ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
EQUIPMENT AND PROCUREMENT DIVISION
BID INVITATION

Bid Number: M-13-023P

Bid Opening Date: October 16, 2012 Time: 11:00 a.m.

BID OPENING LOCATION:
AHTD Equipment and Procurement Division
11302 W. Baseline Road
Little Rock, AR 72209

MAIL TO:
AHTD Equipment and Procurement Division
P.O. Box 2261
Little Rock, AR 72203

DELIVER TO:
AHTD Equipment and Procurement Division
11302 W. Baseline Road
Little Rock, AR 72209

Sealed bids for furnishing the commodities and/or services described below, subject to the Conditions on Page 2 of this Bid Invitation will be received at the above-noted mail and delivery locations until the above-noted bid opening date and time, and then publicly opened at the above-noted bid opening location. **Bids must be submitted on this form, with attachments when appropriate, or bids will be rejected. Late bids and unsigned bids will not be considered.**

In compliance with this Bid Invitation and subject to all the Conditions thereof, the undersigned offers and agrees to furnish any and all items upon which prices are quoted, at the price set opposite each item.

Company Name:_____

Address:_____

_____

City:_____ State:_____ Zip:_____

Federal Tax ID or Social Security No.:_____

Name (Type or Print):_____

Title:_____

Phone:_____ Fax:_____

E-mail Address:_____

Signature:_____
Signature must be legible, original (not photocopied) and in ink.
Unsigned bids will be rejected.

1. Asbestos Abatement and Demolition located at NH-9399 (5), U.S. Hwy. 412 (Springdale Northern Bypass) Benton & Washington Counties; as per attached work list for Tracts 68X, 72X, 73X, 95X, 126X, 135X, 137X, 154X, 160X & 172X - Job 001966.

To meet the requirements of Arkansas State Highway and Transportation Department Specifications and Drawings attached to and made a part of this bid.

LUMP SUM_____

Tracts **must** be priced individually as listed on the Work List but bid will be awarded by the Lump Sum.

Additional tracts and/or structures may be added to this contract from this job.

Pricing for Additional Pay Items is requested on Page 4.
(Additional pay item pricing will be on an as needed basis and does not obligate the Department to award any additional tracts.)

Contacts for Technical Information: Robert Pooler, Property Manager (501-569-2317)
Contacts for Bidding Information: Danny Keene (501-569-2674) or Chicita Pate (501-569-2675)

Bid price shall include all labor, materials, and equipment necessary to perform the work as specified, and shall further include all licenses, fees, permits, royalties, and all taxes. Bid price shall represent full compensation for completion of the work. This provision supersedes Condition 4 on page 2 of Bid Invitation. Payment will be made in accordance with Arkansas Highway & Transportation Department Standard Specifications and Applicable Special Provisions.

Bid Bond in the amount of 5% of total bid price required of all bidders at time of bid opening or bid will be rejected. **Personal and company checks are not acceptable as Bid Bonds.** See Condition 3 on page 2 of Bid Invitation.
Performance Bond only (no checks of any kind allowed) in the amount of 100% of total bid price will be required of successful bidder prior to providing goods/services. See Condition 3 on page 2 of Bid Invitation.

The successful bidder will be required to submit Notice of Intent (NOI) to ADEQ within 3 days after receipt of Purchase Order and to complete all work within forty-five (45) days from the starting date on the NOI. Work not completed within this time frame shall result in the successful bidder being charged $120.00 per day until work is completed.

Name, Address, Phone No. of Disposal Site:_____

Bids and Specifications are available on-line by going to the AHTD Web Site – www.arkansashighways.com and clicking on "Commodities and Services Bids/Contracts Information". Tabulations will also be available at this site within 72 hours after bid opening. If you have any questions, call this office at 501-569-2667.

(12-0031) 32-00/82-00

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

STANDARD BID CONDITIONS

M-13-023P

1. **ACCEPTANCE AND REJECTION:** The Arkansas State Highway and Transportation Department (AHTD) reserves the right to reject any or all bids, to accept bids in whole or in part (unless otherwise indicated by bidder), to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications where efficiency of operation will not be impaired, and to award bids to best serve the interest of the State.

2. **PRICES:** Unless otherwise stated in the Bid Invitation, the following will apply: (1) unit prices shall be bid, (2) prices should be stated in units of quantity specified (feet, each, lbs., etc.), (3) prices must be F.O.B. destination specified in bid, (4) prices must be firm and not subject to escalation, (5) bid must be firm for acceptance for 30 days from bid opening date. In case of errors in extension, unit prices shall govern. Discounts from bid price will not be considered in making awards.

3. **BID BONDS AND PERFORMANCE BONDS**: If required, a **Bid Bond** in the form of a cashier's check, certified check, or surety bond issued by a surety company, in an amount stated in the Bid Invitation, must accompany bid. **Personal and company checks are not acceptable as Bid Bonds**. Failure to submit a Bid Bond as required will cause a bid to be rejected. The Bid Bond will be forfeited as liquidated damages if the successful bidder fails to provide a required Performance Bond within the period stipulated by AHTD or fails to honor their bid. Cashier's checks and certified checks submitted as Bid Bonds will be returned to unsuccessful bidders; surety bonds will be retained. The successful bidder will be required to furnish a **Performance Bond** in an amount stated in the Bid Invitation and in the form of a cashier's check, certified check, or surety bond issued by a surety company, unless otherwise stated in the Bid Invitation, as a guarantee of delivery of goods/services in accordance with the specifications and within the time established in the bid. **Personal and company checks are not acceptable as Performance Bonds**. In some cases, a cashier's check or certified check submitted as a Bid Bond will be held as the Performance Bond of the successful bidder. Cashier's checks or certified checks submitted as Performance Bonds will be refunded shortly after payment has been made to the successful bidder for completion of all terms of the bid; surety bonds will be retained. Surety bonds must be issued by a surety company authorized to do business in Arkansas, and must be signed by a Resident Local Agent licensed by the Arkansas State Insurance Commissioner to represent that surety company. Resident Agent's Power-of-Attorney must accompany the surety bond. Certain bids involving labor will require Performance Bonds in the form of surety bonds only (no checks of any kind allowed). In such cases, the company issuing the surety bond must comply with all stipulations herein and must be named in the U. S. Treasury listing of companies holding Certificates of Authority as acceptable sureties on Federal Bonds and as acceptable reinsuring companies. Any excess between the face amount of the bond and the underwriting limitation of the bonding company shall be protected by reinsurance provided by an acceptable reinsuring company. Annual Bid and Performance Bonds on file with E & P Division must have sufficient unencumbered funds to meet current bonding requirements, or the bid will be rejected, unless the balance is submitted as set forth above, prior to bid opening.

4. **TAXES:** The AHTD is not exempt from Arkansas State Sales and Use Taxes, or local option city/county sales taxes, when applicable, and bidders are responsible to the State Revenue Department for such taxes. These taxes should not be included in bid prices, but where required by law, will be paid by the AHTD as an addition thereto, and should be added to the billing to the AHTD. The AHTD is exempt from Federal Excise Taxes on all commodities except motor fuels; and excise taxes should not be included in bid prices except for motor fuels. Where applicable, tax exemption certificates will be furnished by the AHTD.

5. **"ALL OR NONE" BIDS:** Bidders who wish to bid "All or None" on two or more items shall so stipulate on the face of bid sheet; otherwise, bid may be awarded on an individual item basis.

6. **SPECIFICATIONS:** Complete specifications should be attached for any substitution or alternate offered, or where amplification is necessary. Bidder's name must be placed on all attachments to the bid.

7. **EXCEPTIONS TO SPECIFICATIONS:** Any exceptions to the bid specifications must be stated in the bid. Any exceptions to manufacturer's published literature must be stated in the bid, or it will be assumed that bidder is bidding exactly as stated in the literature.

8. **BRAND NAME REFERENCES:** All brand name references in bid specifications refer to that commodity or its equivalent, unless otherwise stated in Bid Invitation. Bidder should state brand or trade name of item being bid, if such name exists.

9. **FREIGHT:** All freight charges should be included in bid price. Any change in common carrier rates authorized by the Interstate Commerce Commission will be adjusted if such change occurs after the bid opening date. Receipted common carrier bills that reflect ICC authorized rate changes must be furnished.

10. **SAMPLES, LITERATURE, DEMONSTRATIONS:** Samples and technical literature must be provided free of any charge within 14 days of AHTD request, and free demonstrations within 30 days, unless AHTD extends time. Failure to provide as requested within this period may cause bid to be rejected. Samples, literature and demonstrations must be substantially the same as the item(s) being bid, unless otherwise agreed to by AHTD. Samples that are not destroyed will be returned upon request at bidders expense. Samples from successful bidders may be retained for comparison with items actually furnished.

11. **GUARANTY:** Unless otherwise indicated in Bid Invitation, it is understood and agreed that any item offered or shipped on this bid shall be newly manufactured, latest model and design, and in first class condition; and that all containers shall be new, suitable for storage or shipment and in compliance with all applicable laws relating to construction, packaging, labeling and registration.

12. **BACKORDERS OR DELAY IN DELIVERY:** Backorders or failure to deliver within the time required may constitute default. Vendor must give written notice to the AHTD, as soon as possible, of the reason for any delay and the expected delivery date. The AHTD has the right to extend delivery if reasons appear valid. If reason or delivery date is not acceptable, vendor is in default.

13. **DEFAULT:** All commodities furnished will be subject to inspection and acceptance by AHTD after delivery. Default in promised delivery or failure to meet specifications authorizes the AHTD to cancel award or any portion of same, to reasonably purchase commodities or services elsewhere and to charge full increase, if any, in cost and handling to defaulting vendor. Applicable bonds may be forfeited.

14. **ETHICS:** *"It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a State contract upon an agreement of understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies maintained by the contractor for the purpose of securing business."* (Arkansas Code, Annotated, Section 19-11-708).

ARKANSAS STATE HIGHWAY
AND TRANSPORTATION DEPARTMENT

NOTICE OF NONDISCRIMINATION

The Arkansas State Highway and Transportation (Department) complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore the Department does not discriminate on the basis of race, sex, color, age, national origin, religion or disability, in the admission, access to and treatment in the Department's programs and activities, as well as the Department's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the Department's nondiscrimination policies may be directed to Joanna P. Nelson Section Head - EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501) 569-2298, (Voice/TTY 711), or the following email address: joanna.nelson@arkansashighways.com.

This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.

ARKANSAS STATE HIGHWAY & TRANSPORTATION DEPARTMENT
LITTLE ROCK, ARKANSAS
EQUIPMENT & PROCUREMENT DIVISION

BIDDER:_____

ITEM NO.	DESCRIPTION	AMOUNT	
1.	Asbestos Abatement	$_____	Square Foot
2.	Demolition	$_____	Square Foot
3.	Foundation	$_____	Linear Foot
4.	Foundation Slab	$_____	Square Foot
5.	Well Closure	$_____	Each
6.	Septic System Closure	$_____	Each

Job 001966
NH-9399 (5)
U.S. Hwy. 412
(Springdale Northern Bypass)
Benton & Washington Counties

Bid Requirements

Bid price shall include all insurance, taxes, permits, ADEQ notifications, license, labor, equipment, and material necessary to complete the work. Actual quantity of material to be removed may differ slightly from the estimated amount shown above. Bid price shall reflect actual quantity of material to be removed and bidders are strongly encouraged to inspect the premises prior to bidding to verify the quantity. All asbestos abatement/demolition work must be done according to the method and requirements contained in the **"SPECIAL PROVISIONS"** and work list which will be attached and made a part of the bid and contract.

Contractor shall comply with all state, local and federal laws associated with this work. All structures must be completely removed, including slabs, footings, foundations, private walkways, decks, basements, posts, poles, fences within Proposed Right of Way along with all debris. Determination of the extent of work necessary for complete removal of the structures is strictly the responsibility of the bidder. Basements **(if applicable)** will be removed, backfilled with suitable material and left level with the surrounding area. Water wells **(if applicable)** shall have equipment removed and casing securely covered for safety. Septic tanks **(if applicable)**, when in right of way, shall be pumped empty, removed, and void backfilled with suitable material. If septic tank is outside of right of way, contractor will cut the line to tank and cap the line just beyond the right of way line. Contractor will be required to comply with the provisions of "Appendix A" (Required Contract Provisions Federal-Aid Construction Contracts) that will be attached and made a part of the bid and contract.

It is understood that all combustible materials, construction material and all other rubbish, including shrubbery and trees which are cut or uprooted to facilitate operations, will be cleared from the premises by the contractor and **the premises will be left in a generally level, safe, and sanitary condition, a condition in which it can be mowed and maintained safely**. The contractor shall endeavor to avoid unnecessary damage or destruction of trees, shrubs, and plants on the premises.

NOTE: CONTRACTOR MUST FILE TEN (10) DAY NOTICE WITH ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ); HOWEVER, BIDS SHOULD INCLUDE REGISTRATION FEE ON EACH PROJECT. Dumping of demolition waste materials shall be at a landfill permitted by the Arkansas Department of Environmental Quality (ADEQ) or at an un-permitted site approved by ADEQ. Contractor must call ONE CALL for location of other utilities at this job site.

In the event that utility service lines, meters, etc., are disconnected, destroyed or otherwise impaired in any way by reason of performance of this operation by the contractor, the contractor shall, at his own expense, be responsible for all replacement utility service in lieu of those affected. **Contractor must call ONE CALL for location of other utilities at this job site**

Contractor shall be required to hold a current license issued by the Arkansas Department of Environmental Quality for the removal of asbestos. For demolition, State law requires a contractor's license for jobs over $20,000.00. Changes in the scope of work must have prior approval by the Departments Property Manager in order to be eligible for payment.

PROPERTY MANAGEMENT
ASBESTOS ABATEMENT & DEMOLITION CONTRACT BIDS

Job 001966
U. S. Hwy. 412
(Springdale Northern Bypass)
Benton County
68X, 72X, 73X, 95X, 126X,
135X, 137X, 154, 160X, 172X

Work List of Project

Tract 68 X, 4498 Hwy. 112, Springdale, AR 72762	Unit Price	Extended Price
No Abatement is Necessary:		
Demolition:		
1,428 SF Mobile Home	$ _____ /SF	$ _____
100 SF Well House	$ _____ /SF	$ _____
320 SF Shed	$ _____ /SF	$ _____
200 LF 5' Chain Link Fencing	$ _____ /LF	$ _____
Remove Septic System	$ _____ /EA	$ _____
Cap Water Well	$ _____ /EA	$ _____
Total DemolitionTract 68 X		$ _____

Tract 72X, 4643 Hwy. 112, Springdale, AR 72762-8177	Unit Price	Extended Price
Abate Approximately:		
523 SF of Exterior Siding (H)	$ _____ /SF	$ _____
Total Abatement Tract 72 X		$ _____
Demolition:		
1,050 SF 1-S-F Dwelling	$ _____ /SF	$ _____
1,976 SF Barn	$ _____ /SF	$ _____
520 SF Slab w/Storm Shelter	_____ /SF	_____
(3) 11,376 (34,128) SF Chicken Houses	_____ /SF	_____
Remove Septic System	$ _____ /EA	$ _____
Cap Water Well	$ _____ /EA	$ _____
Total Demolition Tract 72 X		$ _____
Total Abatement & Demolition Tract 72 X		$ _____

Tract 73 X, 4315 Hwy. 112, Springdale, AR 72762	Unit Price	Extended Price
Abate Approximately:		
684.52 SF of Ceiling Sheet Rock (A-F)	$ _____ /SF	$ _____
1,932.00 SF Sheet Rock Walls (A-F)	$ _____ /SF	$ _____
Total Abatement Tract 73 X		$ _____
Demolition:		
1,104 SF 1-S-F Dwelling	$ _____ /SF	$ _____
256 SF Barn	$ _____ /SF	$ _____
5,904 SF x 4 = 23,616 SF	_____ /SF	$ _____
Remove Septic System	$ _____ /EA	$ _____
Cap Water Well	$ _____ /EA	$ _____
Total Demolition Tract 73 X		$ _____
Total Abatement & Demolition Tract 73 X		$ _____

Tract 95 X, 13036 Sharp Springs Road, Lowell, AR 72745	Unit Price	Extended Price
Abate Approximately:		
23.46 SF of Floor Material & Mastic (F)	$ _____ /SF	$ _____
Total Abatement Tract 95 X		$ _____
Demolition:		
1,050 SF 1-S-F Dwelling	$ _____ /SF	$ _____
117.55 SF Shed	$ _____ /SF	$ _____
Remove Septic System	$ _____ /EA	$ _____
Cap Water Well	$ _____ /EA	$ _____
Total Demolition Tract 95 X		$ _____
Total Abatement & Demolition Tract 95 X		$ _____

Tract 126 X, 911 Spring Creek Road, Lowell, AR 72745	Unit Price	Extended Price
Abate Approximately:		
All 2,857 SF of Ceiling Sheet Rock	$ _____ /SF	$ _____
All 8,350.4 SF Wall Sheet Rock	$ _____ /SF	$ _____
379.6 SF Floor Material & Mastic	_____ /SF	$ _____
Total Abatement Tract 126 X		$ _____
Demolition:		
2,857 SF Split Level Framed Dwelling	$ _____ /SF	$ _____
660 SF 1-S-Framed Garage	$ _____ /SF	$ _____
140 SF Shed	$ _____ /SF	$ _____
Remove Septic System	$ _____ /EA	$ _____
Cap Water Well	_____ /EA	_____
Total Demolition Tract 126X		$ _____
Total Abatement & Demolition Tract 126X		_____

Tract 135 X, 922 Conrad Place, Lowell, AR 72745	Unit Price	Extended Price
Abate Approximately:		
All Ceiling Sheet Rock, 206.54 SF in Areas (G & H)	$ _____ /SF	$ _____
304.2 SF of Floor Tiles & Mastic in (D)	$ _____ /SF	$ _____
Total Abatement Tract 135 X		$ _____
Demolition:	Unit Price	Extended Price
2,076 SF 1+ S-Framed Dwelling	$ _____ /SF	$ _____
10 X 10 = 100 SF Concrete Slab	$ _____ /SF	_____
10 X 20 = 200 SF Metal Pole Barn	$ _____ /SF	$
Close Septic System	$ _____ /EA	$ _____
Cap Water Well	$ _____ /EA	$ _____
Total Demolition Tract 135 X		$ _____
Total Abatement and Demolition Tract 135 X		$ _____

Tract 137 X, 5875 Silent Grove Road, Lowell, AR 72745	Unit Price	Extended Price
Abate Approximately:		
793.70 SF Ceiling Sheet Rock, in Areas (A, C – F, H)	$ _____ /SF	$ _____
3,240 SF Sheet Rock Walls in Areas (A-F, H)	$ _____ /SF	$ _____
535.89 SF of Floor Tiles & Mastic in (A & B)	$ _____ /SF	$ _____
Total Abatement 137 X		$ _____
Demolition:	Unit Price	Extended Price
1,368 SF 2- S-Framed Dwelling	$ _____ /SF	$ _____

126.69 SF Framed Shed/Wellhouse	$ _____ /SF	$ _____
80 SF Metal Pole Barn	$ _____ /SF	$ _____
506.11 SF Framed Garage/Shed	$ _____ /SF	$ _____
Close Septic System	$ _____ /EA	$ _____
Cap (2) Water Wells	$ _____ /EA	$ _____
Total Demolition Tract 137X		$ _____
Total Abatement and Demolition Tract 137 X		$ _____

Tract 154 X, 822 Baker Place, Lowell, AR 72745	Unit Price	Extended Price
Abate approximately:		
All 625 SF of Ceiling Sheet Rock in (A, B, C, D, E)	$ _____ /SF	$ _____
48.23 SF Wall Sheet Rock in area (D)	$ _____ /SF	_____
Total Abatement Tract 154 X		$ _____
Demolition:		
1,041 SF Framed Tri-Level Dwelling	$ _____ /SF	$ _____
8X8 = 64 SF Shed	$ _____ /SF	$ _____
Remove Septic System	$ _____ /EA	$ _____
Cap Water Well	$ _____ /EA	$ _____
Total Demolition Tract 154 X		$ _____
Total Abatement & Demolition Tract 154 X		$ _____

Tract 160 X, 720, Goad Springs Road, Lowell, AR 72745	Unit Price	Extended Price
No Abatement Necessary:		_____
Demolition:		
10222 SF 1-S-B & F Dwlling/Basement	$ _____ /SF	$ _____
572 SF Shed	$ _____ /SF	$ _____
Total Demolition Tract 160 X		$
Total Abatement & Demolition Tract 160 X		$ _____

Tract 172 X, Access from Sharp Springs Road	Unit Price	Extended Price
No Abatement Necessary:		
Demolition:		
672 SF Mobile Home	S _____ /SF	$ _____
100 SF Shed	$ _____ /SF	$ _____
100 SF Shed	$ _____ /SF	$ _____
Remove Septic System	$ _____ /EA	$ _____
Cap Water Well	$ _____ /EA	$ _____
Total Demolition		$ _____
Total Abatement & Demolition Tract 172 X		$ _____

Total Lump Sum Price of Abatement & Demolition $ _____

Note: This document is to be returned with bid and becomes part of the contract.

DEMOLITION: For contract bidding purposes, demolition per square foot includes removal of any and all improvements within the acquired proposed right of way. All structures must be completely removed, including slabs, footings, foundations, basements, posts, poles, fences when listed and all debris and left in a safe and level condition.

Disclaimer:

Samples were collected form materials identified as Homogeneous Materials based upon visual inspection of the site. AHTD is not responsible for assumptions on homogeneity, which prove to be incorrect. In addition, samples collected represent only that portion of the entire homogeneous material. AHTD is not responsible for materials not identified and sampled due to the restraints on accessibility of the material due to the type of construction and finish materials of the building. This report refers to the Site and Facility as it appeared on the day of the inspection. No warranties, expressed or implied, relate to the previous and /or future conditions at the Site.

Analysis was performed by ATOKA, INC., Little Rock, Arkansas. ATOKA, INC. is solely responsible for all analytical results contained in and referred to in this report.

NOTICE TO CONTRACTORS
COMPLIANCE WITH TITLE VI OF THE CIVIL RIGHTS ACT OF 1964
FOR
FEDERAL AID CONTRACTS
APPENDIX "A"

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

(1) Compliance with Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

(2) Nondiscrimination: The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

(3) Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor or work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

(4) Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Arkansas State Highway & Transportation Department or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Arkansas State Highway & Transportation Department, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

(5) Sanctions for Noncompliance: In the event of the contractor's non-compliance with the nondiscrimination provisions of this contract, the Arkansas State Highway & Transportation Department shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

(a) Withholding of payments to the contractor under the contract until the contractor complies, and/or

(b) Cancellation, termination or suspension of the contract, in whole or in part.

(6) Incorporation of Provisions: The contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Arkansas State Highway & Transportation Department or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Arkansas State Highway & Transportation Department to enter into such litigation to protect the interests of the State, and, litigation to protect the interests of the United States.

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
SPECIAL PROVISION

REMOVAL OF FLOORING WHICH CONTAINS ASBESTOS FROM BUILDINGS TO BE DEMOLISHED

GENERAL

Floor covering which contains asbestos (ACM) has been identified in buildings to be demolished as part of the right-of-way clearing for the construction of the above captioned job. Prior to demolition of these buildings, the ACM must be removed and disposed of in compliance with this special provision and the asbestos regulations promulgated by Arkansas Department of Environmental Quality (ADEQ) and the Environmental Protection Agency.

DESCRIPTION OF WORK:

All work performed under this special provision shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality (ADEQ), as adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

Except as specified in this special provision, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations for the removal of ACM and applicable OSHA worker protection requirements (29 CFR, 1910 - Respiratory protection). Disposal and record keeping requirements of National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR 61 Subpart M) shall also be incorporated into the project's work procedures and designated in the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the ACM and any associated mastic material from the designated area in the identified buildings. Estimated quantities of material to be removed and disposed of are provided in the contract. The removal of the ACM flooring must be conducted in a containment area, which includes polyethylene containment barrier walls. This containment area must also include the use of a negative air filtration system (HEPA filters) to create negative pressure as required by ADEQ regulations. The material shall be removed as required by ADEQ regulations with containerization, storage, transportation and disposal of the ACM accomplished according to ADEQ Asbestos regulations. Wet cleaning and HEPA filter vacuuming shall be repeated until no visible residuals are observed in the work area or until any remaining mastic can be safely encapsulated. All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within three working days of the completion of the contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this removal of asbestos containing flooring shall apply as per OSHA and ADEQ regulations.

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

SPECIAL PROVISION

REMOVAL OF FLOOR COVERING MASTIC WHICH CONTAINS ASBESTOS FROM BUILDINGS TO BE DEMOLISHED

GENERAL:

Floor covering mastic which contains asbestos has been identified in a building to be demolished as part of the right-of-way clearing for the construction of the above captioned job. Prior to demolition of this building, the floor covering and associated mastic which contains asbestos must be removed and disposed of in compliance with this special provision and the asbestos regulations promulgated by Arkansas Department of Environmental Quality(ADEQ).

DESCRIPTION OF WORK:

All work performed under this special provision shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality, as adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

Except as specified in this special provision, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations 21 for the removal of floor covering which contains asbestos and applicable OSHA worker protection requirements (29 CFR, 1910 - Respiratory protection). Disposal and record keeping requirements of NESHAP - National Emission Standards for Hazardous Air Pollutants (40 CFR 61 Subpart M) shall also be incorporated into the project's work procedures and designated in the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the floor covering and all associated mastic material from the designated area in the identified building. The removal of the ACM mastic and flooring must be conducted in a containment area, which includes polyethylene containment barrier walls. This containment area must also include the use of a negative air filtration system (HEPA filters) to create negative pressure as required by ADEQ regulations. The material shall be removed as required by ADEQ regulations with containerization, storage, transportation and disposal of the ACM accomplished according to ADEQ Asbestos Regulations 21. Wet cleaning and HEPA vacuuming shall be repeated until no visible residuals are observed in the work area or until any remaining mastic can be safely encapsulated. All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within two working days of the completion of the contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this removal of asbestos containing flooring shall apply as per OSHA and ADEQ Regulations 21.

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
SPECIAL PROVISION

REMOVAL OF SHEET ROCK, WHICH CONTAINS ASBESTOS FROM BUILDINGS TO BE DEMOLISHED

GENERAL

The material which contains asbestos (ACM) has been identified in this building. This building must be demolished as part of the right-of-way clearing for the construction of the above-captioned job. Prior to demolition of these buildings, the ACM must be removed and disposed of in compliance with this special provision and the asbestos regulations promulgated by Arkansas Department of Environmental Quality (ADEQ) and the Environmental Protection Agency.

DESCRIPTION OF WORK:

All work performed under this special provision shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality (ADEQ), as adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

Except as specified in this special provision, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations for the removal of ACM and applicable OSHA worker protection requirements (29 CFR, 1910 - Respiratory protection). Disposal and record keeping requirements of NESHAP - National Emission Standards for Hazardous Air Pollutants (40 CFR 61 Subpart M) shall also be incorporated into the project's work procedures and designated in the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the ACM and any associated from the designated area in the identified buildings. Estimated quantities of material to be removed and disposed of are provided in the contract. The removal of the ACM must be conducted in a containment area, which includes polyethylene containment barrier walls. This containment area must also include the use of a negative air filtration system (HEPA filters) to create negative pressure as required by ADEQ regulations. The material shall be removed as required by ADEQ regulations with containerization, storage, transportation and disposal of the ACM accomplished according to ADEQ Asbestos regulations. Wet cleaning and HEPA filter vacuuming shall be repeated until no visible residuals are observed in the work area or until any remaining can be safely encapsulated. All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within three working days of the completion of the contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this removal of asbestos containing materials shall apply as per OSHA and ADEQ regulations.

A work plan and worker protection plan shall be provided to AHTD prior to the commencement of work for review and approval.

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
SPECIAL PROVISION

REMOVAL OF HARD ASBESTOS-CONTAINING BUILDING MATERIAL IN EXTERIOR SETTING

General:

Siding which contains hard asbestos has been identified on the exterior of a building scheduled for demolition as part of the above referenced job. Prior to demolition of this building, the asbestos-containing building material (ACBM) must be removed and disposed of in compliance with all the Arkansas Department of Environmental Quality (ADEQ) and the Environmental Protection Agency asbestos regulations and these specifications.

Description of Work:

All work performed under this contract shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality's adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

In addition, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations for the removal of hard ACBM in an outdoor setting and applicable OSHA worker protection requirements (29, 1910 - Respiratory Protection). Disposal and record keeping requirements of NESHAP -National Emission Standards for Hazardous Air Pollutants (40 CFR 61 Subpart M) shall also be incorporated into the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the ACBM with minimal breakage, sanding or sawing. Wetting procedures shall be utilized as warranted by ADPC&E regulations. ACBM shall be placed in sealable metal drums with proper labeling then stored, transported and disposed of in accordance with ADEQ Asbestos Regulations (November, 1990). All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within three working days of the completion of contracted work.

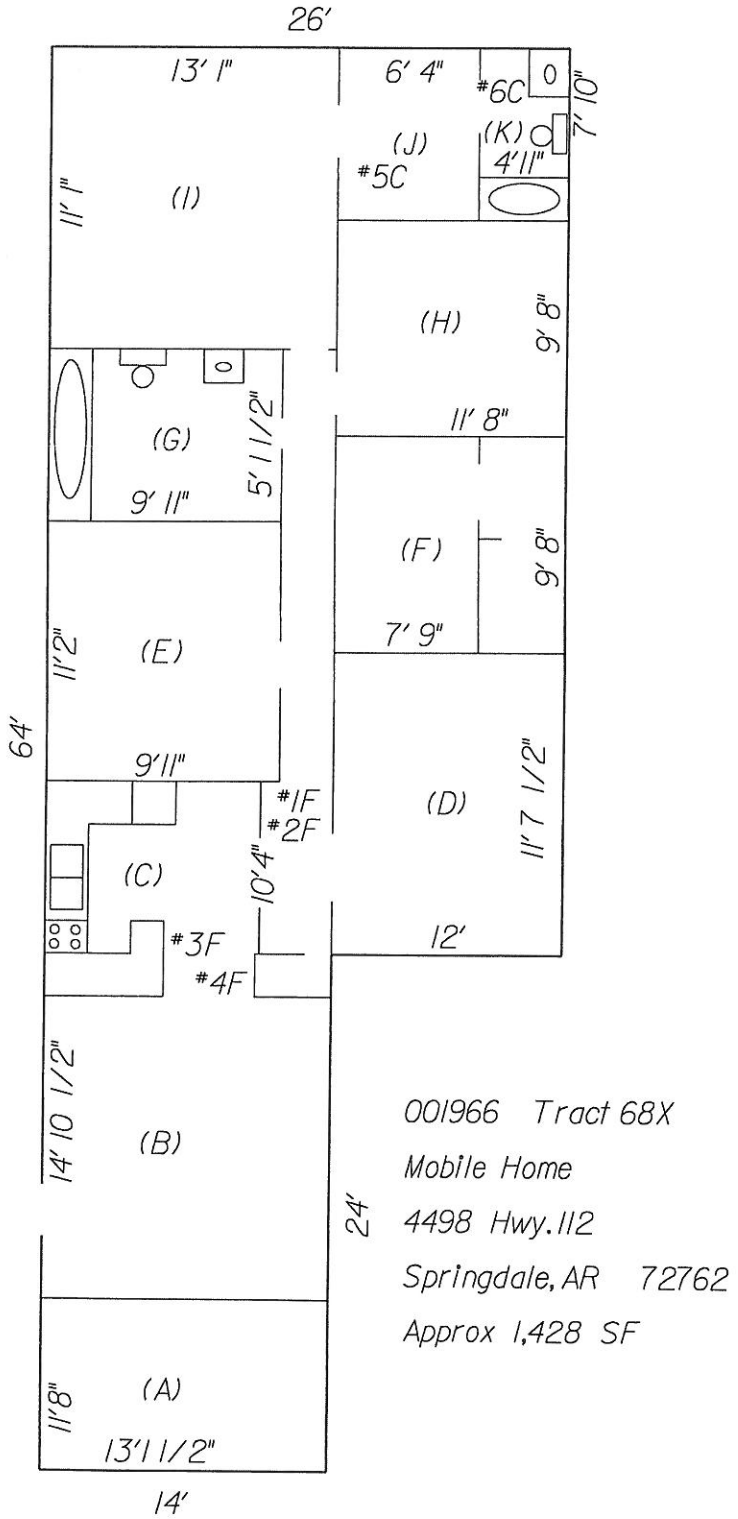
All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this outdoor removal activity shall apply as per OSHA and ADEQ regulations.

ASBESTOS FLOOR PLAN

JOB:	001966	PROPERTY LOCATION	INSPECTED BY
TRACT:	68 X	Mobile Home	Joel Clark (11518)
DATE:	8/20/12	4498 Hwy. 112	Robert Pooler (014597)
		Springdale, AR 72762	

Sample Number	Description/ Location	Sample Number	Description/ Location
#1	Area (C) Floor	#11	
#2	Area (C) Floor	#12	
#3	Area (C) Floor	#13	
#4	Area (C) Floor	#14	
#5	Area (J) Ceiling	#15	
#6	Area (K) Ceiling	#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Comp. Shingle
Siding	Wood
Ceilings J, K	Textured Ceiling
Walls	Panel/Wall Paper
Floors	Carpet/Wood
C	Vinyl



CA Labs
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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler
Customer Project: Tract 68X 4498 Hwy. 12 001966 Springdale Bypass
Reference #: CAL12086908JC Date: 08/28/12

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 68X 4498 Hwy. 12 001966 Springdale Bypass **CA Labs Project #:** CAL12086908JC

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other

pe - perlite
qu - quartz

fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)

pa - palygorskite (clay)

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
Tract 68X 4498 Hwy. 12
001966 Springdale Bypass
Turnaround Time:
2 days

CA Labs Project #:
CAL12086908JC

Date: 08/28/12
Samples Received: 8/24/12 10am
Date Of Sampling: 08/20/12
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966-TR68X-1		*1-1*	***Area "C" Floor/*** *tan linoleum*	*y*	***None Detected***	22% ce 3% fg	75% gy,ma
		1-2	*tan mastic*	*y*	***None Detected***		100% gy,bi
001966-TR68X-2		*2-1*	***Area "C" Floor/*** *tan linoleum*	*y*	***None Detected***	23% ce 2% fg	75% gy,ma
		2-2	*tan mastic*	*y*	***None Detected***		100% gy,bi
001966-TR68X-3		*3-1*	***Area "C" Floor/*** *brown wooden patterned self-adhesive floor tile*	*n*	***None Detected***		100% qu,bi,ca
		3-2	*clear mastic*	*y*	***None Detected***		100% gy,bi
001966-TR68X-4		*4-1*	***Area "C" Floor/*** *brown wooden patterned self-adhesive floor tile*	*n*	***None Detected***		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
Tract 68X 4498 Hwy. 12
001966 Springdale Bypass
Turnaround Time:
2 days

CA Labs Project #:
CAL12086908JC

Date: 08/28/12
Samples Received: 8/24/12 10am
Date Of Sampling: 08/20/12
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		4-2	*clear mastic*	*y*	***None Detected***		100% gy,bi
001966-TR68X-5		*5-1*	***Area "J" Ceiling**/ white compound*	*y*	***None Detected***		100% qu,mi,ca
		5-2	*white compound (beneath tape)*	*y*	***None Detected***		100% qu,mi,ca
		5-3	*white drywall with brown paper*	*n*	***None Detected***	13% ce	87% qu,gy
001966-TR68X-6		*6-1*	***Area "K" Ceiling**/ white compound*	*y*	***None Detected***		100% qu,ca
		6-2	*white compound (beneath tape)*	*y*	***None Detected***		100% qu,ca
		6-3	*white drywall with brown paper*	*n*	***None Detected***	13% ce 5% fg	82% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs

Crisp Analytical Laboratories, L.L.C
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Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 12086908
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address: (if different)	
phone number:	501-569-2317 or 2318	P.O. # :	001966
fax number:		Project Name:	Tract 68X 4498 Hwy. 12
Send Reports to:	Robert.Pooler@arkansashighways.com Joeld.Clark@arkansashighways.com	Project Number:	001966 Springdale Bypass

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix:
6	6	Air (Bulk) / Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
Circle analysis and TA time		*Circle analysis and TA time*	*2 hour*	PCM: NIOSH 7400	Note TAT
AHERA	*4 hour*	Improved	4 hour	**Allergen Particle:**	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	(AHERA)	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		(2 days)	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
001966 Tr. 68X #1	Area "C" Floor	8/20/2012	
001966 Tr. 68X #2	Area "C" Floor	8/20/2012	
001966 Tr. 68X #3	Area "C" Floor	8/20/2012	
001966 Tr. 68X #4	Area "C" Floor	8/20/2012	
001966 Tr. 68X #5	Area "J" Ceiling	8/20/2012	
001966 Tr. 68X #6	Area "K" Ceiling	8/20/2012	

Custody Information:

Samples relinquished: Robert Pooler 8/23/12 7:30 AM
Signature / Date / Time

Samples received: MTV 8/24/12 10AM
Signature / Date / Time

TR 68X
4498
08.21.2012 09:51

08.21.2012 09:53
TRACT 68 X WELL HOUSE

TRACT 68X BARN

TRACT 68X

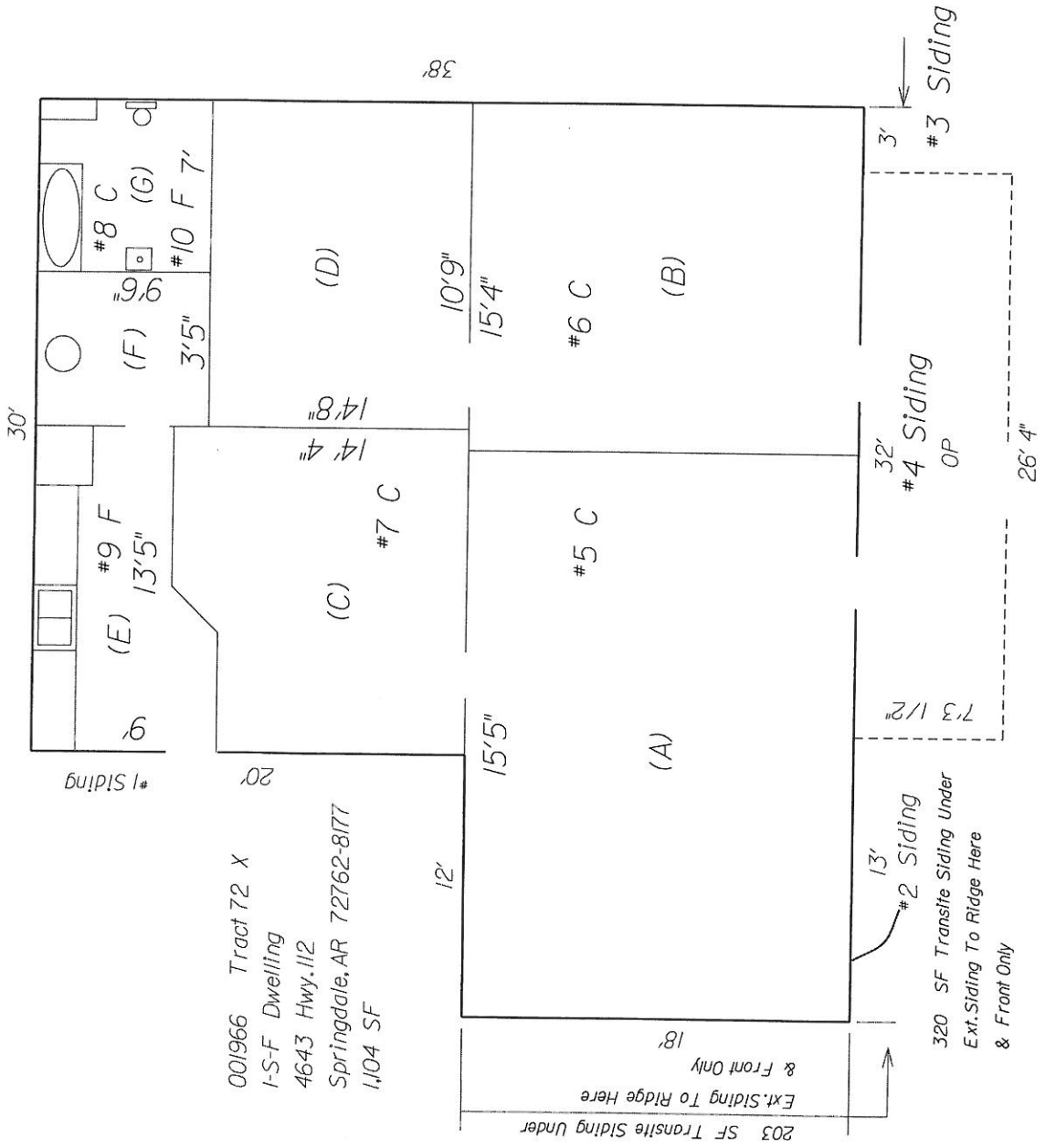
TRACT 68X

INSPECTION FLOOR PLAN

JOB:	001966	PROPERTY LOCATION	INSPECTED BY
TRACT:	72 X	1-S-F Dwelling	Joel Clark 011518)
DATE:	8/21/12	4643 Hwy. 112	Robert Pooler (014597)
		Springdale, AR 72762-8177	

Sample Number	Description/ Location	Sample Number	Description/ Location
#1	Area (H) Siding	#11	
#2	Area (H) Siding	#12	
#3	Area (H) Siding	#13	
#4	Area (H) Siding	#14	
#5	Area (A) Ceiling	#15	
#6	Area (B) Ceiling	#16	
#7	Area (C) Ceiling	#17	
#8	Area (G) Ceiling	#18	
#9	Area (E) Floor	#19	
#10	Area (G) Floor	#20	

Homogenous Areas:	
Roofing	Comp. Shingle/Wood Shingle
Siding	Panel/Lap Siding, Insulation
	Barrier
Ceilings A, B	Brown Fiber Tile
C, D, E, F, G	White Fiber Tile
Walls	Panel/Wood
Floors A, B, C, D, F	Carpet/Wood
	Vinyl



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Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler
Customer Project: 001966, Tract 72X 4643 Hwy 12, Springdale Bypass
Reference #: CAL12086907RO Date: 8/28/2012

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 001966, Tract 72X 4643 Hwy 12, Springdale Bypass **CA Labs Project #:** CAL12086907RO

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
001966 Tr 72X #3	*3-1*	***Area H Siding****/ white surfaced gray transite*	***24% Chrysotile***	***white surfaced gray transite***
001966 Tr 72X #4	*4-1*	***Area H Siding****/ white surfaced gray transite*	***22% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966, Tract 72X 4643 Hwy 12, Springdale Bypass

Turnaround Time:
2 Days

CA Labs Project #:
CAL12086907RO

Date: 8/28/2012
Samples Received: 8/24/12 10AM
Date Of Sampling: 8/21/12
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966 Tr 72X #1		1-1	***Area H Siding/*** *tan fibrous paneling*	y	***None Detected***	100% ce	
001966 Tr 72X #2		2-1	***Area H Siding/*** *tan fibrous paneling*	y	***None Detected***	100% ce	
001966 Tr 72X #3		3-1	***Area H Siding/*** *white surfaced gray transite*	n	***24% Chrysotile***		76% qu,bi,ca
001966 Tr 72X #4		4-1	***Area H Siding/*** *white surfaced gray transite*	n	***22% Chrysotile***		78% qu,bi,ca
001966 Tr 72X #5		5-1	***Area A Ceiling/*** *white surfacing*	y	***None Detected***		100% qu,bi
		5-2	*tan fibrous ceiling tile*	y	***None Detected***	100% ce	
001966 Tr 72X #6		6-1	***Area B Ceiling/*** *white surfacing*	y	***None Detected***		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

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001966, Tract 72X 4643 Hwy 12, Springdale Bypass

Turnaround Time:
2 Days

CA Labs Project #:
CAL12086907RO

Date: 8/28/2012
Samples Received: 8/24/12 10AM
Date Of Sampling: 8/21/12
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		6-2	*tan fibrous ceiling tile*	*y*	***None Detected***	100% ce	
001966 Tr 72X #7		*7-1*	***Area C Ceiling**/ white surfacing*	*y*	***None Detected***		100% qu,bi
		7-2	*tan ceiling tile*	*y*	***None Detected***	100% ce	
001966 Tr 72X #8		*8-1*	***Area G Ceiling**/ white surfacing*	*Y*	***None Detected***		100% qu,bi
		8-2	*tan ceiling tile*	*y*	***None Detected***	37% ce 33% fg	30% qu,pe,ca
001966 Tr 72X #9		*9-1*	***Area E Floor**/ tan linoleum*	*y*	***None Detected***	27% ce 7% fg	66% gy,ma
		9-2	*tan mastic*	*y*	***None Detected***		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

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bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Technical Manager
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Phone # 501-569-2317
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001966, Tract 72X 4643 Hwy 12, Springdale Bypass

Turnaround Time:
2 Days

CA Labs Project #:
CAL12086907RO

Date: 8/28/2012
Samples Received: 8/24/12 10AM
Date Of Sampling: 8/21/12
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966 Tr 72X #10		*10-1*	***Area G Floor/*** *tan linoleum*	*y*	***None Detected***	28% ce 6% fg	66% gy,ma
		10-2	*tan mastic*	*y*	***None Detected***		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

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Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs Job	CAL# 12086907
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address: (if different)	
phone number:	501-569-2317 or 2318	P.O. # :	001966
fax number:		Project Name:	Tract 72X 4643 Hwy.12
Send Reports to:	Robert.Pooler@arkansashighways.com Joeld.Clark@arkansashighways.com	Project Number:	001966 Springdale Bypass

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix:
10	10	Air / Bulk / Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
Circle analysis and TA time		*Circle analysis and TA time*	*2 hour*	PCM: NIOSH 7400	Note TAT
AHERA	*4 hour*	Improved	4 hour	**Allergen Particle:**	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
001966 Tr. 72X #1	Area "H" Siding	8/21/2012	
001966 Tr. 72X #2	Area "H" Siding	8/21/2012	
001966 Tr. 72X #3	Area "H" Siding	8/21/2012	
001966 Tr. 72X #4	Area "H" Siding	8/21/2012	
001966 Tr. 72X #5	Area "A" Ceiling	8/21/2012	
001966 Tr. 72X #6	Area "B" Ceiling	8/21/2012	
001966 Tr. 72X #7	Area "C" Ceiling	8/21/2012	

Custody Information:

Samples relinquished: Robert Pooler 8/23/12 7:40 Am
Signature / Date / Time

Samples received: MTV 8/24/12 10AM
Signature / Date / Time

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Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Samples relinquished: _____ Signature / Date / Time

Samples received: _____ Signature / Date / Time

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
001966 Tr. 72X #8	Area "G" Ceiling	8/21/2012	
001966 Tr. 72X #9	Area "E" Floor	8/21/2012	
001966 Tr. 72X #10	Area "G" Floor	8/21/2012	

Custody Information:

Samples relinquished: Robert Cooler 8/23/12 7:30 AM
Signature / Date / Time

Samples received: MTV 8/24/12 10AM
Signature / Date / Time

Samples relinquished: _____ Signature / Date / Time

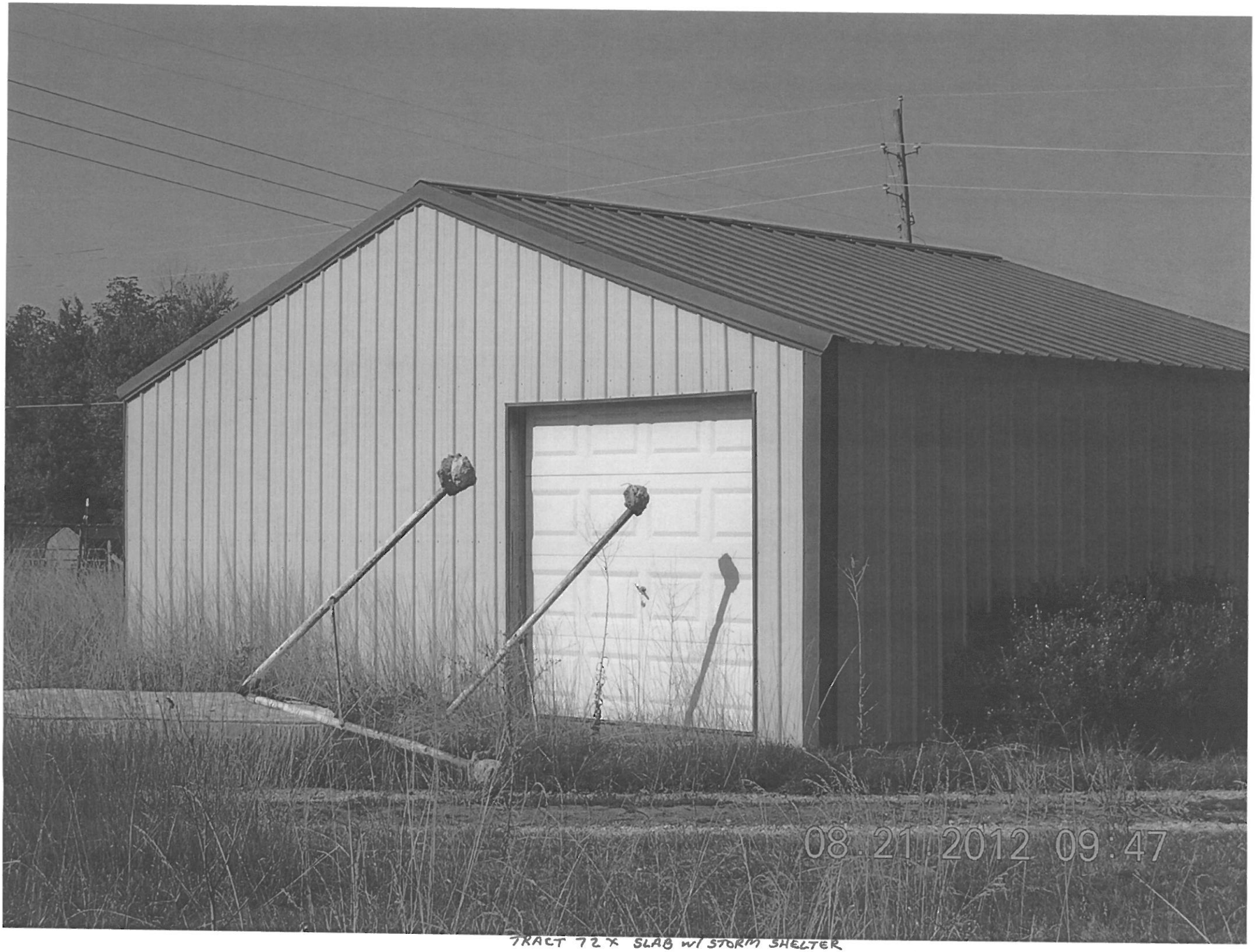
Samples received: _____ Signature / Date / Time

TRACT 72X FRONT

TRACT 72X NORTHSIDE

TRACT 72X

08 21 2012 09 47



TRACT 72X SLAB w/ STORM SHELTER

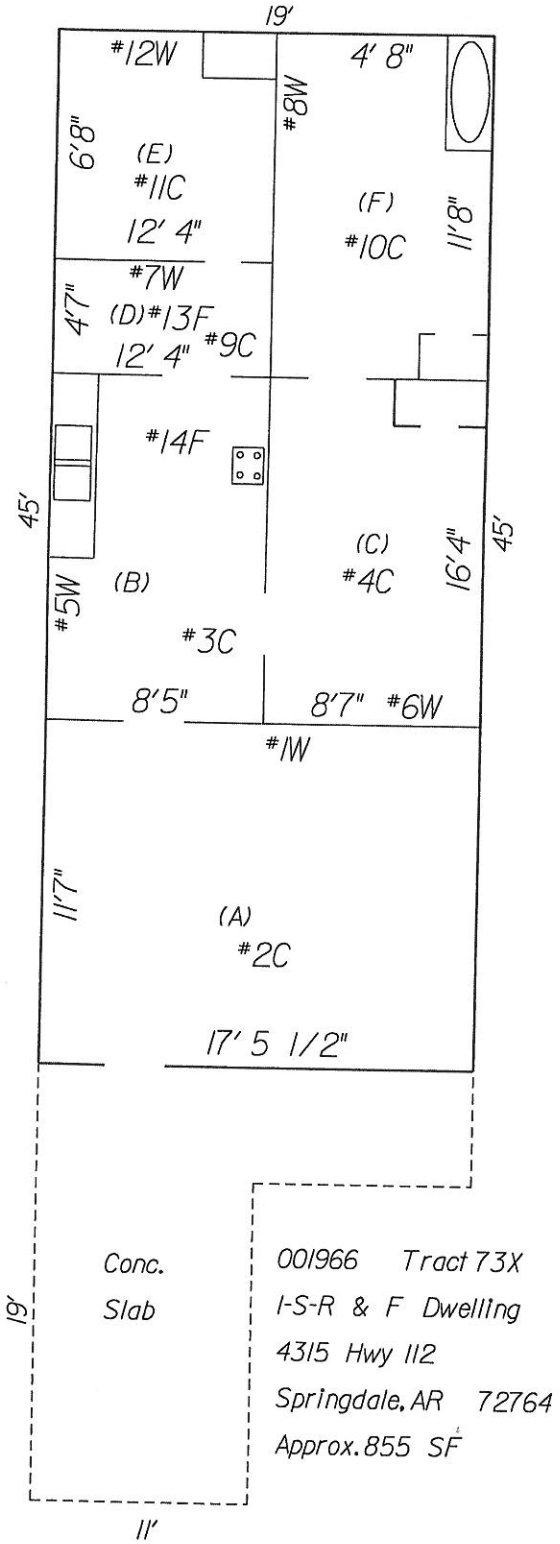
TRACT 72X CHICKEN HOUSES

TRACT 72x

JOB:	001966	PROPERTY LOCATION	INSPECTED BY
TRACT:	73 X	1-S-R & F Dwelling	Joel Clark (011518)
DATE:	8/21/12	4315 Hwy. 112	Robert Pooler (014597)
		Springdale, AR 72764	50 YRS OLD

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1	Area (A) Wall	#11	Area (E) Ceiling
#2	Area (A) Ceiling	#12	Area (E) Wall
#3	Area (B) Ceiling	#13	Area (D) Floor
#4	Area (C) Ceiling	#14	Area (B) Floor
#5	Area(B) Wall	#15	
#6	Area (C) Wall	#16	
#7	Area (D) Wall	#17	
#8	Area (F) Wall	#18	
#9	Area (D) Ceiling	#19	
#10	Area (F) Ceiling	#20	

Homogenous Areas:		
Roofing		Comp. Shingle
Siding Rock Front		Metal/Wood
Ceilings	D, E	Sheet Rock
	B. C	Sheet Rock
Walls	D, F	Sheet Rock
	B, C	Sheet Rock
Floors	B, D	Vinyl



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Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 73X 4315 Hwy. 12 001966 Springdale Bypass **CA Labs Project #:** CAL12086905JC

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
	8-2	*tan compound (beneath tape)*	***2% Chrysotile***	
001966-TR73X-9	*9-1*	***Area "D" Ceiling**/ tan surfaced white compound*	***2% Chrysotile***	
	9-2	*white compound (beneath tape)*	***2% Chrysotile***	
001966-TR73X-10	*10-1*	***Area "E" Ceiling**/ tan surfaced tan compound*	***2% Chrysotile***	
	10-2	*tan compound (beneath tape)*	***3% Chrysotile***	
001966-TR73X-11	*11-1*	***Area "F" Ceiling**/ tan surfaced tan compound*	***2% Chrysotile***	
	11-2	*tan compound (beneath tape)*	***2% Chrysotile***	
001966-TR73X-12	*12-1*	***Area "E" Wall**/ tan surfaced tan compound*	***2% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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001966-TR73X-1		1-1	***Area "A" Wall/*** *white surfaced white compound*	n	***None Detected***		100% mi,bi,ca
		1-2	*white compound (beneath tape)*	y	***2% Chrysotile***		98% mi,ca
		1-3	*white drywall with brown paper*	n	***None Detected***	23% ce	77% qu,gy
001966-TR73X-2		2-1	***Area "A" Ceiling/*** *blue surfaced white compound*	n	***None Detected***		100% mi,bi,ca
		2-2	*white compound (beneath tape)*	y	***None Detected***		100% mi,ca
		2-3	*white drywall with brown paper*	n	***None Detected***	20% ce	80% qu,gy
001966-TR73X-3		3-1	***Area "B" Ceiling/*** *blue surfaced white compound*	n	***None Detected***		100% mi,bi,ca

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		3-2	*tan compound (beneath tape)*	*y*	***2% Chrysotile***		98% mi,ca
		3-3	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
001966-TR73X-4		*4-1*	***Area "C" Ceiling/*** *tan surfaced white compound*	*n*	***None Detected***		100% mi,bi,ca
		4-2	*white compound (beneath tape)*	*y*	***2% Chrysotile***		98% mi,ca
		4-3	*white drywall with brown paper*	*n*	***None Detected***	22% ce	78% qu,gy
001966-TR73X-5		*5-1*	***Area "B" Wall/*** *tan surfaced white compound*	*n*	***2% Chrysotile***		98% mi,bi,ca
		5-2	*white drywall with brown paper*	*n*	***None Detected***	23% ce	77% qu,gy

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Fax # 501-569-2018

Customer Project:
Tract 73X 4315 Hwy. 12
001966 Springdale Bypass
Turnaround Time:
2 days

CA Labs Project #:
CAL12086905JC

Date: 08/28/12
Samples Received: 8/24/12 10am
Date Of Sampling: 08/21/12
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966-TR73X-6		6-1	***Area "C" Wall/*** *tan surfaced white compound*	*n*	***3% Chrysotile***		97% mi,bi,ca
		6-2	*white drywall with brown paper*	*n*	***None Detected***	22% ce	78% qu,gy
001966-TR73X-7		7-1	***Area "D" Wall/*** *tan surfaced white compound*	*n*	***2% Chrysotile***		98% mi,bi,ca
		7-2	*tan compound (beneath tape)*	*y*	***2% Chrysotile***		98% mi,ca
		7-3	*white drywall with brown paper*	*n*	***None Detected***	25% ce	75% qu,gy
001966-TR73X-8		8-1	***Area "F" Wall/*** *tan surfaced white compound*	*n*	***2% Chrysotile***		98% mi,bi,ca
		8-2	*tan compound (beneath tape)*	*y*	***2% Chrysotile***		98% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
Tract 73X 4315 Hwy. 12
001966 Springdale Bypass
Turnaround Time:
2 days

CA Labs Project #:
CAL12086905JC

Date: 08/28/12
Samples Received: 8/24/12 10am
Date Of Sampling: 08/21/12
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		8-3	*white drywall with brown paper*	*n*	***None Detected***	19% ce	81% qu,gy
001966-TR73X-9		*9-1*	***Area "D" Ceiling**/ tan surfaced white compound*	*n*	***2% Chrysotile***		98% mi,bi,ca
		9-2	*white compound (beneath tape)*	*y*	***2% Chrysotile***		98% mi,ca
		9-3	*white drywall with brown paper*	*n*	***None Detected***	17% ce	83% qu,gy
001966-TR73X-10		*10-1*	***Area "E" Ceiling**/ tan surfaced tan compound*	*n*	***2% Chrysotile***		98% mi,bi,ca
		10-2	*tan compound (beneath tape)*	*y*	***3% Chrysotile***		97% mi,ca
		10-3	*white drywall with brown paper*	*n*	***None Detected***	24% ce	76% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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9. < 1% Result point counted positive
10. TEM analysis suggested

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Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
Tract 73X 4315 Hwy. 12
001966 Springdale Bypass
Turnaround Time:
2 days

CA Labs Project #:
CAL12086905JC

Date: 08/28/12
Samples Received: 8/24/12 10am
Date Of Sampling: 08/21/12
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966-TR73X-11		11-1	***Area "F" Ceiling/*** *tan surfaced tan compound*	*n*	***2% Chrysotile***		98% mi,bi,ca
		11-2	*tan compound (beneath tape)*	*y*	***2% Chrysotile***		98% mi,ca
		11-3	*white drywall with brown paper*	*n*	***None Detected***	23% ce	77% qu,gy
001966-TR73X-12		12-1	***Area "E" Wall/*** *tan surfaced tan compound*	*n*	***2% Chrysotile***		98% mi,bi,ca
		12-2	*tan compound (beneath tape)*	*y*	***2% Chrysotile***		98% mi,ca
		12-3	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
001966-TR73X-13		13-1	***Area "D" Wall/*** *tan linoleum*	*y*	***None Detected***	26% ce	74% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
Tract 73X 4315 Hwy. 12
001966 Springdale Bypass
Turnaround Time:
2 days

CA Labs Project #:
CAL12086905JC

Date: 08/28/12
Samples Received: 8/24/12 10am
Date Of Sampling: 08/21/12
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966-TR73X-14		*14-1*	***Area "B" Wall/*** *tan linoleum*	*y*	***None Detected***	25% ce	75% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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CA Labs

Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs Job	CAL# 12086905
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address: (if different)	
phone number:	501-569-2317 or 2318	P.O. # :	001966
fax number:		Project Name:	Tract 73X 4315 Hwy. 12
Send Reports to:	Robert.Pooler@arkansashighways.com Joeld.Clark@arkansashighways.com	Project Number:	001966 Springdale Bypass

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix:
14	14	Air / Bulk / Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
Circle analysis and TA time		*Circle analysis and TA time*	*2 hour*	PCM: NIOSH 7400	Note TAT
AHERA	*4 hour*	Improved	4 hour	**Allergen Particle:**	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
001966 Tr. 73X #1	Area "A" Wall	8/21/2012	
001966 Tr. 73X #2	Area "A" Ceiling	8/21/2012	
001966 Tr. 73X #3	Area "B" Ceiling	8/21/2012	
001966 Tr. 73X #4	Area "C" Ceiling	8/21/2012	
001966 Tr. 73X #5	Area "B" Wall	8/21/2012	
001966 Tr. 73X #6	Area "C" Wall	8/21/2012	
001966 Tr. 73X #7	Area "D" Wall	8/21/2012	

Custody Information:

Samples relinquished: Robert Pooler 8/23/12
Signature / Date / Time 7:50 AM

Samples received: MTV 8/24/12 10AM
Signature / Date / Time

CA Labs

Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Samples relinquished: _____ Signature / Date / Time

Samples received: _____ Signature / Date / Time

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
001966 Tr. 73X #8	Area "F" Wall	8/21/2012	
001966 Tr. 73X #9	Area "D" Ceiling	8/21/2012	
001966 Tr. 73X #10	Area "F" Ceiling	8/21/2012	
001966 Tr. 73X #11	Area "E" Ceiling	8/21/2012	
001966 Tr. 73X #12	Area "E" Wall	8/21/2012	
001966 Tr. 73X #13	Area "D" Floor	8/21/2012	
001966 Tr. 73X #14	Area "B" Floor	8/21/2012	

Custody Information:

Samples relinquished: Robert Looker 8/23/12 7:50 AM
Signature / Date / Time

Samples received: MTV 8/24/12 10AM
Signature / Date / Time

Samples relinquished: _____ Signature / Date / Time

Samples received: _____ Signature / Date / Time

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Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler
Customer Project: Tract 73X 4315 Hwy. 12 001966 Springdale Bypass
Reference #: CAL12086905JC Date: 08/28/12

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 73X 4315 Hwy. 12 001966 Springdale Bypass **CA Labs Project #:** CAL12086905JC

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
001966-TR73X-1	*1-2*	*white compound (beneath tape)*	***2% Chrysotile***	***white compound (beneath tape)***
				tan compound (beneath tape)
				tan surfaced white compound
001966-TR73X-3	*3-2*	*tan compound (beneath tape)*	***2% Chrysotile***	***tan surfaced tan compound***
001966-TR73X-4	*4-2*	*white compound (beneath tape)*	***2% Chrysotile***	
001966-TR73X-5	*5-1*	***Area "B" Wall/*** *tan surfaced white compound*	***2% Chrysotile***	
001966-TR73X-6	*6-1*	***Area "C" Wall/*** *tan surfaced white compound*	***3% Chrysotile***	
001966-TR73X-7	*7-1*	***Area "D" Wall/*** *tan surfaced white compound*	***2% Chrysotile***	
	7-2	*tan compound (beneath tape)*	***2% Chrysotile***	
001966-TR73X-8	*8-1*	***Area "F" Wall/*** *tan surfaced white compound*	***2% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other

pe - perlite
qu - quartz

fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)

pa - palygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

TRACT 73X

TRACT 73 X

TRACT 73X

TRACT 73X

TRACT 73 X

TRACT 73X

TRACT 73X

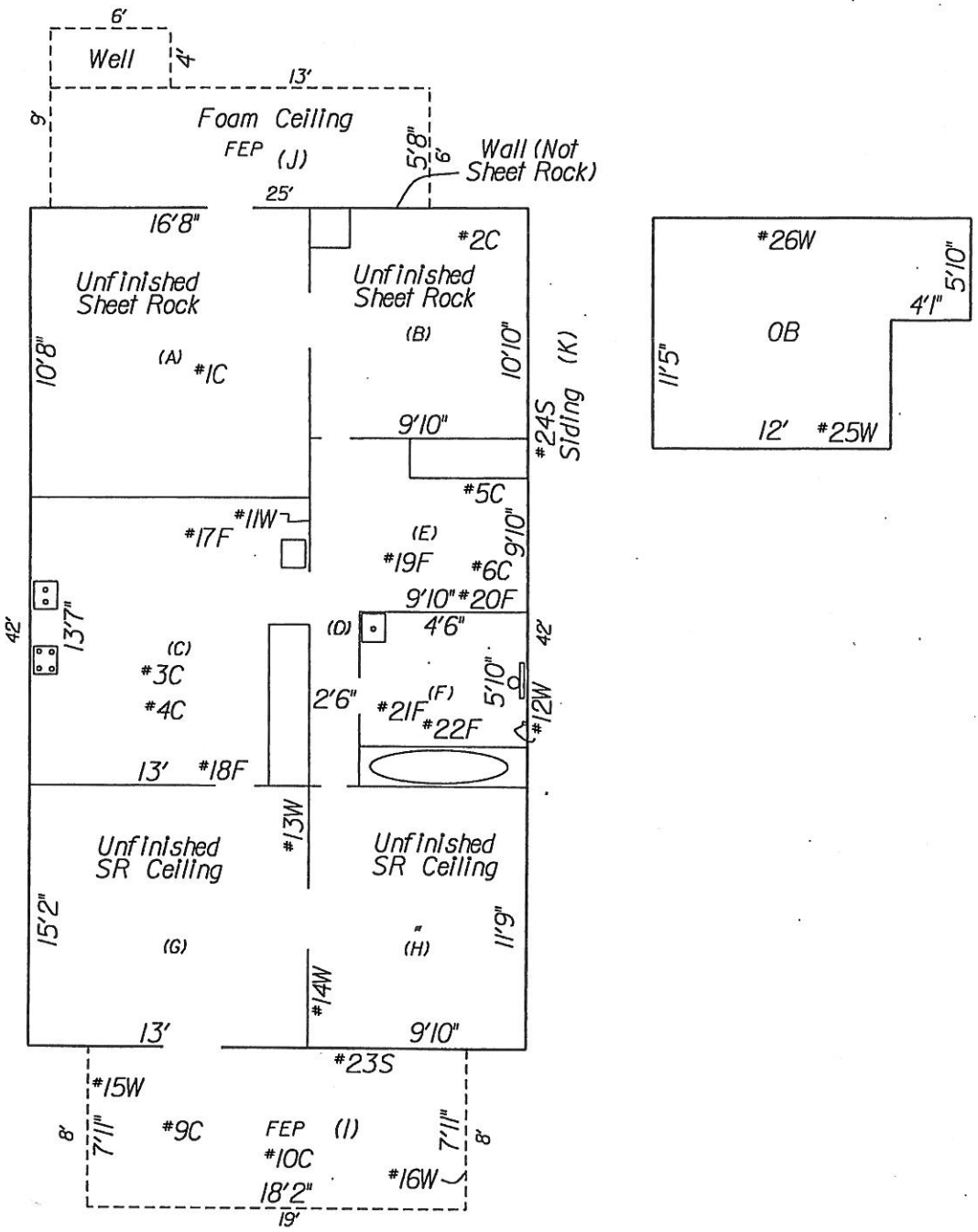
TRACT 73X

JOB:	001966	PROPERTY LOCATION	INSPECTED BY
TRACT:	95 X	1-S-Framed Dwelling	Robert Pooler (014597)
DATE:	12/8/11	13036 Sharp Springs Road	
		Lowell, AR 72745	

1,050± square feet with three bedrooms and one bath.

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1	A) Ceiling	#14	H) Wall
#2	B) Ceiling	#15	I) Wall
#3	C) Ceiling	#16	I) Wall
#4	C) Ceiling	#17	C) Floor
#5	E) Ceiling	#18	C) Floor
#6	E) Ceiling	#19	E) Floor
#7		#20	E) Floor
#8	I) Ceiling	#21	F) Floor
#9	I) Ceiling	#22	F) Floor
#10		#23	K) Siding
#11	C) Wall	#24	K) Siding
#12	F) Wall	#25	OB) Wall
#13	G) Wall	#26	OB) Wall

Homogenous Areas:	
Roofing	Composite Shingles
Siding	Wood/Asphalt Shingle/Metal
Ceilings (A, B)	Fiber Board
(D, F)	Sheet Rock
Walls (C, D, F)	Paneling/Sheet Rock
Floors	



001966 Tract 95X
1-S-F Dwelling
13036 Sharp Springs Road
Lowell, AR 72745
1,050 SF

ATOKA, INC.

Professional Engineering & Environmental Consulting Services

Member - Insurance Claims Support

ASBESTOS ANALYSIS SUMMARY

December 21, 2011
A11-1209-24-49

AHTD, Property Management
P.O. Box 2261, Room 705
Little Rock, AR 72203-2261

Attn: Robert Pooler / Joel Clark
Ph: 501-569-2317 (2318)
Fx: 501-569-2018

Test requested: Asbestos Identification and Quantification

Method: EPA/600/R-93/116 JULY, 1993

Sample description: Twenty-six (26) PLM bulk samples submitted 12/09/11

Client Project Info: #001966 Tr. 95X; 1-S Framed Dwelling, 13036 Sharp Springs Rd, Lowell, AR

ATOKA#	Client Field #/Description	Asbestos
A11-1209-24	001966 Tr 95X #1 Area "A" Ceiling	None Detected
	2nd layer, brown ceiling tile	None Detected
A11-1209-25	001966 Tr 95X #2 Area "B" Ceiling	None Detected
	2nd layer, brown ceiling tile	None Detected
A11-1209-26	001966 Tr 95X #3 Area "C" Ceiling	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-27	001966 Tr 95X #4 Area "C" Ceiling	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-28	001966 Tr 95X #5 Area "E" Ceiling	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-29	001966 Tr 95X #6 Area "E" Ceiling	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-30	001966 Tr 95X #7 *******DELETED**********	None Detected
A11-1209-31	001966 Tr 95X #8 *******DELETED**********	None Detected
A11-1209-32	001966 Tr 95X #9 Area "I" Ceiling	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-33	001966 Tr 95X #10 Area "I" Ceiling	None Detected

ATOKA#	Client Field #/Description	Asbestos
	2nd layer, white drywall with brown paper	None Detected
A11-1209-34	001966 Tr 95X #11 Area "C" Wall	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-35	001966 Tr 95X #12 Area "I" Wall	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-36	001966 Tr 95X #13 Area "G" Wall	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-37	001966 Tr 95X #14 Area "H" Wall	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-38	001966 Tr 95X #15 Area "I" Wall	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-39	001966 Tr 95X #16 Area "I" Wall	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-40	001966 Tr 95X #17 Area "C" Floor	None Detected
	2nd layer, tan mastic	None Detected
	3rd layer, brown patterned linoleum	None Detected
A11-1209-41	001966 Tr 95X #18 Area "C" Floor	None Detected
	2nd layer, tan mastic	None Detected
	3rd layer, brown patterned linoleum	None Detected
A11-1209-42	001966 Tr 95X #19 Area "E" Floor	None Detected
A11-1209-43	001966 Tr 95X #20 Area "E" Floor	None Detected
A11-1209-44	001966 Tr 95X #21 Area "F" Floor	2% Chrysotile
	2nd layer, tan mastic	None Detected
A11-1209-45	001966 Tr 95X #22 Area "F" Floor	2% Chrysotile
A11-1209-46	001966 Tr 95X #23 Area "K" Siding	None Detected
A11-1209-47	001966 Tr 95X #24 Area "K" Siding	None Detected
	2nd layer, brown insulation	None Detected
A11-1209-48	001966 Tr 95X #25 Area "OB" Wall	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-49	001966 Tr 95X #26 Area "OB" Wall	None Detected

ATOKA#	Client Field #/Description	Asbestos
	2nd layer, white drywall with brown paper	None Detected

Cliff W. McBryde, ATOKA, Inc.

NIST / NVLAP laboratory #200349-0 issued to Crisp Analytical, LLC and contracted by ATOKA, Inc.
Note: All percentages are visual estimations based on field area determination. All sample reflect the content of samples as received.
Any association with sample locations is by inference only.

CAL11127738

I-30, Bldg. 1, Ste 119
Little Rock, AR 72209

ATOKA, INC

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Office: 501-455-1700
Fax: 501-455-1864

PROJECT NO.	CLIENT/OWNER		SAMPLE LOCATIONS	
001966 Tract 95X Page 1 06-026	Name	AHTD, Property Management Attn: Robert Pooler or Joel Clark	Name	1-S Framed Dwelling
	Address City, State, ZIP	P. O. Box 2261, ROOM 705 LITTLE ROCK, AR 72203-2261	Address	13036 Sharp Springs Road
	Phone #	501-569-2317, (2318) FAX 501-569-2018	City, State, ZIP	Lowell , AR 72745

SAMPLERS SIGNATURE	SAMPLE TYPE	Sample Condition:
Robert Pooler PRINTED Robert Pooler 014597	Bulk ■ Air □ Food □ Soil □ Water □ Swab □ Other □ Air: □ Micro 5 □ Air-O-Cell □ Cyclex-D □ Biotest □ Plate □ Swab: □ Sponge □ Cotton Tip □ Tape Lift □ Other □	■ Satisfactory _____ Temp °C □ Unsatisfactory Rejected Reason Demolition

FIELD SAMPLE #	DATE	TIME	SAMPLE LOCATION/DESCRIPTION:	PARAMETER	ATOKA LABORATORY ID #
001966 Tr 95X #1	12/8/2011		Area "A" Ceiling	ASBESTOS	A11-1209-24
001966 Tr 95X #2	"		Area "B" Ceiling	"	" 25
001966 Tr 95X #3	"		Area "C" Ceiling	"	" 26
001966 Tr 95X #4	"		Area "C" Ceiling	"	27
001966 Tr 95X #5	"		Area "E" Ceiling	"	" 28
001966 Tr 95X #6	"		Area "E" Ceiling	"	29
001966 Tr 95X #7	"		Deleted	"	" 30
001966 Tr 95X #8	"		Deleted	"	31
001966 Tr 95X #9	"		Area "I" Ceiling	"	" 32
001966 Tr 95X #10	"		Area "I" Ceiling	"	" 33

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
Robert Pooler PRINTED: Robert Pooler		[signature] PRINTED: Lisa Holeman	12-9-11 9:55		
RECEIVED BY:	**DATE/TIME**	**RECEIVED BY LABORATORY:**	**DATE/TIME**	**SPECIAL INSTRUCTIONS**	
PRINTED:		MTV PRINTED: CA Labs	12/12/11 10AM	(5-Day) Turn-around	

CAL111277738

I-30, Bldg. 1, Ste 119
Little Rock, AR 72209

ATOKA, INC

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Office: 501-455-1700
Fax: 501-455-1864

PROJECT NO.	CLIENT/OWNER		SAMPLE LOCATIONS	
001966 Tract 95X Page 2 06-026	Name	AHTD, Property Management Attn: Robert Pooler or Joel Clark	Name	1-S Framed Dwelling
	Address City, State, ZIP	P. O. Box 2261, ROOM 705 LITTLE ROCK, AR 72203-2261	Address	13036 Sharp Springs Road
	Phone #	501-569-2317, (2318) FAX 501-569-2018	City, State, ZIP	Lowell , AR 72745

SAMPLERS SIGNATURE	SAMPLE TYPE	Sample Condition:
Robert Pooler PRINTED Robert Pooler 014597	Bulk ■ Air □ Food □ Soil □ Water □ Swab □ Other □ Air: □ Micro 5 □ Air-O-Cell □ Cyclex-D □ Biotest □ Plate □ Swab: □ Sponge □ Cotton Tip □ Tape Lift □ Other □	■ Satisfactory _____ Temp °C □ Unsatisfactory Rejected Reason Demolition

FIELD SAMPLE #	DATE	TIME	SAMPLE LOCATION/DESCRIPTION:	PARAMETER	ATOKA LABORATORY ID #
001966 Tr 95X #11	12/8/2011		Area "C" Wall	ASBESTOS	A11-1209-34
001966 Tr 95X #12	"		Area "F" Wall	"	" 35
001966 Tr 95X #13	"		Area "G" Wall	"	36
001966 Tr 95X #14	"		Area "H" Wall	"	" 37
001966 Tr 95X #15	"		Area "I" Wall	"	38
001966 Tr 95X #16	"		Area "I" Wall	"	" 39
001966 Tr 95X #17	"		Area "C" Floor	"	40
001966 Tr 95X #18	"		Area "C" Floor	"	" 41
001966 Tr 95X #19	"		Area "E" Floor	"	42
001966 Tr 95X #20	"		Area "E" Floor	"	" 43

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
Robert Pooler PRINTED: Robert Pooler		PRINTED:			

RECEIVED BY:	DATE/TIME	RECEIVED BY LABORATORY:	DATE/TIME	SPECIAL INSTRUCTIONS
PRINTED:		MTV PRINTED: CA Labs	12/12/11 10AM	(5-Day) Turn-around

CAL11127738

I-30, Bldg. 1, Ste 119
Little Rock, AR 72209

ATOKA, INC

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Office: 501-455-1700
Fax: 501-455-1864

PROJECT NO.	CLIENT/OWNER		SAMPLE LOCATIONS	
001966 Tract 95X Page 3 06-026	Name	AHTD, Property Management Attn: Robert Pooler or Joel Clark	Name	1-S Framed Dwelling
	Address City, State, ZIP	P. O. Box 2261, ROOM 705 LITTLE ROCK, AR 72203-2261	Address	13036 Sharp Springs Road
	Phone #	501-569-2317, (2318) FAX 501-569-2018	City, State, ZIP	Lowell , AR 72745

SAMPLERS SIGNATURE	SAMPLE TYPE	Sample Condition:
Robert Pooler PRINTED/ Robert Pooler 014597	Bulk ■ Air □ Food □ Soil □ Water □ Swab □ Other □ Air: □ Micro 5 □ Air-O-Cell □ Cyclex-D □ Biotest □ Plate □ Swab: □ Sponge □ Cotton Tip □ Tape Lift □ Other □	■ Satisfactory _____ Temp °C □ Unsatisfactory Rejected Reason Demolition

FIELD SAMPLE #	DATE	TIME	SAMPLE LOCATION/DESCRIPTION:	PARAMETER	ATOKA LABORATORY ID #
001966 Tr 95X #21	12/8/2011		Area "F" Floor	ASBESTOS	A11-1209-44
001966 Tr 95X #22	"		Area "F" Floor	"	" 45
001966 Tr 95X #23	"		Area "K" Siding	"	" 46
001966 Tr 95X #24	"		Area "K" Siding	"	" 47
001966 Tr 95X #25	"		Area "OB" Wall	"	" 48
001966 Tr 95X #26	"		Area "OB" Wall	"	" 49
	"			"	
	"			"	
	"			"	
	"			"	

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
Robert Pooler PRINTED: Robert Pooler		PRINTED:			

RECEIVED BY:	DATE/TIME	RECEIVED BY LABORATORY:	DATE/TIME	SPECIAL INSTRUCTIONS
PRINTED:		MTV PRINTED: CA. Labs	12/12/11 10AM	(5-Day) Turn-around

TR95X 13036 SHARP SPRINGS RD.

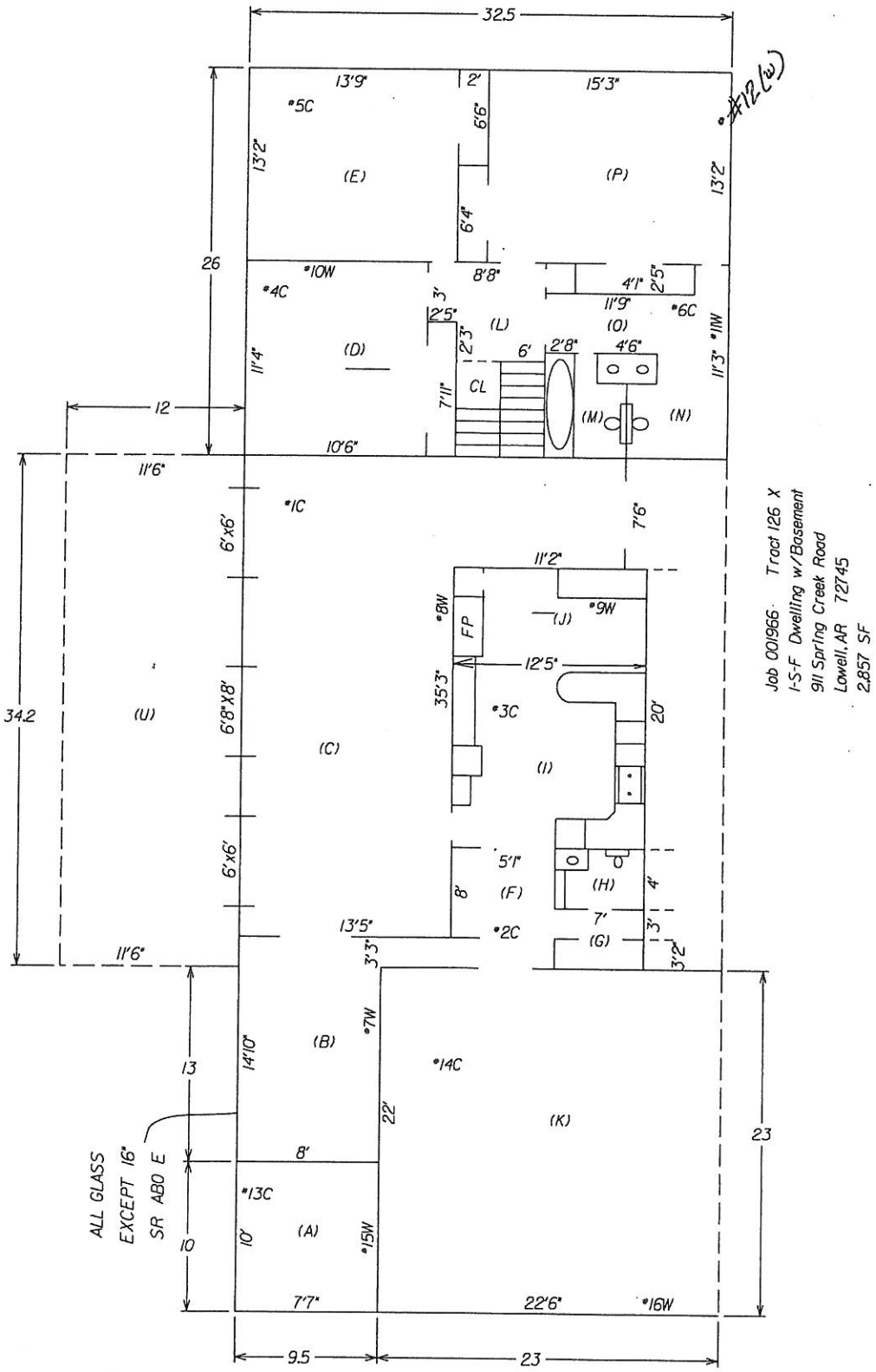
TR 95 13036 SHARP SPRINGS RD

TRACT:	126 X	1-S-Brick & Frame Dwelling	Robert Pooler (014597)
DATE:	12/7/11	916 Spring Creek Road	
		Lowell, AR 72745	

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1	C) Ceiling	#12	P) Wall
#2	F) Ceiling	#13	A) Ceiling
#3	I) Ceiling	#14	K) Ceiling
#4	D) Ceiling	#15	A) Wall
#5	E) Ceiling	#16	K) Wall
#6 O)	~~D)~~ Ceiling	#17	Q) Ceiling
#7	B) Wall	#18	Q) Ceiling
#8	C) Wall	#19	Q) Wall
#9	J) Wall	#20	T) Wall
#10	D) Wall	#21	R) Floor
#11	O) Wall	#22	R) Flor

Homogenous Areas:	
Roofing	Comp/ Shingle
Siding	Brick & Wood
Ceilings (C, F, G, H, I, J)	Sheet Rock
(D, E, L; M, N, O, P)	Sheet Rock
Walls (B, C, F, G, H, I, J)	Sheet Rock
(D, E, L, M, N, O, P	
Floors	Wood, Ceramic Tile, Conc.,
R, S	Vinyl

Ceiling: B, U – Wood; A & K – Sheet Rock; Wall: A & K – Sheet Rock



ATOKA, INC.

Professional Engineering & Environmental Consulting Services

Member - Insurance Claims Support

ASBESTOS ANALYSIS SUMMARY

December 21, 2011
A11-1209-50-71

AHTD, Property Management
P.O. Box 2261, Room 705
Little Rock, AR 72203-2261

Attn: Robert Pooler / Joel Clark
Ph: 501-569-2317 (2318)
Fx: 501-569-2018

E-MAILED 12-21-11 AA

Test requested: Asbestos Identification and Quantification

Method: EPA/600/R-93/116 JULY, 1993

Sample description: Twenty-two (22) PLM bulk samples submitted 12/09/11

Client Project Info: #001966 Tr. 126X; Split Level Dwelling, 916 Spring Creek Rd, Lowell, AR

ATOKA#	Client Field #/Description	Asbestos
A11-1209-50	001966 Tr. 126X #1 Area "C" Ceiling	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-51	001966 Tr. 126X #2 Area "F" Ceiling	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-52	001966 Tr. 126X #3 Area "I" Ceiling	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-53	001966 Tr. 126X #4 Area "D" Ceiling	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-54	001966 Tr. 126X #5 Area "E" Ceiling	3% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-55	001966 Tr. 126X #6 Area ~~"D"~~ Ceiling "O"	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-56	001966 Tr. 126X #7 Area "B" Wall	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-57	001966 Tr. 126X #8 Area "C" Wall	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-58	001966 Tr. 126X #9 Area "J" Wall	2% Chrysotile

ATOKA#	Client Field #/Description	Asbestos
	2nd layer, white drywall with brown paper	None Detected
A11-1209-59	001966 Tr. 126X #10 Area "D" Wall	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-60	001966 Tr. 126X #11 Area "O" Wall	None Detected
	2nd layer, white drywall with brown paper	None Detected
A11-1209-61	001966 Tr. 126X #12 Area ~~"I"~~ Wall "P"	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-62	001966 Tr. 126X #13 Area "A" Ceiling	3% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-63	001966 Tr. 126X #14 Area "K" Ceiling	3% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-64	001966 Tr. 126X #15 Area "A" ~~Ceiling~~ WALL	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-65	001966 Tr. 126X #16 Area "K" Wall	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-66	001966 Tr. 126X #17 Area "Q" Ceiling	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-67	001966 Tr. 126X #18 Area "Q" Ceiling	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-68	001966 Tr. 126X #19 Area "Q" Wall	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-69	001966 Tr. 126X #20 Area ~~"I"~~ Wall "T"	2% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A11-1209-70	001966 Tr. 126X #21 Area "R" Floor	31% Chrysotile
A11-1209-71	001966 Tr. 126X #22 Area "R" Floor	29% Chrysotile

Cliff W. McBryde, ATOKA, Inc.

NIST / NVLAP laboratory #200349-0 issued to Crisp Analytical, LLC and contracted by ATOKA, Inc.
Note: All percentages are visual estimations based on field area determination. All sample reflect the content of samples as received.
Any association with sample locations is by inference only.

CAL1127741

I-30, Bldg. 1, Ste 119
Little Rock, AR 72209

ATOKA, INC

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Office: 501-455-1700
Fax: 501-455-1864

PROJECT NO.	CLIENT/OWNER		SAMPLE LOCATIONS	
001966 Tract 126X Page 1 06·026	Name	AHTD, Property Management Attn: Robert Pooler or Joel Clark	Name	Split Level Dwelling
	Address City, State, ZIP	P. O. Box 2261, ROOM 705 LITTLE ROCK, AR 72203-2261	Address	916 Spring Creek Road
	Phone #	501-569-2317, (2318) FAX 501-569-2018	City, State, ZIP	Lowell , AR 72745

SAMPLERS SIGNATURE	SAMPLE TYPE	Sample Condition:
Robert Pooler PRINTED Robert Pooler 014597	Bulk ■ Air □ Food □ Soil □ Water □ Swab □ Other □ Air: □ Micro 5 □ Air-O-Cell □ Cyclex-D □ Biotest □ Plate □ Swab: □ Sponge □ Cotton Tip □ Tape Lift □ Other □	■ Satisfactory _____ Temp °C □ Unsatisfactory Rejected Reason Demolition

FIELD SAMPLE #	DATE	TIME	SAMPLE LOCATION/DESCRIPTION:	PARAMETER	ATOKA LABORATORY ID #
001966 Tr 126X #1	12/7/2011		Area "C" Ceiling	ASBESTOS	Alt 1209 - 50
001966 Tr 126X #2	"		Area "F" Ceiling	"	" 51
001966 Tr 126X #3	"		Area "I" Ceiling	"	" 52
001966 Tr 126X #4	"		Area "D" Ceiling	"	" 53
001966 Tr 126X #5	"		Area "E" Ceiling	"	" 54
001966 Tr 126X #6	"		Area "O" Ceiling	"	" 55
001966 Tr 126X #7	"		Area "B" Wall	"	" 56
001966 Tr 126X #8	"		Area "C" Wall	"	" 57
001966 Tr 126X #9	"		Area "J" Wall	"	" 58
001966 Tr 126X #10	"		Area "D" Wall	"	" 59

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
Robert Pooler PRINTED: Robert Pooler		[signature] PRINTED: Lisa Holeman	12·9·11 9:55		
RECEIVED BY:	**DATE/TIME**	**RECEIVED BY LABORATORY:**	**DATE/TIME**	**SPECIAL INSTRUCTIONS**	
PRINTED:		MTV PRINTED: CA Labs	12/12/11 10AM	(5-Day) Turn-around	

CAL11127741

I-30, Bldg. 1, Ste 119
Little Rock, AR 72209

ATOKA, INC

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Office: 501-455-1700
Fax: 501-455-1864

PROJECT NO.	CLIENT/OWNER		SAMPLE LOCATIONS	
001966 Tract 126X Page 2 06·024	Name	AHTD, Property Management Attn: Robert Pooler or Joel Clark	Name	Split Level Dwelling
	Address City, State, ZIP	P. O. Box 2261, ROOM 705 LITTLE ROCK, AR 72203-2261	Address	916 Spring Creek Road
	Phone #	501-569-2317, (2318) FAX 501-569-2018	City, State, ZIP	Lowell , AR 72745

SAMPLERS SIGNATURE	SAMPLE TYPE	Sample Condition:
Robert Pooler PRINTED Robert Pooler 014597	Bulk ■ Air □ Food □ Soil □ Water □ Swab □ Other □ Air: □ Micro 5 □ Air-O- Cell □ Cyclex-D □ Biotest □ Plate □ Swab: □ Sponge □ Cotton Tip □ Tape Lift □ Other □	■ Satisfactory _____ Temp °C □ Unsatisfactory Rejected Reason Demolition

FIELD SAMPLE #	DATE	TIME	SAMPLE LOCATION/DESCRIPTION:	PARAMETER	ATOKA LABORATORY ID #
001966 Tr 126X #11	12/7/2011		Area "O" Wall	ASBESTOS	AL-1209-60
001966 Tr 126X #12	"		Area "P" Wall	"	61
001966 Tr 126X #13	"		Area "A" Ceiling	"	62
001966 Tr 126X #14	"		Area "K" Ceiling	"	63
001966 Tr 126X #15	"		Area "A" Wall	"	64
001966 Tr 126X #16	"		Area "K" Wall	"	65
001966 Tr 126X #17	"		Area "Q" Ceiling	"	66
001966 Tr 126X #18	"		Area "Q" Ceiling	"	67
001966 Tr 126X #19	"		Area "Q" Wall	"	68
001966 Tr 126X #20	"		Area "T" Wall	"	69

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
Robert Pooler PRINTED: Robert Pooler		PRINTED:			

RECEIVED BY:	DATE/TIME	RECEIVED BY LABORATORY:	DATE/TIME	SPECIAL INSTRUCTIONS
PRINTED:		MTV PRINTED: CA Labs	12/12/11 10AM	(5-Day) Turn-around

CAL1112774l

I-30, Bldg. 1, Ste 119
Little Rock, AR 72209

ATOKA, INC

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Office: 501-455-1700
Fax: 501-455-1864

PROJECT NO.	CLIENT/OWNER		SAMPLE LOCATIONS	
001966 Tract 126X Page 3 06' 026	Name	AHTD, Property Management Attn: Robert Pooler or Joel Clark	Name	Split Level Dwelling
	Address City, State, ZIP	P. O. Box 2261, ROOM 705 LITTLE ROCK, AR 72203-2261	Address	916 Spring Creek Road
	Phone #	501-569-2317, (2318) FAX 501-569-2018	City, State, ZIP	Lowell , AR 72745

SAMPLERS SIGNATURE	SAMPLE TYPE	Sample Condition:
Robert Pooler PRINTED Robert Pooler 014597	Bulk ■ Air ☐ Food ☐ Soil ☐ Water ☐ Swab ☐ Other ☐ Air: ☐ Micro 5 ☐ Air-O- Cell ☐ Cyclex-D ☐ Biotest ☐ Plate ☐ Swab: ☐ Sponge ☐ Cotton Tip ☐ Tape Lift ☐ Other ☐	■ Satisfactory _____ Temp °C ☐ Unsatisfactory Rejected Reason Demolition

FIELD SAMPLE #	DATE	TIME	SAMPLE LOCATION/DESCRIPTION:	PARAMETER	ATOKA LABORATORY ID #
001966 Tr 126X #21	12/7/2011		Area "R" Floor	ASBESTOS	A11-1209-70
001966 Tr 126X #22	"		Area "R" Floor	"	" 71
	"			"	
	"			"	
	"			"	
	"			"	
	"			"	
	"			"	
	"			"	
	"			"	
	"			"	

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
Robert Pooler PRINTED: Robert Pooler		PRINTED:			

RECEIVED BY:	DATE/TIME	RECEIVED BY LABORATORY:	DATE/TIME	SPECIAL INSTRUCTIONS
PRINTED:		MTV PRINTED: CA Labs	12/12/11 10AM	(5-Day) Turn-around

TR 126X DWELLING

TR 126X DWELLING

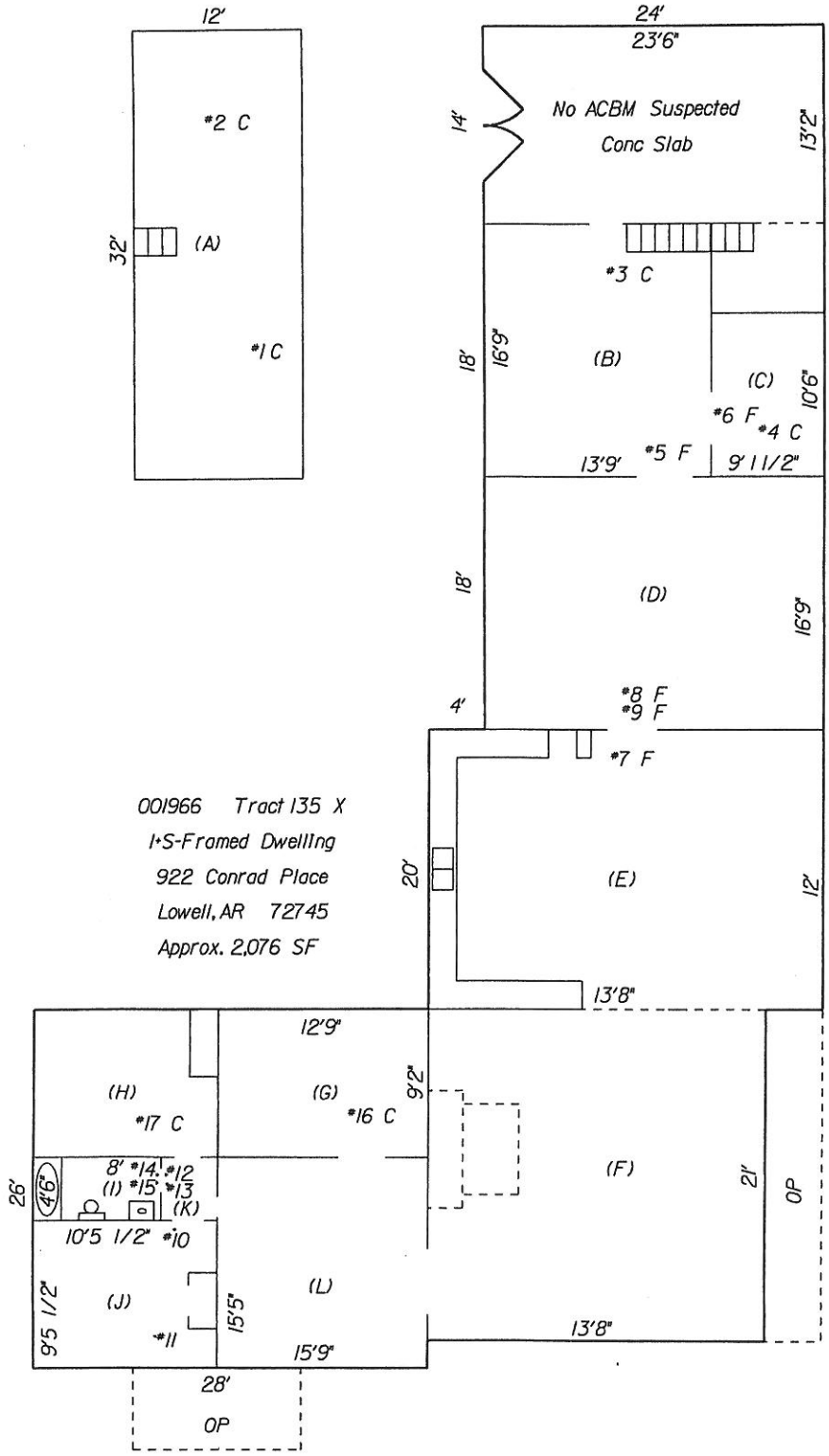
TR. 126X WELL HOUSE

TR126X SHOP/GARAGE, CHAIN LINK FENCE

JOB:	001966	PROPERTY LOCATION	INSPECTED BY
TRACT:	135 X	1-S-F Dwelling	Joel Clark (011518)
DATE:		922 Conrad Place	
		Lowell, AR 72745	

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1	Area 'A' Ceiling	#11	Area 'J' Flooring
#2	Area 'A' Ceiling	#12	Area 'K' Flooring
#3	Area 'B' Ceiling	#13	Area 'K' Flooring
#4	Area 'C' Ceiling	#14	Area 'I' Flooring
#5	Area 'B' Flooring	#15	Area 'I' Flooring
#6	Area 'C' Flooring	#16	Area 'G' Ceiling
#7	Area 'E' Flooring	#17	Area 'H' Ceiling
#8	Area 'D' Flooring	#18	
#9	Area 'D' Flooring	#19	
#10	Area 'J' Flooring	#20	

Homogenous Areas:	
Roofing	Asphalt Shingles
Siding	Aluminum/Wood
Ceilings (A) Sheet Rock)	(E, F) Wood; (B,C)1'X 2' Tile
(G, H) Stirifoam/Sheet Rock	(I-L Plastic Tiles/ Unfinished SR
Walls	Paneling/Wood
	Paneling/Unfinished Sheet Rock
Floors	(A,D,L) Laminated Wood/Wood
(B, C, E, I-L)Tile & Linoleum	(G, H) Carpet/Wood



ATOKA, INC.

Professional Engineering & Environmental Consulting Services

Member - Insurance Claims Support

ASBESTOS ANALYSIS SUMMARY

May 15, 2012
A12-0510-1-17

AHTD, Property Management
P.O. Box 2261, Room 705
Little Rock, AR 72203-2261

Attn: Robert Pooler / Joel Clark
Ph: 501-569-2317 (2318)
Fx: 501-569-2018

Test requested: Asbestos Identification and Quantification

Method: EPA/600/R-93/116 JULY, 1993

Sample description: Seventeen (17) PLM bulk samples submitted 05/10/12

Client Project Info: #001966 Tr. 135X; 1-S- F Dwelling; 922 Conrad Place, Lowell, AR

ATOKA#	Client Field #/Description	Asbestos
A12-0510-1	#001966 Tr. 135X1, Area "C" Ceiling	**None Detected**
	2nd layer, white compound (beneath tape)	**None Detected**
	3rd layer, white drywall with brown paper	**None Detected**
A12-0510-2	#001966 Tr. 135X2, Area "A" Ceiling	**None Detected**
	2nd layer, white drywall with brown paper	**None Detected**
A12-0510-3	#001966 Tr. 135X3, Area "B" Ceiling	**None Detected**
	2nd layer, tan ceiling tile	**None Detected**
A12-0510-4	#001966 Tr. 135X4, Area "C" Ceiling	**None Detected**
	2nd layer, tan ceiling tile	**None Detected**
A12-0510-5	#001966 Tr. 135X5, Area "B" Flooring	**None Detected**
	2nd layer, tan mastic	**None Detected**
A12-0510-6	#001966 Tr. 135X6, Area "C" Flooring	**None Detected**
	2nd layer, tan mastic	**None Detected**
A12-0510-7	#001966 Tr. 135X7, Area "E" Flooring	**None Detected**

ATOKA#	Client Field #/Description	Asbestos
	2nd layer, white foam padding	None Detected
A12-0510-8	#001966 Tr. 135X8, Area "D" Flooring	None Detected
	2nd layer, clear mastic	None Detected
	3rd layer, brown self-adhesive floor tile	None Detected
	4th layer, clear mastic	None Detected
A12-0510-9	#001966 Tr. 135X9, Area "D" Flooring	25% Chrysotile
A12-0510-10	#001966 Tr. 135X10, Area "J" Flooring	None Detected
	2nd layer, tan mastic	None Detected
A12-0510-11	#001966 Tr. 135X11, Area "J" Flooring	None Detected
	2nd layer, tan mastic	None Detected
A12-0510-12	#001966 Tr. 135X12, Area "K" Flooring	None Detected
	2nd layer, clear mastic	None Detected
A12-0510-13	#001966 Tr. 135X13, Area "K" Flooring	None Detected
	2nd layer, clear mastic	None Detected
A12-0510-14	#001966 Tr. 135X14, Area "I" Flooring	None Detected
	2nd layer, tan mastic	None Detected
A12-0510-15	#001966 Tr. 135X15, Area "I" Flooring	None Detected
	2nd layer, tan mastic	None Detected
A12-0510-16	#001966 Tr. 135X16, Area "G" Ceiling	3% Chrysotile
	2nd layer, white drywall with brown paper	None Detected
A12-0510-17	#001966 Tr. 135X17, Area "H" Ceiling	3% Chrysotile
	2nd layer, white drywall with brown paper	None Detected

Cliff W. McBryde, ATOKA, Inc.

NIST / NVLAP laboratory #200349-0 issued to Crisp Analytical, LLC and contracted by ATOKA, Inc.
Note: All percentages are visual estimations based on field area determination. All sample reflect the content of samples as received. Any association with sample locations is by inference only.

CAL12053380

1 of 2

I-30, Bldg. 1, Ste 119
Little Rock, AR 72209

ATOKA, INC

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Office: 501-455-1700
Fax: 501-455-1864

PROJECT NO.	CLIENT/OWNER		SAMPLE LOCATIONS	
0019966 Tract 135 X	Name	AHTD, Property Management Attn: Robert Pooler or Joel Clark	Name	1-S-F Dwelling
	Address Phone #	P. O. Box 2261, ROOM 705 501-569-2317, (2318) FAX 501-569-2018	Address	922 Conrad Place
	City, State, ZIP	LITTLE ROCK, AR 72203-2261	City, State, ZIP	Lowell, AR 72245

SAMPLERS SIGNATURE: Joel Clark

PRINTED: Joel Clark

SAMPLE TYPE

Bulk ■ Air Food Soil Water Swab Other

Air: Micro 5 Air-O-Cell Cyclex-D Biotest Plate

Swab: Sponge Cotton Tip Tape Lift Other

Sample Condition:

■ Satisfactory _____ Temp °C

Unsatisfactory

Rejected Reason Demolition

FIELD SAMPLE #	DATE	TIME	SAMPLE LOCATION/DESCRIPTION:	PARAMETER	ATOKA LABORATORY ID #
001966 Tr. 135X #1	4/9/11		Area 'C' Ceiling	ASBESTOS	A12-0510-1
001966 Tr. 135X #2	4/9/11		Area 'A' Ceiling	"	" 3
001966 Tr. 135X #3	4/9/11		Area 'B' Ceiling	"	3
001966 Tr. 135X #4	4/9/11		Area 'C' Ceiling	"	4
001966 Tr. 135X #5	4/9/11		Area 'B' Floorig	"	" 5
001966 Tr. 135X #6	4/9/11		Area 'C' Flooring	"	6
001966 Tr. 135X #7	4/9/11		Area 'E' Flooring	"	7
001966 Tr. 135X #8	4/9/11		Area 'D' Flooring	"	" 8
001966 Tr. 135X #9	4/9/11		Area 'D' Flooring	"	9
001966 Tr. 135X #10	4/9/11		Area 'J' Flooring	"	" 10

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
Joel Clark PRINTED: Joel Clark	5-10-12 9:35	[signature] PRINTED: Lisa Holeman	5-10-12 9:35		
RECEIVED BY:	**DATE/TIME**	**RECEIVED BY LABORATORY:**	**DATE/TIME**	**SPECIAL INSTRUCTIONS**	
PRINTED:		JC PRINTED: CA LABS	5/11/12 4:30 pm	(24 Hour) Turn-around	

CAL12053380 2 of 2

I-30, Bldg. 1, Ste 119
Little Rock, AR 72209

ATOKA, INC

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Office: 501-455-1700
Fax: 501-455-1864

PROJECT NO.	CLIENT/OWNER		SAMPLE LOCATIONS	
0019966 Tract 135 X	Name	AHTD, Property Management Attn: Robert Pooler or Joel Clark	Name	1-S-F Dwelling
	Address Phone #	P. O. Box 2261, ROOM 705 501-569-2317, (2318) FAX 501-569-2018	Address	922 Conrad Place
	City, State, ZIP	LITTLE ROCK, AR 72203-2261	City, State, ZIP	Lowell, AR 72245

SAMPLERS SIGNATURE	SAMPLE TYPE	Sample Condition:
Joel Clark	Bulk ■ Air Food Soil Water Swab Other	■ Satisfactory _____ Temp °C
PRINTED Joel Clark	Air: Micro 5 Air-O- Cell Cyclex-D Biotest Plate	Unsatisfactory
	Swab: Sponge Cotton Tip Tape Lift Other	Rejected Reason Demolition

FIELD SAMPLE #	DATE	TIME	SAMPLE LOCATION/DESCRIPTION:	PARAMETER	ATOKA LABORATORY ID #
001966 Tr. 135X #11	4/9/11		Area 'I' Flooringt	ASBESTOS	A12-0510-11
001966 Tr. 135X #12	4/9/11		Area 'K' Flooring	"	" 12
001966 Tr. 135X #13	4/9/11		Area 'K' Flooring	"	13
001966 Tr. 135X #14	4/9/11		Area 'I' Flooring	"	" 14
001966 Tr. 135X #15	4/9/11		Area 'I' Flooring	"	15
001966 Tr. 135X #16	4/9/11		Area 'G' Ceiling	"	" 16
001966 Tr. 135X #17	4/9/11		Area 'H' Ceiling	"	17

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
Joel Clark PRINTED: Joel Clark	5-10-12 9:35	PRINTED: Lisa Holeman	5-10-12 9:35		

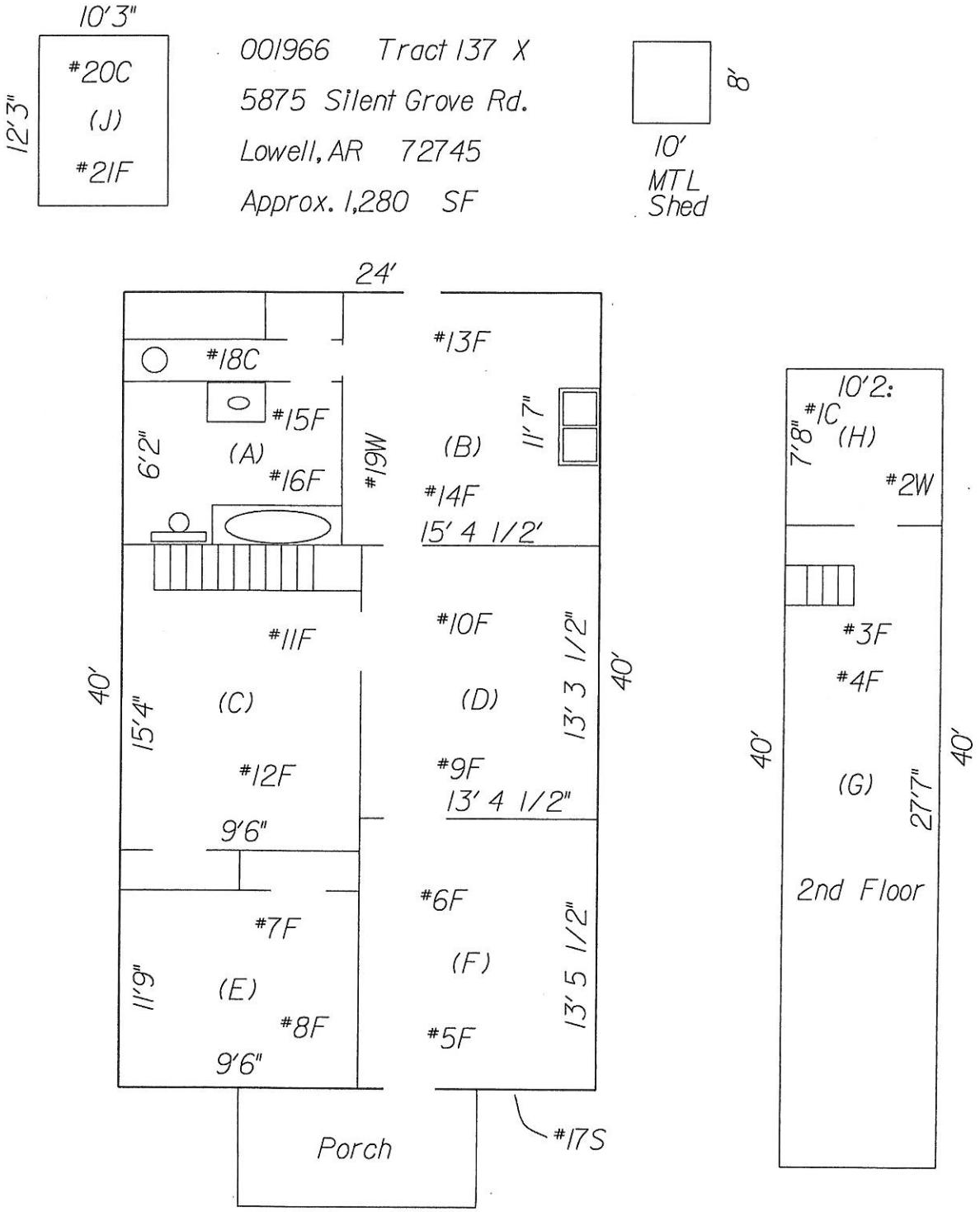
RECEIVED BY:	DATE/TIME	RECEIVED BY LABORATORY:	DATE/TIME	SPECIAL INSTRUCTIONS
PRINTED:		PRINTED:		(24 Hour) Turn-around

INSPECTION FLOOR PLAN

JOB:	001966	PROPERTY LOCATION	INSPECTED BY
TRACT:	137 X 1ST & 2nd Floors	2-S-F Dwelling	Joel Clark (011518)
DATE:	8/22/2012	5875 Silent Grove Road	Robert Pooler (014597
		Lowell, AR 72745	

Sample Number	Description/ Location	Sample Number	Description/ Location
#1	Area (H) Ceiling	#11	Area (C) Floor
#2	Area (H) Wall	#12	Area (C) Floor
#3	Area (G) Floor	#13	Area (B) Floor
#4	Area (G) Floor	#14	Area (B) Floor
#5	Area (F) Floor	#15	Area (A) Floor
#6	Area (F) Floor	#16	Area (A) Floor
#7	Area (E) Floor	#17	Area (I) Siding
#8	Area (E) Floor	#18	Area (B) Ceiling
#9	Area (D) Floor	#19	Area (B) Wall
#10	Area (D) Floor	#20	Area (J) Ceiling
		#21	Area (J) Floor

Homogenous Areas:		
Roofing		Comp. Shingle
Siding		Comp. Shingle
Ceilings	A, B, H	Sheet Rock
	G	Foam & Fiber Board
Walls	A, B, H	Sheet Rock
	G	Foam
Floors	H	Carpet/Wood
	G	Linoleum



CA Labs

Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 12086904
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address: (if different)	
phone number:	501-569-2317 or 2318	P.O. # :	001966
fax number:		Project Name:	Tract 137X 5875 Silent Grove Rd.
Send Reports to:	Robert.Pooler@arkansashighways.com Joeld.Clark@arkansashighways.com	Project Number:	001966 Springdale Bypass

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix:
21	21	Air / Bulk / Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
Circle analysis and TA time		*Circle analysis and TA time*	*2 hour*	PCM: NIOSH 7400	Note TAT
AHERA	*4 hour*	Improved	4 hour	**Allergen Particle:**	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
001966 Tr. 137X #1	Area "H" Ceiling	8/22/2012	
001966 Tr. 137X #2	Area "H" Wall	8/22/2012	
001966 Tr. 137X #3	Area "G" Floor	8/22/2012	
001966 Tr. 137X #4	Area "G" Floor	8/22/2012	
001966 Tr. 137X #5	Area "F" Floor	8/22/2012	
001966 Tr. 137X #6	Area "F" Floor	8/22/2012	
001966 Tr. 137X #7	Area "E" Floor	8/22/2012	

Custody Information:

Samples relinquished: Robert Pooler 5:30 PM 8/23/12
Signature / Date / Time

Samples received: MJV 8/24/12 10AM
Signature / Date / Time

CA Labs

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Carrollton, TX 75006

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Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Samples relinquished: _____ Signature / Date / Time

Samples received: _____ Signature / Date / Time

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
001966 Tr. 137X #8	Area "E" Floor	8/22/2012	
001966 Tr. 137X #9	Area "D" Floor	8/22/2012	
001966 Tr. 137X #10	Area "D" Floor	8/22/2012	
001966 Tr. 137X #11	Area "C" Floor	8/22/2012	
001966 Tr. 137X #12	Area "C" Floor	8/22/2012	
001966 Tr. 137X #13	Area "B" Floor	8/22/2012	
001966 Tr. 137X #14	Area "B" Floor	8/22/2012	
001966 Tr. 137X #15	Area "A" Floor	8/22/2012	
001966 Tr. 137X #16	Area "A" Floor	8/22/2012	
001966 Tr. 137X #17	Area "I" Siding	8/22/2012	
001966 Tr. 137X #18	Area "B" Ceiling	8/22/2012	
001966 Tr. 137X #19	Area "B" Wall	8/22/2012	
001966 Tr. 137X #20	Area "J" Ceiling	8/22/2012	
001966 Tr. 137X #21	Area "J" Floor	8/22/2012	

Custody Information:

Samples relinquished: [illegible] 8:30 AM 8/23/12
Signature / Date / Time

Samples received: MN 8/24/12 10AM
Signature / Date / Time

Samples relinquished: _____ Signature / Date / Time

Samples received: _____ Signature / Date / Time

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966 Tract 137X 5875 Silent Grove Rd., Springdale Bypass

Turnaround Time:
2 days

CA Labs Project #:
CAL12086904MV

Date: 8/28/2012
Samples Received: 8/24/12 10am
Date Of Sampling: 8/22/2012
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966 Tr. 137X #1		1-1	***Area "H" Ceiling/*** *tan compound (beneath tape)*	y	***3% Chrysotile***		97% mi,ca
001966 Tr. 137X #2		2-1	***Area "H" Wall/*** *tan compound (beneath tape)*	y	***3% Chrysotile***		97% mi,ca
001966 Tr. 137X #3		3-1	***Area "G" Floor/*** *tan linoleum with black backing*	y	***None Detected***	29% ce	71% bi
001966 Tr. 137X #4		4-1	***Area "G" Floor/*** *green linoleum with black backing*	y	***None Detected***	25% ce	75% bi
001966 Tr. 137X #5		5-1	***Area "F" Floor/*** *yellow linoleum with black backing*	y	***None Detected***	27% ce	73% bi
001966 Tr. 137X #6		6-1	***Area "F" Floor/*** *brown linoleum with black backing*	y	***None Detected***	28% ce	72% bi
001966 Tr. 137X #7		7-1	***Area "E" Floor/*** *brown linoleum with black backing*	y	***None Detected***	25% ce	75% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

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1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966 Tract 137X 5875 Silent Grove Rd., Springdale Bypass
Turnaround Time:
2 days

CA Labs Project #:
CAL12086904MV

Date: 8/28/2012
Samples Received: 8/24/12 10am
Date Of Sampling: 8/22/2012
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966 Tr. 137X #8		8-1	***Area "E" Floor/*** *brown linoleum with black backing*	y	***None Detected***	27% ce	73% bi
001966 Tr. 137X #9		9-1	***Area "D" Floor/*** *green linoleum with black backing*	y	***None Detected***	31% ce	69% bi
001966 Tr. 137X #10		10-1	***Area "D" Floor/*** *green linoleum with black backing*	y	***None Detected***	28% ce	72% bi
001966 Tr. 137X #11		11-1	***Area "C" Floor/*** *brown linoleum with black backing*	y	***None Detected***	26% ce	74% bi
001966 Tr. 137X #12		12-1	***Area "C" Floor/*** *brown linoleum with black backing*	y	***None Detected***	28% ce	72% bi
001966 Tr. 137X #13		13-1	***Area "B" Floor/*** *tan linoleum with brown backing*	y	***None Detected***	24% ce	76% bi
		13-2	*tan mastic*	y	***None Detected***		100% mi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

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CA Labs, L.L.C.
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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966 Tract 137X 5875 Silent Grove Rd., Springdale Bypass
Turnaround Time:
2 days

CA Labs Project #:
CAL12086904MV

Date: 8/28/2012
Samples Received: 8/24/12 10am
Date Of Sampling: 8/22/2012
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966 Tr. 137X #14		14-1	***Area "B" Floor/*** *tan linoleum with brown backing*	*y*	***None Detected***	26% ce	74% bi
		14-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
001966 Tr. 137X #15		15-1	***Area "A" Floor/*** *tan linoleum*	*y*	***26% Chrysotile***		74% bi
	4	15-2	*tan mastic*				
001966 Tr. 137X #16		16-1	***Area "A" Floor/*** *tan linoleum*	*y*	***27% Chrysotile***		73% bi
	4	16-2	*tan mastic*				
001966 Tr. 137X #17		17-1	***Area "I" Siding/*** *black shingle with green and white gravel*	*y*	***None Detected***	23% ce	77% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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Baton Rouge, LA 70809
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Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966 Tract 137X 5875 Silent Grove Rd., Springdale Bypass
Turnaround Time:
2 days

CA Labs Project #:
CAL12086904MV

Date: 8/28/2012
Samples Received: 8/24/12 10am
Date Of Sampling: 8/22/2012
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		17-2	*brown fiber board*	*y*	***None Detected***	100% ce	
		17-3	*black felt*	*y*	***None Detected***	100% ce	
001966 Tr. 137X #18		*18-1*	***Area "B" Ceiling/*** *tan surfaced tan compound*	*n*	***3% Chrysotile***		97% mi,bi,ca
		18-2	*white drywall with brown paper*	*n*	***None Detected***	24% ce	76% qu,gy
001966 Tr. 137X #19		*19-1*	***Area "B" Wall/*** *tan surfaced white compound*	*n*	***2% Chrysotile***		98% mi,bi,ca
		19-2	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
001966 Tr. 137X #20		*20-1*	***Area "J" Ceiling/*** *brown fiber board*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966 Tract 137X 5875 Silent Grove Rd., Springdale Bypass
Turnaround Time:
2 days

CA Labs Project #:
CAL12086904MV

Date: 8/28/2012
Samples Received: 8/24/12 10am
Date Of Sampling: 8/22/2012
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966 Tr. 137X #21		21-1	***Area "J" Floor/*** *tan linoleum with black backing*	*y*	***None Detected***	27% ce	73% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

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Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler
Customer Project: 001966 Tract 137X 5875 Silent Grove Rd., Springdal
Reference #: CAL12086904MV Date: 8/28/2012

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 001966 Tract 137X 5875 Silent Grove Rd., Springdal **CA Labs Project #:** CAL12086904MV

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
001966 Tr. 137X #1	1-1	***Area "H" Ceiling/*** *tan compound (beneath tape)*	***3% Chrysotile***	***tan compound (beneath tape)*** ***tan linoleum*** ***tan surfaced tan compound*** ***tan surfaced white compound***
001966 Tr. 137X #2	2-1	***Area "H" Wall/*** *tan compound (beneath tape)*	***3% Chrysotile***	
001966 Tr. 137X #15	15-1	***Area "A" Floor/*** *tan linoleum*	***26% Chrysotile***	
001966 Tr. 137X #16	16-1	***Area "A" Floor/*** *tan linoleum*	***27% Chrysotile***	
001966 Tr. 137X #18	18-1	***Area "B" Ceiling/*** *tan surfaced tan compound*	***3% Chrysotile***	
001966 Tr. 137X #19	19-1	***Area "B" Wall/*** *tan surfaced white compound*	***2% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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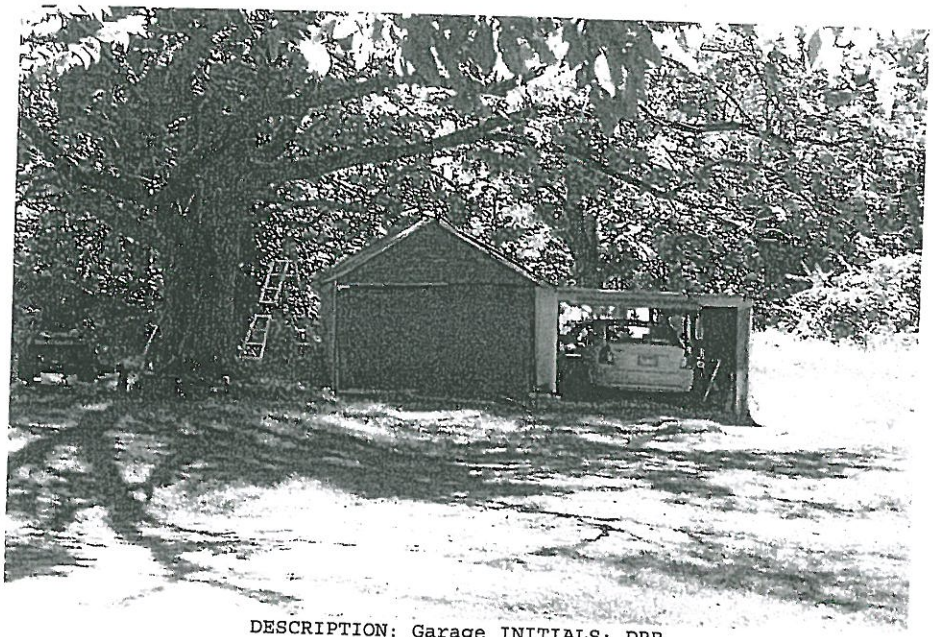
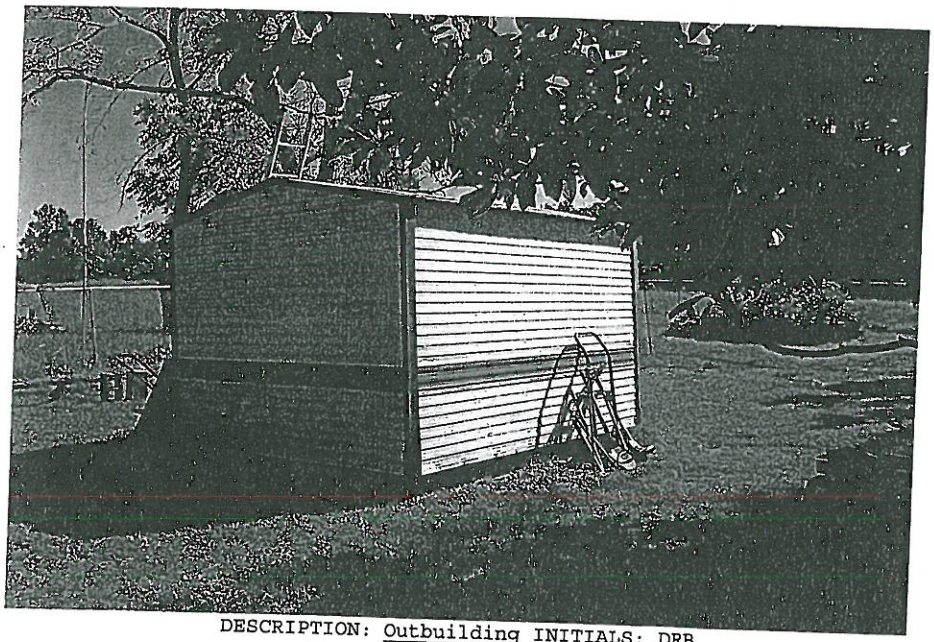
5875 SILENT GROVE ROAD



DESCRIPTION: Garage INITIALS: DRB
DIRECTION: South DATE: 10/6/10



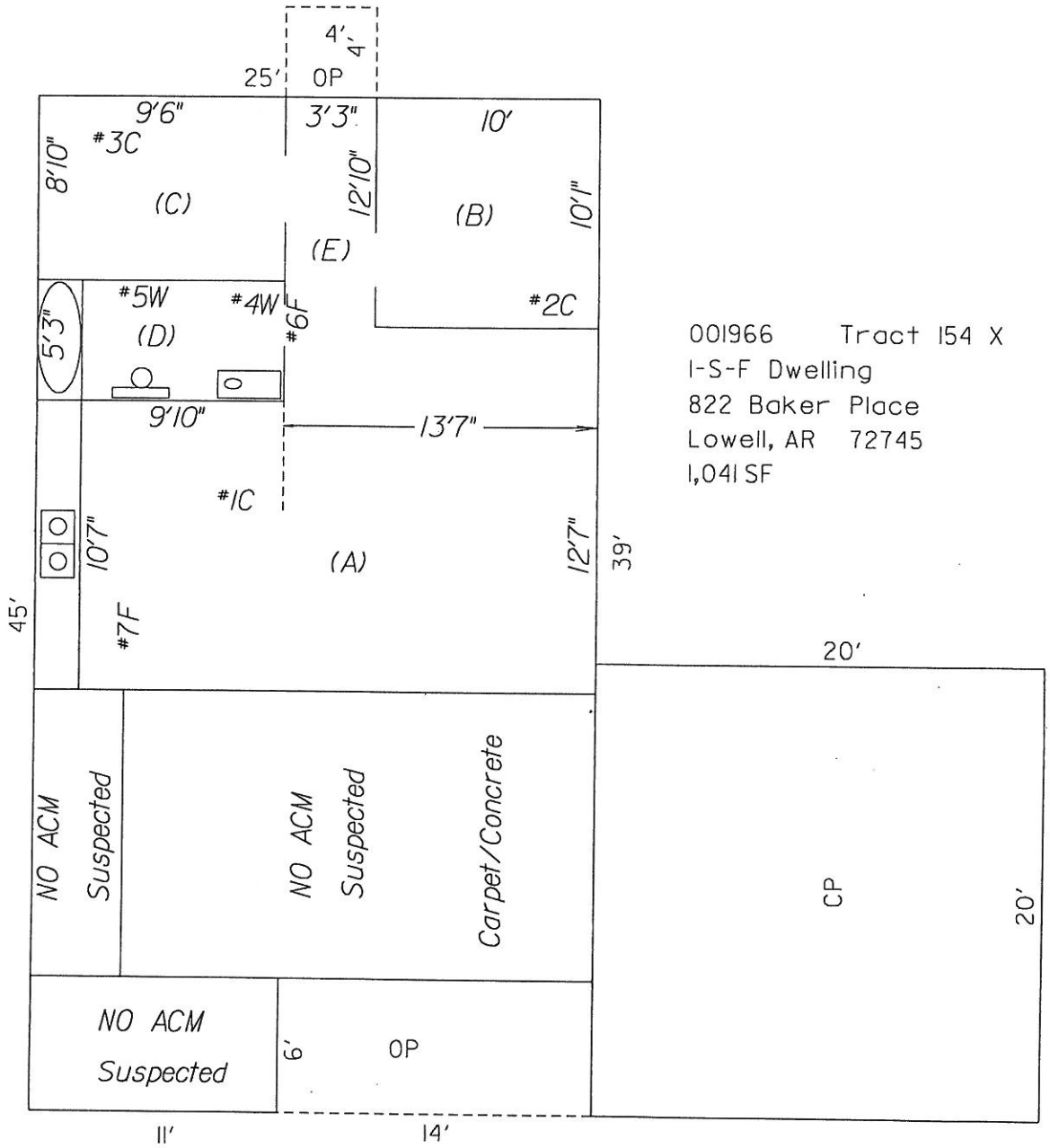
DESCRIPTION: Outbuilding INITIALS: DRB
DIRECTION: South DATE: 10/6/10

INSPECTION FLOOR PLAN

JOB:	001966	PROPERTY LOCATION	INSPECTED BY
TRACT:	154 X	1-S-F Dwelling	Robert Pooler (014597)
DATE:	12/7/11	822 Baker Place	
		Lowell, AR 72745	

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1	A) Ceiling	#11	
#2	B) Ceiling	#12	
#3	C) Ceiling	#13	
#4	D) Wall	#14	
#5	D) Wall	#15	
#6	D) Floor	#16	
#7	A) Floor	#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Asphalt Shingle
Siding	Vinyl over Wood
Ceilings (A, B, C, D, E)	Sheet Rock
Walls (ALL)	Wood Paneling on Studs
(D)	Sheet Rock
Floors (A, D, E)	Vinyl
(B, C)	Carpet over Wood



ATOKA, INC.

Professional Engineering & Environmental Consulting Services

Member - Insurance Claims Support

ASBESTOS ANALYSIS SUMMARY

December 21, 2011
A11-1209-72-78

AHTD, Property Management
P.O. Box 2261, Room 705
Little Rock, AR 72203-2261

Attn: Robert Pooler / Joel Clark
Ph: 501-569-2317 (2318)
Fx: 501-569-2018

Test requested: Asbestos Identification and Quantification

Method: EPA/600/R-93/116 JULY, 1993

Sample description: Seven (7) PLM bulk samples submitted 12/09/11

Client Project Info: #001966 Tr. 154X; 1-S-F Dwelling, 822 Baker Place, Lowell, AR

ATOKA#	Client Field #/Description	Asbestos
A11-1209-72	001966 Tr. 154X #1 Area "A" Ceiling	2% Chrysotile
	2nd layer, tan compound (beneath tape)	3% Chrysotile
	3rd layer, white drywall with brown paper	None Detected
A11-1209-73	001966 Tr. 154X #2 Area "B" Ceiling	2% Chrysotile
	2nd layer, tan compound (beneath tape)	2% Chrysotile
	3rd layer, white drywall with brown paper	None Detected
A11-1209-74	001966 Tr. 154X #3 Area "C" Ceiling	2% Chrysotile
	2nd layer, tan compound (beneath tape)	2% Chrysotile
	3rd layer, white drywall with brown paper	None Detected
A11-1209-75	001966 Tr. 154X #4 Area "D" Wall	2% Chrysotile
	2nd layer, tan compound (beneath tape)	2% Chrysotile
	3rd layer, white drywall with brown paper	None Detected
A11-1209-76	001966 Tr. 154X #5 Area "D" Wall	2% Chrysotile
	2nd layer, tan compound (beneath tape)	2% Chrysotile
	3rd layer, white drywall with brown paper	None Detected
A11-1209-77	001966 Tr. 154X #6 Area "D" Floor	None Detected
	2nd layer, tan mastic	None Detected

ATOKA#	Client Field #/Description	Asbestos
A11-1209-78	001966 Tr. 154X #7 Area "A" Floor	None Detected
	2nd layer, tan mastic	None Detected

Cliff W. McBryde, ATOKA, Inc.

NIST / NVLAP laboratory #200349-0 issued to Crisp Analytical, LLC and contracted by ATOKA, Inc.
Note: All percentages are visual estimations based on field area determination. All sample reflect the content of samples as received.
Any association with sample locations is by inference only.

CAL1112-T137

1-30, Bldg. 1, Ste 119
Little Rock, AR 72209

ATOKA, INC

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Office: 501-455-1700
Fax: 501-455-1864

PROJECT NO.	CLIENT/OWNER		SAMPLE LOCATIONS	
001966 Tract 154X 06·026	Name	AHTD, Property Management Attn: Robert Pooler or Joel Clark	Name	1-S-F Dwelling
	Address City, State, ZIP	P. O. Box 2261, ROOM 705 LITTLE ROCK, AR 72203-2261	Address	822 Baker Place
	Phone #	501-569-2317, (2318) FAX 501-569-2018	City, State, ZIP	Lowell , AR 72745

SAMPLERS SIGNATURE	SAMPLE TYPE	Sample Condition:
Robert Pooler PRINTED Robert Pooler 014597	Bulk ■ Air ☐ Food ☐ Soil ☐ Water ☐ Swab ☐ Other ☐ Air: ☐ Micro 5 ☐ Air-O-Cell ☐ Cyclex-D ☐ Biotest ☐ Plate ☐ Swab: ☐ Sponge ☐ Cotton Tip ☐ Tape Lift ☐ Other ☐	■ Satisfactory _____ Temp °C ☐ Unsatisfactory Rejected Reason Demolition

FIELD SAMPLE #	DATE	TIME	SAMPLE LOCATION/DESCRIPTION:	PARAMETER	ATOKA LABORATORY ID #
001966 Tr 154X #1	12/7/2011		Area "A" Ceiling	ASBESTOS	All-1209-72
001966 Tr 154X #2	"		Area "B" Ceiling	"	" 73
001966 Tr 154X #3	"		Area "C" Ceiling	"	" 74
001966 Tr 154X #4	"		Area "D" Wall	"	75
001966 Tr 154X #5	"		Area "D" Wall	"	" 76
001966 Tr 154X #6	"		Area "D" Floor	"	77
001966 Tr 154X #7	"		Area "A" Floor	"	" 78
	"			"	
	"			"	
	"			"	

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
Robert Pooler PRINTED: Robert Pooler		[signature] PRINTED: Lisa Holeman	12·9·11 9:55		

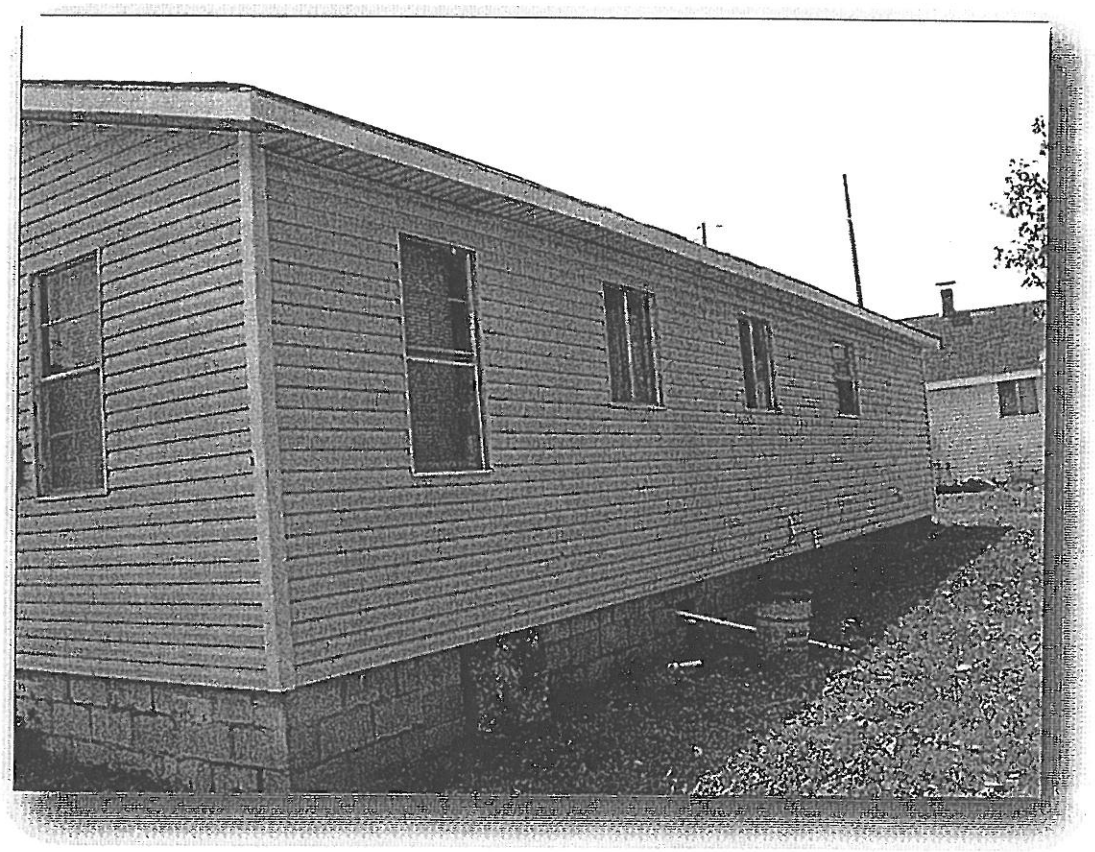
RECEIVED BY:	DATE/TIME	RECEIVED BY LABORATORY:	DATE/TIME	SPECIAL INSTRUCTIONS
PRINTED:		MTV PRINTED: CA Labs	12/12/11 10AM	(5-Day) Turn-around

Photographs

DESCRIPTION: Whole Property & INITIALS: GLD
DATE: 08/24/2010

822 BAKER PLACE

DESCRIPTION: Front of Dwelling INITIALS: GLD
DATE: 08/24/2010



DESCRIPTION: Rear of Dwelling INITIALS: GLD
DATE: 08/24/2010

822 BAKER PLACE

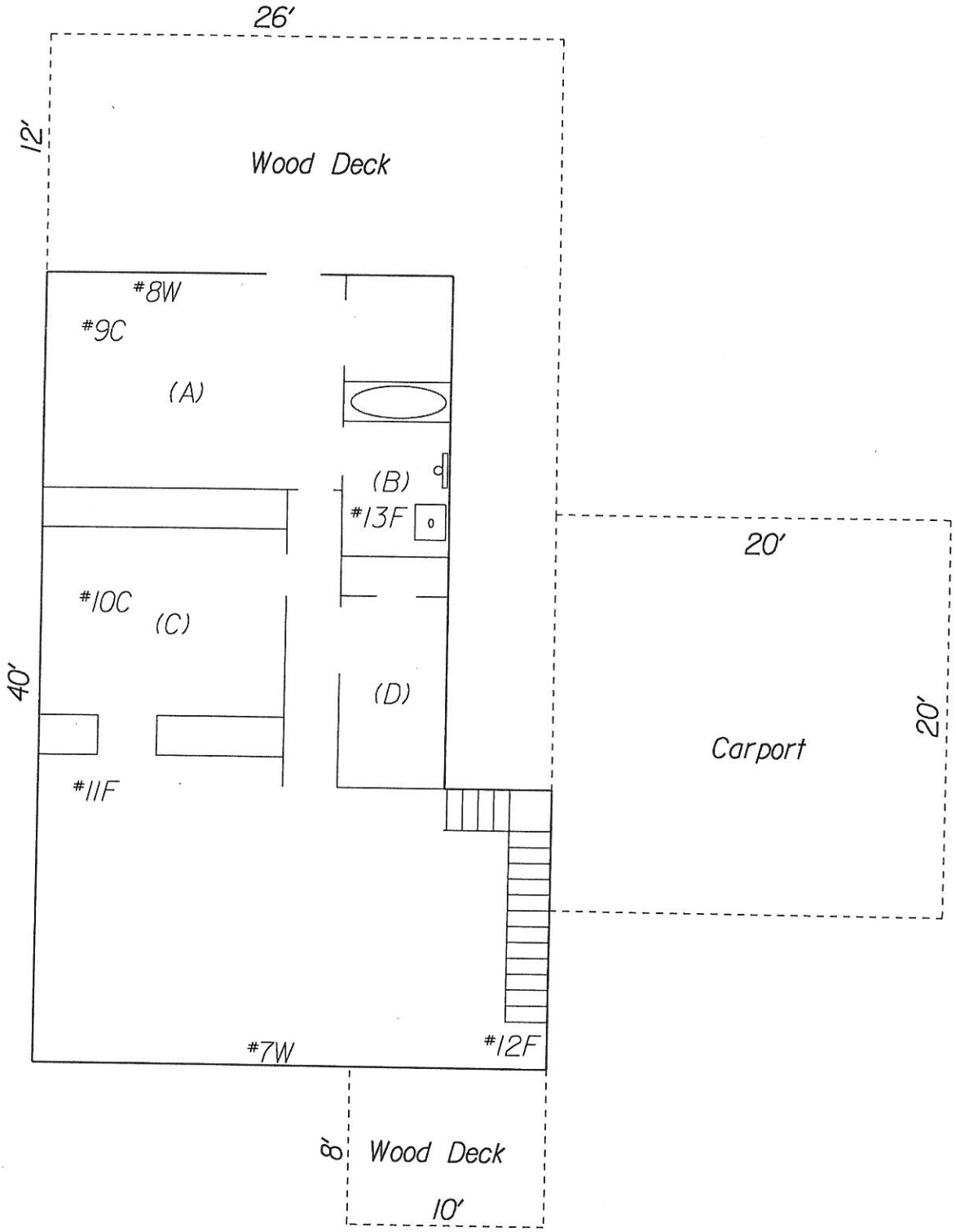
Job: 001966 Tract: 154X

INSPECTION FLOOR PLAN

JOB:	001966	PROPERTY LOCATION	INSPECTED BY
TRACT:	160 X	1-S-B & F Dwelling (Ground Floor)	Joel Clark (011518)
DATE:	8/21/12	720 Goad Springs Road	Robert Pooler (014597)
		Lowell, AR 72745	

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1		#11	Area (C) Floor
#2		#12	Area (C) Floor
#3		#13	Area (B) Floor
#4		#14	
#5		#15	
#6		#16	
#7	Area (C) Wall	#17	
#8	Area (A) Wall	#18	
#9	Area (A) Ceiling	#19	
#10	Area (C) Ceiling	#20	

Homogenous Areas:	
Roofing	Comp. Shingle
Siding	Vinyl
Ceilings A,B, C, D	Textured Sheet Rock
Walls A, B, C, D	Sheet Rock
Floors	Vinyl Tile

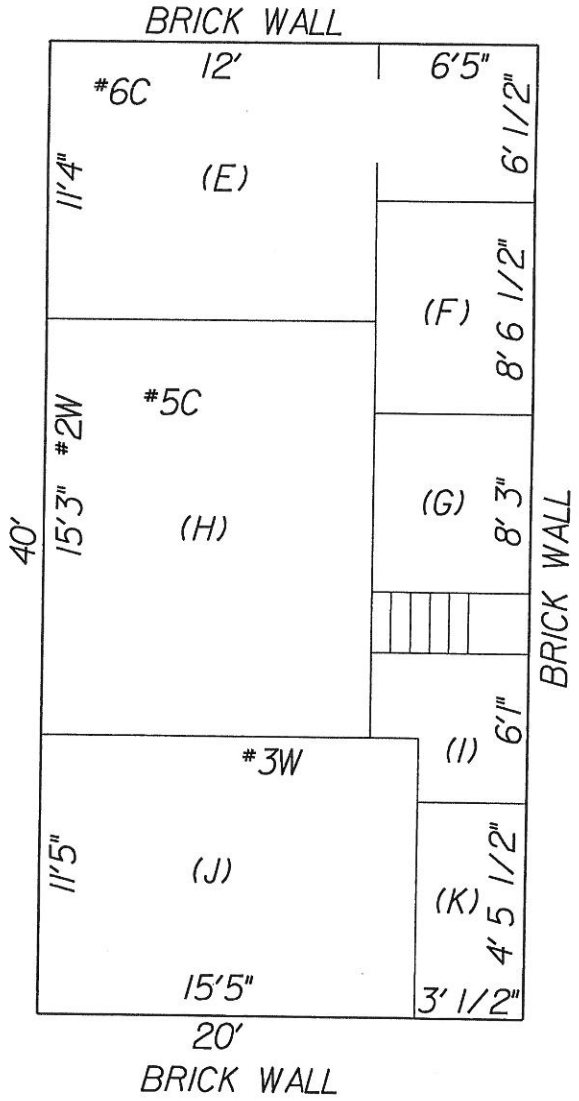


INSPECTION FLOOR PLAN

JOB:	001966	PROPERTY LOCATION	INSPECTED BY
TRACT:	160 X	Basement	Joel Clark (011518)
DATE:	8/21/12	720 Goad Springs Road	Robert Pooler (014597)
		Lowell, AR 72745	

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1	Area (E) Wall	#11	
#2	Area (H) Wall	#12	
#3	Area (J) Wall	#13	
#4	Area (J) Ceiling	#14	
#5	Area (H) Ceiling	#15	
#6	Area (E) Ceiling	#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	
Siding	
Ceilings E – K	Textured Sheet Rock
Walls E - K	Sheet Rock
Floors	Not Suspect



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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 001966 Tract 160X 720 Goad Springs Rd., Springdal **CA Labs Project #:** CAL12086906MV

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other

pe - perlite
qu - quartz

fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)

pa - palygorskite (clay)

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966 Tract 160X 720 Goad Springs Rd., Springdale Bypass

Turnaround Time:
2 days

CA Labs Project #:
CAL12086906MV

Date: 8/28/2012
Samples Received: 8/24/12 10am
Date Of Sampling: 8/23/2012
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966 Tr. 160X #1		1-1	***Area "E" Wall/*** *white surfaced white compound*	n	***None Detected***		100% mi,bi,ca
		1-2	*white compound (beneath tape)*	y	***None Detected***		100% mi,ca
		1-3	*white drywall with brown paper*	n	***None Detected***	18% ce 1% fg	81% qu,gy
001966 Tr. 160X #2		2-1	***Area "H" Wall/*** *white compound*	y	***None Detected***		100% mi,bi,ca
		2-2	*white drywall with brown paper*	n	***None Detected***	20% ce 1% fg	79% qu,gy
001966 Tr. 160X #3		3-1	***Area "J" Wall/*** *white surfaced white compound*	n	***None Detected***		100% mi,bi,ca
		3-2	*white compound (beneath tape)*	y	***None Detected***		100% mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chad Lytle
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966 Tract 160X 720 Goad Springs Rd., Springdale Bypass

Turnaround Time:
2 days

CA Labs Project #:
CAL12086906MV

Date: 8/28/2012
Samples Received: 8/24/12 10am
Date Of Sampling: 8/23/2012
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-3	*white drywall with brown paper*	*n*	***None Detected***	22% ce 1% fg	77% qu,gy
001966 Tr. 160X #4		*4-1*	***Area "J" Ceiling/*** *white textured surfacing*	*n*	***None Detected***	2% sy	98% mi,bi,ca,ma
		4-2	*white compound (beneath tape)*	*y*	***None Detected***		100% mi,ca
		4-3	*white drywall with brown paper*	*n*	***None Detected***	23% ce 1% fg	76% qu,gy
001966 Tr. 160X #5		*5-1*	***Area "H" Ceiling/*** *white textured surfacing*	*n*	***None Detected***	1% sy	99% mi,bi,ca,ma
		5-2	*white compound (beneath tape)*	*y*	***None Detected***		100% mi,ca
		5-3	*white drywall with brown paper*	*n*	***None Detected***	18% ce 1% fg	81% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chad Lytle
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966 Tract 160X 720 Goad Springs Rd., Springdale Bypass

Turnaround Time:
2 days

CA Labs Project #:
CAL12086906MV

Date: 8/28/2012
Samples Received: 8/24/12 10am
Date Of Sampling: 8/23/2012
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
001966 Tr. 160X #6		6-1	***Area "E" Ceiling/*** *white textured surfacing*	*n*	***None Detected***	2% sy	98% mi,bi,ca,ma
		6-2	*white compound (beneath tape)*	*y*	***None Detected***		100% mi,ca
		6-3	*white drywall with brown paper*	*n*	***None Detected***	23% ce 1% fg	76% qu,gy
001966 Tr. 160X #7		7-1	***Area "C" Wall/*** *white surfaced white compound*	*n*	***None Detected***		100% mi,bi,ca
		7-2	*white compound (beneath tape)*	*y*	***None Detected***		100% mi,ca
		7-3	*white drywall with brown paper*	*n*	***None Detected***	21% ce 1% fg	78% qu,gy
001966 Tr. 160X #8		8-1	***Area "A" Wall/*** *white surfaced white compound*	*n*	***None Detected***		100% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chad Lytle
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966 Tract 160X 720 Goad Springs Rd., Springdale Bypass

Turnaround Time:
2 days

CA Labs Project #:
CAL12086906MV

Date: 8/28/2012
Samples Received: 8/24/12 10am
Date Of Sampling: 8/23/2012
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		8-2	*white compound (beneath tape)*	*y*	***None Detected***		100% mi,ca
		8-3	*white drywall with brown paper*	*n*	***None Detected***	22% ce 1% fg	77% qu,gy
001966 Tr. 160X #9		*9-1*	***Area "A" Ceiling****/ white textured surfacing*	*n*	***None Detected***		100% mi,bi,ca,ma
		9-2	*white compound (beneath tape)*	*y*	***None Detected***		100% mi,ca
		9-3	*white drywall with brown paper*	*n*	***None Detected***	23% ce 1% fg	76% qu,gy
001966 Tr. 160X #10		*10-1*	***Area "C" Ceiling****/ white textured surfacing*	*n*	***None Detected***		100% mi,bi,ca,ma
		10-2	*white compound (beneath tape)*	*y*	***None Detected***		100% mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chad Lytle
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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7. Contamination suspected from other building materials
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9. < 1% Result point counted positive
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Phone 225-751-5632
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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Phone # 501-569-2317
Fax # 501-569-2018

Customer Project:
001966 Tract 160X 720 Goad Springs Rd., Springdale Bypass

Turnaround Time:
2 days

CA Labs Project #:
CAL12086906MV

Date: 8/28/2012
Samples Received: 8/24/12 10am
Date Of Sampling: 8/23/2012
Purchase Order #: 001966

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		10-3	*white drywall with brown paper*	*n*	***None Detected***	22% ce 1% fg	77% qu,gy
001966 Tr. 160X #11		*11-1*	***Area "C" Floor/*** *white streaked floor tile*	*y*	***None Detected***		100% qu,ca
		11-2	*tan mastic*	*y*	***None Detected***		100% gy,bi
001966 Tr. 160X #12		*12-1*	***Area "C" Floor/*** *brown streaked floor tile*	*y*	***None Detected***		100% qu,ca
		12-2	*tan mastic*	*y*	***None Detected***		100% gy,bi
001966 Tr. 160X #13		*13-1*	***Area "B" Floor/*** *blue streaked floor tile*	*y*	***None Detected***		100% qu,ca
		13-2	*tan mastic*	*y*	***None Detected***		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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Analyst

QAC
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Technical Manager
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Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler
Customer Project: 001966 Tract 160X 720 Goad Springs Rd., Springdal
Reference #: CAL12086906MV Date: 8/28/2012

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs

Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 12086906
Client Address:	P.O. Box 2261	Billing Address:	
	Room #705	(if different)	
	Little Rock, AR 72203-2261		
phone number:	501-569-2317 or 2318	P.O. # :	001966
fax number:		Project Name:	Tract 160X 720 Goad Springs Rd.
Send Reports to:	Robert.Pooler@arkansashighways.com Jocld.Clark@arkansashighways.com	Project Number:	001966 Springdale Bypass

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix:
13	13	Air / Bulk / Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
Circle analysis and TA time		*Circle analysis and TA time*	*2 hour*	PCM: NIOSH 7400	Note TAT
AHERA	*4 hour*	Improved	4 hour	**Allergen Particle:**	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
001966 Tr. 160X #1	Area "E" Wall	8/21/2012	
001966 Tr. 160X #2	Area "H" Wall	8/21/2012	
001966 Tr. 160X #3	Area "J" Wall	8/21/2012	
001966 Tr. 160X #4	Area "J" Ceiling	8/21/2012	
001966 Tr. 160X #5	Area "H" Ceiling	8/21/2012	
001966 Tr. 160X #6	Area "E" Ceiling	8/21/2012	
001966 Tr. 160X #7	Area "C" Wall	8/21/2012	

Custody Information:

Samples relinquished: Robert Pooler 8:45 Am 8/23/12
Signature / Date / Time

Samples received: MV 8/24/12 10am
Signature / Date / Time

CA Labs

Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Samples relinquished: _____ Signature / Date / Time

Samples received: _____ Signature / Date / Time

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
001966 Tr. 160X #8	Area "A" Wall	8/21/2012	
001966 Tr. 160X #9	Area "A" Ceiling	8/21/2012	
001966 Tr. 160X #10	Area "C" Ceiling	8/21/2012	
001966 Tr. 160X #11	Area "C" Floor	8/21/2012	
001966 Tr. 160X #12	Area "C" Floor	8/21/2012	
001966 Tr. 160X #13	Area "B" Floor	8/21/2012	

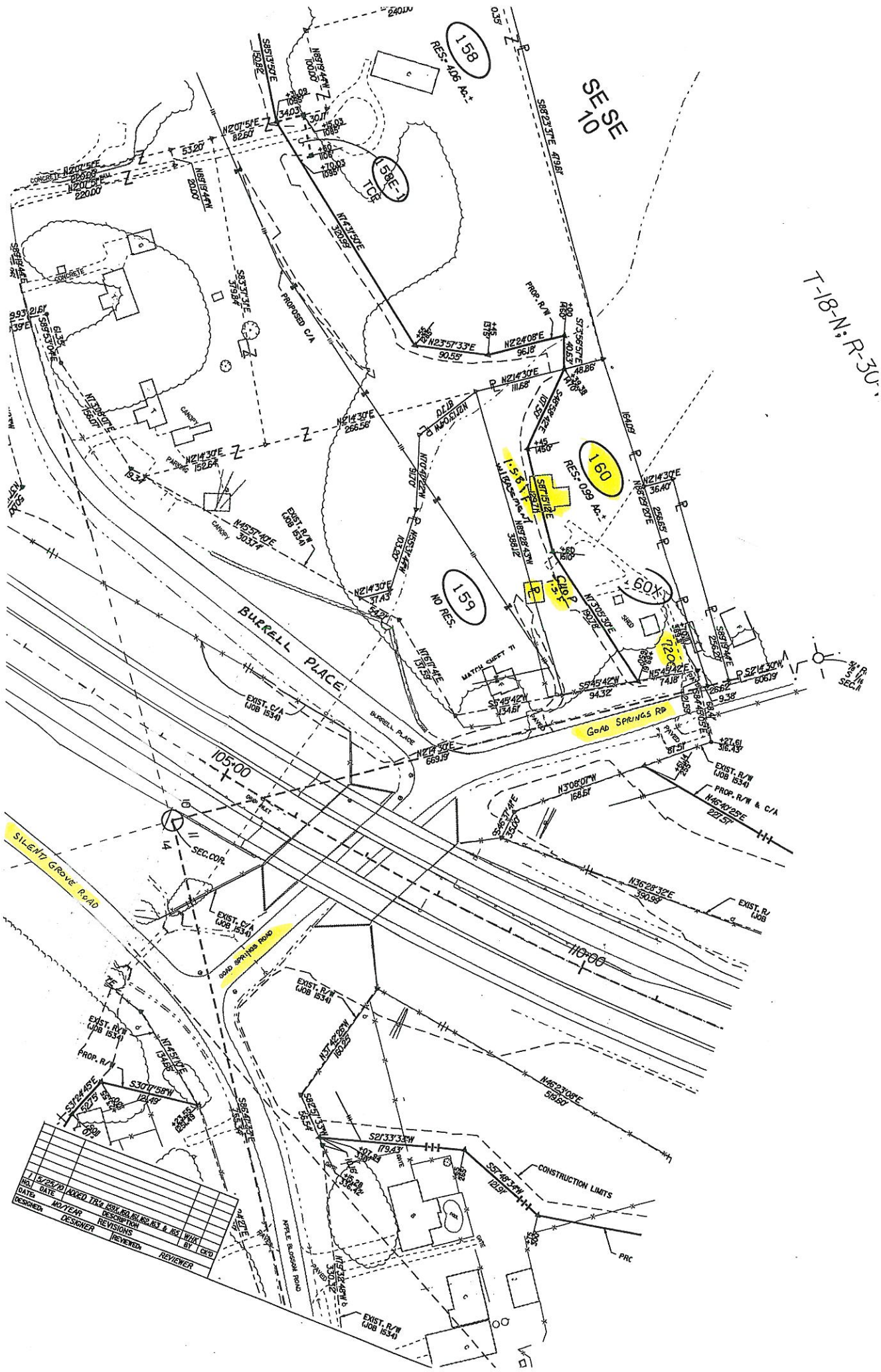
Custody Information:

Samples relinquished: [signature] 8:45AM 8/23/12 Signature / Date / Time

Samples received: MTV 8/24/12 10AM Signature / Date / Time

Samples relinquished: _____ Signature / Date / Time

Samples received: _____ Signature / Date / Time



SE SE
10
T-18-N; R-30
158
RES: 4.06 Ac.±
158E-1
TCP
160
RES: 0.99 Ac.±
159
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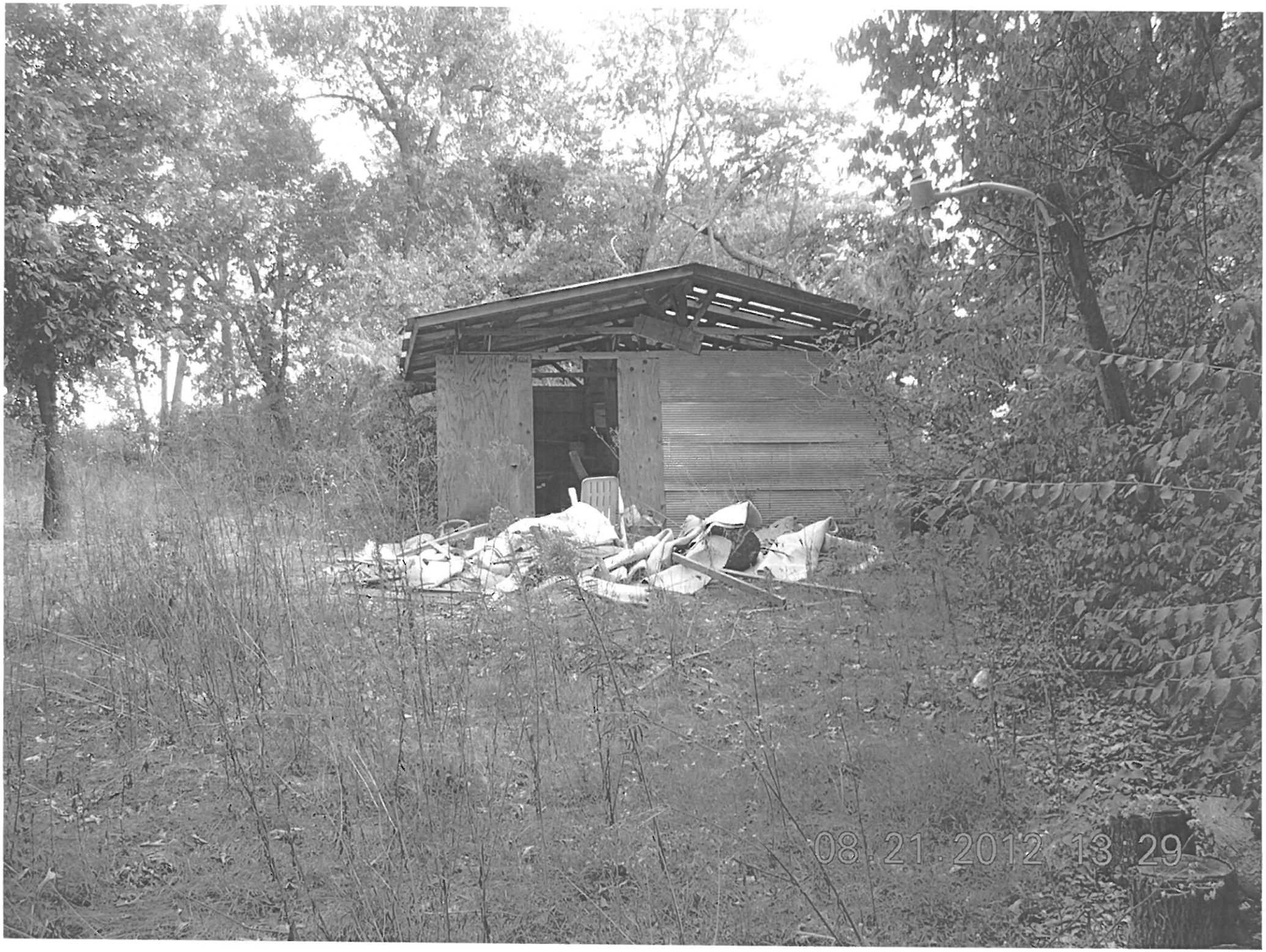
160X
720
BURRELL PLACE
GOAD SPRINGS RD
SILENT GROVE ROAD
GOAD SPRINGS ROAD
APPLE BLOSSOM ROAD
CONSTRUCTION LIMITS
PROPOSED C/A
PROP. R/W
EXIST. R/W (JOB 1534)
EXIST. C/A (JOB 1534)
PROP. R/W & C/A
SEC. COR.
105+00
110+00
MATCH SHEET 71
CANOPY
PARKING
CONCRETE
SHED
PAVED
GATE

08.21.2012 13:27

08 21 2012 13 28


08.21.2012 13:29

08.21.2012 13:30

JOB:	001966
TRACT:	172 X
DATE:	12/8/11

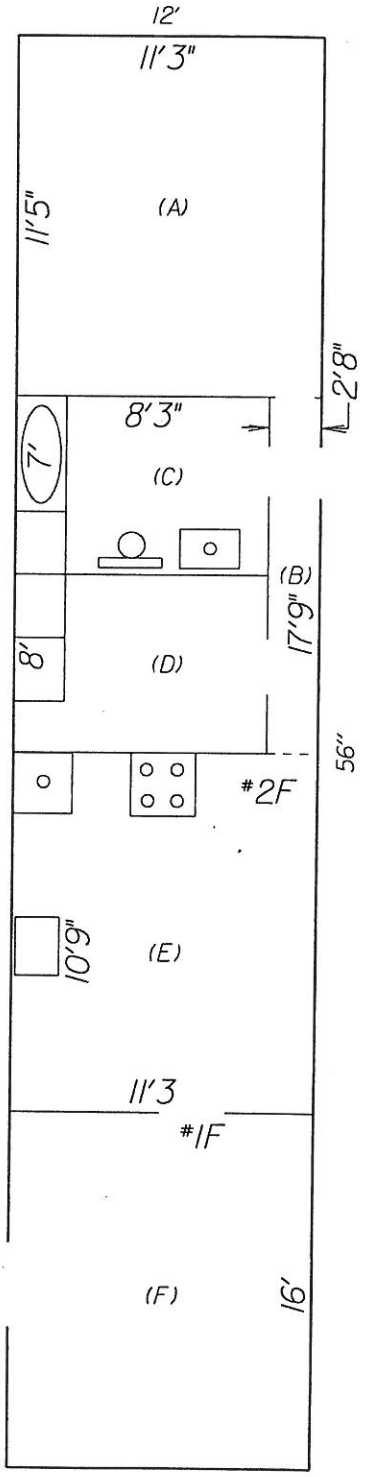
PROPERTY LOCATION
Mobile Home
13050 Sharp Springs Road
Lowell, AR 72745

INSPECTED BY
Robert Pooler (014597)

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1	Area (F) Floor	#11	
#2	Area (E) Floor	#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Metal
Siding	Aluminum
Ceilings (ALL)	Fiber
Walls (ALL)	Paneling
Floors (ALL)	Vinyl

Job 001966 Tract 172 X
13050 Sharp Springs Road
Lowell, AR 72745
672 SF



ATOKA, INC.

Professional Engineering & Environmental Consulting Services

Member - Insurance Claims Support

ASBESTOS ANALYSIS SUMMARY

December 21, 2011
A11-1209-79-80

AHTD, Property Management
P.O. Box 2261, Room 705
Little Rock, AR 72203-2261

Attn: Robert Pooler / Joel Clark
Ph: 501-569-2317 (2318)
Fx: 501-569-2018

Test requested: Asbestos Identification and Quantification

Method: EPA/600/R-93/116 JULY, 1993

Sample description: Two (2) PLM bulk samples submitted 12/09/11

Client Project Info: #001966 Tr. 172X; Mobile Home, 13050 Sharp Springs Rd, Lowell, AR

ATOKA#	Client Field #/Description	Asbestos
A11-1209-79	001966 Tr. 172X #1 Area "F" Floor	None Detected
	2nd layer, tan mastic	None Detected
A11-1209-80	040489 Tr. 1X #2 Area "E" Floor	None Detected

Cliff W. McBryde, ATOKA, Inc.

NIST / NVLAP laboratory #200349-0 issued to Criso Analytical, LLC and contracted by ATOKA, Inc.
Note: All percentages are visual estimations based on field area determination. All sample reflect the content of samples as received. Any association with sample locations is by inference only.

CAL11127739

I-30, Bldg. 1, Ste 119
Little Rock, AR 72209

ATOKA, INC

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Office: 501-455-1700
Fax: 501-455-1864

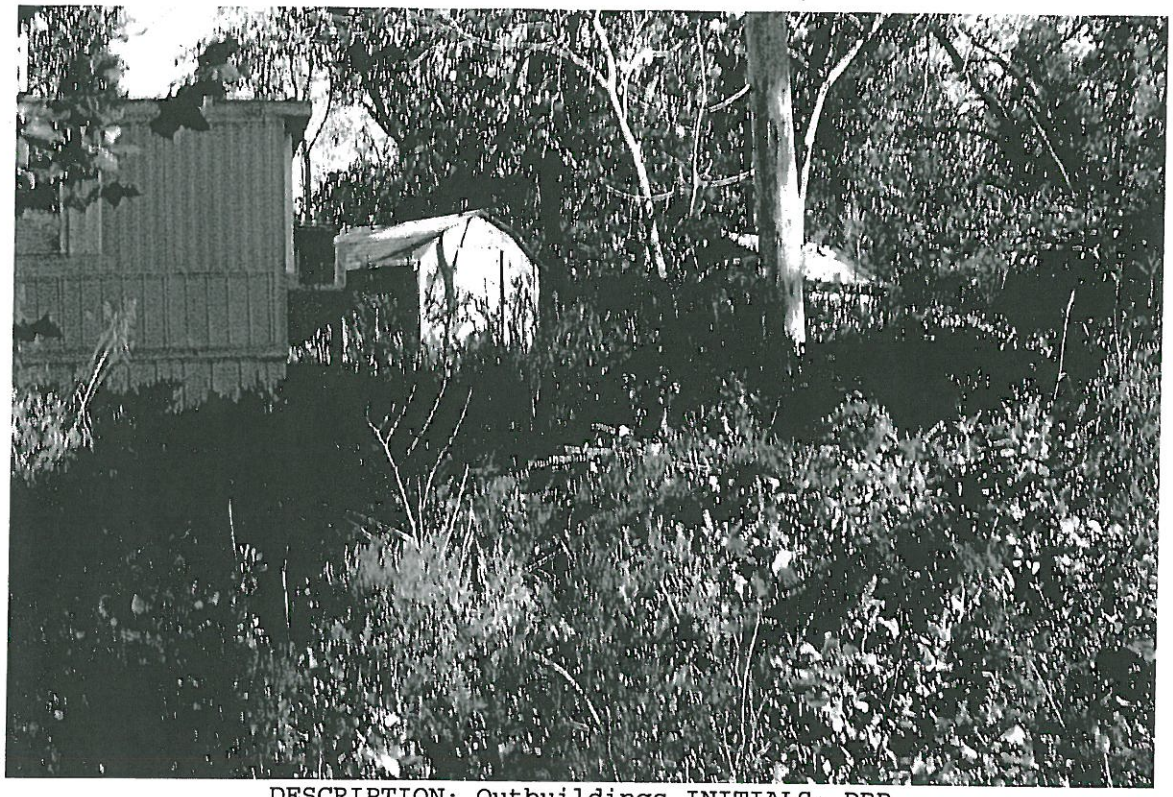
PROJECT NO.	CLIENT/OWNER		SAMPLE LOCATIONS	
001966 Tract 172X 06-026	Name	AHTD, Property Management Attn: Robert Pooler or Joel Clark	Name	Mobile Home
	Address City, State, ZIP	P. O. Box 2261, ROOM 705 LITTLE ROCK, AR 72203-2261	Address	13050 Sharp Springs Road
	Phone #	501-569-2317, (2318) FAX 501-569-2018	City, State, ZIP	Lowell , AR 72745

SAMPLERS SIGNATURE	SAMPLE TYPE	Sample Condition:
Robert Pooler PRINTED Robert Pooler 014597	Bulk ■ Air □ Food □ Soil □ Water □ Swab □ Other □ Air: □ Micro 5 □ Air-O-Cell □ Cyclex-D □ Biotest □ Plate □ Swab: □ Sponge □ Cotton Tip □ Tape Lift □ Other □	■ Satisfactory Temp °C □ Unsatisfactory Rejected Reason Demolition

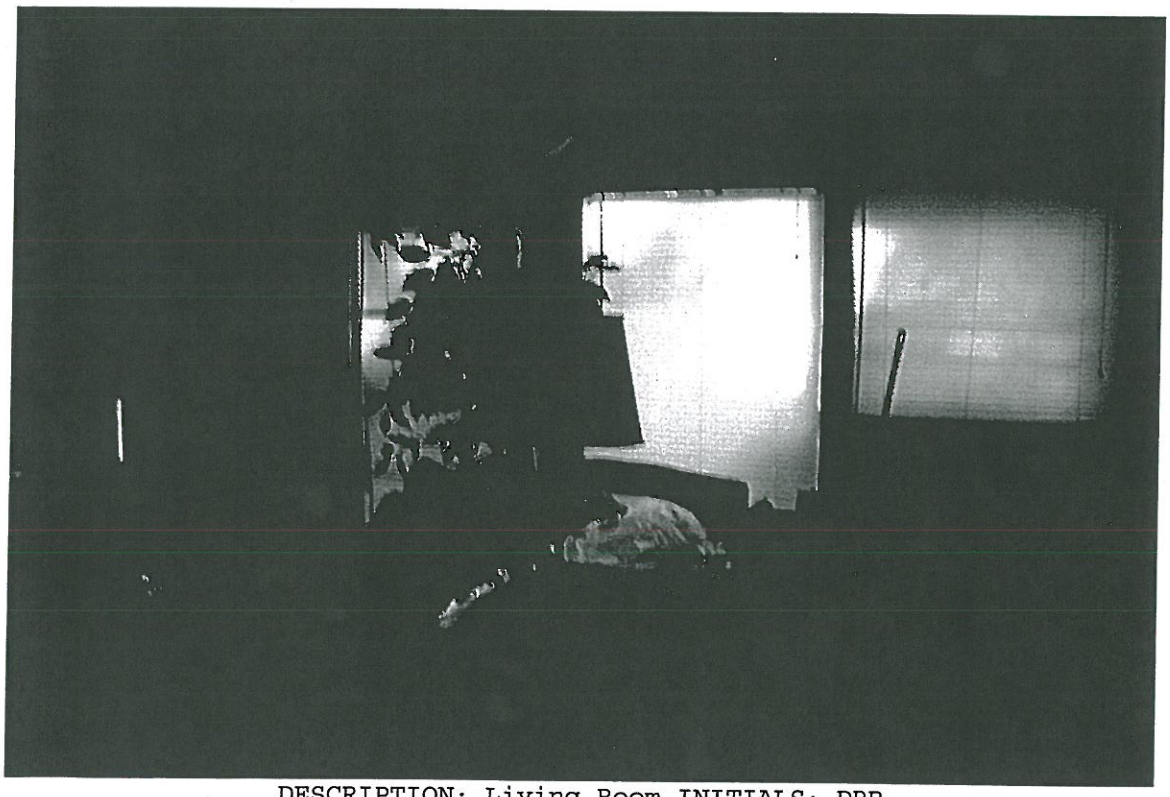
FIELD SAMPLE #	DATE	TIME	SAMPLE LOCATION/DESCRIPTION:	PARAMETER	ATOKA LABORATORY ID #
001966 Tr 172X #1	12/8/2011		Area "F" Floor	ASBESTOS	A11-1209-79
001966 Tr 172X #2	"		Area "E" Floor	"	" 80
	"			"	
	"			"	
	"			"	
	"			"	
	"			"	
	"			"	
	"			"	
	"			"	
	"			"	

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
Robert Pooler PRINTED: Robert Pooler		[signature] PRINTED: Lisa Holeman	12.9.11 9:55		

RECEIVED BY:	DATE/TIME	RECEIVED BY LABORATORY:	DATE/TIME	SPECIAL INSTRUCTIONS
PRINTED:		MTV PRINTED: CA Labs	12/12/11 10AM	(5-Day) Turn-around



DESCRIPTION: Outbuildings INITIALS: DRB
DIRECTION: Southwest DATE: 10/7/10



DESCRIPTION: Living Room INITIALS: DRB
DIRECTION: Inside DATE: 10/7/10

PROPERTY MANAGEMENT
ASBESTOS ABATEMENT & DEMOLITION CONTRACT

Job 001966
U. S. Hwy. 412
(Springdale Northern Bypass)
Benton County

Work Site Directions

Tract 95 X at 13036 Sharp Springs Road: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn to the left (west) and go over the interstate to a stop sign. Turn left (south) onto Wagon Wheel Road and travel around to a four way stop. This should be at the intersection of Wagon Wheel Road and S. Zion Road. Zion Baptist Church should be to your right at the stop sign. Continue north on Zion Road (County Road 236), until you come to the 'T' intersection of Sharp Springs Road and Zion Road. There should be six Chicken Houses on your left. Turn left on Sharp Springs Road for about 270 feet and then right onto a dirt road across an open field for approximately 720 feet. Here you should be at a Yellow 1-S-F Dwelling at 13074 Sharp Springs Road Lowell, AR 72745. Turn right onto the gravel drive and 13036 Sharp Springs Road (a 1-S-F Dwelling Pink colored) House is located toward the back of the property.

Tract 172 X at 13050 Sharp Sprigs Road: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn to the left (west) and go over the interstate to a stop sign. Turn left (south) onto Wagon Wheel Road and travel around to a four way stop. This should be at the intersection of Wagon Wheel Road and S. Zion Road. Zion Baptist Church should be to your right at the stop sign. Continue north on Zion Road (County Road 236), until you come to the 'T' intersection of Sharp Springs Road and Zion Road. There should be six Chicken Houses on your left. Turn left on Sharp Springs Road for about 270 feet and then right onto a dirt road for approximately 720 feet. Here you should be at a Yellow 1-S-F Dwelling at 13074 Sharp Springs Road Lowell, AR 72745. Turn right onto the gravel drive and past Tract 95X, in an easterly direction, through the brush, you will find the Mobile Home and Shed at 13050 Sharp Springs Road for Tract 172 X.

Tract 126X at 911 Spring Creek Road: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn to the left (west) and go over the interstate to a stop sign. Turn right (north) onto Puppy Creek Road and travel to a fork in the road. Take the left fork on to Spring Creek Road. Approximately 550 feet (north) on the right should be Tract 126 X a Tri-level Brick and Frame Dwelling at 911 Spring Creek Rd. Lowell, AR 72745. Then approximately 250 feet north of the house site should be the concrete slab on the right. (If you get to E. Brown Road you have gone too far.)

Tract 135 X at 922 Conrad Place: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn right onto Wagon Wheel Road (east) traveling this way until you come to Silent Grove Road. Turn left (north) onto Silent Grove Road and continue until you come to Goad Springs Road. Turn left on Goad Springs Road and cross under I-540. Just past the overpass of I-540 is Burrell Place. Turn left on Burrell Place. This road will curve to the right coming to the intersection of Conrad Place, Baker Place and Burrell Place. Turn left on Conrad Place heading in a southerly direction and this should bring in front of Tract 135X at 922 Conrad Place, Lowell, AR 72745

Tract 154 X at 822 Baker Place: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn right onto Wagon Wheel Road (east) and travel until you come to Silent Grove Road. Turn left onto Silent Grove Road and go until you come to Goad Springs Road. Turn left on Goad Springs Road and cross under I-540. Just past the overpass of I-540 is Burrell Place. Turn left on Burrell Place. This road will curve to the right coming to the intersection of Conrad Place, Baker Place and Burrell Place. Baker Place and Burrell Place are separated by a north - south Chain Link Fence. Tract 154 X is on the west side of the fence at 822 Baker Place Lowell, AR 72745.

PROPERTY MANAGEMENT
ASBESTOS ABATEMENT & DEMOLITION CONTRACT

Job 001966
U. S. Hwy. 412
(Springdale Northern Bypass)
Benton County

Work Site Directions

Tract 68X at 4498 Hwy. 112; Take the exit 72 off of I-540 in Springdale and turn (left) west onto U.S. Hwy. 412. Travel Hwy. 412 west towards Tontitown. Take Hwy. 112. North through Elm Springs and 4498 will be on the western (left hand) side of Hwy. 112. This is the second site north of Elm Springs.

Track 72X at 4643 Hwy. 112; Take the exit 72 off of I-540 in Springdale and turn (left) west onto U.S. Hwy. 412. Travel Hwy. 412 west towards Tontitown. Take Hwy. 112. North through Elm Springs and 4643 will be on the eastern (right hand) side of Hwy. 112. This is the third site north of Elm Springs.

Tract 73X at 4315 Hwy. 112: Take the exit 72 off of I-540 in Springdale and turn (left) west onto U.S. Hwy. 412. Travel Hwy. 412 west towards Tontitown. Take Hwy. 112. North through Elm Springs and 4498 will be on the eastern (right hand) side of Hwy. 112. This is the first site north of Elm Springs.

Tract 95 X at 13036 Sharp Springs Road: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn to the left (west) and go over the interstate to a stop sign. Turn left (south) onto Wagon Wheel Road and travel around to a four way stop. This should be at the intersection of Wagon Wheel Road and S. Zion Road. Zion Baptist Church should be to your right at the stop sign. Continue north on Zion Road (County Road 236), until you come to the 'T' intersection of Sharp Springs Road and Zion Road. There should be six Chicken Houses on your left. Turn left on Sharp Springs Road for about 270 feet and then right onto a dirt road across an open field for approximately 720 feet. Here you should be at a Yellow 1-S-F Dwelling at 13074 Sharp Springs Road Lowell, AR 72745. Turn right onto the gravel drive and 13036 Sharp Springs Road (a 1-S-F Dwelling Pink colored) House is located toward the back of the property.

Tract 172 X at 13050 Sharp Sprigs Road: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn to the left (west) and go over the interstate to a stop sign. Turn left (south) onto Wagon Wheel Road and travel around to a four way stop. This should be at the intersection of Wagon Wheel Road and S. Zion Road. Zion Baptist Church should be to your right at the stop sign. Continue north on Zion Road (County Road 236), until you come to the 'T' intersection of Sharp Springs Road and Zion Road. There should be six Chicken Houses on your left. Turn left on Sharp Springs Road for about 270 feet and then right onto a dirt road for approximately 720 feet. Here you should be at a Yellow 1-S-F Dwelling at 13074 Sharp Springs Road Lowell, AR 72745. Turn right onto the gravel drive and past Tract 95X, in an easterly direction, through the brush, you will find the Mobile Home and Shed at 13050 Sharp Springs Road for Tract 172 X.

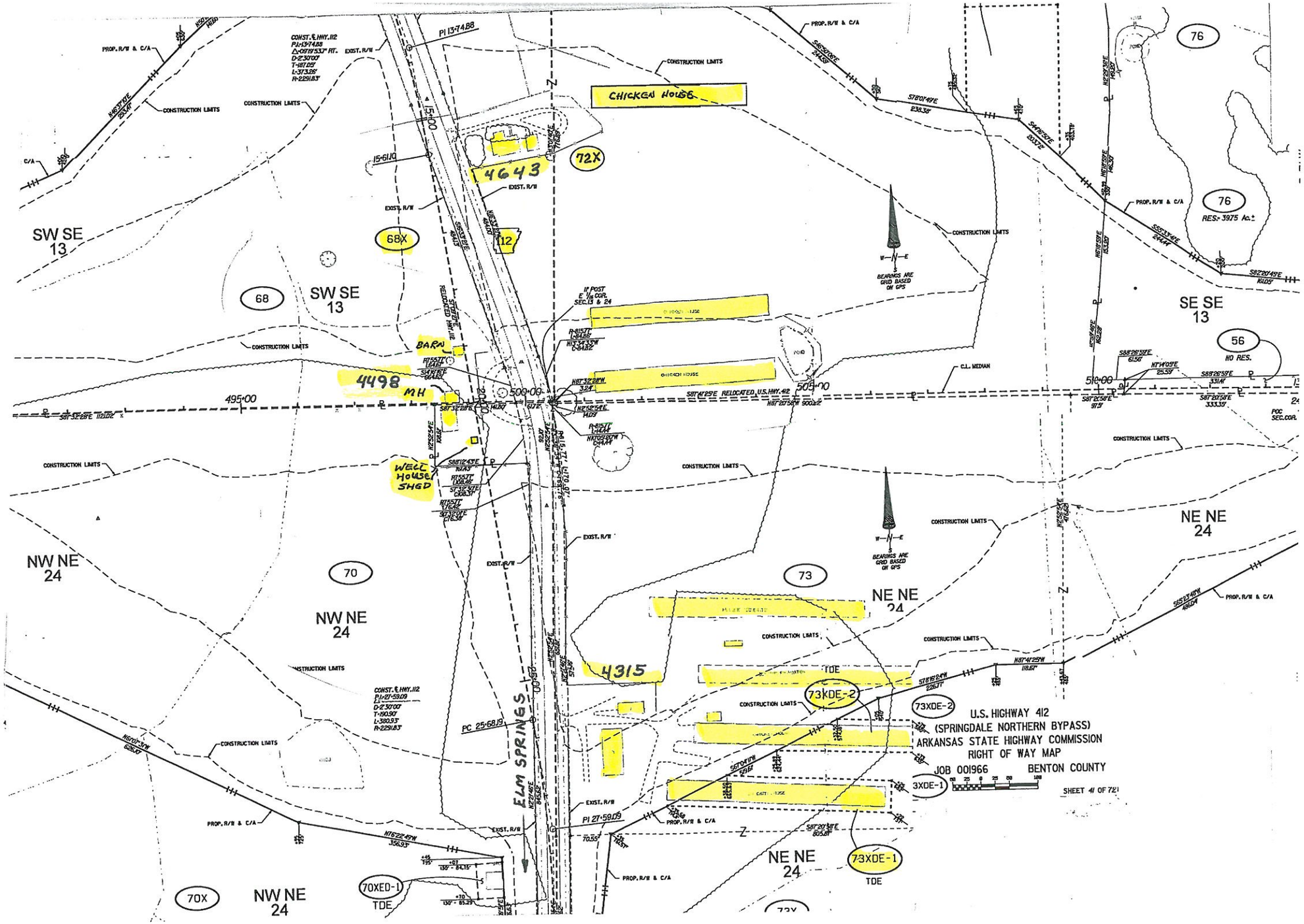
Tract 126X at 911 Spring Creek Road: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn to the left (west) and go over the interstate to a stop sign. Turn right (north) onto Puppy Creek Road and travel to a fork in the road. Take the left fork on to Spring Creek Road. Approximately 550 feet (north) on the right should be Tract 126 X a Tri-level Brick and Frame Dwelling at 911 Spring Creek Rd. Lowell, AR 72745. Then approximately 250 feet north of the house site should be the concrete slab on the right. (If you get to E. Brown Road you have gone too far.)

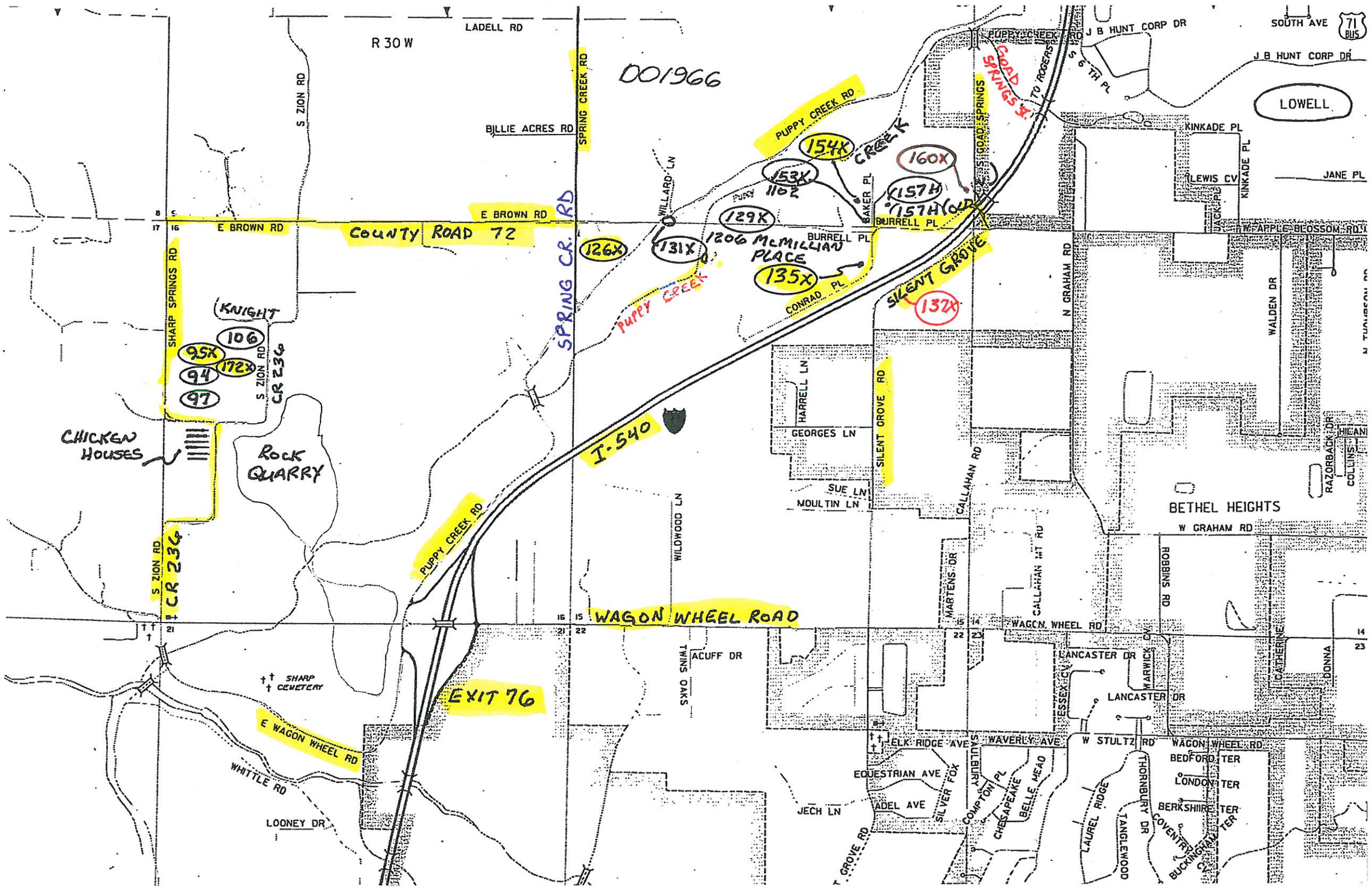
Tract 135 X at 922 Conrad Place: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn right onto Wagon Wheel Road (east) traveling this way until you come to Silent Grove Road. Turn left (north) onto Silent Grove Road and continue until you come to Goad Springs Road. Turn left on Goad Springs Road and cross under I-540. Just past the overpass of I-540 is Burrell Place. Turn left on Burrell Place. This road will curve to the right coming to the intersection of Conrad Place, Baker Place and Burrell Place. Turn left on Conrad Place heading in a southerly direction and this should bring in front of Tract 135X at 922 Conrad Place, Lowell, AR 72745

Tract 137 X at 5875 Silent Grove Road: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn right onto Wagon Wheel Road (east) and travel until you come to Silent Grove Road. Turn north (left) onto Silent Grove Road. This site will be the second driveway to the right as you come out of a hard curve to the right. This is where Silent Grove Road and I-540 run parallel to each other and before you get to Goad Springs Road. The drive goes up a bank to metal gate. This site sits back off the road, so it makes it hard to see.

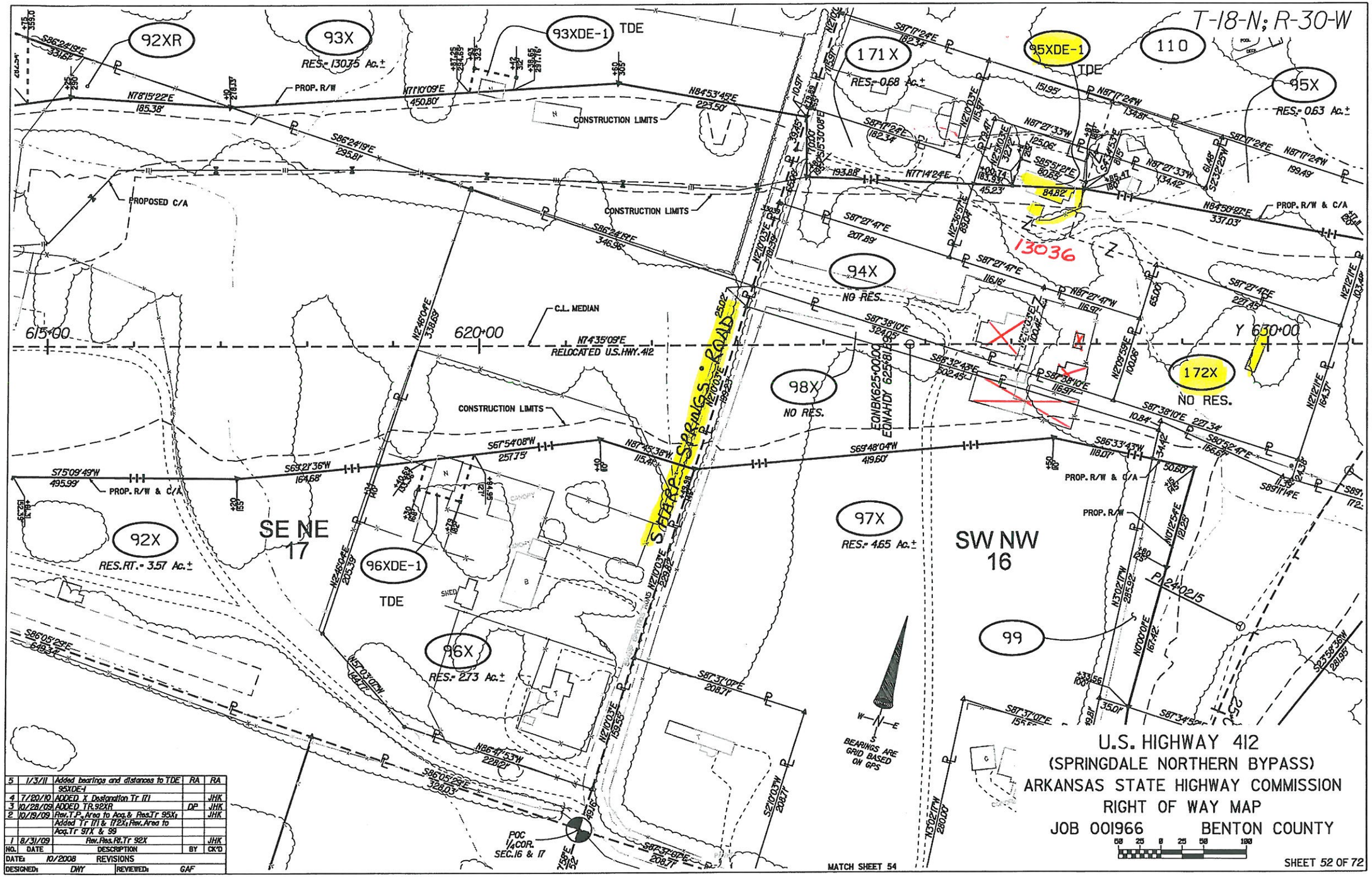
Tract 154 X at 822 Baker Place: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn right onto Wagon Wheel Road (east) and travel until you come to Silent Grove Road. Turn left onto Silent Grove Road and go until you come to Goad Springs Road. Turn left on Goad Springs Road and cross under I-540. Just past the overpass of I-540 is Burrell Place. Turn left on Burrell Place. This road will curve to the right coming to the intersection of Conrad Place, Baker Place and Burrell Place. Baker Place and Burrell Place are separated by a north - south Chain Link Fence. Tract 154 X is on the west side of the fence at 822 Baker Place Lowell, AR 72745.

Tract 160 X at 720 Goad Springs Road: Take I-540 North to exit 76 (Wagon Wheel Road Exit). Turn right onto Wagon Wheel Road (east) and travel until you come to Silent Grove Road. Turn left onto Silent Grove Road and go until you come to Goad Springs Road. Turn left on Goad Springs Road and cross under I-540. Stay to the right on Goad Springs Road and 720 Goad Springs Road is the second driveway to the left.


CHICKEN HOUSE
4643
72X
68X
12
68
SW SE 13
SW SE 13
BARN
4498
MH
WELL HOUSE/ SHED
495+00
500+00
505+00
510+00
70
NW NE 24
NW NE 24
73
NE NE 24
NE NE 24
4315
TDE
73XDE-2
73XDE-1
TDE
3XDE-1
70XED-1
TDE
70X
76
76
RES.= 3975 Ac.±
56
NO RES.
SE SE 13
ELM SPRINGS
U.S. HIGHWAY 412
(SPRINGDALE NORTHERN BYPASS)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 001966
BENTON COUNTY
SHEET 41 OF 72



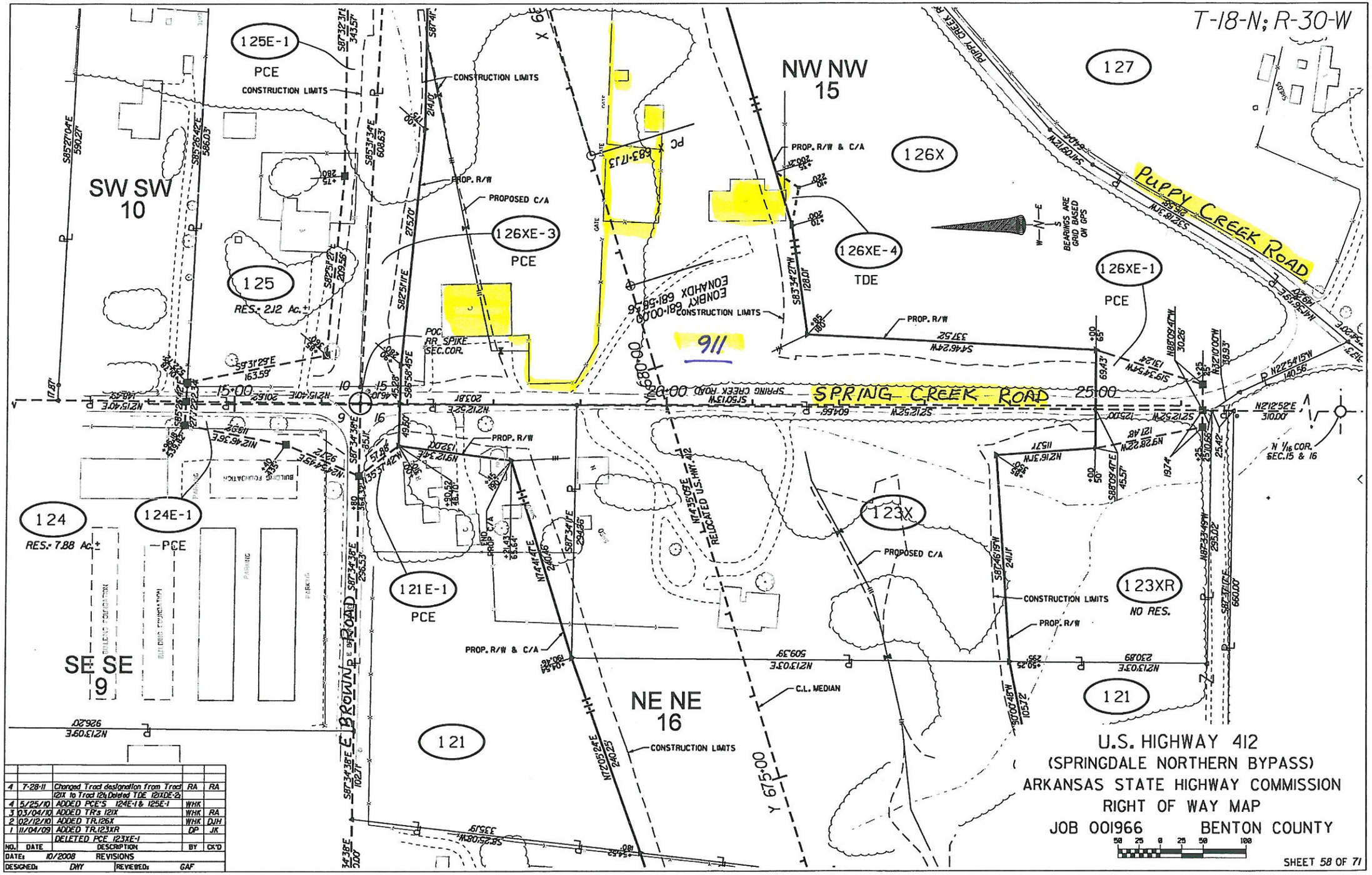
D01966
R 30 W
LADELL RD
S ZION RD
BILLIE ACRES RD
SPRING CREEK RD
PUPPY CREEK RD
GOAD SPRINGS
TO ROGERS
J B HUNT CORP DR
SOUTH AVE
71 BUS
S 6 TH PL
LOWELL
KINKADE PL
LEWIS CV
JANE PL
W APPLE BLOSSOM RD
E BROWN RD
COUNTY ROAD 72
SPRING CR. RD
WILLARD LN
154X
CREEK
160X
153X
1102
157H
157H (OLD)
129X
BAKER PL
BURRELL PL
126X
131X
1206 McMILLIAN PLACE
135X
CONRAD PL
SILENT GROVE
137X
PUPPY CREEK
SHARP SPRINGS RD
KNIGHT
106
95X
172X
94
97
CR 236
CHICKEN HOUSES
ROCK QUARRY
I-540
HARRELL LN
GEORGES LN
SILENT GROVE RD
SUE LN
MOULTIN LN
CALLAHAN RD
N GRAHAM RD
WALDEN DR
RAZORBACK DR
COLLINS
BETHEL HEIGHTS
W GRAHAM RD
WILDWOOD LN
MARTENS DR
CALLAHAN MT RD
ROBBINS RD
WAGON WHEEL ROAD
WAGON WHEEL RD
ACUFF DR
TWINS OAKS
LANCASTER DR
WARWICK CV
ESSEX CV
CATHERINE
DONNA
SHARP CEMETERY
EXIT 76
E WAGON WHEEL RD
WHITTLE RD
LOONEY DR
ELK RIDGE AVE
WAVERLY AVE
W STULTZ RD
BEDFORD TER
LONDON TER
BERKSHIRE TER
EQUESTRIAN AVE
SILVER FOX
SAULBURY
COMPTON PL
CHESAPEAKE
BELLE MEAD
LAUREL RIDGE
THORNBURY DR
TANGLEWOOD
COVENTRY CV
BUCKINGHAM TER
JECH LN
ADEL AVE



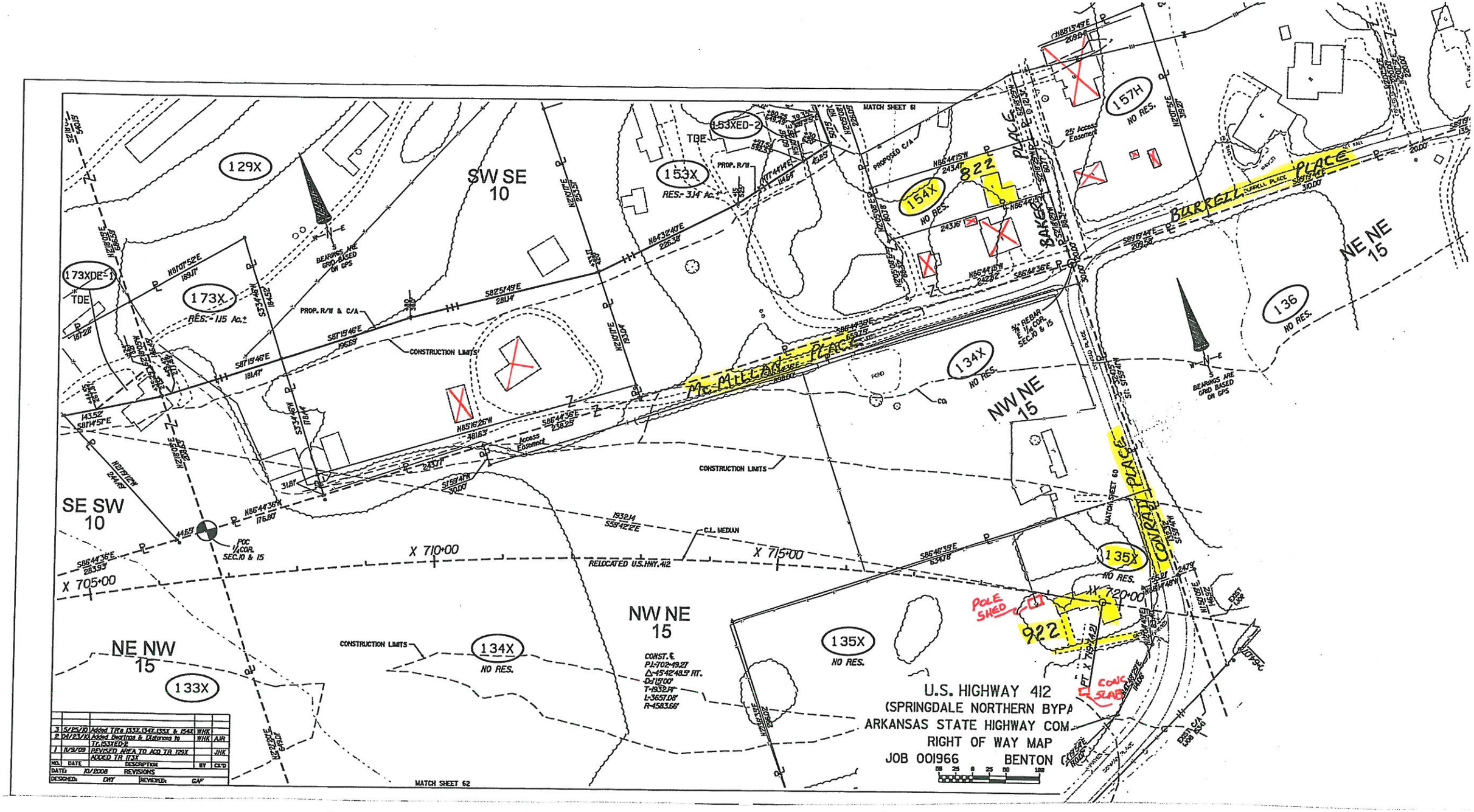
NO.	DATE	DESCRIPTION	BY	CK'D
5	1/3/11	Added bearings and distances to TDE 95XDE-1	RA	RA
4	7/20/10	ADDED X Designation Tr 171		JHK
3	10/28/09	ADDED TR.92XR	DP	JHK
2	10/19/09	Rev.T.P., Area to Acq.& Res.Tr 95X; Added Tr 171 & 172X; Rev.Area to Acq.Tr 97X & 99		JHK
1	8/31/09	Rev.Res.Rt.Tr 92X		JHK

DATE: 10/2008 REVISIONS

DESIGNED: DWY REVIEWED: GAF



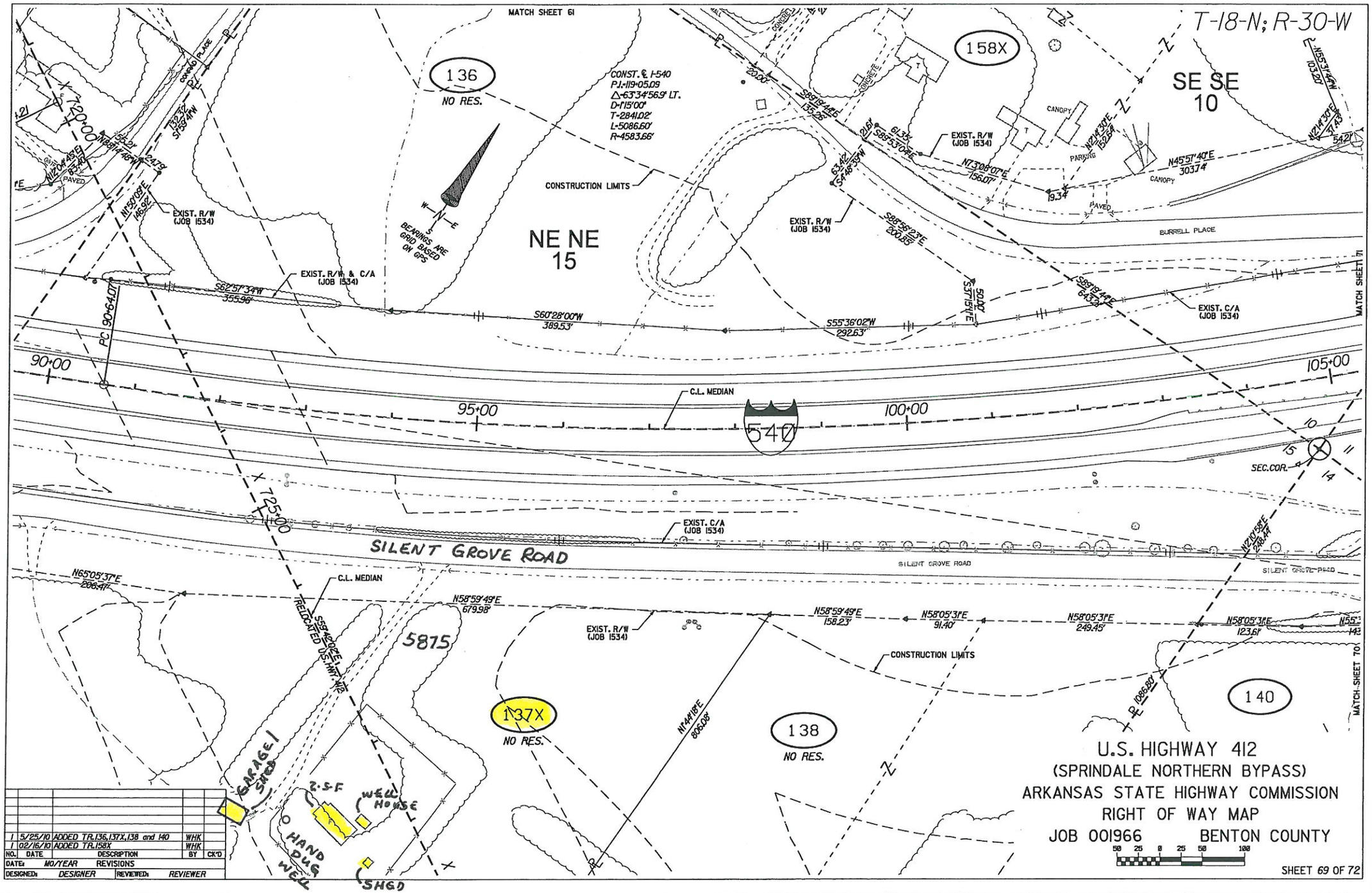
NO.	DATE	DESCRIPTION	BY	CK'D
4	7-28-11	Changed Tract designation from Tract 121X to Tract 124 Deleted TDE 121XDE-2	RA	RA
4	5/25/10	ADDED PCE'S 124E-1 & 125E-1	WHK	
3	03/04/10	ADDED TR's 121X	WHK	RA
2	02/12/10	ADDED TR.126X	WHK	DJH
1	11/04/09	ADDED TR.123XR	DP	JK
		DELETED PCE 123XE-1		



NO.	DATE	DESCRIPTION	BY	CK'D
3	5/25/10	Added TR's 133X,134X,135X & 154X	WHK	
2	01/23/10	Added Bearings & Distances to TR 153XED-2	WHK	AJR
1	11/3/09	REVISED AREA TO ACQ TR 129X ADDED TR 173X		JHK

DATE: 10/2008 REVISIONS BY CK'D

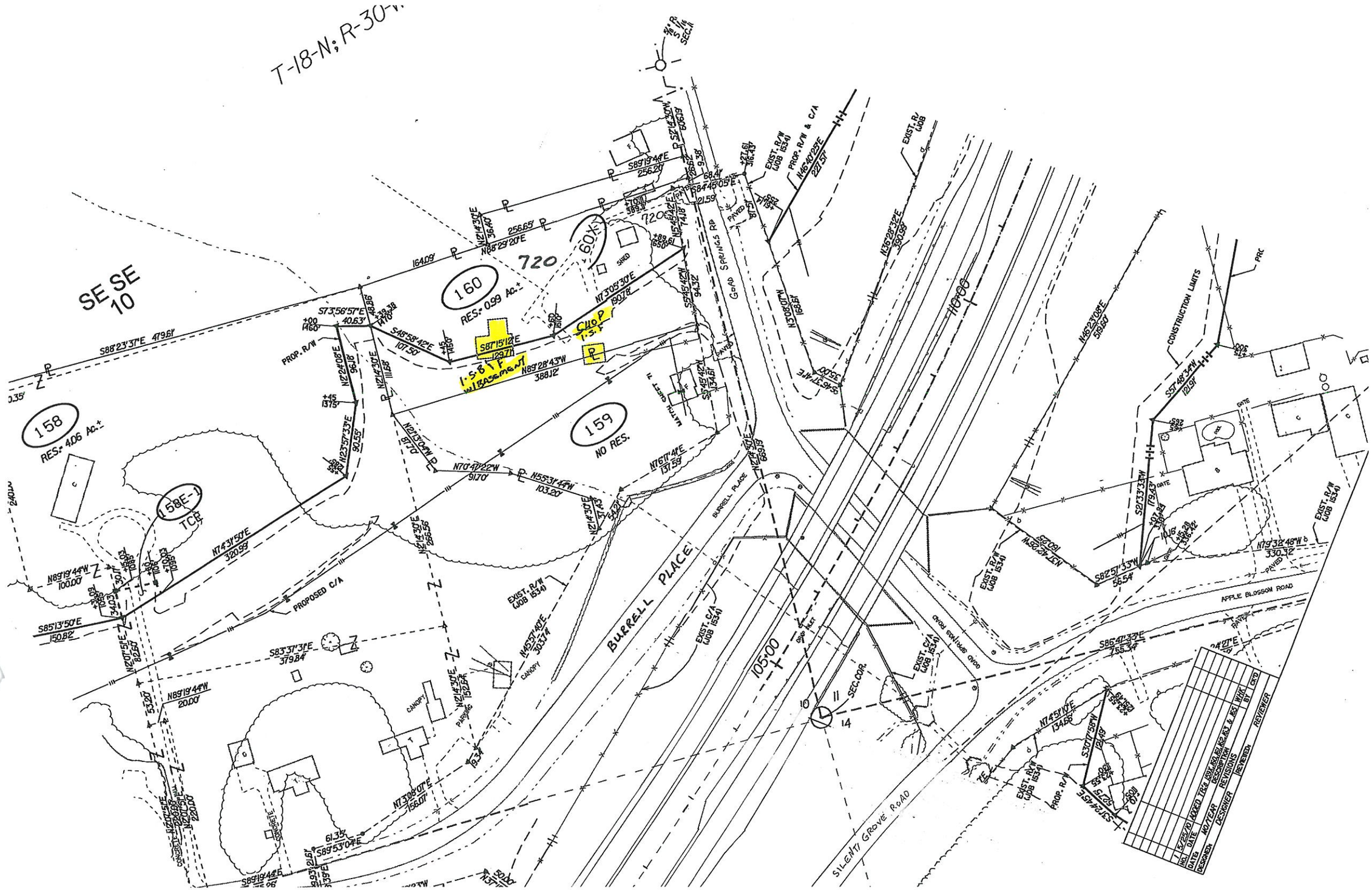
DESIGNED: DHT REVIEWED: GAF



NO.	DATE	DESCRIPTION	BY	CK'D
1	5/25/10	ADDED TR.136,137X,138 and 140	WHK	
1	02/16/10	ADDED TR.158X	WHK	

DATE: MO/YEAR REVISIONS

DESIGNED: DESIGNER REVIEWED: REVIEWER


T-18-N; R-30-W
SE SE
10
158
RES.: 4.06 Ac.±
158E-1
TCP
160
RES.: 0.99 Ac.±
720
60X
159
NO RES.
BURRELL PLACE
GOAD SPRINGS RD
SILENT GROVE ROAD
APPLE BLOSSOM ROAD
CONSTRUCTION LIMITS
PROPOSED C/A
PROP. R/W
EXIST. R/W (JOB 1534)
EXIST. C/A (JOB 1534)
SEC. COR.
105+00
110+00
1-SBIF w/BASEMENT
CHOP 1-SF
CANOPY
SHED
PARKING
CONCRETE
MATTH. CREEK
DESIGNED
DATE
DESIGNER
NO/YEAR
REVISIONS
DESCRIPTION
REVIEWED
REVIEWER
BY
CKD