarding the referenced property. On no occasion shall total legal responsibility to any concerned party for all damages, losses, and causes of action go beyond the amount paid to Astar for the preparation and publication of this specific document.



Every attempt was made to gain access to each and every area or to access representative materials entering or leaving such areas. Astar Abatement, Inc. accepts no liability nor makes any claims regarding materials that were not accessible during the inspection process. Especially if such material was located behind or within walls, concrete decks, sub-floors, chases, or was otherwise generally inaccessible.

This report is not intended to be used as a specification or work plan for any of the work suggested or recommended in this report. It is based upon conditions and practices observed at the property and information made available to the surveyor. This report does not intend to identify all hazards or unsafe practices, or to indicate that other hazards or unsafe practices do not exist at the premises.



Section 3 – Summary of Findings for Lead-Based Paint

Lead Based Paint was detected in the following painted surfaces (>1.0 mg/cm² as per EPA/HUD Standards):

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SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 07/16/10
 Report Date: 7/16/2010
 Abatement Level: 1.0
 Report No. 07/16/10 11:14
 Total Readings: 103 Actionable: 29
 Job Started: 07/16/10 11:14
 Job Finished: 07/16/10 14:10

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 001 143									
005	B	Wall	Lft		I	ceramic bk	black	2.5	QM
Interior Room 002 141									
024	A	Ceiling	Lft	Beam	I	Steel	brown	4.1	QM
025	A	Ceiling	Lft	Pan	I	Steel	brown	3.6	QM
020	A	Stairs	Lft	Stringers	I	Steel	brown	2.1	QM
021	A	Stairs	Lft	Baseboard	I	Steel	brown	4.6	QM
018	A	Stairs	Lft	Treads	I	Steel	brown	2.1	QM
019	A	Stairs	Lft	Risers	I	Steel	brown	4.1	QM
022	A	Stairs	Lft	Balusters	I	Steel	brown	3.9	QM
Interior Room 003 111									
032	D	Wall	Lft	lower	I	ceramic bk	black	2.0	QM
Interior Room 004 137									
039	A	Window	Lft	Lintel	I	Steel	beige	1.0	QM
Interior Room 005 242									
055	A	Ceiling	Lft	Beam	I	Steel	brown	3.3	QM
051	A	Stairs	Lft	Stringers	I	Steel	brown	9.9	QM
052	A	Stairs	Lft	Baseboard	I	Steel	brown	7.8	QM
049	A	Stairs	Lft	Treads	I	Steel	brown	2.0	QM
050	A	Stairs	Lft	Risers	I	Steel	brown	2.6	QM
053	A	Stairs	Lft	Balusters	I	Steel	brown	7.7	QM
Interior Room 006 210									
060	B	Wall	Lft	lower	I	ceramic bk	black	1.0	QM
Interior Room 007 229									
065	A	Door	Lft	Lft casing	I	Steel	brown	1.0	QM
Interior Room 008 231									
076	B	Stairs	Lft	Stringers	I	Steel	brown	7.7	QM
077	B	Stairs	Lft	Baseboard	I	Steel	brown	9.5	QM
074	B	Stairs	Lft	Treads	I	Steel	brown	1.0	QM
075	B	Stairs	Lft	Risers	I	Steel	brown	1.0	QM
078	B	Stairs	Lft	Balusters	I	Steel	brown	6.9	QM
Interior Room 009 347									
085	B	Wall	Lft	lower	I	ceramic bk	black	1.0	QM
088	B	Ceiling	Lft	Pan	P	Steel	black	1.0	QM
081	B	Closet	Lft	Door Casing	I	Steel	brown	1.0	QM
Interior Room 010 400									
092	A	Wall	Lft	lower	I	ceramic bk	black	1.8	QM
095	C	Stairs	Lft	Stringers	I	Steel	brown	4.7	QM
096	C	Stairs	Lft	Railing cap	I	Steel	brown	3.6	QM
----- End of Readings -----									



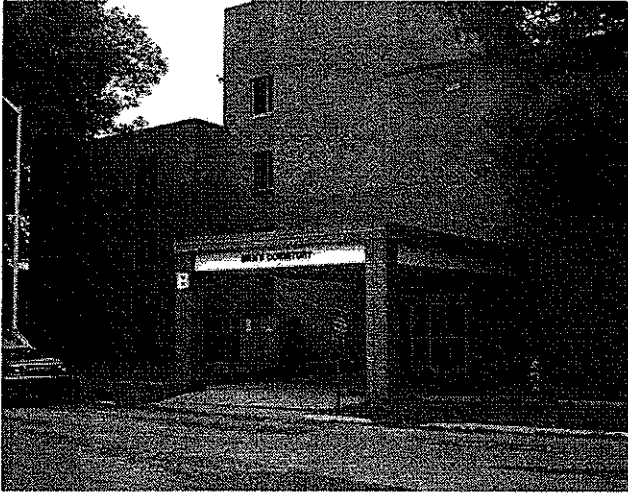
Section 4 – Recommendations for Lead Based Paint

All LBP that will be disturbed by any proposed repair/renovation should be removed in accordance with applicable federal, state and local regulatory requirements. It should be noted that personal air monitoring should be conducted when disturbing lead based paints and lead containing materials as per 29 CFR 1926.62 (OSHA).

Extreme Caution should be exercised during the repair/renovation activities, during which the above identified components may be disturbed. All necessary steps must be taken to prevent any dust, chips or debris from these materials, migrating from the repair/renovation area. Proper PPE must be worn by any worker who is involved in or working nearby the area. Caution should also be exercised in the event materials not identified in this report, known, assumed, or suspected to be lead containing or lead-based paint covered, are exposed during these activities. In the event additional suspect material is discovered during this activity, any work activity, with the potential for disturbance, should be stopped until sampling and analysis has been performed

ASTAR ABATEMENT, INC
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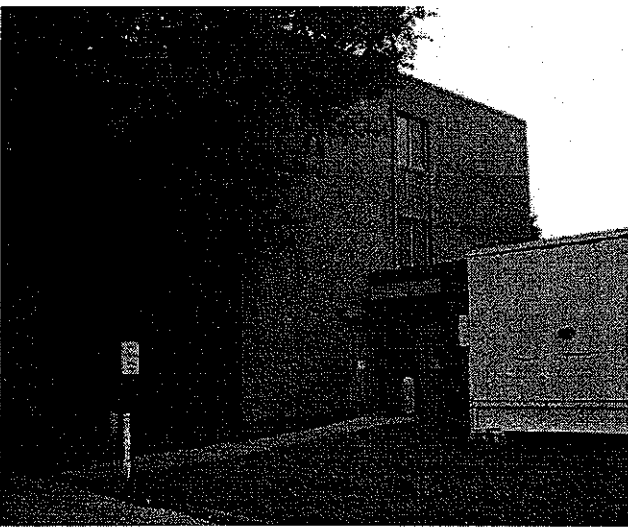
Section 5 – Photographs



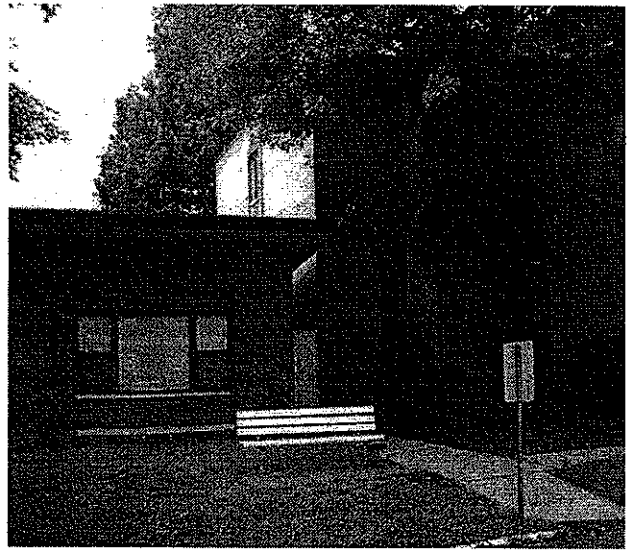
Building 'B' - Front



Right Side



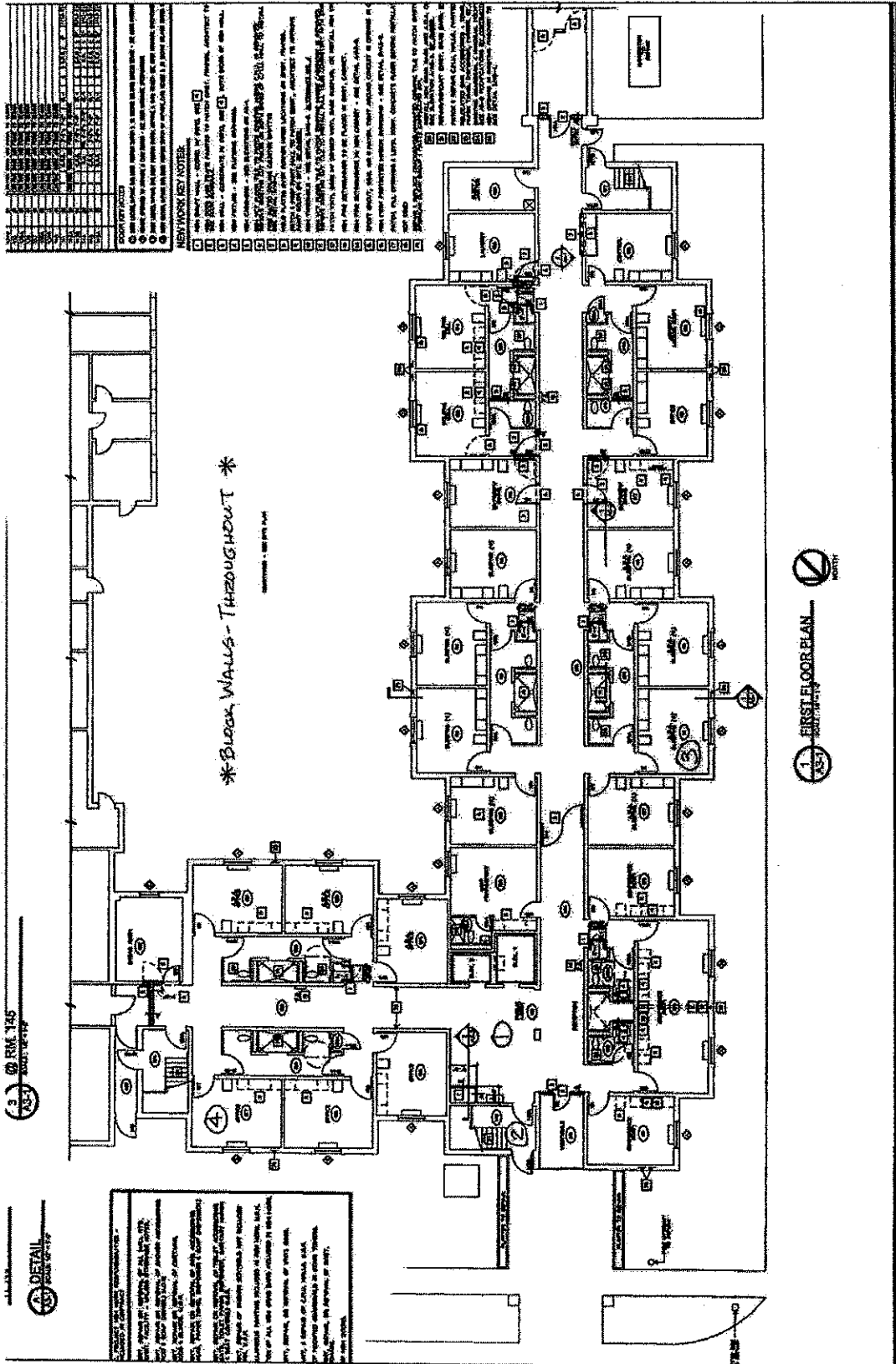
Back Side



Left Side

ASTAR ABATEMENT, INC

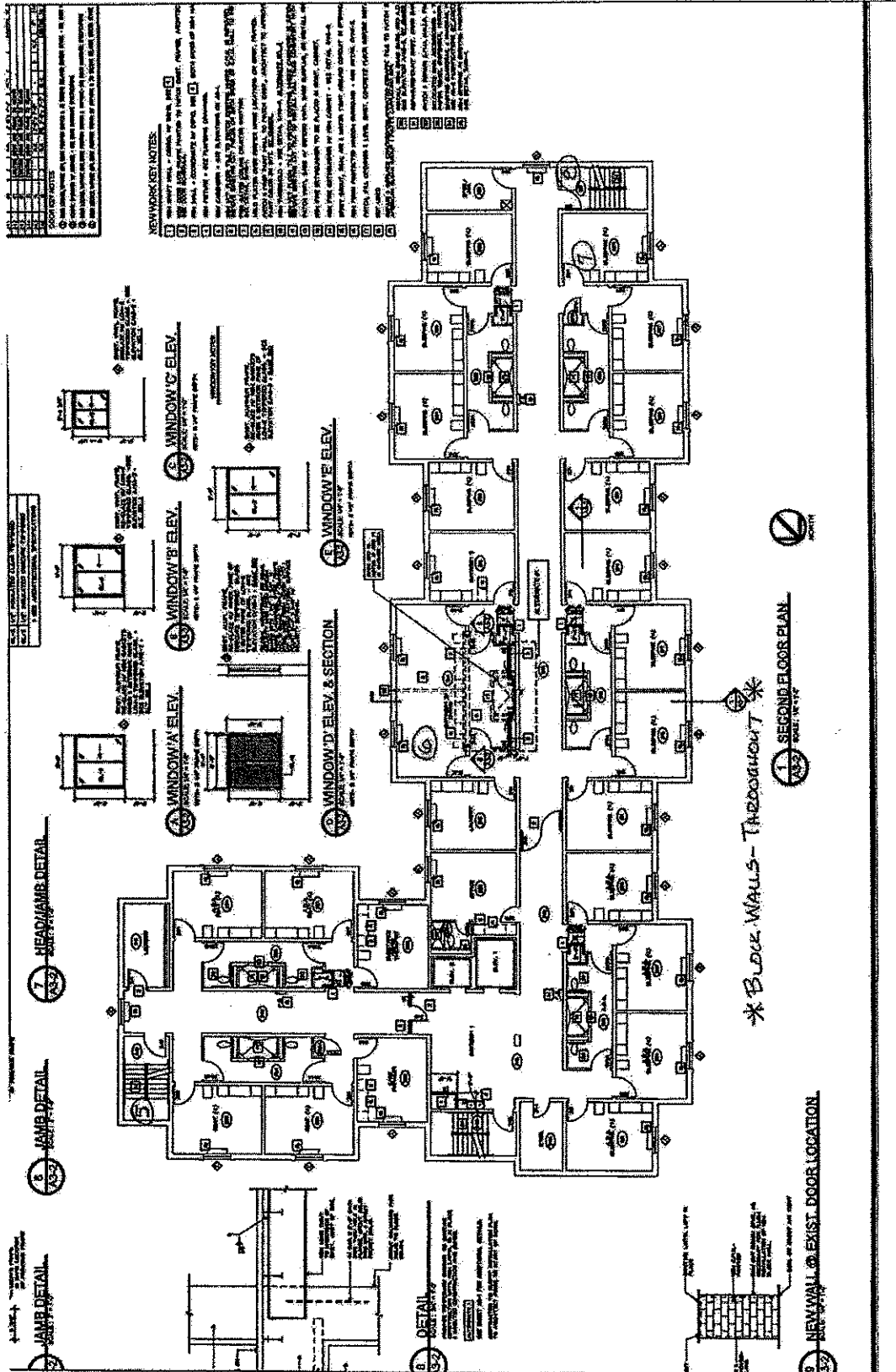
Quality Safety Reliability



108-1 First Floor Plan.dgn 7/14/2010 8:24:16 AM

ASTAR ABATEMENT, INC

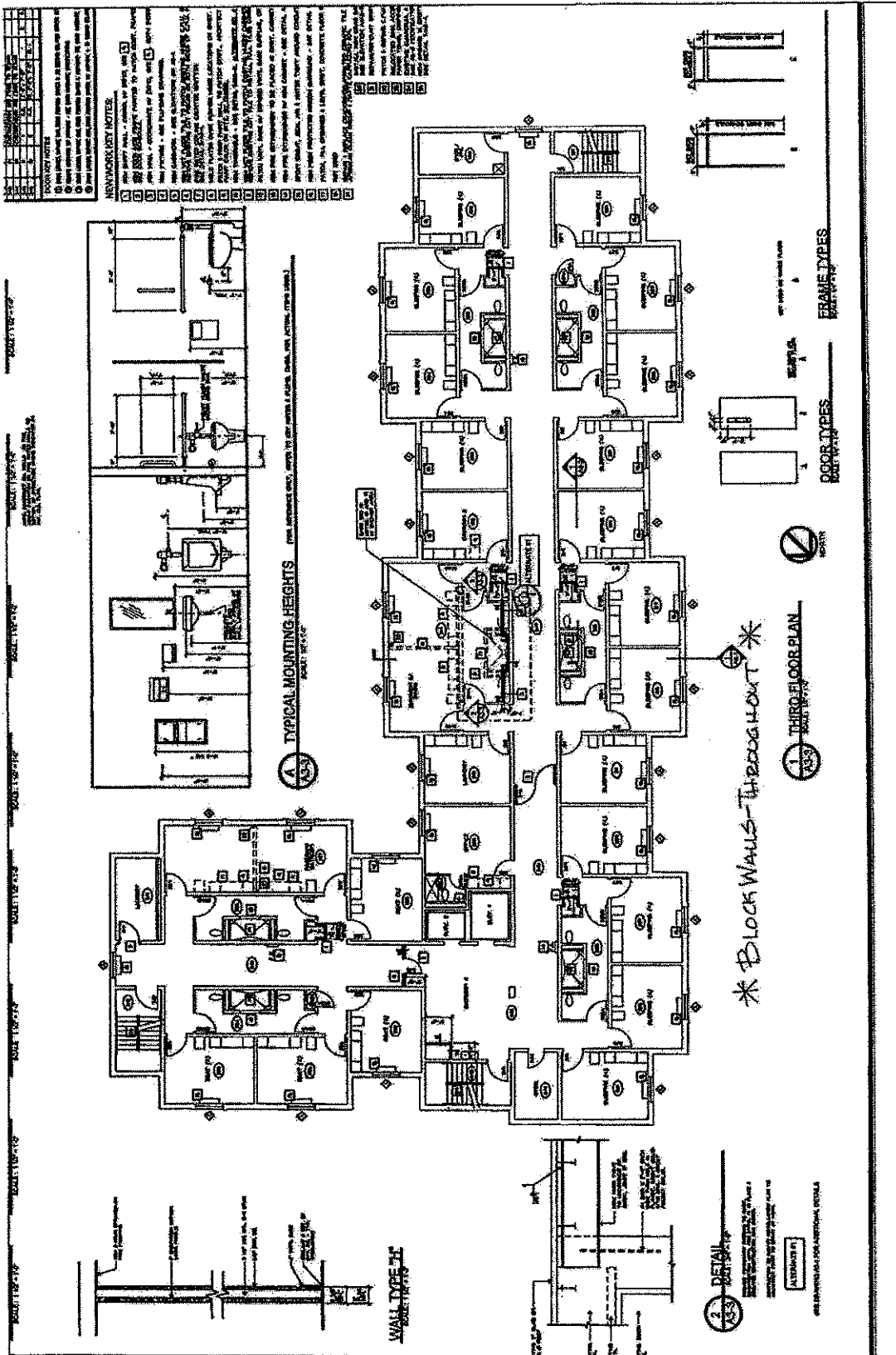
Quality Safety Reliability



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ASTAR ABATEMENT, INC

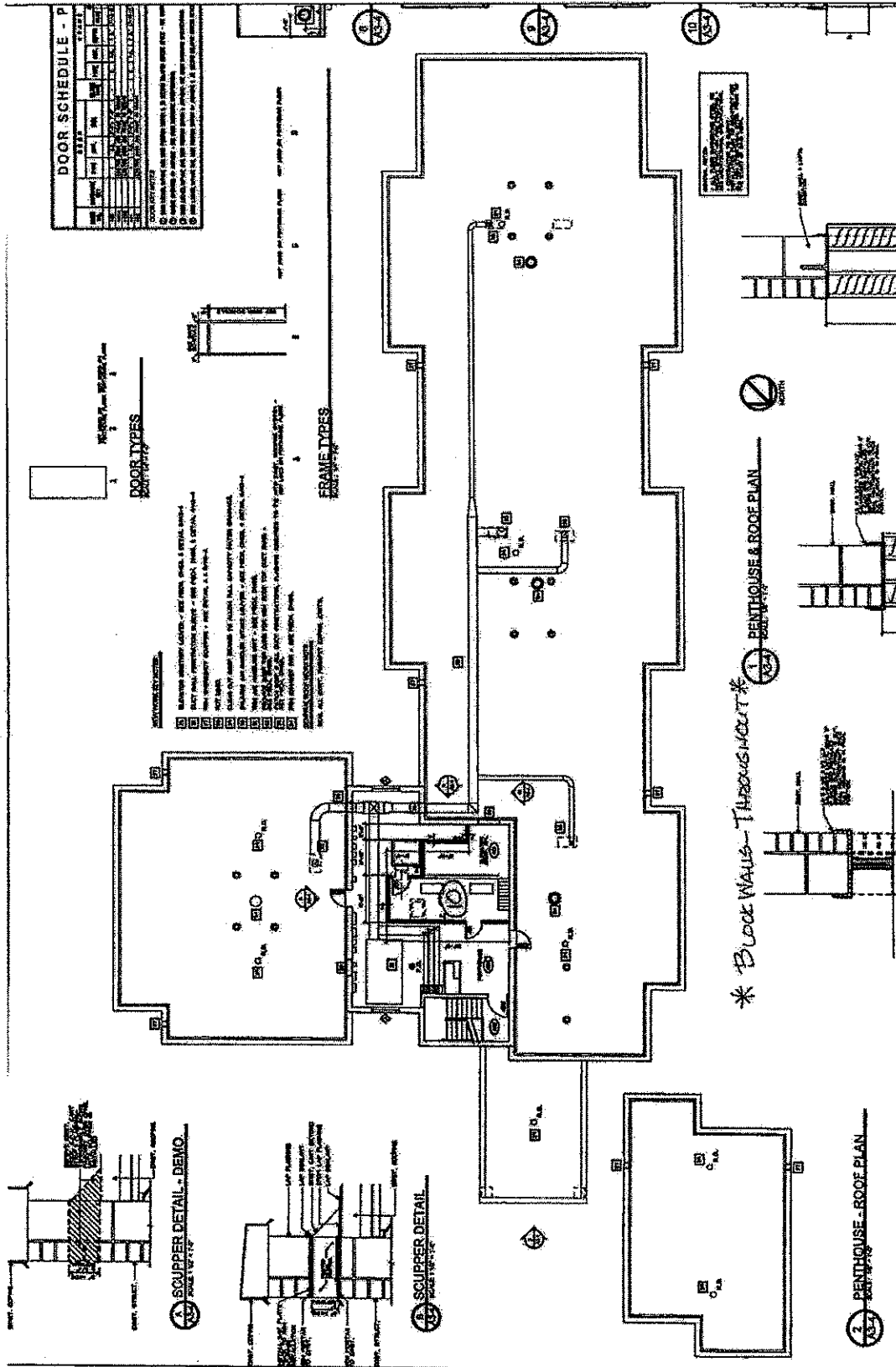
Quality Safety Reliability



..V3-3 Third Floor Plan.dgn 7/14/2010 9:50:55 AM

ASTAR ABATEMENT, INC

Quality Safety Reliability



..103-4 Roof Plan.dgn 7/14/2016 8:41:10 AM



Appendix 1

XRF Sequential Results

**ASTAR ABATEMENT, INC***Quality Safety Reliability***LEAD PAINT INSPECTION REPORT**

REPORT NUMBER: 07/16/10 11:14

INSPECTION FOR: WV DEPARTMENT OF CORRECTIONS
1409 GREENBRIER ST,
CHARLESTON, WV 25311PERFORMED AT: BUILDING 'B'
WV. REHABILITATION CENTER
INSTITUTE, WV

INSPECTION DATE: 07/16/10

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number:ACTION LEVEL: 1.0 mg/cm²OPERATOR LICENSE: PI 000330SIGNED: Date: 7-19-2010

ASTAR ABATEMENT, INC

Quality Safety Reliability

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 07/16/10
 Report Date: 7/16/2010
 Abatement Level: 1.0
 Report No. 07/16/10 11:14
 Total Readings: 103
 Job Started: 07/16/10 11:14
 Job Finished: 07/16/10 14:10

Read No.	Rm No.	Room Name	Wall Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
1		CALIBRATION							0.8	TC
2		CALIBRATION							0.8	TC
3		CALIBRATION							0.8	TC
4	001	143	B Wall		Lft	I Block		beige	-0.2	QM
5	001	143	B Wall		Lft	I ceramic	bk	black	2.5	QM
6	001	143	B Wall		Lft Baseboard	I vinyl		brown	0.1	QM
7	001	143	B Floor		Lft	I Ceramic	ti	brown	-0.5	QM
8	001	143	C Door		Lft U Rgt	I Steel		brown	-0.1	QM
9	001	143	C Door		Lft Lft casing	I Steel		brown	-0.1	QM
10	001	143	C Ceiling		Lft Beam	I Steel		red	-0.1	QM
11	001	143	C Ceiling		Lft J-Joist	I Steel		red	-0.1	QM
12	001	143	C Ceiling		Lft Pan	I Steel		gray	0.3	QM
13	001	143	C Door		Lft U Rgt	I Wood		varnish	0.0	QM
14	001	143	C Door		Lft Lft casing	I Steel		brown	0.5	QM
15	002	141	C Door		Lft Lft casing	I Steel		brown	0.0	QM
16	002	141	C Door		Lft U Rgt	I Steel		brown	0.5	QM
17	002	141	C Wall		Lft	I Block		beige	0.3	QM
18	002	141	A Stairs		Lft Treads	I Steel		brown	2.1	QM
19	002	141	A Stairs		Lft Risers	I Steel		brown	4.1	QM
20	002	141	A Stairs		Lft Stringers	I Steel		brown	2.1	QM
21	002	141	A Stairs		Lft Baseboard	I Steel		brown	4.6	QM
22	002	141	A Stairs		Lft Balusters	I Steel		brown	3.9	QM
23	002	141	A Stairs		Lft Railing cap	I Wood		varnish	-0.2	QM
24	002	141	A Ceiling		Lft Beam	I Steel		brown	4.1	QM
25	002	141	A Ceiling		Lft Pan	I Steel		brown	3.6	QM
26	003	111	B Door		Lft U Rgt	I Wood		varnish	-0.1	QM
27	003	111	B Door		Lft Rgt casing	I Steel		brown	-0.1	QM
28	003	111	B Wall		Lft	I Block		beige	0.1	QM
29	003	111	D Wall		Lft	I Block		beige	0.0	QM
30	003	111	D Window		Lft Lintel	I Steel		beige	0.1	QM
31	003	111	D Window		Lft Register	I Steel		yellow	0.0	QM
32	003	111	D Wall		Lft lower	I ceramic	bk	black	2.0	QM
33	003	111	B cabinet		Lft	I Wood		brown	-0.1	QM
34	003	111	B Ceiling		Lft J-Joist	F Steel		red	-0.1	QM
35	003	111	B Ceiling		Lft Pan	P Steel		black	0.5	QM
36	004	137	B Door		Lft U Rgt	I Wood		varnish	-0.2	QM
37	004	137	B Door		Lft Rgt casing	I Steel		brown	0.4	QM
38	004	137	A Window		Lft Sash	I vinyl		white	-0.2	QM
39	004	137	A Window		Lft Lintel	I Steel		beige	1.0	QM
40	004	137	A Window		Lft Register	I Steel		yellow	-0.1	QM
41	004	137	A Wall		Lft	I Block		beige	0.1	QM
42	004	137	A Ceiling		Lft J-Joist	F Steel		red	-0.1	QM
43	004	137	A Ceiling		Lft Pan	P Steel		black	0.5	QM
44	004	137	C cabinet		Lft	I Wood		brown	-0.1	QM
45	005	242	C Door		Lft U Rgt	I Steel		brown	-0.1	QM
46	005	242	C Door		Lft Lft casing	I Steel		brown	0.2	QM
47	005	242	C Wall		Lft	I Block		beige	0.0	QM



SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Read No.	Rm No.	Room Name	Wall Structure	Location	Member	Paint		Color	Lead (mg/cm ²)	Mode
						Cond	Substrate			
48	005	242	A Wall		Lft	I	Block	beige	-0.1	QM
49	005	242	A Stairs		Lft Treads	I	Steel	brown	2.0	QM
50	005	242	A Stairs		Lft Risers	I	Steel	brown	2.6	QM
51	005	242	A Stairs		Lft Stringers	I	Steel	brown	9.9	QM
52	005	242	A Stairs		Lft Baseboard	I	Steel	brown	7.8	QM
53	005	242	A Stairs		Lft Balusters	I	Steel	brown	7.7	QM
54	005	242	A Stairs		Lft Railing cap	I	Wood	varnish	0.0	QM
55	005	242	A Ceiling		Lft Beam	I	Steel	brown	3.3	QM
56	006	210	D Door		Lft U Rgt	I	Wood	varnish	-0.4	QM
57	006	210	D Door		Lft Lft casing	I	Steel	brown	-0.1	QM
58	006	210	D Wall		Lft	I	Block	beige	0.1	QM
59	006	210	B Wall		Lft	I	Block	beige	0.2	QM
60	006	210	B Wall		Lft lower	I	ceramic bk	black	1.0	QM
61	006	210	B Window		Lft Lintel	I	Steel	beige	-0.1	QM
62	006	210	B Window		Lft Register	I	Steel	yellow	-0.1	QM
63	006	210	D cabinet		Lft	I	Wood	varnish	-0.3	QM
64	007	229	A Door		Lft U Rgt	I	Wood	varnish	0.1	QM
65	007	229	A Door		Lft Lft casing	I	Steel	brown	1.0	QM
66	007	229	A Wall		Lft	I	Block	beige	-0.2	QM
67	007	229	C Wall		Lft	I	Block	beige	-0.1	QM
68	007	229	D Window		Lft Lintel	I	Steel	beige	0.4	QM
69	007	229	D Window		Lft Register	I	Steel	yellow	-0.1	QM
70	008	231	D Door		Lft U Rgt	I	Steel	brown	-0.1	QM
71	008	231	D Door		Lft Rgt casing	I	Steel	brown	0.0	QM
72	008	231	D Wall		Lft	I	Block	beige	-0.1	QM
73	008	231	B Wall		Lft	I	Block	beige	-0.1	QM
74	008	231	B Stairs		Lft Treads	I	Steel	brown	1.0	QM
75	008	231	B Stairs		Lft Risers	I	Steel	brown	1.0	QM
76	008	231	B Stairs		Lft Stringers	I	Steel	brown	7.7	QM
77	008	231	B Stairs		Lft Baseboard	I	Steel	brown	9.5	QM
78	008	231	B Stairs		Lft Balusters	I	Steel	brown	6.9	QM
79	008	231	B Stairs		Lft Railing cap	I	Wood	varnish	-0.1	QM
80	009	347	B Closet		Lft Door	I	Wood	varnish	0.0	QM
81	009	347	B Closet		Lft Door Casing	I	Steel	brown	1.0	QM
82	009	347	B Closet		Lft Wall	I	Block	beige	-0.1	QM
83	009	347	D Wall		Lft	I	Block	beige	0.0	QM
84	009	347	B Wall		Lft	I	Block	beige	-0.1	QM
85	009	347	B Wall		Lft lower	I	ceramic bk	black	1.0	QM
86	009	347	B Ceiling		Lft Beam	F	Steel	red	-0.1	QM
87	009	347	B Ceiling		Lft J-Joist	F	Steel	red	0.3	QM
88	009	347	B Ceiling		Lft Pan	F	Steel	black	1.0	QM
89	010	400	A Door		Lft U Rgt	I	Steel	brown	-0.1	QM
90	010	400	A Door		Lft Rgt casing	I	Steel	brown	-0.1	QM
91	010	400	A Wall		Lft	I	Block	beige	0.1	QM
92	010	400	A Wall		Lft lower	I	ceramic bk	black	1.8	QM
93	010	400	C Wall		Lft lower	I	Block	beige	0.2	QM
94	010	400	C Stairs		Lft Treads	I	Steel	black	-0.1	QM
95	010	400	C Stairs		Lft Stringers	I	Steel	brown	4.7	QM
96	010	400	C Stairs		Lft Railing cap	I	Steel	brown	3.6	QM
97	010	400	C Ceiling		Lft J-Joist	I	Steel	beige	-0.1	QM
98	010	400	C Ceiling		Lft Beam	I	Steel	beige	-0.1	QM
99	010	400	C Ceiling		Lft HVAC	I	Steel	beige	-0.2	QM
100	010	400	C Floor		Lft	I	Concrete	gray	-0.1	QM
101		CALIBRATION							0.8	TC
102		CALIBRATION							0.7	TC



SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Read No.	Rm No.	Room Name	Wall Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
103		CALIBRATION							0.7	TC
---- End of Readings ----										

Appendix 2

XRF Summary Results

ASTAR ABATEMENT, INC

Quality Safety Reliability

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 07/16/10
 Report Date: 7/16/2010
 Abatement Level: 1.0
 Report No. 07/16/10 11:14
 Total Readings: 103 Actionable: 29
 Job Started: 07/16/10 11:14
 Job Finished: 07/16/10 14:10

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 001 143									
005	B	Wall	Lft		I	ceramic bk	black	2.5	QM
Interior Room 002 141									
024	A	Ceiling	Lft	Beam	I	Steel	brown	4.1	QM
025	A	Ceiling	Lft	Pan	I	Steel	brown	3.6	QM
020	A	Stairs	Lft	Stringers	I	Steel	brown	2.1	QM
021	A	Stairs	Lft	Baseboard	I	Steel	brown	4.6	QM
018	A	Stairs	Lft	Treads	I	Steel	brown	2.1	QM
019	A	Stairs	Lft	Risers	I	Steel	brown	4.1	QM
022	A	Stairs	Lft	Balusters	I	Steel	brown	3.9	QM
Interior Room 003 111									
032	D	Wall	Lft	lower	I	ceramic bk	black	2.0	QM
Interior Room 004 137									
039	A	Window	Lft	Lintel	I	Steel	beige	1.0	QM
Interior Room 005 242									
055	A	Ceiling	Lft	Beam	I	Steel	brown	3.3	QM
051	A	Stairs	Lft	Stringers	I	Steel	brown	9.9	QM
052	A	Stairs	Lft	Baseboard	I	Steel	brown	7.8	QM
049	A	Stairs	Lft	Treads	I	Steel	brown	2.0	QM
050	A	Stairs	Lft	Risers	I	Steel	brown	2.6	QM
053	A	Stairs	Lft	Balusters	I	Steel	brown	7.7	QM
Interior Room 006 210									
060	B	Wall	Lft	lower	I	ceramic bk	black	1.0	QM
Interior Room 007 229									
065	A	Door	Lft	Lft casing	I	Steel	brown	1.0	QM
Interior Room 008 231									
076	B	Stairs	Lft	Stringers	I	Steel	brown	7.7	QM
077	B	Stairs	Lft	Baseboard	I	Steel	brown	9.5	QM
074	B	Stairs	Lft	Treads	I	Steel	brown	1.0	QM
075	B	Stairs	Lft	Risers	I	Steel	brown	1.0	QM
078	B	Stairs	Lft	Balusters	I	Steel	brown	6.9	QM
Interior Room 009 347									
085	B	Wall	Lft	lower	I	ceramic bk	black	1.0	QM
088	B	Ceiling	Lft	Pan	P	Steel	black	1.0	QM
081	B	Closet	Lft	Door Casing	I	Steel	brown	1.0	QM
Interior Room 010 400									
092	A	Wall	Lft	lower	I	ceramic bk	black	1.8	QM
095	C	Stairs	Lft	Stringers	I	Steel	brown	4.7	QM
096	C	Stairs	Lft	Railing cap	I	Steel	brown	3.6	QM
---- End of Readings ----									

ASTAR ABATEMENT, INC

Quality Safety Reliability

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 07/16/10
 Report Date: 7/16/2010
 Abatement Level: 1.0
 Report No. 07/16/10 11:14
 Total Readings: 103
 Job Started: 07/16/10 11:14
 Job Finished: 07/16/10 14:10

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 001 143									
004	B	Wall	Lft		I	Block	beige	-0.2	QM
005	B	Wall	Lft		I	ceramic bk	black	2.5	QM
006	B	Wall	Lft	Baseboard	I	vinyl	brown	0.1	QM
007	B	Floor	Lft		I	Ceramic ti	brown	-0.5	QM
010	C	Ceiling	Lft	Beam	I	Steel	red	-0.1	QM
011	C	Ceiling	Lft	J-Joist	I	Steel	red	-0.1	QM
012	C	Ceiling	Lft	Pan	I	Steel	gray	0.3	QM
009	C	Door	Lft	Lft casing	I	Steel	brown	-0.1	QM
014	C	Door	Lft	Lft casing	I	Steel	brown	0.5	QM
008	C	Door	Lft	U Rgt	I	Steel	brown	-0.1	QM
013	C	Door	Lft	U Rgt	I	Wood	varnish	0.0	QM
Interior Room 002 141									
024	A	Ceiling	Lft	Beam	I	Steel	brown	4.1	QM
025	A	Ceiling	Lft	Pan	I	Steel	brown	3.6	QM
020	A	Stairs	Lft	Stringers	I	Steel	brown	2.1	QM
021	A	Stairs	Lft	Baseboard	I	Steel	brown	4.6	QM
018	A	Stairs	Lft	Treads	I	Steel	brown	2.1	QM
019	A	Stairs	Lft	Risers	I	Steel	brown	4.1	QM
022	A	Stairs	Lft	Balusters	I	Steel	brown	3.9	QM
023	A	Stairs	Lft	Railing cap	I	Wood	varnish	-0.2	QM
017	C	Wall	Lft		I	Block	beige	0.3	QM
015	C	Door	Lft	Lft casing	I	Steel	brown	0.0	QM
016	C	Door	Lft	U Rgt	I	Steel	brown	0.5	QM
Interior Room 003 111									
033	B	cabinet	Lft		I	Wood	brown	-0.1	QM
028	B	Wall	Lft		I	Block	beige	0.1	QM
034	B	Ceiling	Lft	J-Joist	F	Steel	red	-0.1	QM
035	B	Ceiling	Lft	Pan	P	Steel	black	0.5	QM
027	B	Door	Lft	Rgt casing	I	Steel	brown	-0.1	QM
026	B	Door	Lft	U Rgt	I	Wood	varnish	-0.1	QM
029	D	Wall	Lft		I	Block	beige	0.0	QM
032	D	Wall	Lft	lower	I	ceramic bk	black	2.0	QM
030	D	Window	Lft	Lintel	I	Steel	beige	0.1	QM
031	D	Window	Lft	Register	I	Steel	yellow	0.0	QM
Interior Room 004 137									
041	A	Wall	Lft		I	Block	beige	0.1	QM
042	A	Ceiling	Lft	J-Joist	F	Steel	red	-0.1	QM
043	A	Ceiling	Lft	Pan	P	Steel	black	0.5	QM
039	A	Window	Lft	Lintel	I	Steel	beige	1.0	QM
040	A	Window	Lft	Register	I	Steel	yellow	-0.1	QM
038	A	Window	Lft	Sash	I	vinyl	white	-0.2	QM
037	B	Door	Lft	Rgt casing	I	Steel	brown	0.4	QM
036	B	Door	Lft	U Rgt	I	Wood	varnish	-0.2	QM
044	C	cabinet	Lft		I	Wood	brown	-0.1	QM
Interior Room 005 242									

ASTAR ABATEMENT, INC

Quality Safety Reliability

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
048	A	Wall	Lft		I	Block	beige	-0.1	QM
055	A	Ceiling	Lft	Beam	I	Steel	brown	3.3	QM
051	A	Stairs	Lft	Stringers	I	Steel	brown	9.9	QM
052	A	Stairs	Lft	Baseboard	I	Steel	brown	7.8	QM
049	A	Stairs	Lft	Treads	I	Steel	brown	2.0	QM
050	A	Stairs	Lft	Risers	I	Steel	brown	2.6	QM
053	A	Stairs	Lft	Balusters	I	Steel	brown	7.7	QM
054	A	Stairs	Lft	Railing cap	I	Wood	varnish	0.0	QM
047	C	Wall	Lft		I	Block	beige	0.0	QM
046	C	Door	Lft	Lft casing	I	Steel	brown	0.2	QM
045	C	Door	Lft	U Rgt	I	Steel	brown	-0.1	QM
Interior Room 006 210									
059	B	Wall	Lft		I	Block	beige	0.2	QM
060	B	Wall	Lft	lower	I	ceramic bk	black	1.0	QM
061	B	Window	Lft	Lintel	I	Steel	beige	-0.1	QM
062	B	Window	Lft	Register	I	Steel	yellow	-0.1	QM
063	D	cabinet	Lft		I	Wood	varnish	-0.3	QM
058	D	Wall	Lft		I	Block	beige	0.1	QM
057	D	Door	Lft	Lft casing	I	Steel	brown	-0.1	QM
056	D	Door	Lft	U Rgt	I	Wood	varnish	-0.4	QM
Interior Room 007 229									
066	A	Wall	Lft		I	Block	beige	-0.2	QM
065	A	Door	Lft	Lft casing	I	Steel	brown	1.0	QM
064	A	Door	Lft	U Rgt	I	Wood	varnish	0.1	QM
067	C	Wall	Lft		I	Block	beige	-0.1	QM
068	D	Window	Lft	Lintel	I	Steel	beige	0.4	QM
069	D	Window	Lft	Register	I	Steel	yellow	-0.1	QM
Interior Room 008 231									
073	B	Wall	Lft		I	Block	beige	-0.1	QM
076	B	Stairs	Lft	Stringers	I	Steel	brown	7.7	QM
077	B	Stairs	Lft	Baseboard	I	Steel	brown	9.5	QM
074	B	Stairs	Lft	Treads	I	Steel	brown	1.0	QM
075	B	Stairs	Lft	Risers	I	Steel	brown	1.0	QM
078	B	Stairs	Lft	Balusters	I	Steel	brown	6.9	QM
079	B	Stairs	Lft	Railing cap	I	Wood	varnish	-0.1	QM
072	D	Wall	Lft		I	Block	beige	-0.1	QM
071	D	Door	Lft	Rgt casing	I	Steel	brown	0.0	QM
070	D	Door	Lft	U Rgt	I	Steel	brown	-0.1	QM
Interior Room 009 347									
084	B	Wall	Lft		I	Block	beige	-0.1	QM
085	B	Wall	Lft	lower	I	ceramic bk	black	1.0	QM
086	B	Ceiling	Lft	Beam	F	Steel	red	-0.1	QM
087	B	Ceiling	Lft	J-Joist	F	Steel	red	0.3	QM
088	B	Ceiling	Lft	Pan	P	Steel	black	1.0	QM
080	B	Closet	Lft	Door	I	Wood	varnish	0.0	QM
081	B	Closet	Lft	Door Casing	I	Steel	brown	1.0	QM
082	B	Closet	Lft	Wall	I	Block	beige	-0.1	QM
083	D	Wall	Lft		I	Block	beige	0.0	QM
Interior Room 010 400									
091	A	Wall	Lft		I	Block	beige	0.1	QM
092	A	Wall	Lft	lower	I	ceramic bk	black	1.8	QM
090	A	Door	Lft	Rgt casing	I	Steel	brown	-0.1	QM



ASTAR ABATEMENT, INC

Quality Safety Reliability

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
089	A	Door	Lft	U Rgt	I	Steel	brown	-0.1	QM
093	C	Wall	Lft	lower	I	Block	beige	0.2	QM
100	C	Floor	Lft		I	Concrete	gray	-0.1	QM
097	C	Ceiling	Lft	J-Joist	I	Steel	beige	-0.1	QM
098	C	Ceiling	Lft	Beam	I	Steel	beige	-0.1	QM
099	C	Ceiling	Lft	HVAC	I	Steel	beige	-0.2	QM
095	C	Stairs	Lft	Stringers	I	Steel	brown	4.7	QM
094	C	Stairs	Lft	Treads	I	Steel	black	-0.1	QM
096	C	Stairs	Lft	Railing cap	I	Steel	brown	3.6	QM

Calibration Readings

001								0.8	TC
002								0.8	TC
003								0.8	TC
101								0.8	TC
102								0.7	TC
103								0.7	TC

---- End of Readings ----



Appendix 3

XRF Distribution Report



ASTAR ABATEMENT, INC
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DISTRIBUTION REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 07/16/10
 Report Date: 7/16/2010
 Abatement Level: 1.0
 Report No. 07/16/10 11:14
 Total Reading Sets: 97
 Job Started: 07/16/10 11:14
 Job Finished: 07/16/10 14:10

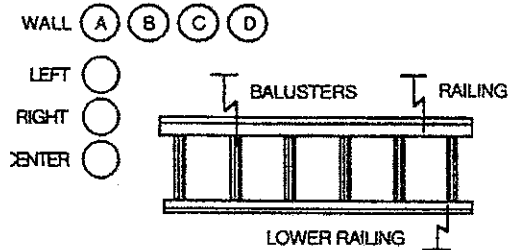
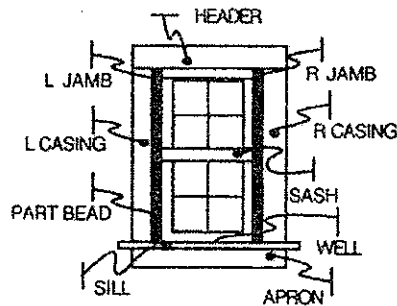
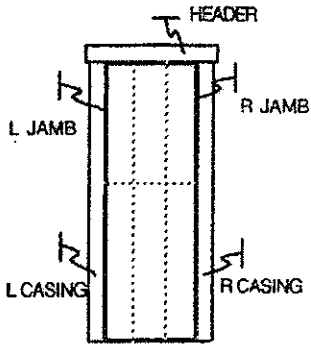
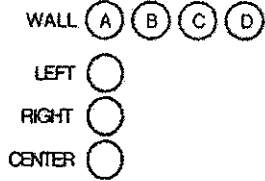
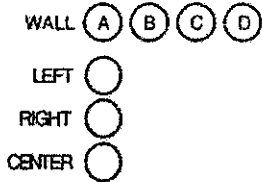
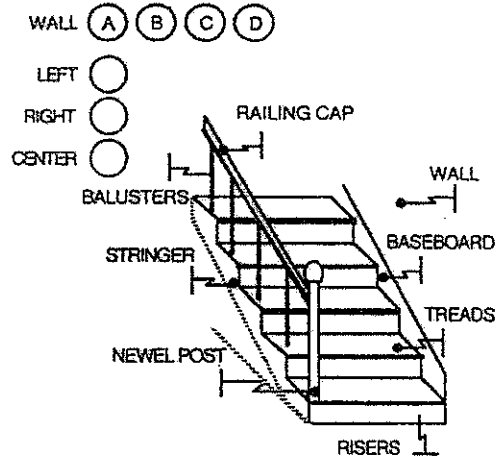
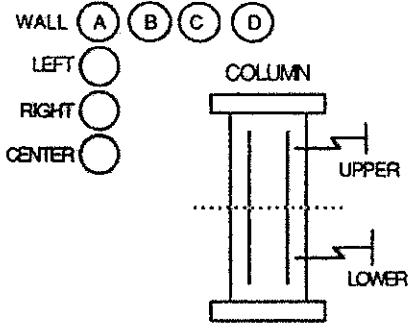
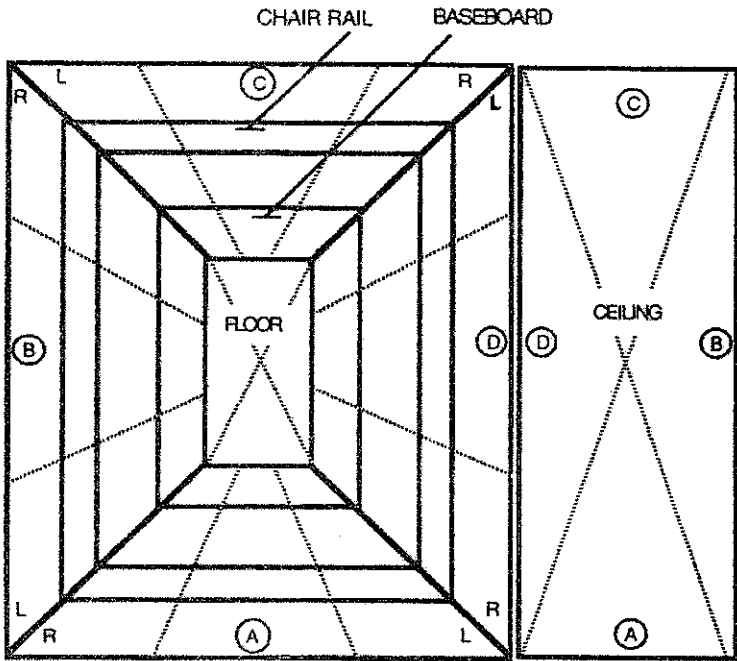
Structure	Total	Structure Distribution		
		Positive	Negative	Inconclusive
cabinet	3	0 <0%>	3 <100%>	0 <0%>
Ceiling Beam	5	2 <40%>	3 <60%>	0 <0%>
Ceiling HVAC	1	0 <0%>	1 <100%>	0 <0%>
Ceiling J-Joist	5	0 <0%>	5 <100%>	0 <0%>
Ceiling Pan	5	2 <40%>	3 <60%>	0 <0%>
Closet Door	1	0 <0%>	1 <100%>	0 <0%>
Closet Door Casing	1	1 <100%>	0 <0%>	0 <0%>
Closet Wall	1	0 <0%>	1 <100%>	0 <0%>
Door Lft casing	6	1 <17%>	5 <83%>	0 <0%>
Door Rgt casing	4	0 <0%>	4 <100%>	0 <0%>
Door U Rgt	10	0 <0%>	10 <100%>	0 <0%>
Floor	2	0 <0%>	2 <100%>	0 <0%>
Stairs Balusters	3	3 <100%>	0 <0%>	0 <0%>
Stairs Baseboard	3	3 <100%>	0 <0%>	0 <0%>
Stairs Railing cap	4	1 <25%>	3 <75%>	0 <0%>
Stairs Risers	3	3 <100%>	0 <0%>	0 <0%>
Stairs Stringers	4	4 <100%>	0 <0%>	0 <0%>
Stairs Treads	4	3 <75%>	1 <25%>	0 <0%>
Wall	17	1 <6%>	16 <94%>	0 <0%>
Wall Baseboard	1	0 <0%>	1 <100%>	0 <0%>
Wall lower	5	4 <80%>	1 <20%>	0 <0%>
Window Lintel	4	1 <25%>	3 <75%>	0 <0%>
Window Register	4	0 <0%>	4 <100%>	0 <0%>
Window Sash	1	0 <0%>	1 <100%>	0 <0%>
Inspection Totals:	97	29 < 30%>	68 < 70%>	0 < 0%>

Appendix 4

Example Room & Component Diagrams

ASTAR ABATEMENT, INC

Quality Safety Reliability

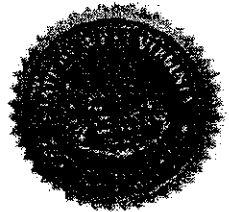


Appendix 5

Certifications / Licenses

ASTAR ABATEMENT, INC
Quality Safety Reliability



	WEST VIRGINIA
	Lead Program
	Robert A. Gerwig
	IS LICENSED AS AN LEAD INSPECTOR
License #	PI000330
Issued:	7/15/2009
Expires:	7/31/2010
<i>Randy C. Curtis</i> Dir., WV RTIA DIV	

ASTAR ABATEMENT, INC

Quality Safety Reliability

PAGE 01/02

ENVIRONMENTAL

04/01/2010 10:14 513230895



Lead Consortium
5830 Salem Road
Cincinnati, OH 45230
Phone (513) 232-2806
www.leadconsortium.org
Class Location:
415 S. Cooper Avenue
Cincinnati, OH 45215
Ohio Provider Number: 0121



Illinois, Kentucky, Missouri, & Pennsylvania Approved Course
Training course meets requirements as outlined by the State of Indiana under 326 IAC 23-3
EPA Approved for Certification Pursuant to Section 402 of TSCA

CERTIFIES THAT
ROBERT A. GERWIG
609 Corn St.
Charleston, WV 25302
SSN 233-82-6444

has successfully completed
The **APPROVED** Lead Training **COURSE** for **INSPECTOR**
and has passed the required examination in that discipline

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 & 15 U.S.C. 2615), I certify that this training complies with the applicable requirements of Title IV of the "Toxic Substances Control Act", 40 CFR Part 745, and any other applicable Federal, State or local requirements, as amended.

Course Date: 03/22/10-03/24/10
Exam/Issuance Date: 03/24/10
Certificate No.: C032410-02
Expiration Date: 03/24/11 (Ohio Only)
Interim Expiration Date: 09/24/10 (EPA Only)

Program Manager/Principal Instructor
Date: 03/24/2010



ASBESTOS REPORT

Report Date:
7-22-2010

Project Number:
10-365A

Asbestos Present:

- Yes
 No
 Friable
 Non-Friable
 Presumed

Property Owner:
**State of West Virginia
Dept. of Corrections
1409 Greenbrier Street
Charleston, WV 25311**

Property Address:
Building 'B'
WV Rehabilitation Center
Institute, WV 25064

SYNOPSIS

Mr. Fraley, WV Department of Corrections, requested an asbestos inspection for the Building 'B' of the WV Rehabilitation Center, Institute, WV. Upon collecting samples of suspect materials and having them analyzed by a accredited laboratory, the results indicated no asbestos containing materials was present in this building.

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Asbestos Inspector
License #: AI005561

Date

Peer Review

Date



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Section 2	Scope.....	4
Section 3	Definitions of Terms, Abbreviations, and Symbols.....	5
Section 4	Sample Collection and Analysis.....	6-7
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Appendices

Appendix	Title
Appendix 1	Laboratory Results
Appendix 2	Certification/License
Appendix 3	Summary of ACM Materials



Section 1 – Executive Summary

Below is a summary of the data and analysis presented in this document. Additional details are provided in the following sections.

Bulk Sample Concentrations

Astar Abatement, Inc. (Astar) collected bulk samples of suspect materials. Forty-nine (49) sample(s) of suspect materials were collected from the structure as described in Section 4 Data Collection and Analysis.

The collected samples were forwarded to Pinnacle Environmental, located in Winfield, WV, for analysis. Table 1 in APPENDIX 3 presents a synopsis of the laboratory data. The results that indicate regulated asbestos containing materials are in highlighted in red.

Conclusions

The analytical results indicate that some of the materials identified in this report are asbestos containing. Current laws and regulations require the removal of asbestos-containing materials (ACM) prior to any renovation or demolition activities which may disturb these materials. If removal of ACM is necessary, a West Virginia Bureau for Public Health (WVBPH) licensed asbestos abatement contractor should be contracted to perform the removal work and submit necessary regulatory notifications. If the property is a single family dwelling and the occupant is also the owner, he/she must contact the West Virginia Bureau for Public Health to get a waiver in order to perform the removal themselves. The WVBPH, Office of Radiation, Toxins and Indoor Air may be reached at 304-558-2981.

Caution should be exercised during the renovation/demolition activities in the event materials not identified in this report, known, assumed, or suspected to contain asbestos are exposed during these activities. In the event additional suspect material is discovered during this activity, work with the potential for disturbance should be stopped until sampling and analysis has been performed.



Section 2 – Scope of Work

In response to a request from Mr. Philip Farley II, West Virginia Department of Corrections, Astar conducted a complete asbestos inspection of the property on Building 'B', WV Rehabilitation Center, Institute, WV.

The purpose of the inspection was to determine if asbestos containing materials were present prior to renovation. This report represents the results from a full inspection of interior and exterior areas performed in accordance with all established rules and regulations.

This report or any statements or information contained herein shall not be interpreted to imply any conclusions or opinions related in any manner as to whether any potential health risks to individuals exposed to the building environments were or were not present at the time of our inspection or may or may not develop at some time in the future.

This report is not a guarantee or warranty of any kind and was prepared for the exclusive use of the owner and Astar Abatement, Inc. and may be provided to others for disclosure purposes only. Prospective purchasers or any other interested parties are advised that this report is not intended for their use or benefit nor is to be relied upon to ascertain the condition of the property. Astar Abatement, Inc., their employees, agents and subcontractors do not assume any liability for hidden/latent defects or conditions of any kind.

Indemnification:

Astar Abatement, Inc., its employees or subcontractors, shall not be legally responsible for any direct, indirect, incidental, special, consequential or exemplary damages, including (but not restricted to) damages for loss of investment, value, use, expenditure, or other intangible losses (even if Astar has been advised of the possibility of such damages), resulting from: 1) the use or the incapability to use this document or previously related documentation issued by Astar; 2) statements or behavior of any third party; or 3) any other matter relating to our efforts regarding the referenced property. On no occasion shall total legal responsibility to any concerned party for all damages, losses, and causes of action go beyond the amount paid to Astar for the preparation and publication of this specific document.

Every attempt was made to gain access to each and every area or to access representative materials entering or leaving such areas. Astar Abatement, Inc. accepts no liability nor makes any claims regarding asbestos or suspect materials that were not accessible during the inspection process. Especially if such material was located behind or within walls, concrete decks, sub-floors, chases, or was otherwise generally inaccessible without destructive sampling.

The information in the report or portions thereof may be required to be included in the notifications to contractors or other visitors to the building(s). This report is not intended to be used as a specification or work plan for any of the work suggested or recommended in this report.

This report is based upon conditions and practices observed at the property and information made available to the surveyor. This report does not intend to identify all hazards or unsafe practices, or to indicate that other hazards or unsafe practices do not exist at the premises.



Section 3
Definitions of Terms, Abbreviations, and Symbols:

PLM: Polarized Light Microscopy. Standard methodology for analyzing suspect materials for asbestos content.

Limited Scope: Only certain area(s) of the structure was inspected as per the owner's request. Any suspect material in the remaining area must be considered to be asbestos containing until proven otherwise.

Complete Inspection: Inspection of all areas of the structure including interior and exterior materials and all other areas generally accessible.

ND: None Detected -- the level of asbestos was below the detection limit of the analytical method.

<(Left Pointer): Less than...

EPA: United States Environmental Protection Agency

RACM: Regulated Asbestos Containing Material – Any material containing greater than 1% of asbestos.

Friable: Any material, when dry, that can be crushed, crumbled or reduced to powder by hand pressure.

Category I Non-Friable: Resilient floor covering, roofing, gaskets or packings.

Category II Non-Friable: All other non-friable asbestos containing materials.

WVBPH: West Virginia Bureau for Public Health - Radiation, Toxics and Indoor Air Division

Sq. Ft. (sf): Square feet

Ln. Ft.(lf): Linear feet

TSI: Thermal System Insulation

Ftgs: Fittings



Section 4 – Sample Collection and Analysis

This section presents a summary of the sample collection and analysis tasks.

Laboratory Requirements

A laboratory experienced in the analysis of building materials and maintaining traceable quality control documentation is necessary to establish a reliable chain of evidence. The laboratory shall successfully participate in the American Industrial Hygiene Association (AIHA) bulk asbestos quality assurance program or the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP accreditation is required for the analysis of public or private school samples (K-12).

Summary of Data Collection and Analysis

Astar collects samples of suspect materials that may contain asbestos fibers according to the table below:

Est. Quantity of Surfacing Materials	# Samples
<1,000 sq. ft.	3
1,001 sq. ft. – 5,000 sq. ft.	5
>5,000 sq. ft.	7
Thermal System Insulation	
Per Homogeneous area	3
Per 6 In. ft. patch	1
Miscellaneous & Non-Finable	
Per Homogeneous area	1*
*The inspector shall insure that the number of samples taken were “sufficient to determine” whether the material contains asbestos.	

The sample(s) were collected and placed in a clean, sealable container and labeled with a unique identifying number. This sample number was then recorded on the Sample Chain of Custody (COC) and when conditions permit on the sample location to permit identification of the material in the future. To avoid the potential release of asbestos fibers, Astar performs bulk sampling of suspect material in accordance with generally accepted procedures outlined in the Asbestos Hazard Emergency Response Act (AHERA). Additional information may have also been recorded including the date of the inspection, inspector’s name, building name or number, description and location of the material being sampled and quantity of material. The location of the sample may also be recorded on a drawing.

Analysis of Samples

Bulk samples were submitted to the laboratory for analysis by PLM with dispersion staining (EPA-600/R-93/116). The EPA currently recommends this method for the determination of asbestos in bulk samples of suspect materials, can be used for the qualitative identification of the six (6) different types of asbestos fibers: Chrysotile, Amosite, Crocidolite, Anthophyllite, Tremolite and Actinolite. This method specifies that the asbestos content will be estimated and reported as a finite percentage (rounded to the nearest percent) within the range of zero to one hundred percent (0%-100%).

The results of the bulk sample analysis are reported in the laboratory report located in the Appendix of this report. The report includes the sample number, laboratory assigned number along with the asbestos

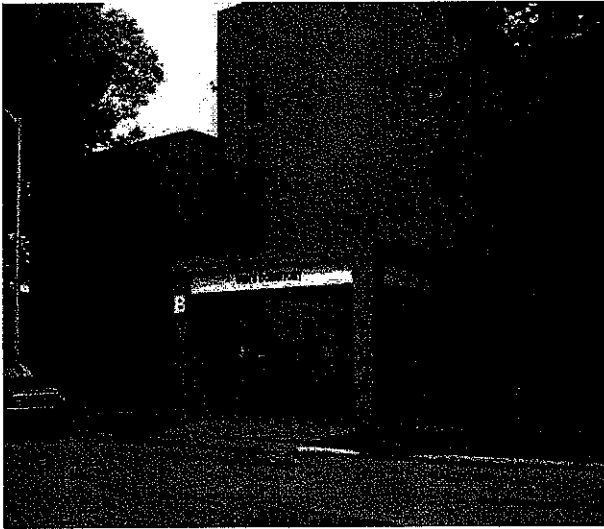


content of each sample. If a bulk sample contained more than one distinct layer of material, each layer was analyzed separately. This separation resulted in a total number of fifty-one (51) samples being analyzed.

The EPA recommends for bulk samples containing less than ten percent (<10%) of asbestos, the sample be analyzed by the point count method reference PLM, EPA 600/R-93/116. This analytical method is a more accurate way of determining the actual asbestos content percentage. For this particular project, 0 sample(s) was/were analyzed using the point count methods. A copy the laboratory results and the chain of custody are located in the Appendix.

ASTAR ABATEMENT, INC
Quality Safety Reliability

Section 5 – Photograph/Drawings



Front



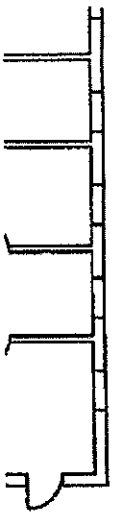
Right Side



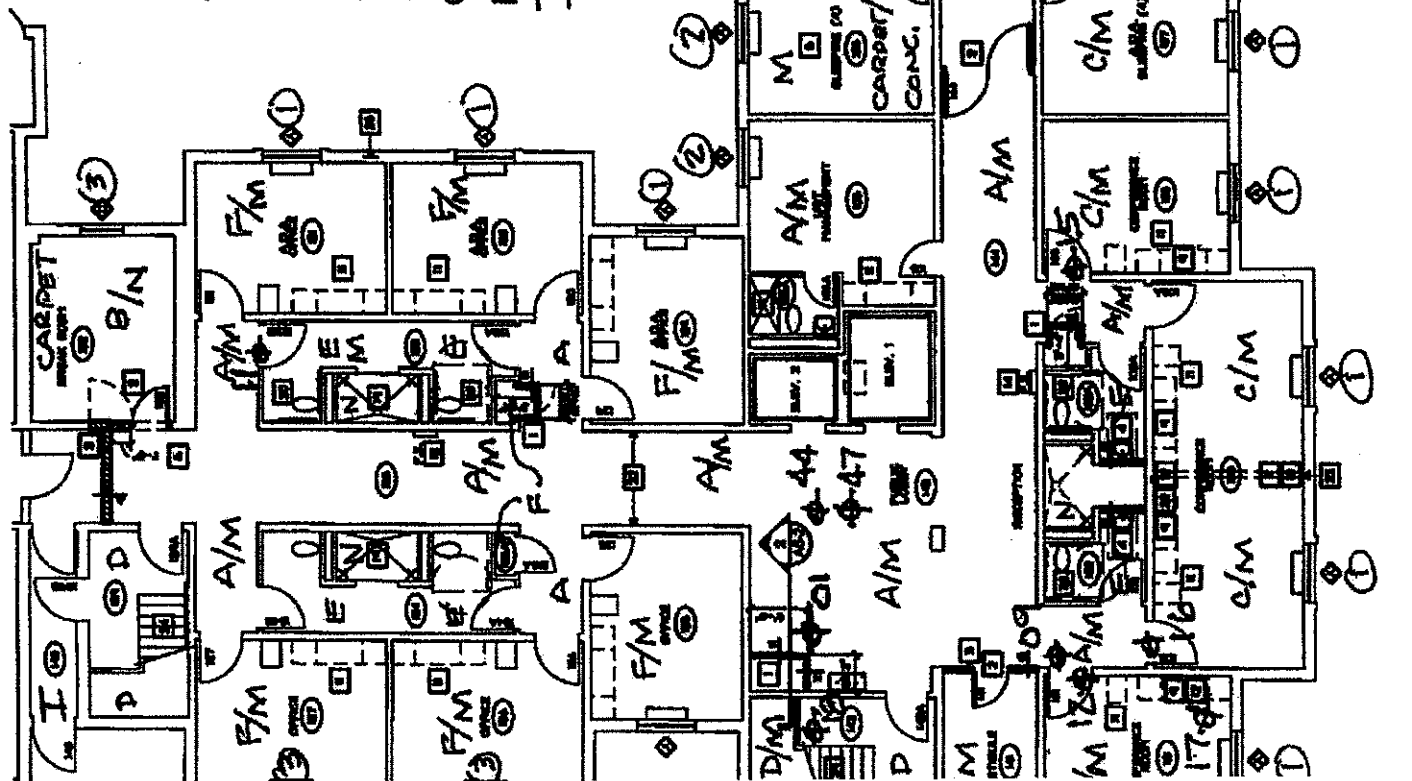
Back Side



Left Side



- A - 12 X 12 FT. BROWN MARBLED
- B - 12 X 12 FT. LT. BROWN MARBLED
- C - 12 X 12 FT. LT. BROWN STREAKED
- D - 12 X 12 FT. DK. BROWN
- E - CERAMIC TILE
- F - 12 X 12 FT. WHITE - SPECKLED (MORE)
- G - 12 X 12 FT. WHITE - SPECKLED (LESS)
- H - 12 X 12 FT. LT. GREEN - STREAKED
- I - LINOLEUM - BEIGE

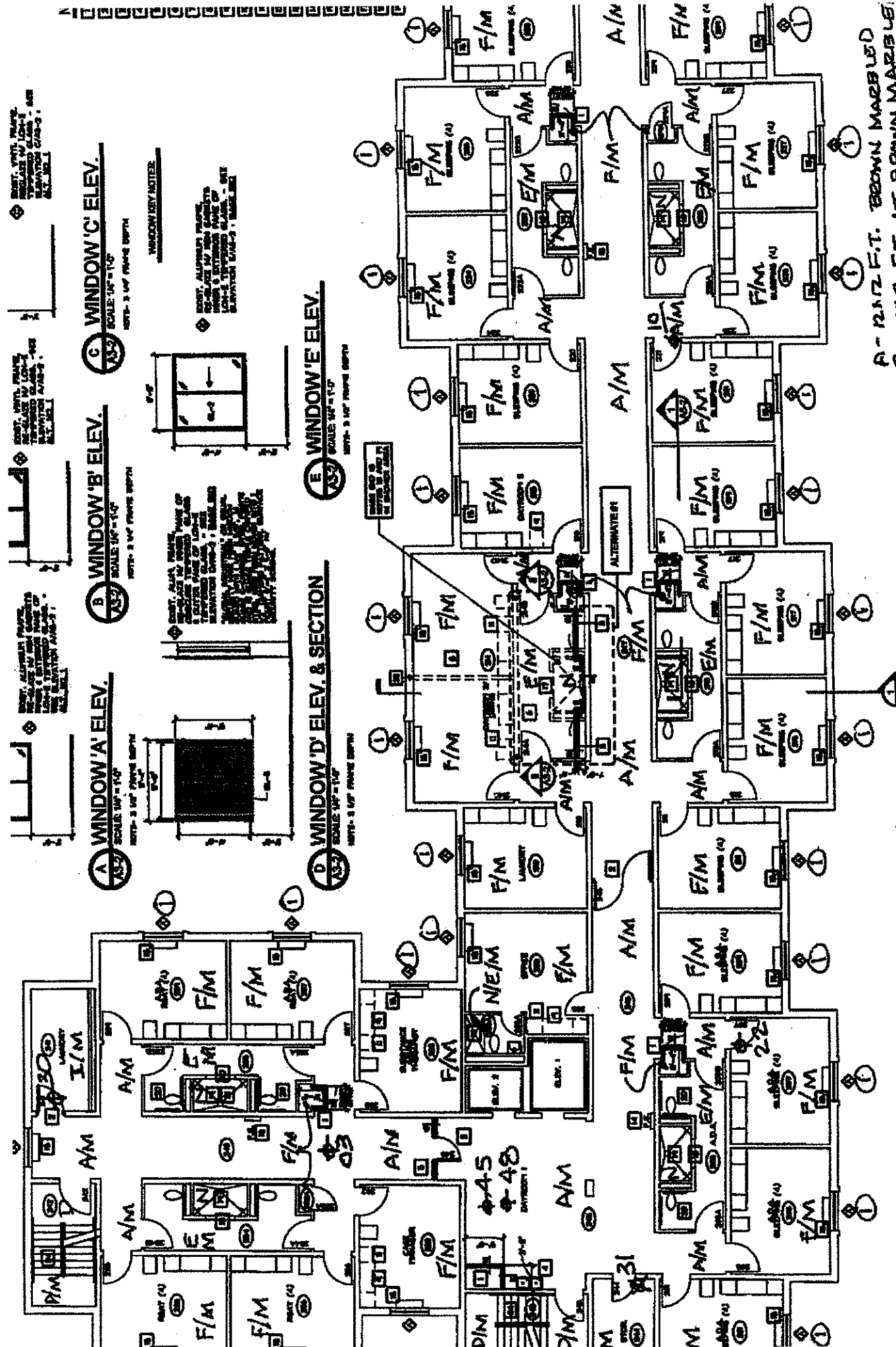


1 - BLOCK WALLS
 1 - DRY WALL
 2 - 2x2 DROP C.T. - FISSURED (OLD)

1 - FIRST FLOOR PLAN
 A3-1

NON ASBESTOS CONT.

57 LO.



- A - 12x12 FT. BROWN MARBLED
- B - 12x12 FT. LT. BROWN MARBLED
- C - 12x12 FT. LT. BROWN STREAK
- D - 12x12 FT. DK. BROWN
- E - CERAMIC TILE
- F - 12x12 FT. WHITE SPECIFIED
- G - 12x12 FT. WHITE SPECIFIED



1 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

- M - BLOCK WALLS
- N - DRY WALL
- O - 2x2 DROP C.T. FISSURED (OLD)
- P - 2x2 DROP C.T. FISSURED (NEW)

NOTE: ALTERNATOR #1
IS LOCATED IN THE
MECHANICAL ROOM
AND IS TO BE
REPLACED BY A
NEW UNIT AS SHOWN
ON DRAWING 1-11.

NOTE: ALTERNATOR #1
IS LOCATED IN THE
MECHANICAL ROOM
AND IS TO BE
REPLACED BY A
NEW UNIT AS SHOWN
ON DRAWING 1-11.

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REPLACED BY A
NEW UNIT AS SHOWN
ON DRAWING 1-11.

NOTE: ALTERNATOR #1
IS LOCATED IN THE
MECHANICAL ROOM
AND IS TO BE
REPLACED BY A
NEW UNIT AS SHOWN
ON DRAWING 1-11.

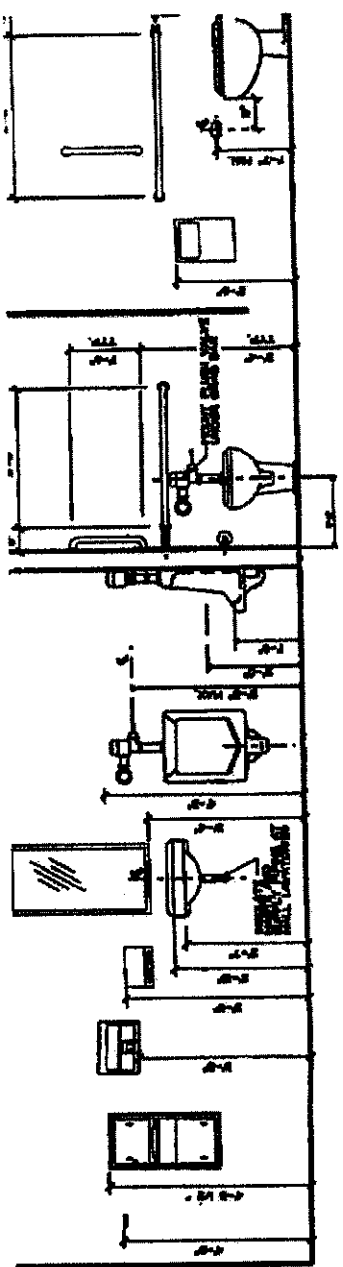
NOTE: ALTERNATOR #1
IS LOCATED IN THE
MECHANICAL ROOM
AND IS TO BE
REPLACED BY A
NEW UNIT AS SHOWN
ON DRAWING 1-11.

NOTE: ALTERNATOR #1
IS LOCATED IN THE
MECHANICAL ROOM
AND IS TO BE
REPLACED BY A
NEW UNIT AS SHOWN
ON DRAWING 1-11.

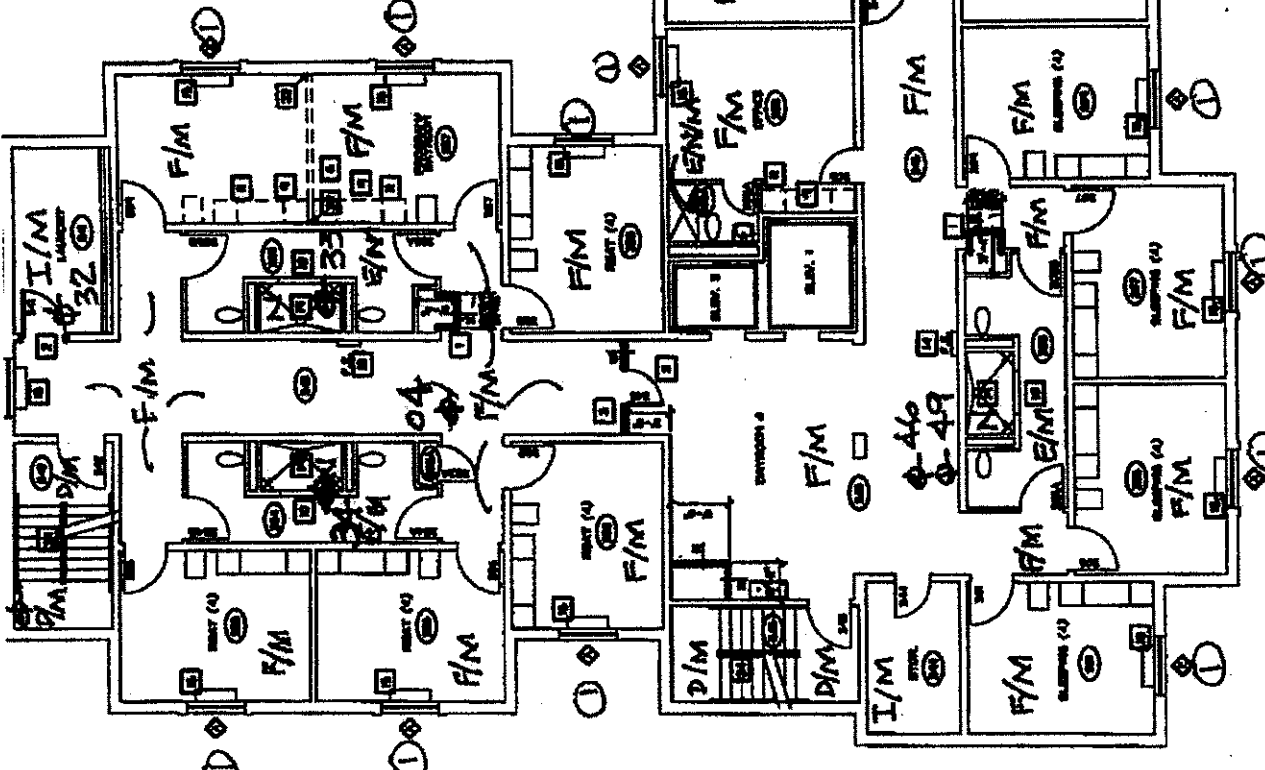
NOTE: ALTERNATOR #1
IS LOCATED IN THE
MECHANICAL ROOM
AND IS TO BE
REPLACED BY A
NEW UNIT AS SHOWN
ON DRAWING 1-11.

NOTE: ALTERNATOR #1
IS LOCATED IN THE
MECHANICAL ROOM
AND IS TO BE
REPLACED BY A
NEW UNIT AS SHOWN
ON DRAWING 1-11.

NOTE: ALTERNATOR #1
IS LOCATED IN THE
MECHANICAL ROOM
AND IS TO BE
REPLACED BY A
NEW UNIT AS SHOWN
ON DRAWING 1-11.

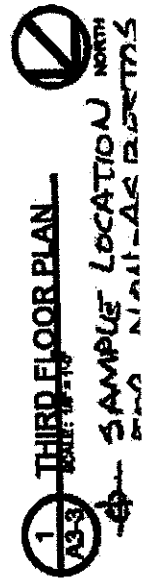


TYPICAL MOUNTING HEIGHTS
(FOR REFERENCE ONLY, REFER TO SET NOTES & PLANS FOR ACTUAL TYPES USED.)
 SCALE: 1/2" = 1'-0"



- A - 12x12 FT. BROWN MARBLED
- B - 12x12 FT. LT. BROWN MARBLED
- C - 12x12 FT. LT. BROWN STRIPED
- D - 12x12 FT. DL. BROWN
- E - CERAMIC TILE
- F - 12x12 FT. WHITE SPECKLED (MORE)
- G - 12x12 FT. WHITE SPECKLED (LESS)
- H - ...

- M - BLOCK WALLS
 - N - DRY WALL
 - O - 2x2 C.T. FISSURED
 - P - 2x2 C.T. FISSURED
- SCALE: 1/2" = 1'-0"
- DOOR TYPES**
SCALE: 1/2" = 1'-0"
- FRAME TYPES**
SCALE: 1/2" = 1'-0"



1 THIRD FLOOR PLAN
 SCALE: 1/2" = 1'-0"

SAMPLE LOCATION
 NORTH
 AND N/A1-A6 B2-B7A5



Appendix 1

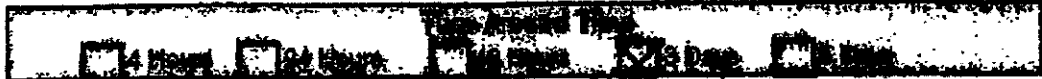
Laboratory Results

61



Client _____
Inspector R. GERWIG

Job # 10-365
Date 7-13-2010



* POSITIVE STOP

Sample ID	Material Description	Lab ID
✓ 365-01	PIPE INSULATION - FORMASCO CONTING	1048-14432
✓ 02	" "	
✓ 03	" "	
✓ 04	" "	
✓ 05	" "	
✓ 06	PIPE INSULATION - MUD JOINT	
✓ 07	" "	
✓ 08	" "	
✓ 09	A-12x12 FT. BROWN MARBLED	
✓ 10	" "	
✓ 11	" "	
✓ 12	B-12x12 FT. LT. BROWN MARBLED	
✓ 13	" "	
✓ 14	" "	
✓ 15	C-12x12 FT. LT. BROWN STRIPED	
✓ 16	" "	
✓ 17	" "	
✓ 18	D-12x12 FT. DARK BROWN	
✓ 19	" "	
✓ 20	" "	
✓ 21	F-12x12 FT. WHITE - SPECKLED (MORE)	
✓ 22	" "	
✓ 23	" "	
✓ 24	G-12x12 FT. WHITE - SPOTTED (LESS)	
✓ 25	" "	
✓ 26	" "	
✓ 27	H-12x12 FT. LT. GREEN STRIPED	
✓ 28	" "	
✓ 29	" "	
✓ 30	I - LINOLEUM - BEIGE	
✓ 31	" "	
✓ 32	" "	
✓ 33	- ROOF DRAINS - MUD JOINTS	
✓ 34	" "	
✓ 35	" "	
✓ 36	- BUILT-UP ROOFING - FLAT	1048-14467

Check Back For Additional Samples

Requested By: <u>R. Gerwig</u>	Date/Time: <u>7/6/10</u>	Requested By:	Date/Time:
Requested By: <u>Received [Signature]</u>	Date/Time: <u>7/16/10</u>	Requested By:	Date/Time:

PO. Box 13536
Sissonville, WV 25360

Corporate E-mail
astarinc@verizon.net

304-984-4030 Voice
304-984-4031 Fax



Client _____
 Inspector R. GERWIG

Job # 10-363
 Date 7-2-2010

Turn-Around Time
 4 Hours 24 Hours 48 Hours 3 Days 6 Days

Sample ID	Material Description	Lab ID
365-37	BUILT-UP ROOFING	1048-14469
38	}	
39		
40		
41	DRYWOOD & JT. COMPOUND	
42	}	
43		
44	2x2 C.T. DROP (OLD)	
45	}	
46		
47	2x2 C.T. DROP NEW	
48	}	
49		
14		
15		
16		
17		
18		
19		
20		
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39		
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42		
43		
44		
45		
46		
47		
48		
49		

Check Back For Additional Samples

Relinquished By: <u>R. Gerwig</u>	Date/Time: <u>7-6-10</u>	Relinquished By:	Date/Time:
Relinquished By:	Date/Time:	Relinquished By:	Date/Time:

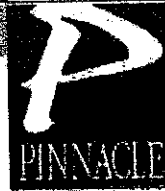
PO. Box 13533
 Sissonville, WV 25960

Corporate E-mail
 astarinc@verizon.net

304-984-4030 Voice
 304-984-4031 Fax

Asbestos Identification by Polarized Light Microscopy

Analysis Report



4000 Prestige Park
Martinsburg, West Virginia
25526
Phone: 804-757-5204
Fax: 804-757-5205

NVLAP LAB CODE: 200718-0

WV License #: LT000360

VA License #: 333 000241

Attn: Robert Gerwig

Astar Abatement

P.O. Box 13533

Sissonville, WV 25360

Received Date: 7/16/2010

Analysis Date: 7/21/10 & 7/22/10

PEC Project #:

Client Project/PO #: 10-365

RE:

PEC LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14432	365-01	Pipe Insulation	Yellow/Cream
Texture/Description: Fibrous/Formasco Coating			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 93%	Others: 3%	Filler/Binder: 4 %
Chrysotile: 0% Tremolite: 0% Anthophyllite: 0%			
Amosite: 0% Actinolite: 0% Crocidolite: 0%			
PEC LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14433	365-02	Pipe Insulation	Cream/Yellow
Texture/Description: Solid/Formasco Coating			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 30%	Others: 15%	Filler/Binder: 55 %
Chrysotile: 0% Tremolite: 0% Anthophyllite: 0%			
Amosite: 0% Actinolite: 0% Crocidolite: 0%			
PEC LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14434	365-03	Pipe Insulation	Yellow/Cream
Texture/Description: Fibrous/Formasco Coating			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 93%	Others: 3%	Filler/Binder: 4 %
Chrysotile: 0% Tremolite: 0% Anthophyllite: 0%			
Amosite: 0% Actinolite: 0% Crocidolite: 0%			
PEC LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14435	365-04	Pipe Insulation	Cream/Silver
Texture/Description: Solid/Formasco Coating			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 30%	Others: 0%	Filler/Binder: 70 %
Chrysotile: 0% Tremolite: 0% Anthophyllite: 0%			
Amosite: 0% Actinolite: 0% Crocidolite: 0%			
PEC LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14436	365-05	Pipe Insulation	Beige/Tan
Texture/Description: Solid/Formasco Coating			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 15%	Others: 30%	Filler/Binder: 55 %
Chrysotile: 0% Tremolite: 0% Anthophyllite: 0%			
Amosite: 0% Actinolite: 0% Crocidolite: 0%			

RE:

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14437	365-08	Pipe Insulation	Beige
Texture/Description: Solid/Mud Joint			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 17%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 83 %

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14438	365-07	Pipe Insulation	Beige
Texture/Description: Solid/Mud Joint			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 15%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 85 %

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14439	365-08	Pipe Insulation	Beige
Texture/Description: Solid/Mud Joint			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 18%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 7%	Filler/Binder: 75 %

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14440	365-09	A	Brown
Texture/Description: Solid/12x12 FT			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 100%

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14441	365-10	A	Brown
Texture/Description: Solid/12x12 FT			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 100%

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14442	365-11	A	Brown
Texture/Description: Solid/12x12 FT			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 100%

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14443	365-12	B	Beige
Texture/Description: Solid/12x12 FT			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 100%

RE:

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14444	365-13	B	Beige
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14445a	365-14	B	Beige
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14445b	365-14	B	Yellow
Texture/Description:	Solid/Mastic	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 3%	Filler/Binder: 97 %

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14446a	365-15	C	Cream
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14446b	365-15	C	Yellow
Texture/Description:	Solid/Mastic	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 3%	Filler/Binder: 97 %

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14447a	365-16	C	Beige
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

REG LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14447b	365-16	C	Yellow
Texture/Description:	Solid/Mastic	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

RE:

PRO LAB #	QUANTITY	LOCATION	COLOR
10WB-14448a	365-17	C	Beige
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

PRO LAB #	QUANTITY	LOCATION	COLOR
10WB-14448b	365-17	C	Yellow
Texture/Description:	Solid/Mastic	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

PRO LAB #	QUANTITY	LOCATION	COLOR
10WB-14449	365-18	D	Brown
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

PRO LAB #	QUANTITY	LOCATION	COLOR
10WB-14450	365-19	D	Brown
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

PRO LAB #	QUANTITY	LOCATION	COLOR
10WB-14451	365-20	D	Brown
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

PRO LAB #	QUANTITY	LOCATION	COLOR
10WB-14452	365-21	F	White
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

PRO LAB #	QUANTITY	LOCATION	COLOR
10WB-14453	365-22	F	White
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

RE:

PCCLAB#	QUANTITY	LOCATION	COLOR
10WB-14454	365-23	F	White
Texture/Description: Solid/12x12 FT			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 100%

PCCLAB#	QUANTITY	LOCATION	COLOR
10WB-14455	365-24	G	Beige
Texture/Description: Solid/12x12 FT			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 100%

PCCLAB#	QUANTITY	LOCATION	COLOR
10WB-14456	365-25	G	Beige
Texture/Description: Solid/12x12 FT			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 100%

PCCLAB#	QUANTITY	LOCATION	COLOR
10WB-14457	365-26	G	Beige
Texture/Description: Solid/12x12 FT			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 100%

PCCLAB#	QUANTITY	LOCATION	COLOR
10WB-14458a	365-27	H	White
Texture/Description: Solid/12x12 FT			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 100%

PCCLAB#	QUANTITY	LOCATION	COLOR
10WB-14458b	365-27	H	Yellow
Texture/Description: Solid/Mastic			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 4%	Filler/Binder: 96 %

PCCLAB#	QUANTITY	LOCATION	COLOR
10WB-14459a	365-28	H	White
Texture/Description: Solid/12x12 FT			
TOTAL ASBESTOS: 0 %			
Cellulose: 0%	Fiber Glass: 0%	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
		Amosite: 0%	Actinolite: 0% Crocidolite: 0%
		Others: 0%	Filler/Binder: 100%

RE:

REG. LAB #	QUANTITY	LOCATION	COLOR
10WB-14459b	365-28	H	Yellow
Texture/Description:	Solid/Mastic	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 4%	Filler/Binder: 96 %

REG. LAB #	QUANTITY	LOCATION	COLOR
10WB-14460a	365-29	H	White
Texture/Description:	Solid/12x12 FT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

REG. LAB #	QUANTITY	LOCATION	COLOR
10WB-14460b	365-29	H	Yellow
Texture/Description:	Solid/Mastic	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 3%	Filler/Binder: 97 %

REG. LAB #	QUANTITY	LOCATION	COLOR
10WB-14461	365-30	I	Beige
Texture/Description:	Solid/Linoleum	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

REG. LAB #	QUANTITY	LOCATION	COLOR
10WB-14462	365-31	I	Beige
Texture/Description:	Solid/Linoleum	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

REG. LAB #	QUANTITY	LOCATION	COLOR
10WB-14463	365-32	I	Beige
Texture/Description:	Solid/Linoleum	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

REG. LAB #	QUANTITY	LOCATION	COLOR
10WB-14464	365-33	Roof Drains	Yellow/Cream
Texture/Description:	Fibrous/Mud Joints	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 80%	Others: 0%	Filler/Binder: 20 %

RE:

REPORT #	CLIENT ID #	LOCATION	ASBESTOS
10WB-14465	365-34	Roof Drains	Cream/Yellow
Texture/Description:	Solid/Mud Joints	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 4%	Others: 3%	Filler/Binder: 93 %

REPORT #	CLIENT ID #	LOCATION	ASBESTOS
10WB-14466	365-35	Roof Drains	Yellow/Cream
Texture/Description:	Fibrous/Mud Joints	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 76%	Others: 6%	Filler/Binder: 19 %

REPORT #	CLIENT ID #	LOCATION	ASBESTOS
10WB-14467	365-36	Flat Roof	Black/Silver
Texture/Description:	Solid/Built-Up	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 3%	Fiber Glass: 3%	Others: 0%	Filler/Binder: 94 %

REPORT #	CLIENT ID #	LOCATION	ASBESTOS
10WB-14468	365-37	Roofing	Black/Silver
Texture/Description:	Solid/Built-Up	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 4%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 96 %

REPORT #	CLIENT ID #	LOCATION	ASBESTOS
10WB-14469	365-38	Roofing	Black/Grey
Texture/Description:	Solid/Built-Up	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%

REPORT #	CLIENT ID #	LOCATION	ASBESTOS
10WB-14470	365-39	Roofing	Black/Silver
Texture/Description:	Solid/Built-Up	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 3%	Fiber Glass: 4%	Others: 0%	Filler/Binder: 93 %

REPORT #	CLIENT ID #	LOCATION	ASBESTOS
10WB-14471	365-40	Roofing	Black/Silver
Texture/Description:	Solid/Built-Up	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 4%	Others: 0%	Filler/Binder: 96 %

RE:

REG LAB #	QUANTITY	LOCATION	Color
10WB-14472	385-41		White
Texture/Description:	Solid/Joint Compound	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 3%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 97 %
REG LAB #	QUANTITY	LOCATION	Color
10WB-14473	385-42		White
Texture/Description:	Solid/Joint Compound	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 3%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 97 %
REG LAB #	QUANTITY	LOCATION	Color
10WB-14474a	385-43		Beige/Tan
Texture/Description:	Solid/Drywall	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 16%	Fiber Glass: 0%	Others: 3%	Filler/Binder: 81 %
REG LAB #	QUANTITY	LOCATION	Color
10WB-14474b	385-43		White
Texture/Description:	Solid/Joint Compound	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 0%	Others: 0%	Filler/Binder: 100%
REG LAB #	QUANTITY	LOCATION	Color
10WB-14475	385-44	Old Drop	Grey
Texture/Description:	Solid/2x2 CT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 45%	Others: 0%	Filler/Binder: 55 %
REG LAB #	QUANTITY	LOCATION	Color
10WB-14476	385-45	Old Drop	Grey
Texture/Description:	Solid/2x2 CT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 45%	Others: 0%	Filler/Binder: 55 %
REG LAB #	QUANTITY	LOCATION	Color
10WB-14477	385-46	Old Drop	Grey
Texture/Description:	Solid/2x2 CT	Chrysotile: 0%	Tremolite: 0% Anthophyllite: 0%
TOTAL ASBESTOS:	0 %	Amosite: 0%	Actinolite: 0% Crocidolite: 0%
Cellulose: 0%	Fiber Glass: 45%	Others: 0%	Filler/Binder: 55 %

RE:

TEST LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14478	365-47	New Drop	Beige
Texture/Description: Solid/2x2 CT			
TOTAL ASBESTOS: 0 %			
Cellulose: 30%	Fiber Glass: 10%	Others: 0%	Filler/Binder: 60 %
Chrysotile: 0%	Tremolite: 0%	Anthophyllite: 0%	
Amosite: 0%	Actinolite: 0%	Crocidolite: 0%	

TEST LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14479	365-48	New Drop	Beige/White
Texture/Description: Solid/2x2 CT			
TOTAL ASBESTOS: 0 %			
Cellulose: 30%	Fiber Glass: 10%	Others: 0%	Filler/Binder: 60 %
Chrysotile: 0%	Tremolite: 0%	Anthophyllite: 0%	
Amosite: 0%	Actinolite: 0%	Crocidolite: 0%	

TEST LAB #	CLIENT ID #	LOCATION	COLOR
10WB-14480	365-49	New Drop	Beige/White
Texture/Description: Solid/2x2 CT			
TOTAL ASBESTOS: 0 %			
Cellulose: 30%	Fiber Glass: 10%	Others: 0%	Filler/Binder: 60 %
Chrysotile: 0%	Tremolite: 0%	Anthophyllite: 0%	
Amosite: 0%	Actinolite: 0%	Crocidolite: 0%	

Analytical Method: Polarized light microscopy using dispersion staining (EPA-600/M4-82-020). PLM should not be used to demonstrate the absence of asbestos in floor tiles. All samples will be held for sixty (60) days unless otherwise requested. This report relates only to items tested and makes no statement as to the contents of surrounding materials. Multi-layered material which have distinct and separable layers shall be reported separately. This report shall not be reproduced, except in full, without written permission. The results of this report should not be used as an endorsement for NVLAP or any other government agency.

Analyzed by: _____



 Tina Long




Appendix 2 Certification/License

ASTAR ABATEMENT, INC

Quality Safety Reliability

	WEST VIRGINIA
	Asbestos Program
	Robert A. Gerwig
	IS LICENSED AS AN ASBESTOS SUPERVISOR
License # AS010757	
Issued: 9/10/2009	
Expires: 9/30/2010	
<i>Randy C. Curtis</i> Dir., WV RTIA DIV	

	WEST VIRGINIA
	Asbestos Program
	Robert A. Gerwig
	IS LICENSED AS AN ASBESTOS INSPECTOR
License # AI005561	
Issued: 9/10/2009	
Expires: 9/30/2010	
<i>Randy C. Curtis</i> Dir., WV RTIA DIV	



Appendix 3

SUMMARY OF ACM MATERIALS



ASTAR ABATEMENT, INC
Quality Safety Reliability

Material Description	Sample #	Quantity	Result	Room #
Pipe insulation – formasco coating	365-01/02/03/04/05		NAD	
Pipe insulation – mud joints	365-06/07/08		NAD	
(A) 12"x12" Floor tile, brown marbled	365-09/10/11		NAD	
(B) 12"x12" Floor tile, lt. brown marbled	365-12/13/14		NAD	
(C) 12"x12" Floor tile, lt. brown streaked	365-15/16/17		NAD	
(D) 12"x12" Floor tile, dark brown	365-18/19/20		NAD	
(F) 12"x12" Floor tile, white spotted (more)	365-21/22/23		NAD	
(G) 12"x12" Floor tile, white spotted (less)	365-24/25/26		NAD	
(H) 12"x12" Floor tile, lt. green streaked	365-27/28/29		NAD	
(I) Linoleum - beige	365-30/31/32		NAD	
Roof drain insulation	365-33/34/35		NAD	
Flat built-up roofing (felt)	365-36/37/38/39/40		NAD	
Drywall & joint compound	365-41/42/43		NAD	
2'x2' Drop ceiling tile, fissured (old)	365-44/45/46		NAD	
2'x2' Drop ceiling tile, fissured (new)	365-47/48/49		NAD	

SF-Square Feet LF – Linear Feet JT – Joints NAD – No Asbestos Detected

NO asbestos containing material detected