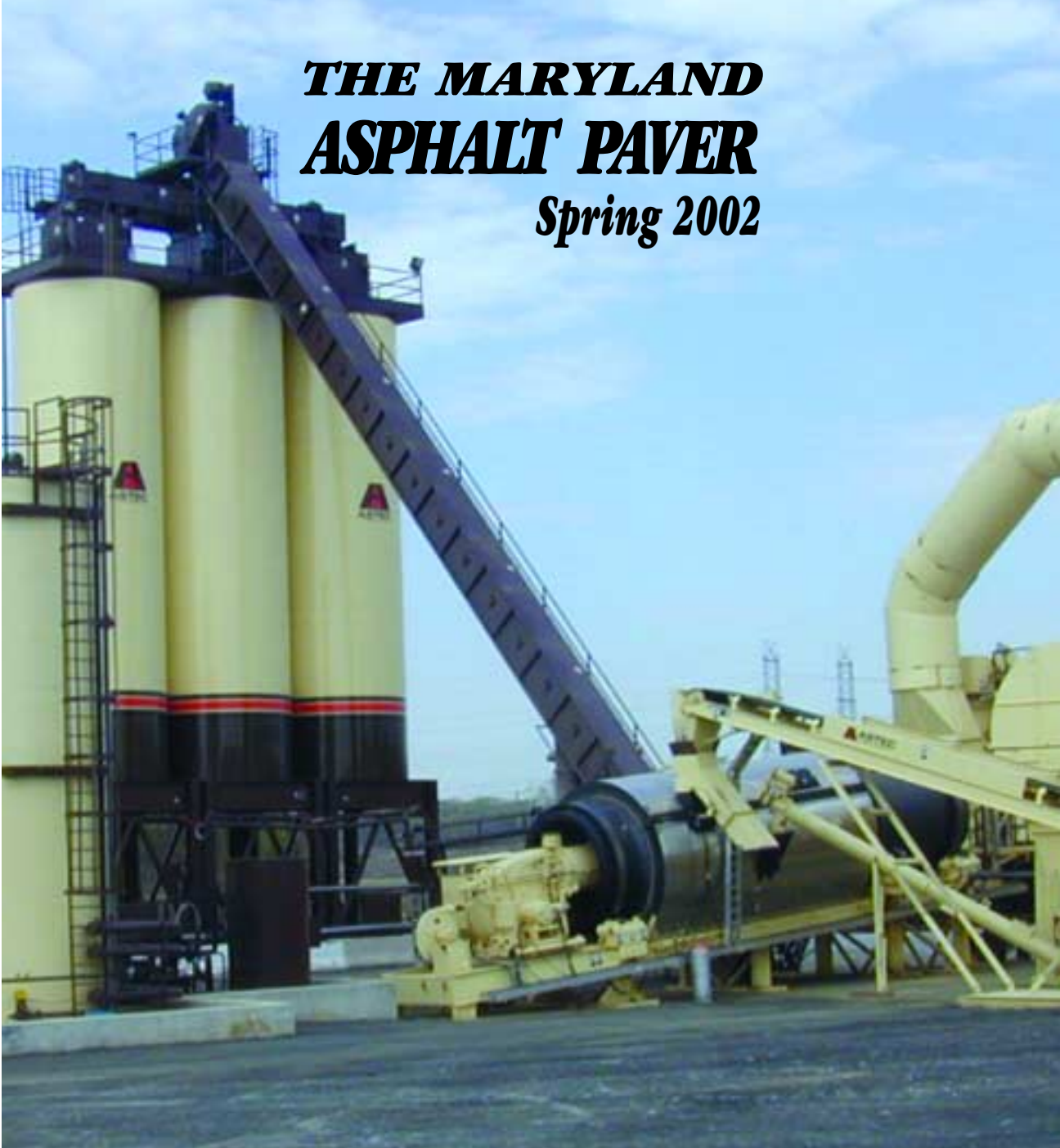


***THE MARYLAND
ASPHALT PAVER***
Spring 2002



"America's most recycled product."

FRONT COVER

Aggregate Industries Waldorf Plant

This new Astec double barrel, four hundred ton per hour, portable plant is located near Waldorf Maryland. The facility is ideal for the production of stone matrix asphalt (SMA). The twenty acre site was designed by Gary Stillmunkes and the Astec engineers. All of the stockpile areas are fully paved and are on a 3% grade to insure rapid drainage of stored materials.

Supplies for the new facility include four vertical storage tanks, two individual thirty-thousand gallon asphalt tanks and an agitated twenty-thousand gallon asphalt tank. In addition, there is another twenty-thousand gallon vertical tank used to fuel the production facility. Seven cold feeds and a rap feeder control the aggregate being sent to the plant. A seventy-two thousand cubic foot per minute baghouse controls particulate emissions.

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SMA IN THE USA



The Asphalt Pavement Alliance Booth was prominently displayed at the Frederick, Maryland event.

Over four hundred thirty participants attended the conference devoted solely to the proper manufacture and placement of stone matrix asphalt (SMA). Local and state government officials, FHWA personnel, contractors, suppliers and equipment manufacturers from thirty-seven states and seventeen foreign countries were in attendance. The event was held in late March at the Frederick Maryland Holiday Inn and included two general sessions and three break-out sessions.

Mike Acott, President of NAPA; Peter Grass, President of The Asphalt Institute; Nelson Castellanos from FHWA and Parker Williams, Maryland State Highway Administrator, opened the three day workshop.

Sam Miller, retiring SHA Materials Engineer, moderated a break-out session on proper specifications that included a half hour presentation by Larry Michael on the successful Maryland specification. Maryland contractors have now produced and placed at least three million tons of SMA.

SMA IN THE USA



G. Marshall Klinefelter lectures on proper quality control

Bob Horan from The Asphalt Institute moderated the break-out session on proper SMA placement. Maryland contractor Rob Scrivener from Reliable Contracting Co., Inc., addressed the need for and the structure of a proper pre-placement conference. John Foerster, P. Flanigan & Sons, Inc. demonstrated proper placement techniques in the break-out “It’s not your normal asphalt”.

Brian Dolan, President of the Maryland Asphalt Association, moderated the break-out session for SMA production. Pierce J. Flanigan, III of P. Flanigan & Sons, Inc. led discussions on preparing to bid, design, place and be paid for stone matrix asphalt. G. Marshall Klinefelter from David A.



Ron Collins from Pavement Technologies a division of Astec Industries discussed the use of SMA as a premium surface mix.

SMA IN THE USA

Bramble, Inc. covered proper quality control techniques for SMA.

Larry Warfield from Francis O. Day Co., Inc., discussed all that is necessary to achieve the successful production of stone matrix asphalt.

Other impressive speakers included Charles H. Van Deusen from Payne & Dolan, Inc.; Dr. Ray Brown from NCAT; Professor A.R. Woodside from The University of Ireland; Ingeborg Schroder, BP Germany; Byron Lord, FHWA and Ron Collins from Pavement Technologies, Inc. All agreed that stone matrix asphalt is the premium asphalt surface material available today. Team work, consistency and commitment to delivering a quality product were common themes which ran throughout the entire conference.

The University of Maryland produced a SMA update which was distributed at the conference. All the Powerpoint presentations from the conference are available through MAA or MdSHA.

I would like to take this opportunity to thank the sponsors for an excellent opportunity to learn about stone matrix asphalt. These sponsors include The Asphalt Institute, The Asphalt Paving Alliance, Federal Highway Administration, Maryland Department of Transportation, The National Asphalt Pavement Association, the State Asphalt Paving Association and the Virginia Department of Transportation.

In closing, Professor A.R. Woodside from the University of Ireland has conducted studies that concluded SMA is 44% stronger than normal HMA.



Larry Warfield discusses the commitment necessary to successfully supply and construct an SMA project.

Aggregate Industries Billingsley Road HMA Production Facility

This new Astec double barrel, four hundred ton per hour, portable plant is located near Waldorf Maryland. The facility is ideal for the production of stone matrix asphalt. The twenty-acre site was designed by Gary Stillmunkes and the Astec engineers. All of the stockpile areas are fully paved and are on a 3% grade to insure rapid drainage of stored materials.

Access into the facility is controlled by an internal routing system that directs incoming traffic across a seventy-five foot long truck scale; while all exiting traffic leaves after loading by way of a one-hundred foot long truck scale. This scale is positioned under three, three-hundred ton storage silos. There are provisions for a fourth silo if volume warrants its construction.



Retaining wall at the cold feed system is constructed from salvage materials originally incorporated in the Georgetown Trolley Line.

Aggregate Industries Billingsley Road HMA Production Facility



New 400 ton per hour portable Astec Double Barrel Plant with vertical oil tanks and 900 tons of HMA capacity.

Supplies for the new facility include four vertical storage tanks, two individual thirty-thousand gallon asphalt tanks and an agitated twenty-thousand gallon asphalt tank. In addition to that, there is another twenty-thousand gallon vertical tank used to fuel the production facility. Seven cold feeds and a rap feeder control the aggregate being sent to the plant. A seventy-two thousand cubic foot per minute baghouse controls particulate emissions.

Louis Ebert is the HMA Production Manager for this new facility and was the operator of the drum plant that this new facility replaced. The old facility was the Maryland State Highway Administration HMA Plant of the Year in 1999. This new facility will easily qualify for the NAPA Diamond Achievement Award. Paul Stonestreet is the Quality Control Manager of the completely new facility and operates a state of the art laboratory. This lab includes a Troxler gyratory compactor and an NCAT oven for precise quality control testing.

Aggregate Industries Billingsley Road HMA Production Facility

The plant was delivered on February 7, 2002 and produced its first ton of HMA on April 1, 2002. A final occupancy permit and a major SMA project are all that is necessary to allow Gary Stillmunkes to feel that he has successfully completed construction of a facility which we already know is a winner.



New plant utilizes seven cold feeds and a rap feeder.



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Aggregate Industries Billingsley Road HMA Production Facility



Fully equipped state of the art QC facility includes Troxler SGC.

2001 State Paving Awards

Seven "Excellence In Paving" awards were presented at the 39th Annual Paving Conference



PRIMARY RESURFACING

Saint Marys County • Rt 235
Aggregate Industries
Mid Atlantic
District 5



NEW CONSTRUCTION

Harford County • Hickory Bypass • Comer Construction
District 4



INTERSTATE RESURFACING

Queen Annes County • US 50
David A. Bramble, Inc.
District 2



RESURFACING

Frederick County • Rt 494 • C. William Hetzer, Inc.
District 7



PRIMARY RESURFACING

Calvert County • Rt 2 & 4
Francis O. Day Co., Inc.
District 5



NEW CONSTRUCTION

Allegany County • Canal Parkway • IA Construction Corporation
District 6



INTERSTATE RESURFACING

Prince George County • I 495
Francis O. Day Co., Inc.
District 3

**US ROUTE 50
DAVID A. BRAMBLE, INC.**



Partial depth patching WBL US Route 50.

David A. Bramble, Inc. is currently resurfacing the west bound lanes of US Route 50 from Queenstown to Kent Narrows. Billy Wetmore is the Paving Foreman and Paul C. Bramble is the Paving Superintendent. This project is scheduled for completion by mid-June 2002 and is one of the four Eastern Shore projects featuring Maryland's premium surface mix, Stone Matrix Asphalt. The four projects currently under contract to David A. Bramble, Inc. include almost 40,000 tons of SMA. This individual project includes 12,000 tons of 12.5mm SMA using a polymer modified PG76-22 binder. Thirty-seven hundred tons of wedge and level are a 9.5mm Superpave with PG64-22 binder.

US ROUTE 50 DAVID A. BRAMBLE, INC.

Dixie Construction performed more than 100,000 square yards of carbide grinding on this project. American Paving Fabrics installed Petromat in the partial depth patches which removed the HMA down to the original rigid pavement. George Bartholomew complimented Harry Boniface and Dixie Construction for achieving an extremely smooth ground surface. George also complemented Kevin McGrath of American Paving Fabrics for a timely and professional installation of the paving fabrics needed to retard reflective cracking of the rigid pavement joints.

Billy Wetmore used a Blaw Knox 3200 paver along with DD110 and DD130 Ingersoll-Rand roller to achieve optimal density. MSHA Chief Engineer Douglas Rose noted that the longitudinal joint construction was some of the straightest, best and most consistent he had seen in recent years.



9.5 mm Superpave intermediate course prior to SMA placement.

US ROUTE 50
DAVID A. BRAMBLE, INC.



Carbide grinding operation by Dixie Construction Co., Inc..



Clean up of Carbide ground surface.

US ROUTE 50
DAVID A. BRAMBLE, INC.



Finish ground roadway prior to paving.

George Bartholomew hopes to obtain a ride quality incentive for this excellent project when it is complete. Turn lanes and crossovers are being resurfaced with 12.5mm PG70-22 Superpave to facilitate handwork. This roadway routinely handles the large volume (ADT 69,775) of truck traffic needed to supply Maryland's Eastern Shore with durable and consumable goods. US Route 50 is the gateway to Maryland's Atlantic Ocean resort areas. Smoothness and durability requirements on this high profile project necessitated a premium surface mix such as 12.5mm SMA.

I-95, CHESACO AVENUE TO MD 24

Interstate 95 runs northeast from Baltimore across the Susquehanna River toward Delaware and then onto New Jersey and New York. The Maryland Transportation Authority owns and operates the toll portion of I-95 in Maryland. Originally constructed in the early 1960's, I-95 was named the John F. Kennedy Memorial Highway in honor of our late President.

This major facility has an average daily volume of 154,000 ADT and carries a heavy volume of truck traffic along with many business commuters and vacationers.



Cherry Hill Contractors widen I-95 and install noise walls prior to final SMA lift by P. Flanigan & Sons, Inc..

I-95, CHESACO AVENUE TO MD 24



P. Flanigan & Sons, Inc. placed SMA from Hazelwood Ave. to The Baltimore Beltway.

Currently the Authority has three major projects under construction between Baltimore and Edgewood Maryland. The first project is a widening and resurfacing project from Chesaco Avenue to the Baltimore beltway. Cherry Hill Contractors is the prime contractor and P. Flanigan & Sons, Inc. is the HMA subcontractor. The second project is a patch and overlay contract. Gray & Son, Inc. is the contractor and will place 66,000 tons of stone matrix asphalt on the northbound lanes between I-695 and Md. 24 on I-95. Maryland Paving, Inc. will supply the SMA from their Astec double barrel plant located in Texas, Maryland. T.C. Simons, Inc. has the third project which is similar to the second project except it includes patch and overlay on the southbound lanes of I-95 between Md. 24 and the Baltimore beltway. Independence Construction Materials will supply the SMA for this project from their Aderdeen production facility.

The Maryland Transportation Authority selected polymer modified 12.5mm stone matrix asphalt because they were interested in long term durability. The SMA selected for these projects uses a high quality non-polishing aggregate. As previously mentioned, the liquid asphalt specified is a polymer modified material (PG76-22), recycled materials are prohibited and a minimum liquid asphalt of 6.5% is required.

I-95, CHESACO AVENUE TO MD 24

The Maryland Asphalt Association worked closely with Bob Sweeney of MTA to coordinate the best possible mix specifications to insure durability as well as a smooth and quiet highway surface on this high volume arterial facility.



North bound I-95 at King Ave. has already received SMA surface by Gray & Son, Inc.. South bound lane is being prepared by T. C. Simons, Inc. for similar SMA installation.

ASSOCIATE MEMBERS

Company	Location	Phone No.	Fax No.
Advanced Asphalt Technologies, L.P.	Sterling, VA	703-444-4200	703-444-4368
Alban Tractor Company, Inc.	Baltimore, MD	410-686-7777	410-686-3729
American Paving Fabrics, Inc.	Hanover, MD	410-379-2209	410-796-0272
Aon Risk Services	Baltimore, MD	410-547-2915	410-547-2914
The Arundel Corporation	Sparks, MD	410-329-5000	410-329-3498
Astec, Inc.	Chattanooga, TN	423-867-4210	423-867-3570
Baltimore Gas & Electric Co.	Baltimore, MD	410-265-4615	410-265-4150
Castrol Heavy Duty Lubricants	Baltimore, MD	800-777-1466	410-682-9485
Caterpillar, Inc.	Camp Hill, PA	717-761-8930	717-761-9475
Cellulose Filler Factory Corp.	Chestertown, MD	800-832-4662	410-810-0793
Chaney Enterprises	Waldorf, MD	301-843-6101	301-843-0306
Chemstation Mid Atlantic	Baltimore, MD	410-737-0885	410-787-0890
Chevron Products Company	Baltimore, MD	410-879-2212	410-838-2111
Citgo Asphalt Refining Co.	Plymouth Meeting, PA (800) 443-4232	215-542-4054	410-757-1471
Ellin & Tucker, Chartered	Baltimore, MD	410-727-5735	410-727-1405
Financial Benefit Services	Kensington, MD	301-949-1000	301-949-7038
Fleet Transit, Inc.	Baltimore, MD	410-355-7910	410-355-2372
GE Capital Corporation	Blue Bell, PA	215-654-5272	215-654-7866
George Associates, Inc.	Silver Spring, MD	301-589-9490	310-588-6605
Hi Tech Asphalt Solutions	Mechanicsville, VA	804-730-4871	804-730-7789
HMS Insurance Associates, Inc.	Brooklandville, MD	410-337-9755	410-337-0551
Humbolt Manufacturing Co.	Raleigh, NC	919-833-3190	919-833-5283
Ingersoll-Rand Equipment Sales	Elkridge, MD	410-796-3200	410-796-3350
International Petroleum Corp.	Wilmington, DE	302-421-9306	302-421-9099
Kapejo, Inc.	New Castle, DE	800-342-3717	800-342-3750
Koch Materials Company	York, PA	717-843-0975	717-845-6322
L&J Construction Service, Inc.	Baltimore, MD	410-243-3844	410-243-2309
Luck Stone Corporation	Leesburg, VA	703-777-3177	703-779-4774
Martin Marietta Aggregates	Richmond, VA	804-674-9517	804-675-9261
Maryland Materials, Inc.	North East, MD	410-287-8177	410-287-3654
Mercantile Bank	Baltimore, MD	410-237-5370	410-237-5703
E. Stewart Mitchell, Inc.	Baltimore, MD	410-354-0600	410-354-3029
Priceless Industries, Inc.	Baltimore, MD	410-285-1900	410-282-8347
Recon Construction Services, Inc.	York, PA	717-779-0663	717-779-0724
Roadtec, Inc.	Chattanooga, TN	423-265-0600	423-265-7521
Seaboard Asphalt Products Co.	Baltimore, MD	410-355-0330	410-355-5864
Rifkin, Livingston, Levitan & Silver, LLC	Baltimore, MD	410-837-9700	410-837-9716
L. B. Smith, Inc.	Jessup, MD	410-799-9010	410-799-9042
Troxler Electronics	Rockville, MD	301-924-3336	301-299-1899
UltraPave, Div. Textile Rubber & Chemical Company	Richmond, VA	804-743-9226	804-271-8572
U.S. Filter Recovery Services	Alexandria, VA	703-370-7306	703-370-8067
Valero Mkt. & Supply Co.	Lafayette Hill, PA	888-207-3727	610-567-3291
Vulcan Materials Company	Manassas, VA	703-631-9690	703-368-2139
WCD Enterprises	Crownsville, MD	410-923-6162	410-923-6506
Wildwood Environmental Engineering Consultants, Inc.	Baltimore, MD	410-780-9663	410-780-7094
York Building Products Co., Inc.	York, PA	717-848-2831	717-854-9156



MARYLAND ASPHALT ASSOCIATION, INC.

PRODUCERS

Company	Location	Phone No.	Fax No.
Aggregate Industries Mid-Atlantic	Greenbelt, MD	301-982-1400	301-513-0013
	Capitol Heights, MD	301-324-8390	301-324-1620
David A. Bramble, Inc.	Chestertown, MD	410-778-3023	410-778-3427
Francis O. Day Company, Inc.	Rockville, MD	301-652-2400	301-424-4443
Edgemoor Materials of Maryland, Inc.	North East, MD	410-287-5555	410-287-3481
P. Flanigan & Sons, Inc.	Baltimore, MD	410-467-5900	410-467-3127
Fort Myer Construction Corp.	Washington, DC	202-636-9535	202-832-7678
C. William Hetzer, Inc.	Hagerstown, MD	301-733-7300	301-733-0812
IA Construction Corporation	Concordville, PA	610-459-3136	610-459-2086
Kary Asphalt, Inc.	Salisbury, MD	410-742-8484	410-742-0504
Lafarge North America	Towson, MD	410-847-3300	410-847-3308
Laurel Sand & Gravel, Inc.	Laurel, MD	301-953-7650	301-470-4075
Maryland Paving, Inc.	Aberdeen, MD	410-879-6970	410-879-5478
Miller Asphalt Products, Inc.	Hampstead, MD	410-239-8006	410-239-4204
Patuxent Asphalt, LLC	Crofton, MD	301-261-3359	301-261-3361
Prince George's Contractors, Inc.	Clinton, MD	301-297-8760	301-870-6286
Reliable Contracting Company, Inc.	Millersville, MD	410-987-0313	410-987-8020
T.C. Simons, Inc.	Fallston, MD	410-879-3055	410-893-2695
Tilcon Delaware	Dover, DE	800-468-8649	302-678-3379
Union Equipment, Inc.	Warfordsburg, PA	717-294-3297	717-294-6400
Valley Quarries	Chambersburg, MD	717-267-2244	717-267-2521
LW Wolfe Enterprises, Inc.	Myersville, MD	301-293-2351	301-293-3578

CONTRACTORS

Asphalt General	Beltsville, MD	301-937-3900	301-937-3893
Melvin Benhoff Sons, Inc.	Baltimore, MD	410-477-5650	410-477-5091
Blacktop, Inc.	Capital Heights, MD	301-808-4800	301-808-4804
Central Maintenance Corp.	Baltimore, MD	410-355-8800	410-355-4847
College Park Paving Co., Inc.	Beltsville, MD	301-937-1447	301-937-6971
Dick Corporation	Pittsburgh, PA	412-384-1000	412-384-1150
Dixie Construction Co., Inc.	Churchville, MD	410-879-8055	410-836-2029
Gray & Son, Inc.	Butler, MD	410-771-4311	410-771-8125
Iacoboni Site Specialists	Baltimore, MD	410-686-2100	410-686-8559
Quarry Ridge Asphalt Co.	Cumberland, MD	301-777-8825	301-777-8274
Trenton Contracting Co., Inc.	Upperco, MD	410-239-3286	410-374-9794

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Avalon Consulting Services	Baltimore, MD	410-945-9553	410-945-9554
EBA Engineering, Inc.	Baltimore, MD	410-358-7171	410-358-7213
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Rummel, Klepper & Kahl	Baltimore, MD	410-728-2900	410-728-2834
Wallace Montgomery & Associates	Towson, MD	410-494-9093	410-825-5714



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