NORTHFIELD TOWNSHIP BOARD AGENDA

NOTICE OF SPECIAL MEETING

January 26, 2016 - - 6:30 PM 8350 Main Street, 2nd Floor

CALL TO ORDER
PLEDGE/INVOCATION
ROLL CALL
ADOPT BALANCE OF AGENDA
CALL TO THE PUBLIC

CLOSED SESSION PER MCL 15.268(8)(d) – To consider the purchase or lease of real property up to the time an option to purchase or lease that real property is obtained

2nd CALL TO THE PUBLIC BOARD MEMBER COMMENTS ADJOURNMENT

Regular Business Meeting Begins at 7:00 pm

* Denotes previous backup; + denotes no backup in package

Website: www.twp-northfield.org

This notice is posted in compliance with PA 267 of 1976 as amended (Open Meetings Act) MCLA 41.72A (2) (3) and the Americans with Disabilities Act. (ADA) individuals with disabilities requiring auxiliary aids or services should contact the Northfield Township Office, (734-449-2880) seven days in advance.

NORTHFIELD TOWNSHIP BOARD AGENDA January 26, 2016 - - 7:00 PM 8350 Main Street, 2nd Floor

CALL TO ORDER
PLEDGE/INVOCATION
ROLL CALL
ADOPT BALANCE OF AGENDA
CALL TO THE PUBLIC
CORRESPONDENCE AND ANNOUNCEMENTS

AGENDA ITEMS:

- 1. Planning Commission Appointments
- 2. McKenna Contract

DISCUSSION ITEMS

- 1. Sewer Ordinance Memo
- 2. Verizon Cell Tower
- 3. Parks & Recreation Master Plan
- 4. Board Goals for Last Year of Current Term
- 5. Fund Balance policy +

2nd CALL TO THE PUBLIC BOARD MEMBER COMMENTS ADJOURNMENT

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Howard Fink

From:

sjiaquinto@gmail.com on behalf of Sam Iaquinto [samiaquinto@charter.net]

Sent: To: Monday, November 23, 2015 3:47 PM Marilyn Engstrom; Howard Fink

Subject:

Planning Commission

Madam Supervisor,

I Samuel Iaquinto, have enjoyed serving Northfield Township as a Planning Commissioner for the last three years. I bring a balanced perspective to the board being a resident and business owner. I am asking to be reappointed to the Planning Commission for a three year term. I Thank you and the Township Board for the opportunity to serve on the PC board in the past and if allowed to continue I will be blessed. Respectfully

Samuel J Iaquinto 9876 Main Street Whitmore Lake Mi. 48189 734-323-0777

Howard Fink

From:

Larry Roman [romanl@twp.northfield.mi.us]

Sent:

Monday, November 16, 2015 2:19 PM

To:

Marilyn Engstrom

Howard Fink

Cc: Subject:

Planning Commission Term

Dear Marilyn,

I would like to formerly request your consideration for reappointment to the Northfield Township Planning Commission as my current term expires December 2015. I feel my experience and familiarity with several critical upcoming topics facing the Planning Commission could benefit Northfield Township and its stakeholders, and help move our township in a positive direction. Being a Northfield resident for 20 years, a retired building official, plan reviewer, building inspector, and ordinance enforcement officer lends to a unique perspective on matters facing our township currently and in the future.

I also feel fortunate to have served two prior Planning Commission terms while also serving on the Zoning Board of Appeals, offering my honest opinions based on presented facts and common sense in lieu of emotional reaction and assumption. I look forward to further serving Northfield Township, residents, and businesses. Please feel free to contact me on my cell at 734-645-3932 if you have any questions.

Respectfully submitted,

Larry Roman

6431 Whitmore Lake Road

Whitmore Lake, MI 48189

Northfield Township

Marilyn Engstrom

Supervisor

8350 Main Street

Whitmore Lake, MI 48189

Re.: Application for opening on the Planning Commission

Dear Madam Supervisor,

I am very interested to serve on the Northfield Township Planning Commission.

Living and raising my son for more than 20 years in Northfield Township now I would like to serve the public in the function of a Commissioner on the Planning Board.

My qualifications, for one I am serving the public since more than 18 years as a voluntary Mounted Reserves Deputy with Livingston County Sheriff's Office, and I am very familiar with working for the public.

My other qualification are, I am professional Engineer and technical Educator with national and international recognition of successful project accomplices'.

My interest is to serve for the public of Northfield Township because I am following the development

with high interest and good contacts of attending the Township Board and Planning Commission meetings for many years. Now you are looking forward to find interested members of the community in

matters of planning and development of the community, prepare plans and make recommendations for

land-use and the environment where I can be a successful support to Northfield Township.

Here will come also into place my agricultural experience of operating a horse farm since more than 20 years, and the knowledge that Township does exist of the Hamlet and Rural area.

I am looking to hearing from you.

Sincerel

Udo O/ L Hufi

Cell: 734-383-0870

Interested in Planning Commission Opening

Jennifer DeLisle [jennifer.n.delisle@gmail.com]

Sent: To: Tuesday, January 05, 2016 3:29 PM Howard Fink; Marilyn Engstrom

Attachments:2015 Resume.docx (22 KB)

Dear Marilyn and Howard,

I hereby submit my application for the Northfield Township Planning Commission.

I have lived in the township for 12 years. I previously served three years on the planning commission, during which time I attended a variety of training courses around the state at my own expense and worked on a number of sub-committees drafting new ordinances and an update to the master plan. I have since served on the Historical Advisory Commission, the Blue Skies Commission and the Parks and Recreation Commission. I am currently president of the Northfield Township Historical Society. I believe those with whom I have served would attest to my knowledge, dedication, and willingness to listen to all viewpoints.

I am applying because I am very concerned about the state of our township. We should be the jewel of Washtenaw County, and instead we seem to continue to be mired in anger and distrust. The only way I can see to move past this problem is to encourage difficult discussions, listen to and address people's concerns, and find consensus. I would love to help with this worthy project if I can, and to see Northfield Township residents move forward together towards a brighter, friendlier and more welcoming future for us all.

Thank you very much for your consideration.

Sincerely,

Jennifer DeLisle

Jennifer N. DeLisle

7441 Spencer Road South Lyon, Michigan 48178 (734) 449-2188 (home) (734) 545-3590 (cell)

Education

University of Michigan Law School

Ann Arbor, Michigan Juris Doctor, 1992 Note Editor, Michigan Journal of International Law

Rackham School of Graduate Studies, University of Michigan

Ann Arbor, Michigan Master of Arts, Russian & East European Studies, 1992

Michigan State University

East Lansing, Michigan Bachelor of Arts with Honor, Humanities-Interdisciplinary, 1987 Phi Beta Kappa

Experience

Northfield Township Parks & Recreation Commission

2013-present

Northfield Township Historical Society

President, 2013-present Board Member, 2010-present

Northfield Township Blue Skies Commission

2009-2012

Northfield Township Historical Commission

2009-2012

Northfield Township Planning Commission

2006-2008

Baker & McKenzie

Chicago, Illinois Corporate & Securities and IT/C e-Commerce Groups Associate 1998-2003; Staff Attorney 1996-1998

Wardynski & Partners

Warsaw, Poland Foreign Legal Counsel 1992-1994; Summer Clerk 1991

Meklir, Schreier, Nolish & Friedman

Southfield, Michigan Summer Clerk 1989 Renee Mulcrone 366 Glenmoor

Whitmore Lake, MI 48189

January 12, 2016

Dear Supervisor Engstrom and Northfield Township Board Members:

While I am unable to attend tonight's meeting, I encourage you to support Jennifer Delisle for the Planning Commission. Jennifer is a bright, even-keeled, objective person, and would be an excellent addition to the present group. Her dedication to the positive direction of the township is reflected in her continual involvement in the Historical Society and the Parks and Recreation Commission. I previously served with Jennifer on the Planning Commission. Her experience of being a member previously, as well as her passionate participation in our community makes her an excellent candidate.

Thank you for your time.

Regards,

Renee Mulcrone

Kue hum

RE: Planning Commission Vacancy

Craig Warburton [craig@bjwgroup.com]
Sent: Wednesday, January 06, 2016 5:34 PM

To: Marilyn Engstrom Cc: Howard Fink

Attachments: Northfield PC app letter.pdf (333 KB)

Dear Supervisor Engstrom,

I have attached a letter requesting consideration for the planning commission vacancies being filled currently. It was also sent via USPS. The information was not specific as to form of delivery. With all colloquialisms about snowballs and hot places aside, I would be very excited to be considered. I so believe in what this Township is and what it can be without sacrificing the very characteristics that attract us. This is a pivotal point in the maturation of this community, I would so like to be part of the discussion.

Thank you in advance for any consideration,

Craig Warburton

Craig Warburton

450 West Joy Road

Ann Arbor, MI 48105

734-649-7110

January 5, 2016

NORTHFIELD TOWNSHIP

8650 Main Street

Whitmore Lake, MI 48169

Attn Ms. Marilyn Engstrom, Township Supervisor CC

Dear Ms. Engstrom,

It was with great excitement that I read of the upcoming vacancies on the Northfield Township Planning Commission. I wish very much to submit my name as a candidate for one of the available positions. I feel I could be a valuable participant, given the opportunity.

My Wife Brenda and I came to Northfield township in the very early 1990's. We built a house on land we cleared with our own hands and built a home, much with our own hands, while we lived on the property in a temporary dwelling. In 1991 we moved in and since we have raised 2 children, both born and raised in that house. Northfield Township has been the fulfillment of lifelong dreams for us.

I have a BA in Dramatic Arts from Eastern Michigan (Theatre Arts specifically) with a minors in Art and English. My early employment was a nine year period with The Marsh Plating Corporation in Ypsilanti, with duties starting as plant labor and ending in 1987 as General Manager. I left Marsh Plating to be self employed with my wife as BJW Group ,Inc, d.b.a. Austin and Warburton Jewelers in Ann Arbor from 1987 to today. While my childhood years were very transient and I lived in many different states and cities (including London, England), my entire adult life has been in Washtenaw County with Northfield Township at the very center.

My relevant experience is having grown a family in a township that at the same time grew from up from completely part time. Northfield Township is a sophisticated community with sophisticated and complicated wants, needs and desires. We have the unique combinations of woodland, wetland, lake and recreation property that make for very complicated relations. I wish to be part of those conversations and would give 100% if selected.

Thank you in advance for your consideration,

Cray han bunk

Craig Warburton

CC: Mr. Howard Fink, Township Manager

Planning Commission Vacancy

Ron Manley [rmanley@cbwm.com]

Sent: Wednesday, January 06, 2016 7:51 PM

To: Howard Fink

Attachments: Planning Commission.docx (16 KB); Ron Manley resume-Appraise~1.doc (71 KB)

Howard,

Please see attached letter and resume in regards to my interest in the Planning Commission vacancies.

Thanks,

--

Ron Manley

REALTOR | Coldwell Banker Weir Manuel

Office: 734-231-1468 | Fax: (248) 305-1298 | rmanley@cbwm.com

201 Cadycentre, Northville, MI 48167 |

TheRealEstateFamily.com

RON MANLEY

8690 Palma Lane South Lyon, Michigan 48178 Phone: (734) 395-3989 rmanley@cbwm.com

Mr.Fink

I am very interested in the Planning Commission Position opportunity within Northfield Township. I have resided in Northfield Township for almost 9 years. The integrity and development of the Township is very important to my family and me.

My professional experience as a Builder, Real Estate Manager, and Real Estate Broker includes a wide range of construction, real estate projects, and sales. I hold a Bachelor of Science in Construction Management, Real Estate Appraisal License, Real Estate Brokers License, and Builders License. I am also currently enrolled in the State Tax Commission MCAO Program.

I am attaching my resume to provide you with additional details regarding my experience.

I offer quality experience and credentials in construction, project management, and real estate and believe these could benefit Northfield Township and its citizens in regards to the future of the Township. I am available for either a telephone conversation or a personal interview at your earliest convenience. I would welcome the opportunity to learn more about the Planning Commission position. I look forward to your response and our first meeting.

Sincerely,

Ron Manley

Planning Commission Vacancy

pete@peteszerszen.com

Sent: Thursday, December 31, 2015 9:59 AM

To: Howard Fink; Marilyn Engstrom

Attachments:PJSResume.pdf (61 KB)

Dear Sir and Madam:

I am writing to express an interest in the vacancy on the Northfield Township Planning Commission. I have multi-disciplinary experience including work in civil engineering, architecture, planning, management, and implementation of standard operating procedures. I have a passion for civic duty and serving the members of my community. As I live and work in Northfield Township, I have a great respect for the positive attributes that make this community livable and enjoyable and would greatly enjoy the opportunity to help guide responsible growth in the township.

Attached, please find my resume that summarizes my work experience. In addition, I have served on the Bond and Building Steering Committee for Howell Public Schools and as Secretary of the Howell Area Youth Assets Coalition.

Thank you for your review and consideration.

Best regards,

Peter Szerszen

Peter Szerszen

9145 Brookside Drive Whitmore Lake, MI 48189

(810) 923-2145 pete@peteszerszen.com

Objective

To obtain a position with a growing firm that presents ongoing unique challenges and opportunity for growth in the rapidly evolving world of building systems management and energy efficiency design. Willing to relocate for the right position.

Core Competencies

AutoCAD R14-2016 Bluebeam Revu Microsoft Office Suite Carrier Hourly Analysis Program IT Systems Implementation and Repair **Energy Efficiency Engineering** Training and Development

Lighting Design and Retrofit Traffic Engineering Energy Modeling and Analysis Fire Alarm and Life Safety **Architectural Facility Surveys Building Management Systems Facility Management**

Experience

Energy Analyst / Engineer / IT Manager 2012-Present

Energy Design Service Systems Northfield Twp., MI

Responsible for multiple roles pertaining to energy and lighting design, analysis, and consultation. Perform facility surveys and ASHRAE energy audits with an emphasis on lighting, HVAC, and building envelope. Assess and identify energy savings measures. Perform cost segregation studies. Create and maintain standard operating procedures for the company. Manage ancillary staff and projects. Implement, manage, and repair company information technology assets and backhaul. Manage the "lamp portal" consumer procurement system. Serve as the Facility Manager and oversee design and construction of new warehouse facility.

Training Manager 2010-2011

Phoenix Sky Harbor Int'l Airport Parking System

Responsible for the design, development, and implementation of a training program in accordance with City of Phoenix Aviation Department contract standards. Performed new-hire and remedial training for a system staff of more than 300 employees across three shifts in a facility that never closed. Acted as a member of management and assisted with operational tasks and emergency response. Provided coaching and performance assessment of existing employees and participated in the recruitment and evaluation of newhires.

Branch Education Specialist

Arizona Federal Credit Union

2007-2009

Phoenix. AZ

Facing a difficult recession in the Phoenix area, changed focus to provide training and development and assistant branch management of a main branch of this large credit union in the Phoenix area. Ensured compliance with federal regulations, provided new hire and remedial training, acted as a loan officer and assistant branch manager, performed merchant transactions and recruited new employees.

Civil CAD Operator

Kimley-Horn, Inc.

2006-2007

Phoenix, AZ

Working in the highway and traffic division, responsible for the drafting and revision of civil engineering plans for new highway and highway improvement projects, including pavement design, curb and gutter, signage and striping. Adherence to strict MUTCD and ADOT standards. Introduced the "Michigan Turnaround" to the Phoenix area based on existing MDOT standards.

Energy Specialist - Natural Gas Distribution

2005-2006

Consumers Energy Howell, MI

Responsible for the design and crew deployment for new and replacement residential natural gas services within a six-township service area. Performed site surveys, analysis of existing underground plant, meter selection, service lead design, and scheduling of crews for installation of service.

Civil CAD Operator

Atwell-Hicks, Inc.

2001-2005

Brighton, MI

Working in the commercial land development division, responsible for the drafting and revision of civil engineering plans for land development projects, including platting, grading, profiling, storm and sanitary sewer, water main, utilities, and street design. Extensive use of AutoCAD 2000 and Land Development Desktop.

Life Safety Intern

National Time & Signal Corp.

Wixom, MI

Performed NFPA-certified fire alarm commissioning, testing, and troubleshooting services. Systems included digital and analog systems inclusive of pull stations, notification appliances, sprinkler waterflow alarms, smoke and heat detectors, and auto-dialers.

Architectural Intern/Assistant

Lindhout & Associates Architects, A.I.A., P.C.

Brighton, MI

2000 Participated in a summer internship and provided general assistance to a staff of commercial architects. Duties included the plotting and compiling of plan sets, submittals to AHJs, maintenance of the architectural samples library, and revisions of plans.

Education

Diploma (Summa Cum Laude) 2002

Howell High School Howell, MI

Architectural Drafting & Design 2002

Livingston Applied Technology Consortium Hartland, MI

B.S. Technology Management (102/128 Credits Completed) 2002 - Present

Eastern Michigan University Ypsilanti, MI

References

AnneMarie Regnier Program Director (810) 227-3377

Jacob Liu Lighting Designer (734) 730-1830

John Naughton **CAD Instructor** (810) 626-2200

Michael Beaton **HVAC** Technician beaton8980@yahoo.com

Allison Cummings Director of Marketing (734) 645-4041

January 13, 2016

Howard Fink, Twp. Manager

Marilyn Engstrom, Twp. Supervisor

Northfield Township Offices

8350 Main Street

Whitmore Lake, MI 48189

To Whom it May Concern:

My name is Roger Paison and I am interested in the open position on the Northfield Township Planning Commission. My family (myself, wife & 2 daughters) have lived in Northfield Township since 1977.

I am retired from the Kroger Co, where I worked for 46 years – 41 of those years in store management. During my employment at Kroger, I served as Chair and/or board member of the Kemba (Kroger Employees) Credit Union for approx 20 years. I have experience working with local governments in planning & developing new supermarkets and credit union offices in their communities.

I feel my management and planning experience will be an asset to the Township Planning Commission.

Thank you for your consideration.

Roger L Paison

7721 Earhart Rd.

South Lyon, MI 48178

248-437-5597

Planning Commission

secristj@aol.com

Sent: Thu

Thursday, January 07, 2016 10:16 AM

To: Howard Fink

Attachments: Secrist CV July 2015.docx (60 KB)

Mr. Fink:

I sent you a brief note last week indicating a willingness to serve on the PC, but also indicating that I had not previously served on any such body. I provide a CV here, to demonstrate that I h ave served on many other committees, from local to international. I do have sufficient time, since I am now retired from my scientific career, to devote to doing a proper and thorough job. As I noted last time, if there is any interest, I can come in just for a visit. Thanks.

Jack Secrist

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Education

University of Michigan, Ann Arbor, MI	Chemistry, B.S., 1968
University of Illinois, Urbana, IL	Organic Chemistry, N. J. Leonard, Ph.D., 1972
Harvard University, Cambridge, MA	Postdoctoral, E. J. Corey, 1972-1973

Professional Positions

NIH Predoctoral Fellow, University of Illinois	1969-1972
NIH Postdoctoral Fellow, Harvard University	1972-1973
Ohio State University, Columbus, OH, Asst Professor of Chemistry	1973-1979
Southern Research Institute, Birmingham, AL	
Senior Chemist	1979-1980
Head, Bio-Organic Section	1980-1984
Associate Research Director	1984-1986
Research Director, Organic Chemistry Department	1986-1990
Vice President, Organic Chemistry Research	1990-1993
Executive Vice President	1990-1997
Chief Operating Officer	1992-1997
Vice President and Scientific Director, Life Sciences	1997-1998
Vice President, Drug Development Division	2000-2003
Vice President, Drug Discovery Division	1998-2007
President and CEO	2006-2013
President and CEO Emeritus	2013- date

Experience

Dr. Secrist is currently the President and Chief Executive Officer Emeritus of Southern Research Institute. Dr. Secrist joined the staff of Southern Research Institute in 1979, and he has been involved with drug discovery research since that time. He has focused mainly on the development of new anticancer, antiviral and antibacterial agents, largely through support from the National Institutes of Health. He has served on many NIH study sections, including serving as the chair of one of the AIDS-related panels for several years. He has also served regularly as a chair for Army prostate and breast cancer panels. He is on the Editorial Advisory Boards of several journals, is Executive Editor of Nucleosides, Nucleotides & Nucleic Acids and serves as a consultant or member of the Scientific Advisory Board of several companies. During 2003-2004 Dr. Secrist served as the President of the International Society for Nucleosides, Nucleotides & Nucleic Acids. During 2004-2006 Dr. Secrist served as the President of the International Society for Antiviral Research and served as the immediate Past-President of the Society during 2006-2008. At SRI, Dr. Secrist has been involved with the initiation of two startup companies derived from Institute technology. He has published over 160 papers and holds over 60 patents. He holds several appointments at the University of Alabama at Birmingham. He has been an invited lecturer at many universities, companies, and meetings around the world. The anti-cancer drug clofarabine, of which Dr. Secrist is co-inventor with Dr. John Montgomery, was approved by the FDA at the end of 2004.

Awards

Nominated for Alumni Awards for Distinguished Teaching several times, Ohio State University. Finalist for the Colleges of the Arts and Sciences Distinguished Teaching Award, 1976, Ohio State University.

Recipient of the Colleges of the Arts and Sciences Distinguished Teaching Award, 1977, Ohio State University.

Sigma Xi Award, 1972, University of Illinois.

Recipient of the Montgomery Award from the International Society for Nucleosides, Nucleotides & Nucleic Acids, 2006.

AAAS Fellow, elected 2013.

Membership, Professional Society

International Society for Nucleosides, Nucleotides & Nucleic Acids,	
Co-Founder, President-Elect	2000-2002
President	2003-2004
Past President	2005-2006
Board of Directors	2007-2008
Member, Advisory Committee	2008-2010
International Society for Antiviral Research,	2000 2010
Treasurer	1994-2002
President-Elect	2002-2004
President	2002-2004
Past President	2004-2008
American Association for Cancer Research	2000-2008
Member, Chemistry in Cancer Research Committee	2000-2008
Member, AACR Exhibit Committee	2001-2004
American Chemical Society	2001-2004
National Committees	
Organic Subcommittee of the ACS Examinations	
Committee, Member 1975-77, 1979-81, 1983-86, 1989	01 1002 04
Smissman Award Nominating Committee, Medicinal	-91, 1992-94
Chemistry Division, ACS, Member	1984
Awards Committee, Medicinal Chemistry Division,	1704
ACS, Member	1984-1985
ACS, Member ACS Nomenclature Committee, Member	1984-1983 1986- date
ACS Nomenclature Committee, Member ACS Nomenclature Committee, Chairman	1980- date
Local Committees	1994-1997
Columbus, Ohio Section – served on or chaired several committees	1974-1978
Alabama Section – served on or chaired several committees	1981-1983
Royal Society of Chemistry	1701-1703
American Association for the Advancement of Science	
American Association for the Advancement of Science	
Professional Activities	
Executive Editor, Nucleosides, Nucleotides & Nucleic Acids,	
(formerly Nucleosides & Nucleotides)	1982- date
NIH Bio-organic and Natural Products Study Section, Ad Hoc Member	1983
NIH Medicinal Chemistry Study Section, Ad Hoc Member	1986
NIH Experimental Therapeutics Study Section, AIDS & Related	
Research Group, Ad Hoc Member	1986-1990
NIH AIDS and Related Research Study Section, Member	1990-1994
NIH AIDS and Related Research Study Section, Chairman	1990-1992
NIH Review Panels, Frequent Ad Hoc Member	1992-2006
U.S. Army Breast Cancer Panel, Member	1996, 1997
U.S. Army Breast Cancer Panel, Chairman 2000, 2001, 2006,	
	1999, 2001
U.S. Army Prostate Cancer Panel, Member	2000
Editorial Advisory Board, Journal of Medicinal Chemistry	1990-1995
Editorial Advisory Board, Antiviral Research	1992- date
Editorial Advisory Board, Antiviral Chemistry and Chemotherapy	1995- date
Editorial Advisory Board, Current Opinions in Oncologic, Endocrine, and Metabolic Drugs	1998-2002
Editorial Advisory Board, Future Virology	2005- date
Board of Alabama Coalition for Mathematics	1992-1998
Member, Scientific Advisory Board, ViraChem, Inc.	1990-1994
Member, Scientific Advisory Board, Teknagen, Inc.	1995-2000
	1775-2000

'SECRIST, JOHN A., III - 3 of 25

Member, Scientific Advisory Board, PNP Therapeutics, Inc.	2001- date
Member, Auburn University Research Advisory Board	2009- date
Consultant, Gensia Pharmaceuticals, Inc.	1992-1996
Consultant, BioCryst Pharmaceutical Co.	1997-2006
Consultant, Ash Stephens, Inc.	2014- date
Member, Board of Directors, Southern Biosystems, Inc.	1992-1997
Member, Board of Directors, Brookwood Pharmaceuticals, Inc.	2005-2007
Adjunct Scientist, University of Alabama at Birmingham Comprehensive Cancer Center	
Adjunct Scientist, University of Alabama at Birmingham Center for AIDS Research	
Adjunct Professor, University of Alabama at Birmingham Department of Chemistry	

U. S. and World Patents

- 1. Barrio, J. R.; Dammann, L. G.; Leonard, N. J.; Secrist, J. A. III. Fluorescent Derivatives of Cytosine-Containing Compounds. *U. S. Patent* 3,893,998 (1975).
- 2. Barrio, J. R.; Leonard, N. J.; Secrist, J. A. III; Weber, G. Fluorescent Derivatives of Adenine-Containing Compounds. U. S. Patent 3,960,840 (1976).
- 3. Secrist, J. A. III. New 5'-Deoxy-5'-Substituted Adenosine Compounds are Inhibitors of S-Adenosylmethionine Decarboxylase Useful as Antiviral, Antiparasitic and Anticancer Agents. U. S. Patent 4,794,174 (1988).
- 4. Ealick, S. E.; Erion, M. D.; Guida, W. C.; Montgomery, J. A.; Niwas, S.; Secrist, J. A. III. 2-Amino-7-(pyridinylmethyl)-3H,5H-pyrrolo[3,2-d]pyrimidin-4-ones Derivatives as Purine Nucleoside Phosphorylase and T-cell Inhibitors and for Potentiator of Antiviral or Antitumor Nucleoside(s). U. S. Patent 4,985,433 (1991).
- 5. Ealick, S. E.; Erion, M. D.; Guida, W. C.; Montgomery, J. A.; Niwas, S.; **Secrist, J. A. III.** New 2-Amino-7-cyclohex(en)yl-3*H*,5*H*-pyrrolo (3,2-*d*)-pyrimidine-4-one(s) Used to Suppress T-cell Function Selectively Without Diminishing Humoral Immunity, for Treating Auto-immune Diseases and AIDS. *U. S. Patent* 4,985,434 (1991).
- 6. Ealick, S. E.; Erion, M. D.; Guida, W. C.; Montgomery, J. A.; Niwas, S.; Secrist, J. A. III New 2-Amino-7-(alicyclomethyl)-3*H*,5*H*-pyrrolo[3,2-*d*]pyrimidin-4-one(s) are Purine Phosphorylase Inhibitors Which Selectively Suppress T-cell Function, for Treating Auto-immune Diseases, etc. *U. S. Patent* 5,008,265 (1991).
- 7. Ealick, S. E.; Erion, M. D.; Guida, W. C.; Montgomery, J. A.; Niwas, S.; Secrist, J. A. III. New 2-Amino-7-(heterocyclomethyl)-3*H*,5*H*-pyrrolo[3,2-*d*]pyrimidin-4-one(s) are Purine Nucleoside Phosphorylase Inhibitors Which Selectively Suppress T-cell function, for Treating Auto-immune Diseases. *U. S. Patent* 5,008,270 (1991).
- 8. Montgomery, J. A.; Secrist, J. A. III. New 2-Halo-9-(arabinofuranosyl)adenine Nucleoside Derivatives Having Anticancer Activity Used to Treat For Example Chronic Lymphocyte Leukemia. *World Patent* 9,014,352 (1990). *U. S. Patent* 5,034,518 (1991).
- 9. Montgomery, J. A.; **Secrist, J. A. III.** New 2'-Deoxy-4'-thio ribonucleoside(s) Useful as Antiviral and Anticancer Agents. *World Patent* 9,104,033 (1991).
- 10. Ealick, S. E.; Erion, M. D.; Guida, W. C.; Montgomery, J. A.; Niwas, S.; Secrist, J. A. III. 7-Substituted-3*H*,5*H*-Pyrrolo[3,2-*d*]pyrimidine-4-one Derivatives are Inhibitors of Purine Nucleoside Phosphorylase and are Used in Anticancer and Antiviral Treatment. *World Patent* 9,106,548 (1991).

- 11. Krauth, C. A.; Montgomery, J. A.; Secrist, J. A. III. New Substituted 1-(Benzyloxy)-adenosine Derivatives Are Used for Treating Vaccinia Virus Infections. U. S. Patent 5,102,873 (1992).
- 12. Montgomery, J. A.; Secrist, J. A. III. New 2',3'-Dideoxy-4'-thio ribonucleoside Derivatives Used for Treating HIV Infection and Inhibiting Cytopathogenic Effects Induced by HIV Virus. *World Patent* 9,116,333 (1991). *U. S. Patent* 5,128,458 (1992).
- 13. Ealick, S. E.; Erion, M. D.; Guida, W. C.; Montgomery, J. A.; Niwas, S.; Secrist, J. A. III. New Pyrrolo[3,2-d]pyrimidine Derivatives are Purine Nucleoside Phosphorylase Inhibitors Useful for the Suppression of T-Cell Immunity. *U. S. Patent* 5,189,039 (1993).
- 14. Montgomery, J. A.; Secrist, J. A. III. Antiviral Compounds Containing Carbocyclic 3-deaza-adenosine or Derivative with One Stereoisomer in Excess, Having Stronger Activity than Racemate, Active Against RNA Virus Especially Parainfluenza, Rotavirus and Respiratory Syncytial Virus. World Patent 9,418,971 (1994).
- 15. Montgomery, J. A.; Secrist, J. A. III. New 2',3'-Di Deoxy-4-thio-ribonucleoside(s) Useful as Antiviral Agents, exp Against HIV. World Patent 9,511,685 (1995). U. S. Patent 5,478,928 (1995).
- 16. Maddry, J. A.; Reynolds, R. C.; Secrist, J. A. III; Montgomery, J. A. Polynucleotide Analogs Containing Sulfonate and Sulfonamide Internucleoside Linkages – Used as Antisense Agents, Chemotherapeutic Agents, Antiparasitics Targeted Against Other Organisms and Molecular Biological, Biochemical or Genetic Probes. U. S. Patent 5,561,225 (1996).
- 17. Ealick, S. E.; Erion, M. D.; Montgomery, J. A.; Secrist, J. A. III. Deazaguanine Derivatives Preparation Used for Inhibiting Purine Nucleoside Phosphorylase in Treatment of Auto-Immune Disorders, Transplant Rejection, Psoriasis and Gout. *World Patent* 9,010,631 (1990). *U. S. Patent* 5,565,463 (1996).
- 18. Montgomery, J. A.; **Secrist, J. A. III**. New 2'-Deoxy-4'-thio Ribonucleoside Compounds Are Useful as Antiviral and Anticancer Agents. *U. S. Patent* 5,591,722 (1997).
- Montgomery, J. A.; Secrist, J. A. III. New 2'-Fluoro-2-substituted Adenine Arabinoside(s) Are Anticancer Agents Which Inhibit Ribonucleotide Reductase and DNA Polymerase. World Patent 9,220,347 (1992). U. S. Patent 5,661,136 (1997).
- Jacobson, K. A.; Jeong, H. K.; Johnson, C. R.; Secrist, J. A. III; Siddiqi, S. M.; Tiwari, K. N. New Substituted Adenine Derivatives – Are A₃ Adenosine Receptor Agonists, Useful for Treating e.g. Inflammatory Disorders, Cardiac Disorders, Neurological Disorders. U. S. Patent 5,688,774 (1997).
- 21. **Secrist, J. A. III**; Erion, M. D.; Montgomery, J. A.; Ealick, S. E. 9-Substituted-8-Unsubstituted-9-Deazaguanines. *U. S. Patent* 5,721,240 (1998).
- 22. Ealick, S. E.; Erion, M. D.; Guida, W. C.; Montgomery, J. A.; Niwas, S.; Secrist, J. A. III. New Purine Nucleoside Phosphorylase Inhibitors Are (3,2-D)Pyrimidine Compounds Used to Treat Auto-immune Disease, Transplant Rejection, Psoriasis, etc. and to Inhibit Destruction of Other Pharmaceuticals. *World Patent* 9,321,187 (1993). *U. S. Patent* 5,726,311 (1998).
- 23. Bennett, L. L.; Montgomery, J. A.; Parker, W. B.; Scheer, D. I.; Secrist, J. A. III; Shealy, Y. F.; New Carbocyclic Deoxy-guanosine Analogs to Treat Viral Infections Comprise D-stereoisomer of Carbocyclic 2'-Deoxy-guanosine to Treat Herpes Simplex Viruses (I) and (II), Cytomegalovirus and Hepatitis B. World Patent 9,418,979 (1994). U. S. Patent 6,001,840 (1999).

- Blatter, H. M.; Kahn, D. R.; Piper, J. R.; Secrist, J. A. III; Struck, R. F.; Temple, C. Prevention or Treatment of Acute Allograft Rejection Comprises Administration of Cyclohexane or Piperidine Derivative. U. S. Patent 6,503,948 (2003).
- 25. **Secrist, J. A. III**; Tiwari, K.N.; Montgomery, J. A. Preparation of Thioarabinofuranosyl Compounds and Use Thereof. *U. S. Patent* 6,576,621 (2003).
- 26. Montgomery, J. A.; **Secrist, J. A. III**; Tiwari, K. N. Treating Cancers, e.g. Melanoma, Prostate, Mammary, Renal, Colon and Lung Cancer, Leukemias and Lymphomas by Administering DNA Replication Inhibitor. *U. S. Patent* 6,870,052 (2005).
- 27. Montgomery, J. A.; Secrist, J. A. III; Tiwari, K. N. New 4'-Thio-L-xylofuranosyl Nucleoside Derivatives Useful as Anticancer and Antiviral Agents. *U. S. Patent* 6,914,061 (2005).
- 28. Fowler, A. T.; Montgomery, J. A.; **Secrist, J. A. III**. Preparation of 2-Chloro-9-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-9*H*-purin-6-amine, Used as Chemotherapeutic Agent by Reacting 2-Chloro-6-alkoxypurine Nucleoside with Ammonia. *U. S. Patent* 6,949,640 (2005).
- 29. Ealick, S. E.; Parker, W. B.; Secrist, J. A. III; Sorscher, E. J. Mutant Purine Nucleoside Phosphorylase Proteins and Cellular Delivery Thereof. U. S. Patent 7,037,718 (2006).
- 30. **Secrist, J. A. III**; Tiwari, K. N.; Montgomery, J. A. Preparation of Thioarabinofuranosyl Compounds and Use Thereof. *U. S. Patent* 7,138,385 (2006).
- 31. Secrist, J. A. III; Tiwari, K. N.; Montgomery, J. A. 4'-Thio-L-xylofuranosyl Nucleosides, Precursors Thereof, Preparation and Use Thereof. U. S. Patent 7,148,223 (2006).
- 32. Arasappan, Ashok; Njoroge, George F.; Kwong, Cecil D.; Ananthan, Subramaniam; Bennett, Frank; Clark, Jeremy; Geng, Feng; Girijavallabhan, Vinay M.; Huang, Yuhua; Kezar, Hollis S. III; Maddry, Joseph A.; Reynolds, Robert C.; Roychowdhury, Abhijit; Fowler, Anita T.; Secrist, John A. III; Kozlowski, Joseph A.; Shankar, Bandarpalle B.; Tong, Ling; Kim, Seong Heon; MacCoss, Malcolm. Substituted pyridine and pyrimidine derivatives as antiviral agents and their preparation and use in treating viral infections. US 2010-305722P, WO 2011-US25453.

Abstracts

- 1. **Secrist, J. A. III**; Barrio, J. R.; Leonard, N. J. A Fluorescent ATP for Enzyme Studies. *163rd ACS National Meeting*, Boston, MA, April 9-14, 1972. *Abstr. Pap. Am. Chem. Soc.*, 163, MEDI 28 (1972).
- 2. **Secrist, J. A. III**; Barrio, J. R.; Leonard, N. J. Fluorescent Modifications of Adenine Containing Coenzymes Representative of Enzyme Studies. *FASEB Meeting*, Atlantic City, 1972. *Fed. Proc.*, 31, 494 (1972).
- 3. **Secrist, J. A. III**; Wu, S.-R. Generation of Reactivity of an Unstabilized Carbohydrate Phosphorane. *174th ACS National Meeting*, Chicago, IL, August 28-September 2, 1977. *Abstr. Pap. Am. Chem. Soc.*, 174, 4 (1977).
- 4. **Secrist, J. A. III**; Cook, S. L.; Winter, Jr., W. J. Some Reactions of Nucleoside 4N,5N-Enol Acetates and 4N,5N-Enamines. *174th ACS National Meeting*, Chicago, IL, August 28-September 2, 1977. *Abstr. Pap. Am. Chem. Soc.*, 174, 23 (1977).
- 5. Cousineau, T. J.; Secrist, J. A. III. The Synthesis of Certain Thiazole and Fused-Ring \(\frac{1}{2}\)-D-Ribofuranosyl C-Nucleosides. 13th Great Lakes Regional Meeting of the American Chemical Society, Rockford, IL, June, 1979.

- 6. Secrist, J. A. III; Barnes, K. D. Progress Toward the Synthesis of the Nucleoside Antibiotic Tunicamycin. Second Chemical Congress of the North American Continent, San Francisco, CA, August 24-29, 1980. Abstr. Pap. Am. Chem. Soc., 180, CARB 7 (1980).
- 7. Secrist, J. A. III; Shortnacy, A. T.; Montgomery, J. A. 2-Substituted-8-Azaadenosines: Synthesis and Biologic Activity. 183rd ACS National Meeting, Las Vegas, NV, March 28-April 2, 1982. Abstr. Pap. Am. Chem. Soc., 183, MEDI 74 (1982).
- 8. Secrist, J. A. III; Montgomery, J. A.; Bowdon, B. J.; Bennett, Jr., L. L. 8-Haloadenine Nucleosides: Synthesis and Biologic Activity. 183rd ACS National Meeting, Las Vegas, NV, March 28-April 2, 1982. Abstr. Pap. Am. Chem. Soc., 183, MEDI 75 (1982).
- 9. Shortnacy, A. T.; Montgomery, J. A.; Secrist, J. A. III. 5N-Substituted-2-Fluoroadenosines as Prodrugs. 34th Southeastern Regional ACS Meeting, Birmingham, AL, November 3-5, 1982. Abstr. Pap. Am. Chem. Soc., #83, (1982).
- 10. Clayton, S. D.; Montgomery, J. A.; Secrist, J. A. III. Carbocyclic Tubercidin, a Potent Cytotoxic Agent. 34th Southeastern Regional ACS Meeting, Birmingham, AL, November 3-5, 1982. Abstr. Pap. Am. Chem. Soc., #90, (1982).
- 11. Savarese, T. M.; Parks, R. E.; Secrist, J. A. III; Montgomery, J. A. Action of Novel 2-Fluoroadenine-Substituted Analogs of 5N-Deoxy-5N-methylthioadenosine (MTA). 74th Meeting of the American Association for Cancer Research, San Diego, CA, May 25-28, 1983. *Proc. Am. Assoc. Cancer Res.*, 24, 298 (1983).
- 12. Huang, M. C.; Avery, T. L.; Montgomery, J. A.; Secrist, J. A. III; Blakley, R. L. Cytocidal Activities of 2-Bromo-2N-Deoxyadenosine in Cultured Human-Leukemic Cells and Its Therapeutic Performance Against L1210 Leukemia in Mice. 74th Meeting of the American Association for Cancer Research, San Diego, CA, May 25-28, 1983. Proc. Am. Assoc. Cancer Res., 24, 302 (1983).
- 13. Huang, M. C.; Koob, R.; Avery, T. L.; Blakley, R. L.; Montgomery, J. A.; Secrist, J. A. III. An Improved Synthesis and Mode of Action of 2-Bromo-2N-deoxyadenosine. 75th Meeting of the American Association for Cancer Research, Toronto, Ontario, Canada, May 9-12, 1984. Proc. Am. Assoc. Cancer Res., 25, 346 (1984).
- Bennett, Jr., L. L.; Chang, C.-H.; Allan, P. W.; Adamson, D. J.; Rose, L. M.; Brockman, R. W.; Secrist, J. A. III; Shortnacy, A.; Montgomery, J. A. Metabolism and Metabolic Effects of Halopurine Nucleosides in Tumor Cells in Culture. 6th International Round Table Meeting, La Grande Motte, France, October 9-12, 1984. Nucleosides Nucleotides, 4, 107 (1985).
- Secrist, J. A. III; Shortnacy, A.; Montgomery, J. A. 2-Fluoroformycin and 2-Aminoformycin. Synthesis and Biologic Activity. 190th ACS National Meeting, Chicago, IL, September 6-12, 1985. Abstr. Pap. Am. Chem. Soc., 190, CARB 34 (1985).
- 16. Shortnacy, A. T.; Secrist, J. A. III; Montgomery, J. A. 2-Halo-9-(2-deoxy-2-Substituted-∃-D-arabinofuranosyl)adenines: Synthesis and Biologic Activity. 37th Southeast/Southwest Regional Meeting, Memphis, TN, 1985. Abstr. Pap. Am. Chem. Soc., #222 (1985).
- 17. **Secrist, J. A. III.** The Use of Carbohydrate Ylides in Natural Products Synthesis. *191st ACS National Meeting*, New York, NY, April 13-18, 1986. *Abstr. Pap. Am. Chem. Soc.*, 191, CARB 42 (1986).

- 18. Secrist, J. A. III. New Substrate Analogues as Inhibitors of S-Adenosylmethionine Decarboxylase. 7th International Round Table Meeting, Konstanz, Germany, September 30-October 3, 1986.
- 19. Madhubala, R.; Secrist, J. A. III; Pegg, A. E. Properties of L1210 Cells Resistant to Alpha Difluoromethylornithine DMFO. 78th Annual Meeting of the American Society of Biological Chemists, Philadelphia, PA, June 7-11, 1987. Fed. Proc., 46, 2254 (1987).
- 20. Secrist, J. A. III; Forrister, W. B.; Moss, III, T. H.; White, E. L.; Shannon, W. M.; Arnett, G.; Pegg, A. E. Inhibitors of S-Adenosyl-methionine Decarboxylase. Synthesis and Biological Activity. 194th ACS National Meeting, New Orleans, LA, August 30-September 4, 1987. Abstr. Pap. Am. Chem. Soc., 194, CARB 13 (1987).
- 21. Arnett, G.; Rose, L. M.; White, E. L.; Forrister, W. B.; Moss, III, T. H.; Brockman, R. W.; Shannon, W. M.; Secrist, J. A. III. New Inhibitors of Polyamine (PA) Biosynthesis and Their Effect on the Replication of Human Cytomegalovirus (HCMV). 2nd International Conference on Antiviral Research, Williamsburg, VA, April 10-14, 1988. Antiviral Res., 9, 110 (1988).
- 22. **Secrist, J. A. III.** The Synthesis and Biological Activity of Sugar and Base-Modified Nucleosides. 15th Symposium on Nucleic Acid Chemistry, Sapporo, Japan, September 19-21, 1988. Nucleic Acids Symposium Series No. 20, 37-38 (1988).
- 23. Shortnacy, A. T.; Montgomery, J. A.; Secrist, J. A. III. 8-Substituted Purine Ribosides: Synthesis and Biological Activity. 8th International Round Table Meeting, Orange Beach, AL, October 2-5, 1988. Nucleosides Nucleotides, 5/6, 911-913 (1989).
- 24. Krauth, C. A.; Shortnacy, A. T.; Montgomery, J. A.; Secrist, J. A. III. Synthesis and Antiviral Evaluation of Adenosine-N¹-oxide and 1-(Benzyloxy) Adenosines. 8th International Round Table Meeting, Orange Beach, AL, October 2-5, 1988. Nucleosides Nucleotides, 5/6, 915-917 (1989).
- 25. Riggs, R. M.; Comber, R. N.; Montgomery, J. A.; Secrist, J. A. III; Leeds, J. M.; Chaffee, S.; Hershfield, M. S. Phosphate Modified Analogues of 5N-O-Phosphorylated 2N,3N-Dideoxynucleosides: Synthesis and Anti-HIV Activity. 8th International Round Table Meeting, Orange Beach, AL, October 2-5, 1988. Nucleosides Nucleotides, 5/6, 1119-1120 (1989).
- 26. Elliott, R. D.; Niwas, S.; Montgomery, J. A.; Secrist, J. A. III. Progress in the Synthesis of a Potential PNP Transition State Inhibitor. 8th International Round Table Meeting, Orange Beach, AL, October 2-5, 1988. Nucleosides Nucleotides, 5/6, 1103-1105 (1989).
- 27. **Secrist, J. A. III**; Brash, R. M.; Gray, R. J.; Comber, R. N.; Montgomery, J. A. Synthesis of 5N-Substituted Analogues of Carbocyclic 3-Deazaadenosine as Potential Antivirals. *8th International Round Table Meeting*, Orange Beach, AL, October 2-5, 1988. *Nucleosides Nucleotides*, 5/6, 1153-1154 (1989).
- 28. **Secrist, J. A. III**; Montgomery, J. A. Analogs of Fludarabine Resistant to Metabolic Cleavage. 8th Meeting of the American Association for Cancer Research, San Francisco, CA, May 24-27, 1989. Proc. Am. Assoc. Cancer Res., 30, 593 (1989).
- Arnett, G.; Kirkman, R. L.; Toyer, B. R.; Hollingshead, M. G.; Krauth, C. A.; Secrist, J. A. III; Shannon, W. M.; Huggins, J. H. Evaluation of Compounds for Activity Against Vaccinia Virus In Vitro and In Vivo. 29th Interscience Conference on Antimicrobial Agents and Chemotherapy, Houston, TX, September 17-20, 1989.
- 30. **Secrist, J. A. III.** Nomenclature of Variant Proteins. *International Chemical Congress of Pacific Basin Societies*, Honolulu, HI, December 17-22, 1989.
- 31. Tiwari, K. N.; Secrist, J. A. III; Montgomery, J. A. Synthesis and Biological Activity of 2N-

- Deoxy-4N-thionucleosides. 199th ACS National Meeting, Boston, MA, April 22-27, 1990. Abstr. Pap. Am. Chem. Soc., 199, MEDI 25 (1990).
- 32. Secrist, J. A. III; Riggs, R. M.; Tiwari, K. N.; Shannon, W. M.; Kahlon, J. B.; Montgomery, J. A. Synthesis and Anti-HIV Activity of 2N,3N-Dideoxy-4N-thionucleosides. *Third International Conference on Antiviral Research*, Brussels, Belgium, April 22-27, 1990. *Antiviral Res., Suppl. 1*, 48 (1990).
- 33. Fridland, A.; Bondoc, L.; Shannon, W. M.; Secrist, J. A. III; Vince, R. Studies of the Cellular Pharmacology of the Carbocyclic Guanosine Analog Carbovir, an Inhibitor of the Human Immunodeficiency Virus. *Third International Conference on Antiviral Research*, Brussels, Belgium, April 22-27, 1990. *Antiviral Res., Suppl. 1*, 73 (1990).
- 34. Noker, P. E.; Nuchols, P. A.; Hill, D. L.; **Secrist, J. A. III.** Disposition of Halogenated Derivatives of 2N-Deoxyadenosine and 2N-Fluoroarabinosyladenine in Mice. *Meeting of the American Society for Pharmacology and Experimental Therapeutics*, Milwaukee, WI, August 12-16, 1990.
- 35. Shortnacy, A. T.; Clayton, S. D.; Montgomery, J. A.; Secrist, J. A. III. Synthesis and Biological Activity of 2-Halo-9-(2-deoxy-2-fluoro-∃-D-arabinofuranosyl)adenines. 42nd Southeast/46th Southwest ACS Meeting, New Orleans, LA, December 5-7, 1990. Abstr. Pap. Am. Chem. Soc., 331 (1990).
- 36. Elliott, R. D.; Niwas, S.; Riordan, J. M.; Bennett, Jr., L. L.; Allan, P. W.; Montgomery, J. A.; Secrist, J. A. III. Synthesis of 9-(1-Deoxy-1-phosphono-\(\frac{3}{2}\)-D-psicofuranosyl)-1,9-dihydro-6*H*-purin-6-one as a Potential Transition State Analog Inhibitor of PNP. 42nd Southeast/46th Southwest ACS Meeting, New Orleans, LA, December 5-7, 1990. Abstr. Pap. Am. Chem. Soc., 332 (1990).
- 37. Kahlon, J. B.; White, E. L.; Buckheit, R. W.; Riggs, R. M.; Tiwari, K. N.; Secrist, J. A. III; Shannon, W. M. *In Vitro* Evaluation of a Series of 2N,3N-Dideoxy-4N-thiopurine and 2N,3N-Dideoxy-4N-thiopyrimidine Nucleoside Analogs for Activity Against HIV-1. *Advances in Molecular Biology and Targeted Treatments for AIDS*, Washington, DC, 1990.
- 38. Maddry, J. A.; Crooks, P. A.; Reynolds, R. C.; Secrist, J. A. III; Montgomery, J. A. Synthesis of Oligonucleotide Analogs Containing Sulfonate Ester and Sulfonamide Internucleoside Linkages. 201st ACS National Meeting, Atlanta, GA, April 14-19, 1991. Abstr. Pap. Am. Chem. Soc., 201, MEDI 101 (1991).
- 39. Crooks, P. A.; Reynolds, R. C.; Maddry, J. A.; Rathore, A.; Secrist, J. A. III; Montgomery, J. A. Preparation and Utility of Nucleoside Sultones. *201st ACS National Meeting*, Atlanta, GA, April 14-19, 1991. *Abstr. Pap. Am. Chem. Soc.*, 201, MEDI 102 (1991).
- 40. Montgomery, J. A.; Ealick, S. E.; Babu, S.; Bugg, C. E.; Erion, M. D.; Guida, W. C.; Secrist, J. A. III. Structure-Based Drug Design: Inhibitors of Purine Nucleoside Phosphorylase (PNP). 75th FASEB Meeting, April 21-25, 1991. Fed. Am. Soc. Exp. Biol., J5, A2205 (1991).
- 41. Parker, W. B.; White, E. L.; Shaddix, S. C.; Rose, L. M., Secrist, J. A. III; Shannon, W. M. Interaction of the 5N-Triphosphate of the Carbocyclic Analog of 2N-Deoxyguanosine with Human Immunodeficiency Virus Type-I Reverse Transcriptase. 4th International Conference on Antiviral Research, New Orleans, LA, April 21-26, 1991. Antiviral Res., Suppl. 1, 91 (1991).
- 42. **Secrist, J. A. III**; Montgomery, J. A.; Ealick, S. E.; Bugg, C. E.; Babu, S.; Erion, M. D.; Guida, W. C. Structure-Based Drug Design: Inhibitors of Purine Nucleoside Phosphorylase (PNP). J. 4th International Conference on Antiviral Research, New Orleans, April 21-26, 1991. Antiviral Research.

- Suppl. 1, 118 (1991).
- Montgomery, J. A.; Ealick, S. E.; Babu, Y. S.; Bugg, C. E.; Erion, M. D.; Guida, W. C.; Secrist, J. A. III. Structure-Based Drug Design: Inhibitors of Purine Nucleoside Phosphorylase (PNP). 82nd Annual Meeting of the American Association for Cancer Research, May 15-18, 1991. Proc. Am. Assoc. Cancer Res., 32, 417 (1991).
- Montgomery, J. A.; Ealick, S. E.; Babu, Y. S.; Bugg, C. E.; Erion, M. D.; Guida, W. C.; Secrist, J. A. III. Structure-Based Drug Design: Inhibitors of Purine Nucleoside Phosphorylase (PNP). 202nd ACS National Meeting, New York, NY, August 25-30, 1991. Abstr. Pap. Am. Chem. Soc., 202, MEDI 5 (1991).
- 45. Niwas, S.; Rose, J. D.; Bennett, Jr., L. L.; Allan, P. W.; Montgomery, J. A.; Secrist, J. A. III. Purine Nucleoside Phosphorylase Inhibitors: Synthesis and Biological Activity of 9-Deaza-9-Substituted Guanines. 202nd ACS National Meeting, New York, NY, August 25-30, 1991. Abstr. Pap. Am. Chem. Soc., 202, MEDI 28 (1991).
- 46. Rose, J. D.; Forrister, Jr., W. B.; Moss, III, T. H.; White, E. L.; Arnett, G.; Rose, L. M.; Shannon, W. M.; Secrist, J. A. III. Structure Activity Relationships of New Inhibitors of S-Adenosylmethionine Decarboxylase and Their Effect on the Replication of Human Cytomegalovirus. 5th International Conference on Antiviral Research, Vancouver, B.C., Canada, March 8-13, 1992. Antiviral Res., Suppl. 1, 111 (1992).
- 47. Gabrielsen, B.; Monath, T. P.; Rankin, J. T.; Huggins, J. W.; Kefauver, D. F.; Kwong, C. D.; Krauth, C. A.; Secrist, J. A. III; Huffman, J. H.; Smee, D. F.; Sidwell, R. W. Synthesis and In Vivo Anti-RNA-Viral Evaluation of a Phosphoramidate Derivative of 6-Azauridine; Orotidylic Acid Decarboxylase Inhibitors, Pyrazofurin and 6-Azauridine; and 2-Thio-6-azauridine and Its Triacetate. 5th International Conference on Antiviral Research, Vancouver, B.C., Canada, March 8-13, 1992. Antiviral Res., Suppl. 1, 199 (1992).
- 48. Gabrielsen, B.; Huggins, J. W.; Blough, H. A.; Monath, T. P.; Kirsi, J. J.; Kwong, C. D.; Hanna, L. K.; Krauth, C. A.; Secrist, J. A. III; Shannon, W. M. Syntheses of a Series of 6-Substituted Pyrimidines Including Orotidylic Acid Decarboxylase Inhibitors and *In Vitro* Evaluation of Their Antiviral Efficacy. 5th International Conference on Antiviral Research, Vancouver, B.C., Canada, March 8-13, 1992. Antiviral Res., Suppl. 1, 200 (1992).
- 49. Niwas, S.; Rose, J. D.; Allan, P. W.; Bennett, Jr., L. L.; Montgomery, J. A.; Secrist, J. A. III. Structure-Based Drug Design: 2-Amino-1,5-dihydro-7-[[(∀-aryl-or alicyclic)-∀-(2-Substituted ethyl)]methyl]-4H-pyrrolo[3,2-d]pyrimidin-4-ones as Inhibitors of Purine Nucleoside Phosphorylase. 203rd ACS National Meeting, San Francisco, CA, April 5-10, 1992. Abstr. Pap. Am. Chem. Soc., 203, MEDI 23 (1992).
- 50. **Secrist, J. A. III.** Nucleosides as Anticancer and Antiviral Agents: Past, Present, and Future. 203rd ACS National Meeting, San Francisco, CA, April 5-10, 1992. Abstr. Pap. Am. Chem. Soc., 203, CARB 24 (1992).
- 51. Parker, W. B.; Shaddix, S. C.; Tiwari, K. N.; Secrist, J. A. III; Montgomery, J. A.; Bennett, Jr., L. L. Mechanism of Action of 4N-Thiothymidine. 83rd American Association for Cancer Research Meeting, San Diego, CA, May 20-23, 1992. Proc. Am. Assoc. Cancer Res., 33, 3250 (1992).
- 52. Waud, W. R.; Schmid, S. M.; Harrison, Jr., S. D.; Secrist, J. A. III; Montgomery, J. A. Preclinical Antitumor Activity of 2-Chloro-9-(2-deoxy-2-fluoro-3-D-arabinofuranosyl)adenine. 83rd American Association for Cancer Research Meeting, San Diego, CA, May 20-23, 1992. Proc. Am. Assoc. Cancer Res., 33, 3257 (1992).

- 53. Secrist, J. A. III; Tiwari, K. N.; Montgomery, J. A. Synthesis and Biological Activity of 4N-Thionucleosides. *10th International Round Table Meeting*, Park City, UT, September 16-20, 1992.
- 54. White, E. L.; Arnett, G.; Secrist, J. A. III; Shannon, W. M. Characterization of S-Adenosylmethionine Decarboxylase Induced by Human Cytomegalovirus. 6th International Conference on Antiviral Research, Venice, Italy, April 25-30, 1993.
- 55. Tiwari, K. N.; Montgomery, J. A.; **Secrist, J. A. III**. The Synthesis and Biological Activity of 1-(2-Deoxy-4-thio-∀--threo-pentofuranosyl)thymine. Gordon Research Conference, Kingston, RI, July 4-9, 1993.
- Suling, W. J.; Bansal, N.; Bermudez, L. E.; Comber, R. N.; Friedrich, J. A.; Maddry, J. A.; McNeil, M. R.; Reynolds, R. C.; Rose, J. D.; Wilson, L. N., Secrist, J. A. III. Design, Synthesis and Evaluation of Putative Cell Wall Inhibitors of Mycobacterium avium Complex (MAC). 35th ICAAC, San Francisco, CA, September 17-20, 1995.
- 57. Allan, P. W.; Parker, W. B.; Arnett, G.; Rose, L. M.; Shaddix, S. C.; Shewach, D. S.; Fourel, I.; Secrist, J. A. III; Montgomery, J. A.; Shealy, Y. F. and Bennett, Jr., L. L. Metabolism of the Carbocyclic Analog of 2'-Deoxyguanosine (CdG) in Human Cells. 7th International Conference on Antiviral Research, Santa Fe, New Mexico, April 23-28, 1995.
- 58. Waud, W. R.; Gilbert, K. S.; Shepherd, R. V.; Schmid, S. M.; Harwell, J. E.; Tiwari, K. N.; Secrist, J. A. III; Montgomery, J. A. Preclinical antitumor activity of 4'-thio-β-D-arabinofuranosylcytosine (4'-thio-ara-C). 90th Annual Meeting of American Association for Cancer Research, Philadelphia, PA, April 10-14, 1999. Proc. Am. Assoc. Cancer Res., 40, 1972 (1999).
- 59. Parker, W. B.; Shaddix, S. C.; Rose, L. M.; Tiwari, K. N.; Secrist, J. A. III. Metabolism of 4'-thio-arabinofuranosyl cytosine (T-araC) in CEM cells. 90th Annual Meeting of American Association for Cancer Research, Philadelphia, PA, April 10-14, 1999. Proc. Am. Assoc. Cancer Res., 40, 1973 (1999).
- 60. Murphy, P. J.; Parker, W. A.; **Secrist, J. A. III**; Shewach, D. S. Comparison of cytotoxicity with ganciclovir and carbocyclic deoxyguanosine in HSV-TK-expressing human glioblastoma U251 cells. 90th Annual Meeting of American Association for Cancer Research, Philadelphia, PA, April 10-14, 1999. Proc. Am. Assoc. Cancer Res., 40, 3935 (1999).
- 61. Halliday, S.; Ptak, R.; Ward, P.; **Secrist, J. A. III**; Buckheit, R., Jr.; Fletcher, T., III. Development of a Moderate Throughput Assay Using TaqMan PCR Technology to Identify Inhibitors of Human Herpesvirus 8 (HHV-8). *Thirteenth International Conference on Antiviral Research*, Baltimore, MD, April 16-21, 2000.
- 62. Griffon, J. F.; Montgomery, J. A.; **Secrist, J. A. III**. Synthesis and antiproliferative activity of some 4'-C-hydroxymethyl pyrimidine nucleosides. *XIV International Roundtable Nucleosides, Nucleotides and Their Biological Applications*, San Francisco, CA, September 10-14, 2000.
- 63. Tiwari, K. N.; Messini, L.; Montgomery, J. A.; **Secrist, J. A. III**. Synthesis and biological activity of 4'-thio-L-xylofuranosyl nucleosides. *XIV International Roundtable Nucleosides, Nucleotides and Their Biological Applications*, San Francisco, CA, September 10-14, 2000.
- 64. Shortnacy-Fowler, A. T.; Tiwari, K. N.; Montgomery, J. A.; **Secrist, J. A. III**. Synthesis and biological activity of 4'-C-hydroxymethyl-2'-fluoro-D-arabinofuranosylpurine nucleosides. *XIV International Roundtable Nucleosides, Nucleotides and Their Biological Applications*, San Francisco, CA, September 10-14, 2000.

- 65. Stemphoski, A. M.; Montgomery, J. A.; Secrist, J. A. III. Synthesis and biological evaluation of novel 2,4-dideoxy-4-C-hydroxymethyl-α,β-L-lyxopyranosyl-pyrimidine and -purine nucleosides. 221st ACS National Meeting, San Diego, CA, April 1-5, 2001.
- 66. Baker, R. O.; Kwong, C. D.; Secrist, J. A. III; Huggins, J. W. Activity of adenosine-N¹-oxide derivatives against variola and other orthopoxviruses. Fourteenth International Conference on Antiviral Research, Seattle, WA, April 8-12, 2001.
- 67. Waud, W. R.; Parker, W. B.; Gilbert, K. S.; Shaddix, S. C.; Tiwari, K. N.; Secrist, J. A. III. Cross-resistance of various drug-resistant P388 leukemias to 4'-Thio-β-D-arabinofuranosylcytosine (T-araC, OSI-7836) and resistance of T-araC-resistant P388 leukemia. 93rd Annual Meeting of American Association for Cancer Research, San Francisco, CA, April 6-10, 2002.
- 68. Secrist, J. A. III. Nucleosides as anticancer agents: from concept to the clinic. *Nucleic Acids Symposium Series No.* 49, 2005, 15-16.

Publications

- 1. **Secrist, J. A. III**; Barrio, J. R.; Leonard, N. J. Attachment of a Fluorescent Label to 4-Thiouracil and 4-Thiouridine. *Biochem. Biophys. Res. Commun.* 1971, 45, 1262–1270.
- 2. Barrio, J. R.; Secrist, J. A. III; Leonard, N. J. Fluorescent Adenosine and Cytidine Derivatives. *Biochem. Biophys. Res. Commun.* 1972, 46, 597–604.
- 3. Secrist, J. A. III; Logue, M. W. Amine Hydrochlorides by Reduction in the Presence of Chloroform. J. Org. Chem. 1972, 37, 335-336.
- 4. **Secrist, J. A. III**; Barrio, J. R.; Leonard, N. J. A Fluorescent Modification of Adenosine Triphosphate with Activity in Enzyme Systems: 1,N⁶-Ethenoadenosine Triphosphate. *Science*, 1972, 175, 646-647.
- 5. **Secrist, J. A. III**; Leonard, N. J. Synthetic Spectroscopic Models Related to Coenzymes and Base Pairs. An "Abbreviated" Nicotinamide Adenine Dinucleotide. *J. Am. Chem.*, 1972, 94, 1702–1706.
- 6. Leonard, N. J.; Barrio, J. R.; **Secrist, J. A. III.** A Spray Reagent for Adenine-Containing Residues: Detection by Fluorescence. *Biochem. Biophys. Acta*, 1972, 269, 531–532.
- 7. **Secrist, J. A. III**; Barrio, J. R.; Leonard, N. J.; Villar-Palasi, C.; Gilman, A. G. Fluorescent Modification of Adenosine 3',5'-Monophosphate: Spectroscopic Properties and Activities in Enzyme Systems. *Science*, 1972, 177, 279–280.
- 8. Barrio, J. R.; Secrist, J. A. III; Leonard, N. J. A Fluorescent Analog of Nicotinamide Adenine Dinucleotide. *Proc. Natl. Acad. Sci. U.S.A.* 1972, *69*, 2039–2042.
- 9. **Secrist, J. A. III**; Barrio, J. R.; Leonard, N. J.; Weber, G. Fluorescent Modification of Adenosine-Containing Coenzymes. Biological Activities and Spectroscopic Properties. *Biochemistry*, 1972, 11, 3499–3506.
- 10. Barrio, J. R.; Secrist, J. A. III; Chien, Y.; Taylor, P. J.; Robinson, J. L.; Leonard, N. J. Interactions of Fluorescent Analogs of Adenine Nucleotides with Pyruvate Kinase. Fed. Eur. Biochem. Soc. (FEBS) Lett., 1973, 29, 215–218.
- 11. **Secrist, J. A. III.** The Synthesis of 1,N⁶-Ethenoadenosine 3',5'-Monophosphate: A Fluorescent Analog of Cyclic AMP. *Methods Enzymol.*, 1974, 38C, 428.

- 12. **Secrist, J. A. III.** A Convenient Procedure for Formation of Certain Uracil and Thymine Anhydronucleosides. *Carbohydr. Res.*, 1975, 42, 379–381.
- 13. Cousineau, T. J.; **Secrist, J. A. III.** Crystalline Methyl 2,3-O-Isopropylidene-5-O-trityl-β-D-ribofuranosylacetate. *J. Carbohydr.*, *Nucleosides Nucleotides*, 1976, 33, 185–189.
- 14. Cook, S. L.; Secrist, J. A. III. Enol Acetates of Nucleoside 5'-Aldehydes: Potential Intermediates for Substituent Incorporation at C-4'. *Carbohydr. Res.*, 1976, 52, C3–C6.
- 15. Secrist, J. A. III; Hickey, C. J.; Norris, R. E. A Convenient Total Synthesis of (∀)-(7E,9E)-Trisporic Acid B Methyl Ester. J. Org. Chem., 1977, 42, 525–527.
- 16. Secrist, J. A. III; Wu, S. R. Generation and Reactivity of an Unstabilized Carbohydrate Phosphorane. *J. Org. Chem.*, 1977, 42, 4084–4088.
- 17. Secrist, J. A. III; Winter, Jr., W. J. Carbon-Carbon Bond Formation at C-4' of a Nucleoside. Synthesis and Utilization of a Uridine 4',5'-Enamine. J. Am. Chem. Soc., 1978, 100, 2554–2555.
- 18. Secrist, J. A. III. Homo-C-Nucleosides. The Synthesis of Certain 6-Substituted 4-Pyrimidinones. J. Org. Chem., 1978, 43, 2925–2927.
- 19. Corey, E. J.; Trybulski, E. J.; Melvin, L. S.; Nicolaou, K. C.; Secrist, J. A. III; Lett, R.; Sheldrake, P. W.; Falck, J. R.; Brunelle, D. J.; Haslanger, M. F.; Kim, S.; Yoo, S. Total Synthesis of Erythromycins (Part III). Stereoselective Routes to Intermediates Corresponding to C(1) to C(9) and C(10) to C(13) Fragments of Erythronolide B. J. Am. Chem. Soc., 1978, 100, 4618–4620.
- 20. **Secrist, J. A. III**; Liu, P. S. Studies Directed Toward a Total Synthesis of Nucleoside Q. The Annulation of 2,6-Diamino-pyrimidin-4-one with α-Halocarbonyls to Form Pyrrolo-[2,3-d]-pyrimidines and Furo[2,3-d]-pyrimidines. *J. Org. Chem.*, 1978, 43, 3937–3941.
- 21. Cousineau, T. J.; Cook, S. L.; Secrist, J. A. III. A Convenient Procedure for the Formation of Enol Acetates Under Basic Conditions. *Synth. Commun.*, 1979, 9, 157–163.
- 22. Cook, S. L.; Secrist, J. A. III. Nucleoside 4',5'-Enol Acetates. The Synthesis and Chemistry of a Unique Uridine 2,4'-Anhydro-nucleoside. *J. Am. Chem. Soc.*, 1979, 101, 1554–1564.
- 23. **Secrist, J. A. III**; Wu, S. R. The Construction of Long Chain Carbohydrates. The Chemistry of a Galactose 6-Phosphorane. *J. Org. Chem.*, 1979, 44, 1434–1438.
- 24. Lyga, J. W.; Secrist, J. A. III. A Convenient Synthesis of 9-Methylbenzo[a]pyrene. J. Org. Chem., 1979, 44, 2941–2943.
- Cousineau, T. J.; Secrist, J. A. III. Synthesis of Certain β-D-Ribofuranosyl Thiazole C-Nucleosides from a Versatile Precursor. J. Org. Chem., 1979, 44, 4351–4358.
- Iyer, R. P.; Lyga, J. W.; Secrist, J. A. III; Daub, G. H.; Slaga, T. J. Comparative Tumor-Initiating Activity of Methylated Benzo(a)pyrene Derivatives in Mouse Skin. *Cancer Res.*, 1980, 40, 1073.
- 27. **Secrist, J. A. III**; Barnes, K. D. Synthesis of Methyl Peracetyl α-Hikosaminide, the Undecose Portion of the Nucleoside Antibiotic Hikizimycin. *J. Org. Chem.*, 1980, 45, 4526–4528.
- Huang, M.-C.; Montgomery, J. A.; Thorpe, M. C.; Stewart, E. L.; Secrist, J. A. III; Blakley, R. L. Formation of 3-(2'-Deoxyribofuranosyl) and 9-(2'-Deoxyribofuranosyl) Nucleosides of 8-Substituted Purines by Nucleoside Deoxyribosyltransferase. *Arch. Biochem. Biophys.*, 1983, 222, 133-144.

- 29. Lyga, J. W.; Secrist, J. A. III. Synthesis of Chain-Extended and C-6' Functionalized Precursors of the Nucleoside Antibiotic Sinefungin. J. Org. Chem., 1983, 48, 1982–1988.
- 30. Clingerman, M. C.; Secrist, J. A. III. Synthesis of C-β-D-Ribofuranosyl Derivatives with a Highly Functionalized wo-Carbon Unit. Conversion to Certain Blocked Thiazole C-Nucleosides. J. Org. Chem., 1983, 48, 3141–3145.
- 31. Montgomery, J. A.; Shortnacy, A. T.; Secrist, J. A. III. Synthesis and Biologic Evaluation of 2-Fluoro-8-azaadenosine and Related Compounds. *J. Med. Chem.*, 1983, 26, 1483–1489.
- 32. Cook, W. J.; Ealick, S. E.; Secrist, J. A. III. Structure of 2',3'-O-Cyclohexylidene-4'-C-(2-methyl-2-propenyl)uridine, C₁₉H₂₆N₂O₆. Acta Crystallogr., Sect. C: Cryst. Struc. Commun., 1984, 40, 885–887.
- 33. Huang, M.-C.; Avery, T. L.; Blakley, R. L.; Secrist, J. A. III; Montgomery, J. A. Improved Synthesis and Antitumor Activity of 2-Bromo-2'-deoxyadenosine. *J. Med. Chem.*, 1984, 27, 800–802.
- 34. **Secrist, J. A. III**; Clayton, S. J.; Montgomery, J. A. (∀)-3-(4-Amino-1*H*-pyrrolo-[2,3-*d*]-pyrimidin-1-yl)-5-(hydroxymethyl)-(1α,2β,3β,5α)-1,2-cyclo-pentanediol, the Carbocyclic Analogue of Tubercidin. *J. Med. Chem.*, 1984, 27, 534–536.
- 35. Bennett, Jr., L. L.; Chang, C.-H.; Allan, P. W.; Adamson, D. J.; Rose, L. M.; Brockman, R. W.; Secrist, J. A. III; Shortnacy, A.; Montgomery, J. A. Metabolism and Metabolic Effects of Halopurine Nucleosides in Tumor Cells in Culture. *Nucleosides Nucleotides*, 1985, 4, 107–116.
- 36. Rainey, P.; Nolan, P. A.; Townsend, L. B.; Robins, R. K.; Fox, J. J.; Secrist, J. A. III; Santi, D. V. Inosine Analogs as Anti-Leishmanial Agents. *Pharm. Res.*, 1985, 217–220.
- 37. Remy, R. J.; Secrist, J. A. III. Acyclic Nucleosides Other Than Acyclovir as Potential Antiviral Agents. A Bibliography. *Nucleosides Nucleotides*, 1985, 4, 411–427.
- 38. Secrist, J. A. III; Shortnacy, A. T.; Montgomery, J. A. 2-Fluoroformycin and 2-Aminoformycin. Synthesis and Biological Activity. *J. Med. Chem.*, 1985, 28, 1740–1742.
- 39. Bennett, Jr., L. L.; Allan, P. W.; Rose, L. M.; Comber, R. N.; Secrist, J. A. III. Differences in the Metabolism and Metabolic Effects on the Carbocyclic Adenosine Analogs, Neplanocin A and Aristeromycin. *Mol. Pharmacol.*, 1986, 29, 383–390.
- Montgomery, J. A.; Shortnacy, A. T.; Carson, D. A.; Secrist, J. A. III.
 9-(2-Deoxy-2-fluoro-β-D-ara-bino-furanosyl)guanine: A Metabolically Stable Cytotoxic Analogue of 2'-Deoxyguanosine. *J. Med. Chem.*, 1986, 29, 2389–2392.
- 41. Montgomery, J. A.; Secrist, J. A. III. Nucleoside Analogs as Antiviral Agents. In *Biological Methylation and Drug Design*; Borchardt, R. T.; Creveling, C. R.; Euland, P. M., Eds.; Humana Press, Inc., New Jersey: 1986, pp. 409–416.
- 42. Pegg, A. E.; Coward, J. K.; Talekar, R. R.; Secrist, J. A. III. Effects of Certain 5'-Substituted Adenosines on Polyamine Synthesis: Selective Inhibitors of Spermine Synthase. *Biochemistry*, 1986, 25, 4091–4097.
- 43. **Secrist, J. A. III**; Bennett, Jr.; L. L.; Allan, P. W.; Rose, L. M.; Chang, C.-H.; Montgomery, J. A. Synthesis and Biochemical Properties of 8-Amino-6-fluoro-9-β-D-ribofuranosyl-9*H*-purine. *J. Med. Chem.* 1986, *29*, 2069–2074.

- 44. Savarese, T. M.; Cannistra, A. J.; Parks, Jr., R. E.; **Secrist, J. A. III**; Shortnacy, A. T.; Montgomery, J. A. 5'-Deoxy-5'-methylthioadenosine Phosphorylase IV. Biological Activity of 2-Fluoroadenine-Substituted 5'-Deoxy-5'-methylthioadenosine Analogs. *Biochem. Pharmacol.*, 1987, 36, 1881–1893.
- 45. **Secrist, J. A. III.** New Substrate Analogues as Inhibitors of S-Adenosylmethionine Decarboxylase. *Nucleosides Nucleotides*, 1987, 6, 73–83.
- 46. Secrist, J. A. III; Montgomery, J. A.; Shealy, Y. F.; O'Dell, C. A.; Clayton, S. J. Resolution of Racemic Carbocyclic Analogues of Purine Nucleosides Through the Action of Adenosine Deaminase. Antiviral Activity of the Carbocyclic 2'-Deoxyguanosine Enantiomers. *J. Med. Chem.*, 1987, 30, 746–749.
- 47. Pegg, A. E.; Secrist, J. A. III; Madhubala, R. Properties of L1210 Cells Resistant to ∀-Difluoromethylornithine. *Cancer Res.*, 1988, 48, 2678–2682.
- 48. **Secrist, J. A. III**; Shortnacy, A. T.; Montgomery, J. A. Synthesis and Biological Evaluations of Certain 2N-Halo-2N-Substituted Derivatives of 9-β-D-Arabinofuranosyladenine. *J. Med. Chem.*, 1988, 31, 405–410.
- 49. Pegg, A. E.; Jones, D. B.; **Secrist, J. A. III.** Effect of Inhibitors of S-Adenosylmethionine Decarboxylase on Polyamine Content and Growth of L1210 Cells. *Biochemistry*, 1988, 27, 1408–1415.
- 50. Madhubala, R.; Secrist, J. A. III; Pegg, A. E. Effect of Inhibitors of S-Adenosylmethionine Decarboxylase on the Contents of Ornithine Decarboxylase and S-Adenosylmethionine Decarboxylase in L1210 Cells. *Biochem. J.*, 1988, 254, 45–50.
- 51. **Secrist, J. A. III.** 4. The Nucleosides. *Carbohydrate Chemistry*; Kennedy, J. F., Ed.; Clarendon Press, Oxford, United Kingdom: 1988, pp. 134–195.
- 52. White, L.; Parker, W. B.; Macy, L.; Shaddix, S.; McCaleb, G.; Secrist, J. A. III; Vince, R.; Shannon, W. M. Comparison of the Effect of Carbovir, AZT, and Dideoxynucleoside Triphosphates on the Activity of Human Immunodeficiency Virus Reverse Transcriptase and Selected Human Polymerases. *Biochem. Biophys. Res. Commun.*, 1989, 161, 393–398.
- 53. Shortnacy, A. T.; Montgomery, J. A.; **Secrist, J.A. III.** 8-Substituted Purine Ribosides: Synthesis and Biological Activity. *Nucleosides Nucleotides*, 1989, 8, 911–913.
- 54. Krauth, C. A.; Shortnacy, A. T.; Montgomery, J. A.; **Secrist, J.A. III.** Synthesis and Antiviral Evaluation of Adenosine-N¹-oxide and 1-(Benzyloxy) Adenosines. *Nucleosides Nucleotides*, 1989, 8, 915–917.
- 55. Poulin, R.; Secrist, J. A. III; Pegg, A. E. Effect of 1-Amino-oxy-3-aminopropane on Polyamine Metabolism and Growth of L1210 Cells. *Biochem. J.*, 1989, 263, 215–221.
- 56. **Secrist, J. A. III**; Talekar, R. R. 5'-C-Chain-Extended Adenosine Derivatives Related to Sinefungin. Synthesis and Biological Activity. *Nucleosides Nucleotides*, 1990, 9, 619–627.
- 57. Bondoc, L. L.; Shannon, W. M.; **Secrist, J. A. III**; Vince, R.; Fridland, A. Metabolism of the Carbocyclic Nucleoside Analogue Carbovir, an Inhibitor of Human Immunodeficiency Virus, in Human Lymphoid Cells. *Biochemistry*, 1990, *29*, 9839–9843.
- 58. Parker, W. B.; White, E. L.; Shaddix, S. C.; Ross, L. J.; Buckheit, Jr., R. W.; Germany, J. M.; Secrist, J. A. III; Vince, R.; Shannon, W. M. Mechanism of Inhibition of Human

- Immunodeficiency Virus Type 1 Reverse Transcriptase and Human DNA Polymerases α , β , and γ by the 5'-Triphosphates of Carbovir, 3'-Azido-3'-deoxythymidine, 2',3'-Dideoxyguanosine, and 3'-Deoxythymidine. *J. Biol. Chem.*, 1991, 266, 1754–1762.
- 59. **Secrist, J. A. III**; Tiwari, K. N.; Riordan, J. M.; Montgomery, J. A. Synthesis and Biological Activity of 2'-Deoxy-4'-thio Pyrimidine Nucleosides. *J. Med. Chem.*, 1991, 34, 2361–236.
- 60. Reynolds, R. C.; Crooks, P. A.; Parker, W. B.; Maddry, J. A.; Montgomery, J. A.; Secrist, J. A. III. The Synthesis and Antiviral Activity of 5'-Amino-3'-azido-3',5'-dideoxythymidine. *J. Biopharm. Sci.*, 1991, 2, 195–203.
- 61. **Secrist, J. A. III**; Crooks, P. A.; Maddry, J. A.; Reynolds, R. C.; Rathore, A. S.; Akhtar, M. S.; Montgomery, J. A. Progress Toward the Synthesis of Nonionic Oligonucleotide Analogues with Sulfonate and Sulfonamide Internucleotide Linkages. *Nucleic Acids Res.*, 1991, Symposium Series No. 24, 5-8.
- Ealick, S. E.; Babu, Y. S.; Bugg, C. E.; Erion, M. D.; Guida, W. C.; Montgomery, J. A.; Secrist, J. A. III. Application of Crystallographic and Modeling Methods in the Design of Purine Nucleoside Phosphorylase Inhibitors. *Proc. Natl. Acad. Sci. USA*, 1991, 88, 11540–11544.
- 63. Comber, R. N.; Gray, R. J.; Secrist, J. A. III. Acyclic Analogues of Pyrazofurin: Syntheses and Antiviral Evaluation. *Carbohydr. Res.*, 1991, *216*, 441–452.
- 64. Parker, W. B.; Shaddix, S. C.; Chang, C.-H.; White, E. L.; Rose, L. M.; Brockman, R. W.; Shortnacy, A. T.; Montgomery, J. A.; Secrist, J. A. III; Bennett, Jr., L. L. Effects of 2-Chloro-9-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)adenine on K562 Cellular Metabolism and the Inhibition of Human Ribonucleotide Reductase and DNA Polymerases by Its 5'-Triphosphate. Cancer Res., 1991, 51, 2386–2394.
- 65. Elliott, R. D.; Niwas, S.; Riordan, J. M.; Montgomery, J. A.; Secrist, J.A. III. Synthesis of 9-(1-Deoxy-1-phosphono-β-D-psicofuranosyl)-1,9-dihydro-6*H*-purin-6-one as a Potential Transition State Analog Inhibitor of Purine Nucleoside Phosphorylase. *Nucleosides Nucleotides*, 1992, 11, 97-119.
- 66. **Secrist, J. A. III**; Riggs, R. M.; Comber, R. N.; Montgomery, J. A. Syntheses of Phosphonate Analogues of Dideoxyadenosine (DDA)-, Dideoxycytidine (DDC)-, Dideoxyinosine (DDI)-, and Deoxythymidine (DDT)-5'-Monophosphates. *Nucleosides Nucleotides*, 1992, 11, 947–956.
- Crooks, P. A.; Reynolds, R. C.; Maddry, J. A.; Rathore, A.; Akhtar, M. S.; Montgomery, J. A.;
 Secrist, J. A. III. Nucleoside Sultones: Synthons for the Preparation of Nucleotide Analogs. I.
 Synthesis and Ring Opening Reactions. J. Org. Chem., 1992, 57, 2830–2835.
- 68. Secrist, J. A. III; Riggs, R. M.; Tiwari, K. N.; Montgomery, J. A. Synthesis and Anti-HIV Activity of 4'-Thio-2',3'-dideoxynucleosides. *J. Med. Chem.*, 1992, 35, 533–538.
- Montgomery, J. A.; Shortnacy-Fowler, A. T.; Clayton, S. D.; Riordan, J. M.; Secrist, J. A. III. Synthesis and Biologic Activity of 2'-Fluoro-2-halo Derivatives of 9-β-D-Arabino-furanosyladenine. J. Med. Chem., 1992, 35, 397–401.
- Parker, W. B.; Shaddix, S. C.; Allan, P. W.; Arnett, G.; Rose, L. M.; Shannon, W. M.; Shealy, Y. F.; Montgomery, J. A.; Secrist, J. A. III; Bennett, Jr., L. L. Incorporation of the Carbocyclic Analog of 2'-Deoxyguanosine Into the DNA of Herpes Simplex Virus and of HEp-2 Cells Infected with Herpes Simplex Virus. *Mol. Pharmacol.*, 1992, 41, 245–251.

- 71. Reynolds, R. C.; Crooks, P. A.; Maddry, J. A.; Akhtar, M. S.; Montgomery, J. A.; Secrist, J. A. III. Synthesis of Thymidine Dimers Containing Internucleoside Sulfonate and Sulfonamide Linkages. *J. Org. Chem.*, 1992, 57, 2983–2985.
- 72. Tekwani, B. L.; Bacchi, C. J.; Secrist, J. A. III; Pegg, A. E. Irreversible Inhibition of S-Adenosylmethionine Decarboxylase of *Trypanosoma Brucei Brucei* by S-Adenosylmethionine Analogues. *Biochem. Pharmacol.*, 1992, 44, 905–911.
- 73. Comber, R. N.; Reynolds, R. C.; Friedrich, J. D.; Manguikian, R.; Buckheit, R.; Truss, J. W.; Shannon, W. M.; Secrist, J. A. III. 5,5-Disubstituted Hydantoins: Synthesis and Anti-HIV Activity. J. Med. Chem., 1992, 35, 3567–3572.
- 74. Gabrielsen, B.; Phelan, M. J.; Barthel-Rose, L.; See, C.; Huggins, J. W.; Kefauver, D. F.; Monath, T. P.; Ussery, M. A.; Chmurny, G. N.; Schubert, E. M.; Upadhya, K.; Kwong, C.; Carter, D. A.; Secrist, J. A. III; Kirsi, J. J.; Shannon, W. M.; Sidwell, R. W.; Kini, G. D.; Robins, R. K. Synthesis and Antiviral Evaluation of N-Carboxamidine-Substituted Analogues of 1-β-D-Ribofuranosyl-1,2,4-triazole-3-carboxamidine Hydrochloride. J. Med. Chem., 1992, 35, 3231–3238.
- 75. Parker, W. B.; White, E. L.; Shaddix, S. C.; Ross, L. J.; Shannon, W. M.; Secrist, J. A. III. Interference with HIV-1 Reverse Transcriptase-Catalyzed DNA Chain Elongation by the 5'-Triphosphate of the Carbocyclic Analog of 2'-Deoxyguanosine. *Antiviral Res.*, 1992, 19, 325–332.
- 76. Shantz, L. M.; Stanley, B. A.; **Secrist, J. A. III**; Pegg, A. E. Purification of Human S-Adenosylmethionine Decarboxylase Expressed in *Escherichia Coli* and Use of This Protein to Investigate the Mechanism of Inhibition by the Irreversible Inhibitors, 5'-Deoxy-5'-[(3-hydrazino-propyl)methylamino]adenosine and 5'-[[(Z)-4-Amino-butenyl]-methyl-amino]-5'-deoxyadenosine. *Biochemistry*, 1992, 31, 6848–6855.
- 77. Montgomery, J. A.; Niwas, S.; Rose, J. D.; **Secrist, J. A. III**; Babu, Y. S.; Bugg, C. E.; Erion, M. D.; Guida, W. C.; Ealick, S. E. Structure-Based Design of Inhibitors of Purine Nucleoside Phosphorylase. 1. 9-Arylmethyl Derivatives of 9-Deazaguanine. *J. Med. Chem.*, 1992, *36*, 55–69.
- 78. Glemarec, C.; Reynolds, R. C.; Crooks, P. A.; Maddry, J. A.; Akhtar, M. S.; Montgomery, J. A.; Secrist, J. A. III; Chattopadhyaya, J. Conformational Studies of Thymidine Dimers Containing Sulfonate and Sulfonamide Linkages by NMR Spectroscopy. *Tetrahedron*, 1993, 49, 2287–2298.
- 79. **Secrist, J. A. III**; Niwas, S.; Rose, J. D.; Babu, Y. S.; Bugg, C. E.; Erion, M. D.; Guida, W. C.; Ealick, S. E.; Montgomery, J. A. Design of Inhibitors of Purine Nucleoside Phosphorylase. 2. 9-Alicyclic and Heteroalicyclic Derivatives of 9-Deazaguanine. *J. Med. Chem.*, 1993, 36, 1847–1854.
- 80. **Secrist, J. A. III**; Comber, R. N.; Gray, R. J.; Gilroy, R. B.; Montgomery, J. A. Syntheses of 5'-Substituted Analogues of Carbocyclic 3-Deazaadenosine as Potential Antivirals. *J. Med. Chem.*, 1993, *36*, 2102–2106.
- 81. Erion, M. D.; Rose, J. D.; Ananthan, S.; Allen, M.; Secrist, J. A. III; Babu, Y. S.; Bugg, C. E.; Guida, W. C.; Ealick, S. E.; Montgomery, J. A. Structure-Based Design of Inhibitors of Purine Nucleoside Phosphorylase. 3. 9-Arylmethyl Derivatives of 9-Deazaguanine Substituted on the Methyl Group. *J. Med. Chem.*, 1993, 36, 3771–3783. (Correction: 1994, 37, 1034)
- 82. Ealick, S. E.; Babu, Y. S.; Bugg, C. E.; Erion, M. D.; Guida, W. G.; Montgomery, J. A.; Secrist, J. A. III. Application of X-Ray Crystallographic Methods in the Design of Purine Nucleoside Phosphorylase Inhibitors. *Ann. N. Y. Acad. Sci.*, 1993, 685, 237–247.
- 83. Jois, Y. H. R.; Kwong, C. D.; Riordan, J. M.; Secrist, J. A. III. Synthesis and Antiviral Evaluation

- of Some Novel [1,2,4]Triazolo[4,3-b][1,2,4]triazole Nucleoside Analogs. J. Heterocycl. Chem., 1993, 30, 1289–1292.
- 84. Bennett, Jr., L. L.; Parker, W. B.; Allan, P. W.; Rose, L. M.; Shealy, Y. F.; Secrist, J. A. III; Montgomery, J. A.; Arnett, G.; Kirkman, R. L.; Shannon, W. M. Phosphorylation of the Enantiomers of the Carbocyclic Analog of 2'-Deoxyguanosine in Cells Infected with Herpes Simplex Virus Type 1 and in Uninfected Cells. Lack of Enantiomeric Selectivity with the Viral Thymidine Kinase. *Mol. Pharmacol.*, 1993, 44, 1258–1266.
- 85. Tiwari, K. N.; Montgomery, J. A.; **Secrist, J. A. III.** The Synthesis and Biological Activity of 1-(2-Deoxy-4-thio-α-L-threo-pentofuranosyl)thymine. *Nucleosides Nucleotides*, 1993, *12*, 841–846.
- 86. Montgomery, J. A.; Secrist, J. A. III. PNP Inhibitors. Perspec. Drug Discovery Des., 1994, 2, 205-220.
- 87. **Secrist, J. A. III**; Shortnacy-Fowler, A.; Bennett, Jr., L. L.; Montgomery, J. A. Synthesis and Biologic Evaluation of 8-Substituted Derivatives of Nebularine (9-β-D-Ribofuranosylpurine). *Nucleosides Nucleotides*, 1994, *13*, 1017–1029.
- 88. White, E. L.; Arnett, G.; Secrist, J. A. III; Shannon, W. M. Characterization of S-Adenosylmethionine Decarboxylase Induced by Human Cytomegalovirus Infection. *Virus Res.*, 1994, 31, 255–263.
- 89. Elliott, R. D.; Rener, G. A.; Riordan, J. M.; Secrist, J. A. III; Bennett, Jr., L. L.; Parker, W. B.; Montgomery, J. A. Phosphate Analogs of Carbocyclic Nucleotides. *J. Med. Chem.*, 1994, 37, 739–744.
- 90. Gabrielsen, B.; Kirsi, J. J.; Kwong, C. D.; Carter, D. A.; Krauth, C. A.; Hanna, L. K.; Huggins, J. W.; Monath, T. P.; Kefauver, D. F.; Blough, H. A.; Rankin, J. T.; Bartz, C. M.; Huffman, J. H.; Smee, D. F.; Sidwell, R. W.; Shannon, W. M.; Secrist, J. A. III. In Vitro and In Vivo Antiviral (RNA) Evaluation of Orotidine 5'-Monophosphate Decarboxylase Inhibitors and Analogues Including 6-Azauridine-5'-(ethylmethoxyalaninyl)phosphate (a 5'-Monophosphate Prodrug). Antiviral Chem. Chemother., 1994, 5, 209–220.
- Guida, W. C.; Elliott, R. D.; Thomas, H. J.; Secrist, J. A. III; Babu, Y. S.; Bugg, C. E.; Erion, M. D.; Ealick, S. E.; Montgomery, J. A. Structure-Based Design of Inhibitors of Purine Nucleoside Phosphorylase. 4. A Study of Phosphate Mimics. J. Med. Chem., 1994, 37, 1109–1114.
- 92. Tiwari, K. N.; Secrist, J. A. III; Montgomery, J. A. Synthesis and Biological Activity of 4'-Thionucleosides of 2-Chloroadenine. *Nucleosides Nucleotides*, 1994, *13*, 1819–1828.
- 93. Comber, R. N.; Friedrich, J. D.; Dunshee, D. A.; Petty, S. L.; **Secrist, J. A. III.** α-(162)-, α-(163), and α-(166)-Linked Thioglycosidic Disaccharides: Syntheses and Anti-HIV Testing of Thiokojibiose Octaacetate, Thionigerose and Thioisomaltose. *Carbohydr. Res.*, 1994, 262, 245–255.
- 94. Maddry, J. A.; Reynolds, R. C.; Montgomery, J. A. and **Secrist, J. A. III.** Synthesis of Nonionic Oligonucleotide Analogs. *ACS Symp. Ser.*, 1994, 580, 40–51.
- 95. Thomas, H. J.; Tiwari, K. N.; Clayton, S. J.; Secrist, J. A. III; Montgomery, J. A. Synthesis and Biologic Activity of Purine 2'-Deoxy-2'-fluoro-ribonucleosides. *Nucleosides Nucleotides*, 1994, 13, 309–323.
- 96. Siddiqi, S. M.; Jacobson, K. A.; Esker, J. L.; Olah, M. E.; Ji, X.-D.; Melman, N.; Tiwari, K. N.; Secrist, J. A. III; Schneller, S. W.; Cristalli, G.; Stiles, G. L.; Johnson, C. R.; Ijzerman, A. P.

- Search for New Purine-and Ribose-Modified Adenosine Analogues as Selective Agonists and Antagonists at Adenosine Receptors. J. Med. Chem., 1995, 38, 1174–1188.
- 97. Secrist, J. A. III; Parker, W. B.; Tiwari, K. N., Messini, L.; Shaddix, S. C.; Rose, L. M.; Bennett, Jr., L. L. and Montgomery, J. A. The Synthesis and Biological Activity of Certain 4'-Thionucleosides. *Nucleosides, Nucleotides*, 1995, 14, 675–686.
- 98. Parker, W. B.; Shaddix, S. C.; Rose, L. M.; Tiwari, K. N.; Montgomery, J. A.; Secrist, J. A. III; Bennett, Jr., L. L. Metabolism and Metabolic Actions of 4'-Thiothymidine in L1210 Cells. *Biochemical Pharmacology*, 1995, 50, 687-695.
- Babu, Y. S.; Ealick, S. E.; Bugg, C. E.; Erion, M. D.; Guida, W. C.; Montgomery, J. A. and Secrist, J. A. III. Structure-based Design of Inhibitors of Purine Nucleoside. *Acta Crystallogr.*, 1995, D51, 529-535.
- 100. Secrist III, J. A. Nomenclature: Who Should Care. Chem. & Eng. News, 1997, 33.
- 101. Parker, W. B.; King, S.A.; Allan, P.W.; Bennett, Jr., L.L.; **Secrist, J. A. III;** Montgomery, J.A.; Gilbert, K.S.; Waud, W.R.; Wells, A.H.; Gillespie, G.Y. and Sorscher, E.J. *In Vivo* Gene Therapy of Cancer with *E. coli* Purine Nucleoside Phosphorylase. *Human Gene Therapy*, 1997, 8, 1637–1644.
- 102. Kwong, C. D.; Krauth, C. A.; Shortnacy-Fowler, A. T.; Arnett, G.; Hollingshead, M. G.; Shannon, W. M.; Montgomery, J. A. and Secrist, J. A. III. Synthesis and Antiviral Evaluation of Analogs of Adenosine-N¹-oxide and 1-(Benzyloxy)adenosine. *Nucleosides Nucleotides*, 1998, 17, 1409–1443.
- White, E. L.; Rose, L. M.; Allan, P. W.; Buckheit, R. W.; Shannon, W. M. and Secrist, J. A. III. Polyamine Pools in HIV-Infected Cells. Acquired Immune Defic. Syndr. Hum. Retrovirol., 1998, 17, 101-103.
- 104. Secrist, J. A. III; Tiwari, K. N.; Shortnacy-Fowler, A. T.; Messini, L.; Riordan, J. M.; Montgomery, J. A.; Meyers, S. C.; Ealick, S. E. Synthesis and Biological Activity of Certain 4'-Thio-D-arabinofuranosylpurine Nucleosides. J. Med. Chem., 1998, 41, 3865-3871.
- 105. Parker, W. B.; Shaddix, S. C.; Rose, L. M.; Shewach, D. S.; Hertel, L. W.; **Secrist, J. A. III**; Montgomery, J. A.; Bennett, L. L. Jr. Comparison of the Mechanism of Cytotoxicity of 2-Chloro-9-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)adenine, 2-Chloro-9-(2-deoxy-2-fluoro-β-D-ribofuranosyl)adenine in CEM Cells. *Mol. Pharmacol.*, 1999, *55*, 515–520.
- 106. Elzagheid, M. I.; Oivanen, M.; Walker, R. T.; **Secrist, J. A. III**. Kinetics for the Acid-Catalyzed Hydrolysis of Purine and Cytosine 2'-Deoxy-4'-Thionucleosides. *Nucleosides Nucleotides*, 1999, 18, 181-186.
- 107. Nandanan, E.; Camaioni, E.; Jang, S.-Y.; Kim, Y.-C.; Cristalli, G.; Herdewijn, P.; Secrist, J. A. III; Tiwari, K. N.; Mohanram, A.; Harden, T. K.; Boyer, J. L.; Jacobson, K. A. Structure-Activity Relationships of Bisphosphate Nucleotide Derivatives as P2Y₁ Receptor Antagonists and Partial Agonists. *J. Med. Chem.*, 1999, 42, 1625–1638.
- 108. Secrist, J. A. III; Parker, W. B.; Allan, P. W.; Bennett, L. L., Jr.; Waud, W. R.; Truss, J. W.; Fowler, A. T.; Montgomery, J. A.; Ealick, S. E.; Wells, A. H.; Gillespie, G. Y.; Gadi, V. K.; Sorscher, E. J. Gene Therapy of Cancer: Activation of Nucleoside Prodrugs with *E. Coli* Purine Nucleoside Phosphorylase. *Nucleosides Nucleotides*, 1999, 18, 745–757.
- 109. Rose, J. D.; Secrist, J. A. III; Montgomery, J. A. Certain 3,9-Dideazapurines as Inhibitors of

- Purine Nucleoside Phosphorylase. Nucleosides Nucleotides, 1999, 18, 2443-2461.
- 110. Shortnacy-Fowler, A. T.; Tiwari, K. N.; Montgomery, J. A.; Buckheit, R. W., Jr.; Seela, F.; Secrist, J. A. III. Synthesis and Biological Activity of 2'-Fluoro-D-arabinofuranosylpyrazolo[3,4-d]pyrimidine Nucleosides. *Helvetica Chimica Acta*, 1999, 82, 2240–2245.
- 111. Tiwari, K. N.; Shortnacy-Fowler, A. T.; Cappellacci, L.; Parker, W. B.; Waud, W. R.; Montgomery, J. A.; Secrist, J. A. III. Synthesis of 4'-Thio-β-D-arabinofuranosylcytosine (4'-Thio-ara-C) and Comparison of Its Anticancer Activity with That of Ara-C. *Nucleosides, Nucleotides & Nucleic Acids*, 2000, 19, 329-340.
- 112. Waud, W. R.; Schmid, S. M.; Montgomery, J. A.; **Secrist, J. A. III**. Preclinical Anti-Tumor Activity of 2-Chloro-9-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)adenine (Cl-F-ara-A). *Nucleosides, Nucleotides & Nucleic Acids,* 2000, 19, 447-460.
- 113. Hassan, A. E. A.; Shortnacy-Fowler, A. T.; Montgomery, J. A.; Secrist, J. A. III. A Convenient Synthesis of 2'-Deoxy-2-fluoroadenosine; a Potential Prodrug for Suicide Gene Therapy. *Nucleosides, Nucleotides & Nucleic Acids*, 2000, 19, 559-565.
- 114. Hassan, A. E. A.; Abou-Elkair, R. I.; Montgomery, J. A.; Secrist, J. A. III. Convenient Syntheses of 6-Methylpurine and Related Nucleosides. *Nucleosides, Nucleotides & Nucleic Acids*, 2000, 19, 1123-1134.
- 115. Tiwari, K. N.; Shortnacy-Fowler, A. T.; Cappellacci, L.; Waud, W. R.; Parker, W. B.; Montgomery, J. A.; Secrist, J. A. III. Synthesis and Structure Activity Relationship of 5-Substituted 4'-Thio-β-D-arabinofuranosylcytosines. *Nucleosides, Nucleotides & Nucleic Acids*, 2000, 19, 2005-2017.
- 116. Parker, W. B.; Shaddix, S. C.; Rose, L. M.; Waud, W. R.; Shewach, D. S.; Tiwari, K. N.; Secrist, J. A. III. Metabolism of 4'-Thio-β-D-arabinofuranosylcytosine in CEM Cells. *Biochem. Pharm.*, 2000, 60, 1925-1932.
- 117. Griffon, J.-F.; Montgomery, J. A.; **Secrist, J. A. III**. Synthesis and Antiproliferative Activity of Some 4'-C-Hydroxymethyl-α- and β-D-arabino-pentofuranosyl Pyrimidine Nucleosides. Nucleosides, Nucleotides & Nucleic Acids, Proc. of XIV Intl Round Table on Nucleosides, Nucleotides, and Their Biological Appl., 2001, 20, 649-652.
- 118. Tiwari, K. N.; Messini, L.; Montgomery, J. A.; Secrist, J. A. III. Synthesis and Biological Activity of 4'-Thio-L-Xylofuranosyl Nucleosides. *Nucleosides, Nucleotides & Nucleic Acids, Proc. of XIV Intl Round Table on Nucleosides, Nucleotides, and Their Biological Appl.*, 2001, 20, 743-746.
- 119. Shortnacy-Fowler, A. T.; Tiwari, K. N.; Montgomery, J. A.; **Secrist, J. A. III**. Synthesis and Biological Activity of 4'-C-Hydroxymethyl-2'-fluoro-D-arabinofuranosylpurine Nucleosides. *Nucleosides, Nucleotides & Nucleic Acids, Proc. of XIV Intl Round Table on Nucleosides, Nucleotides, and Their Biological Appl.*, 2001, 20, 747-750.
- 120. Shortnacy-Fowler, A. T.; Tiwari, K. N.; Montgomery, J. A.; **Secrist, J. A. III**. Synthesis and Biological Activity of 4'-C-Hydroxymethyl-2'-fluoro-D-arabinofuranosylpurine Nucleosides. *Nucleosides, Nucleotides & Nucleic Acids*, 2001, 20, 1583-1598.
- Tolbert, W. D.; Ekstrom, J. L.; Mathews, I. I.; Secrist, J. A. III; Kapoor, P.; Pegg, A. E.; Ealick, S. E. The Structural Basis for Substrate Specificity and Inhibition of Human S-Adenosylmethionine Decarboxylase. *Biochemistry*, 2001, 40, 9484-9494.

- 122. Secrist, J. A. III; Ananthan, S.; Kwong, C. D.; Maddry, J. A.; Reynolds, R. C.; Poffenberger, A.; Michael, M.; Miller, L.; Krahenbuh, J.; Adams, L.; Biswas, A.; Franzblau, S.; Rouse, D.; Winfield, D.; Brooks, J. Search for New Drugs for Treatment of Tuberculosis. *Antimicrobial Agents and Chemotherapy*, 2001, 45, 1943-1946.
- 123. Shewach, D. S.; Murphy, P. J.; Robinson, B. W.; Vuletich, J.; Boucher, P. D.; Blobaum, A. L.; Zerbe, L.; Secrist, J. A. III; Parker, W. B. Multi-Log Cytotoxicity of Carbocyclic 2'-Deoxyguanosine in HSV-TK-Expressing Human Tumor Cells. *Human Gene Therapy*, 2002, 13, 543-551.
- 124. Rose, J. D.; Parker, W. B.; Someya, H.; Shaddix, S. C.; Montgomery, J. A.; Secrist, J. A. III. Enhancement of Nucleoside Cytotoxicity through Nucleotide Prodrugs. *J. Med. Chem.*, 2002, 45, 4505-4512.
- 125. Parker, W. B.; Allan, P. W.; Hassan, A. E. A.; Secrist, J. A. III; Sorscher, E. J.; Waud, W. R. Antitumor Activity of 2-Fluoro-2'-deoxyadenosine Against Tumors That Express Escherichia coli Purine Nucleoside Phosphorylase. *Cancer Gene Therapy*, 2003, 10, 23-29.
- 126. Someya, H.; Shaddix, S. C.; Tiwari, K. N.; **Secrist, J. A. III**; Parker, W. B. Phosphorylation of 4'-thio-β-D-Arabinofuranosylcytosine and Its Analogs by Human Deoxycytidine Kinase. *J. Pharmacology and Experimental Therapeutics*, 2003, 304, 1314-1322.
- 127. Waud, W.R.; Gilbert, K.S.; Shepherd, R.V., Montgomery, J.A.; Secrist, J. A. III. Preclinical Antitumor Activity of 4'-Thio-β-D-arabinofuranosylcytosine (4'-thio-ara-C). Cancer Chemother. Pharmacol., 2003, 51, 422-426.
- 128. Hassan, A. E. A.; Parker, W. B.; Allan, P. W.; Montgomery, J. A.; Secrist, J. A. III. Selective Metalation of 6-Methylpurines: Synthesis of 6-Fluoromethylpurines and Related Nucleosides. *Nucleosides Nucleotides & Nucleic Acids*, 2003, 22, 747-749.
- 129. Tiwari, K. N.; Cappellacci, L.; Montgomery, J. A.; Secrist, J. A. III. Synthesis and Anti-cancer Activity of Some Novel 5-Azacytosine Nucleosides. *Nucleosides Nucleotides & Nucleic Acids*, 2003, 22, 2161-2170.
- 130. Flanagan, S. A.; Gandhi, V.; **Secrist, J. A. III**; Meckling, K. A. The Novel Nucleoside Transport System Exhibited by NB4 Cells, *csg*, Transports Deoxyguanosine Analogues, Including Ara-G, *Biochemical Pharmacology*, 2003, *66 (5)*, 733-737.
- 131. Bennett, E. M.; Anand, R.; Allan, P. W.; Hassan, A. E. A.; McPherson, D. T.; Parker, W. B.; Secrist, J. A. III; Sorscher, E. J.; Townes, T. M.; Waud, W. R.; Ealick, S. E. Designer Gene Therapy Using an *Escherichia coli* Purine Nucleoside Phosphorylase/Prodrug System. *Chemistry & Biology*, 2003, 10, 1173-1181.
- 132. Wnuk, S. F; Lewandowska, E.; Companioni, D. R.; Garcia, P. I. Jr; Secrist, J. A. III. Synthesis and Cytotoxicity of 9-(2-deoxy-2-alkyldithio-β-D-arabinofuranosyl)purine Nucleosides Which are Stable Precursors to Potential Mechanistic Probes of Ribonucleotide Reductases. *Org Biomol Chem.*, 2004, 2, 120-126.
- 133. Parker, W. B.; Secrist, J. A. III; Waud, W. R. Purine nucleoside antimetabolites in development for the treatment of cancer. *Current Opinion in Investigational Drugs*, 2004, 5, 592-596.
- 134. Hong, J. S.; Waud, W. R.; Levasseur, D. N.; Townes, T. M.; Wen, H.; McPherson, S. A.; Moore, B. A.; Bebok, Z.; Allan, P. W.; Secrist, J. A. III; Parker, W. B.; Sorscher, E. J. Excellent in vivo Bystander Activity of Fludarabine Phosphate Against Human Glioma Xenografts That Express the Escherichia coli Purine Nucleoside Phosphorylase Gene. Cancer Res., 2004, 64, 6610-6615.

- 135. Bharara, S.; Sorscher, E. J.; Gillespie, G. Y.; Lindsey, J. R.; Hong, J. S.; Curlee, K. V.; Allan, P. W.; Gadi, V. K.; Alexander, S. A.; Secrist, J. A. III; Parker, W. B.; Waud, W. R. Antibiotic-mediated Chemoprotection Enhances Adaptation of *E. coli* PNP for Herpes Simplex Virus-based Glioma Therapy. *Hum. Gene Ther.*, 2005, 16, 339-347.
- 136. Secrist, J. A. III. A Biography of John A. Montgomery. *Nucleosides, Nucleotides, and Nucleic Acids*, 2005, 24, 1387-1394.
- 137. Parker, W. B.; Allan, P. W.; Ealick, S. E.; Sorscher, E. J.; Hassan, A. E. A.; Silamkoti, A. V.; Fowler, A. T.; Waud, W. R.; Secrist, J. A. III. Design and Evaluation of 5'-Modified Nucleoside Analogs as Prodrugs for an E. Coli Purine Nucleoside Phosphorylase Mutant. Nucleosides, Nucleotides, and Nucleic Acids, 2005, 24, 387-392.
- 138. Fowler, A. S.; Tiwari, K. N.; Campbell, S. R.; **Secrist, J. A. III**. Chemical and Enzymatic Synthesis of 4'-Thio-β-D-arabinofuranosylcytosine Monophosphate and Triphosphate. *Nucleosides, Nucleotides, and Nucleic Acids*, 2005, 24, 533-537.
- 139. Moukha-chafiq, O.; Tiwari, K. N.; **Secrist, J. A. III**. Synthesis of Some 2'-Fluoro-2'-deoxy-3'-C-ethynyl and 3'-C-Vinyl-β-D-Lyxofuranosyl Nucleosides. *Nucleosides, Nucleotides, and Nucleic Acids*, 2005, 24, 713-715.
- 140. Rose, J. D.; Parker, W. B.; **Secrist, J. A. III.** bis(tBuSATE) Phosphotriester Prodrugs of 8-Azaguanosine and 6-Methylpurine Riboside; bis(POM) Phosphotriester Prodrugs of 2'-Deoxy-4'-thioadenosine and Its Corresponding 9α Anomer. *Nucleosides, Nucleotides, and Nucleic Acids*, 2005, 24, 809-813.
- 141. Silamkoti, A. V.; Allan, P. W.; Hassan, A. E. A.; Fowler, A. T.; Sorscher, E. J.; Parker, W. B.; Secrist, J. A. III. Synthesis and Biological Activity of 2-Fluoro Adenine and 6-Methyl Purine Nucleoside Analogs as Prodrugs for Suicide Gene Therapy of Cancer. Nucleosides, Nucleotides, and Nucleic Acids, 2005, 24, 881-885.
- 142. Tiwari, K. N.; Fowler, A. S.; **Secrist, J. A. III**. Synthesis and Biological Activity of 2'-Deoxy-4'-thio-pyrazolo[3,4-d]pyrimidine Nucleosides. *Nucleosides, Nucleotides, and Nucleic Acids*, 2005, 24, 911-914.
- 143. Tiwari, K. N.; Messini, L.; Montgomery, J. A.; **Secrist, J. A. III**. Synthesis and Biological Activity of 4'-Thio-L-Xylofuranosyl Purine Nucleosides. *Nucleosides, Nucleotides, and Nucleic Acids*, 2005, 24, 1895-1906.
- 144. Zhang, Y; Secrist, J. A. III; Ealick, S. E. The Structure of Human Deoxycytidine Kinase in Complex with Clofarabine Reveals Key Interactions for Prodrug Activation. *Acta Cryst.*, 2006, *D62*, 133-139.
- 145. Griffon, J.-F.; Shaddix, S. C.; Parker, W. B.; Al-Madhoun, A. S.; Eriksson, S.; Montgomery, J. A.; Secrist, J.A. III. Synthesis and Biological Activity of α- and β-Anomers of 4'-C-(Hydroxymethyl)-D-arabinopentofuranosylpyrimidine Nucleosides. *Coll. Czech. Chem. Commun.*, 2006, 71, 1063-1087.
- 146. Roy, A. M.; Tiwari, K. N.; Parker, W. B.; Secrist, J. A. III; Li, R.; Qu, Z. Anti-angiogenic Activity of 4'-Thio-β-D-arabinofuranosylcytosine (T-araC). *Mol. Cancer. Ther.*, 2006, *5*, 2218-2224.
- 147. Huang, Z; Murray, M. C.; Secrist, J. A. III. Recent Development of Therapeutics for chronic HCV Infection. *Antiviral Res.*, 2006, 71, 351-362.

- 148. Bonate, P. L.; Arthaud, L.; Cantrell, W. R. Jr.; Stephenson, K.; Secrist, J. A. III; Weitman, S. Discovery and Development of Clofarabine: A Nucleoside Analogue for Treating Cancer. *Nature Reviews*, 2006, 5, 855-863.
- 149. Brooks, W. H.; McCloskey, D. E.; Daniel, K. G.; Ealick, S. E.; Secrist, J. A. III; Waud, W. R.; Pegg, A. E.; Guida, W. C. *In silico* Chemical Library Screening and Experimental Validation of a Novel 9-Aminoacridine Based Lead-Inhibitor of Human S-Adenosylmethionine Decarboxylase. *J. Chem. Inf. Model.*, 2007, 47, 1897-1905.
- 150. Lazrek, H. B.; Vasseur, J. J.; Secrist, J. A. III; Engels, J. W. A Glutaric Acid Ester as Carrier System for Sustained Delivery of Lamuvidine (3TC) dimers. *Nucleosides, Nucleotides, and Nucleic Acids*, 2007, 26, 1103-1106.
- 151. Goldman, R. C.; Laughon, B. E.; Reynolds, R. C.; Secrist, J. A. III; Maddry, J. A.; Guie, M.-A.; Poffenberger, A. C.; Kwong, C. A.; Ananthan, S. Programs to Facilitate Tuberculosis Drug Discovery: The Tuberculosis Antimicrobial Acquisition and Coordinating Facility. *Infectious Disorders: Drug Targets*, 2007, 7, 92-104.
- 152. Cariveau, M. J.; Stackhouse, M.; Cui, X.-L.; Tiwari, K.; Waud, W.; Secrist, J. A. III; Xu, B. Clofarabine Acts as Radiosensitizer *In Vitro* and *In Vivo* by Interfering with DNA Damage Response. *Int. J. Radiation Oncology Biol. Phys.*, 2008, 70, 213-220.
- 153. Kern, E. R.; Prichard, M. N.; Quenelle, D. B.; Keith, K. A.; Tiwari, K. N.; Maddry, J. A.; Secrist, J. A. III. Activities of Certain 5-Substituted 4'-Thiopyrimidine Nucleosides against Orthopoxvirus Infections. *Antimicrob. Agents Chemother.*, 2009, 53, 572-579. PMCID: 2630668.
- 154. McCloskey, D. E.; Bale, S.; Secrist, J. A. III; Tiwari, A.; Moss, T. H. III; Valiyaveettil, J.; Brooks, W. H.; Guida, W. C.; Pegg, A. E.; Ealick, S. E. New Insights into the Design of Inhibitors of Human S-Adenosylmethionine Decarboxylase: Studies of Adenine C⁸ Substitution in Structural Analogues of S-Adenosylmethionine. J. Med. Chem., 2009, 52, 1388-1407. PMCID: 2652407.
- 155. Hassan, A. E. A.; Parker, W. B.; Allan, P. W.; Secrist, J. A. III. Regioselective Metalation of 6-Methylpurines: Synthesis of Fluoromethyl Purines and Related Nucleosides for Suicide Gene Therapy of Cancer. *Nucleosides, Nucleotides, and Nucleic Acids*, 2009, 28, 642-656.
- 156. Tiwari, K. N.; Shortnacy-Fowler, A. T.; Parker, W. B.; Waud, W. R.; Secrist, J. A. III. Synthesis and Anticancer Evaluation of 4'-C-Methyl-2'-fluoro *Arabino* Nucleosides. *Nucleosides, Nucleotides, and Nucleic Acids*, 2009, 28, 657-677.
- 157. Ananthan, S.; Faaleolea, E. R.; Goldman, R. C.; Hobrath, J. V.; Kwong, C. D.; Laughon, B. E.; Maddry, J. A.; Mehta, A.; Rasmussen, L.; Reynolds, R. C.; Secrist, J. A. III; Shindo, N.; Showe, D. N.; Sosa, M. I.; Suling, W. J.; White, E. L. High Throughput Screening for Inhibitors of Mycobacterium tuberculosis H37Rv. Tuberculosis, 2009, 89, 334-353. (PMC Journal In Process)
- 158. Maddry, J. A.; Ananthan, S.; Goldman, R. C.; Hobrath, J. V.; Kwong, C. D.; Maddox, C.; Rasmussen, L.; Reynolds, R. C.; Secrist, J. A. III; Sosa, M. I.; White, E. L.; Zhang, W. Antituberculosis Activity of the Molecular Libraries Screening Center Network Library. *Tuberculosis*, 2009, 89, 354-363. PMCID: 2792876.
- 159. Prichard, M. N.; Quenelle, D. C.; Hartline, C. B.; Harden, E. A.; Jefferson, G.; Frederick, S. L.; Daily, S. L.; Whitley, R. J.; Tiwari, K. N.; Maddry, J. A.; Secrist, J. A. III; Kern, E. R. Inhibition of Herpesvirus Replication by 5-Substituted 4'-Thiopyrimidine Nucleosides. *Antimicrob. Agents Chemother.*, 2009, 53, 5251-5258. PMCID: 2786333

- 160. O'Konek, J. J.; Ladd, B.; Flanagan, S. A.; Im, M. M.; Boucher, P. D.; Thepsourinthone, T. S.; Secrist, J. A. III; Shewach, D. S. Alteration of the Carbohydrate for Deoxyguanosine Analogs Markedly Changes DNA Replication Fidelity, Cell Cycle Progression and Cytotoxicity. *Mutat. Res.: Fundam. Mol. Mech. Mutagen.*, 2010, 684, 1-10. PMCID: 3038579.
- 161. Waud, W.R.; Gilbert, K.S.; Secrist, J.A. III. Lack of in vivo Cross-resistance with 4'-Thio-ara-C Against Drug-resistant Murine P388 and L1210 Leukemias. *Cancer Chemother. Pharmacol.*, 2011, 68, 399-403. (Published Online 10 November 2010, DOI 10.1007/s00280-010-1498-3). PMCID: 3128691.
- 162. Everts, E.; Knight, W.B.; Harris, D.R.; **Secrist, J.A. III**; Whitley, R.J. The Alabama Drug Discovery Alliance: A Collaborative Partnership to Facilitate Academic Drug Discovery. *Pharm. Res.*, Published Online 30 March 2011, DOI 10.1007/s11095-011-0432-7. PMCID: 3161513.
- 163. Reynolds, R.C.; Ananthan, S.; Faaleolea, E.; Hobrath, J.V.; Kwong, C.D.; Maddox, C.; Rasmussen, L.; Sosa, M.I.; Thammasuvimol, E.; White, E.L.; Zhang, W.; Secrist, J.A. III. High Throughput Screening of a Library Based on Kinase Inhibitor Scaffolds Against *Mycobacterium Tuberculosis* H37Rv. *Tuberculosis*, 2012, 92, 72-83. [Epub ahead of print 2011 Jun 25] PMCID: 3183257.
- 164. Sečkutė, J.; McCloskey, D.E.; Thomas, H.J.; Secrist, J.A. III; Pegg, A.E.; Ealick, S.E. Binding and Inhibition of Human Spermidine Synthase by Decarboxylated S-adenosylhomocysteine. *Protein Sci.*, 2011, 20, 1836-1844. (PubMed in process)
- 165. Waud, W.R.; Gilbert, K.S.; Parker, W.B.; Secrist, J.A. III. Isolation and Characterization of a Murine P388 Leukemia Line Resistant to Clofarabine. *Nucleosides, Nucleotides, and Nucleic Acids*, 2011, 30, 826-838.
- 166. Hassan, A.E.A.; Abou-Elkhair, R.A.I.; Riordan, J.M.; Allan, P.W.; Parker, W.B.; Khare, R.; Waud, W.R.; Montgomery, J.A.; Secrist, J.A. III. Synthesis and Evaluation of the Substrate Activity of C-6 Substituted Purine Ribosides with E. coli Purine Nucleoside Phosphorylase: Palladium Mediated Cross-Coupling of Organozinc Halides with 6-Chloropurine Nucleosides. Eur. J. Med. Chem., 2012, 47, 167-174.
- 167. Kwong, C.D.; Clark, J.L.; Fowler, A.T.; Geng, F.; Kezar, H.S. III; Roychowdhury, A.; Reynolds, R.C.; Maddry, J.A.; Ananthan, S.; Secrist, J.A. III; Shih, N.-Y.; Piwinski, J.J.; Li, C.; Feld, B.; Huang, H.-C.; Tong, X.; Njoroge, F.G.; Arasappan, A. Novel Substituted Pyrimidines as HCV Replication (Replicase) Inhibitors. *Bioorg. Med. Chem. Lett.* 2012, 22, 1160-1164.
- 168. Arasappan, Ashok; Bennett, Frank; Girijavallabhan, Vinay; Huang, Yuhua; Huelgas, Regina; Alvarez, Carmen; Chen, Lei; Gavalas, Stephen; Kim, Seong-Heon; Kosinski, Aneta; Pinto, Patrick; Rizvi, Razia; Rossman, Randall; Shankar, Bandarpalle; Tong, Ling; Velazquez, Francisco; Venkatraman, Srikanth; Verma, Vishal A.; Kozlowski, Joseph; Shih, Neng-Yang; Piwinski, John J.; MacCoss, Malcolm; Kwong, Cecil D.; Clark, Jeremy L.; Fowler, Anita T.; Geng, Feng; Kezar, Hollis S. III; Roychowdhury, Abhijit; Reynolds, Robert C.; Maddry, Joseph A.; Ananthan, Subramaniam; Secrist, John A. III; Li, Cheng; Chase, Robert; Curry, Stephanie; Huang, Hsueh-Cheng; Tong, Xiao; Njoroge, F. George. 5-Benzothiazole substituted pyrimidine derivatives as HCV replication (replicase) inhibitors. Bioorg. Med. Chem. Lett., 2012, 22, 3229-3234.
- 169. Bennett, Frank; Kezar, Hollis S. III; Girijavallabhan, Vinay; Huang, Yuhua; Huelgas, Regina; Rossman, Randall; Shih, Neng-Yang; Piwinski, John J.; MacCoss, Malcolm; Kwong, Cecil D.; Clark, Jeremy L.; Fowler, Anita T.; Geng, Feng; Roychowdhury, Abhijit; Reynolds, Robert C.; Maddry, Joseph A.; Ananthan, Subramaniam; Secrist, John A. III; Li, Cheng; Chase, Robert; Curry, Stephanie; Huang, Hsueh-Cheng; Tong, Xiao; Njoroge, F. George; Arasappan, Ashok. Pyridofuran substituted pyrimidine derivatives as HCV replication (replicase) inhibitors. Bioorg. Med. Chem. Lett., 2012, 22, 5144-5149.

- 170. Girijavallabhan, Vinay M.; Alvarez, Carmen; Bennett, Frank; Chen, Lei; Gavalas, Stephen; Huang, Yuhua; Kim, Seong-Heon; Kosinski, Aneta; Pinto, Patrick; Rizvi, Razia; Rossman, Randall; Shankar, Bandarpalle; Tong, Ling; Velazquez, Francisco; Venkatraman, Srikanth; Verma, Vishal A.; Kozlowski, Joseph; Shih, Neng-Yang; Piwinski, John J.; MacCoss, Malcolm; Kwong, Cecil D.; Bansal, Namita; Clark, Jeremy L.; Fowler, Anita T.; Kezar, Hollis S. III; Valiyaveettil, Jacob; Reynolds, Robert C.; Maddry, Joseph A.; Ananthan, Subramaniam; Secrist, John A. III; Li, Cheng; Chase, Robert; Curry, Stephanie; Huang, Hsueh-Cheng; Tong, Xiao; Njoroge, F. George; Arasappan, Ashok. Synthesis and SAR of pyridothiazole substituted pyrimidine derived HCV replication inhibitors. *Bioorg. Med. Chem. Lett.*, 2012, 22, 5652-5657.
- 171. Verma, Vishal A.; Rossman, Randall; Bennett, Frank; Chen, Lei; Gavalas, Stephen; Girijavallabhan, Vinay; Huang, Yuhua; Kim, Seong-Heon; Kosinski, Aneta; Pinto, Patrick; Rizvi, Razia; Shankar, Bandarpalle; Tong, Ling; Velazquez, Francisco; Venkatraman, Srikanth; Kozlowski, Joseph; MacCoss, Malcolm; Kwong, Cecil D.; Bansal, Namita; Kezar, Hollis S. III; Reynolds, Robert C.; Maddry, Joseph A.; Ananthan, Subramaniam; Secrist, John A. III; Li, Cheng; Chase, Robert; Curry, Stephanie; Huang, Hsueh-Cheng; Tong, Xiao; Njoroge, F. George; Arasappan, Ashok. Synthesis and SAR of geminal substitutions at the C5' carbosugar position of pyrimidine-derived HCV inhibitors. *Bioorganic & Medicinal Chemistry Letters*, 2012, 22, 6967-6973.
- 172. Waud, W.R.; Parker, W.B.; Gilbert, K.S.; Secrist, J.A. III. Isolation and Characterization of a Murine P388 Leukemia Line Resistant to Thiarabine. *Nucleosides, Nucleotides, and Nucleic Acids*, 2012, 31, 14-27.
- 173. Elayadi, H; Mesnaoui, M.; Korba, B.E.; Smietana, M.; Vasseur, J.J.; **Secrist, J.A. III**; Lazrek, H.B. Preparation of 1,4-disubstituted-1,2,3-triazolo ribonucleosides by Na₂CuP₂O₇ catalyzed azide-alkyne 1,3-dipolar cycloaddition. *ARKIVOC*, 2012, 76-89.
- 174. Waud, W.R.; Gilbert, K.S.; Secrist, J.A. III. Preclinical Combination Therapy of Thiarabine Plus Various Clinical Anticancer Agents. *Nucleosides, Nucleotides and Nucleic Acids*, 2012, 31, 630-646.
- 175. Waud, W.R.; Gilbert, K.S.; Secrist, J.A. III. Preclinical Antitumor Activity of Thiarabine in Human Leukemia and Lymphoma Xenograft Models, Nucleosides, Nucleotides and Nucleic Acids. *Nucleosides, Nucleotides and Nucleic Acids*, 2012, 31, 647-660.

Chapters

- 1. Nucleoside Analogs as Antiviral Agents. J. A. Montgomery and J. A. Secrist III. *Biological Methylation and Drug Design*, R. T. Borchardt, C. R. Creveling, and P. M. Euland, Eds., Humana Press, Inc., New Jersey: 1986, pp. 409-416.
- 2. The Nucleosides. J. A. Secrist III. Carbohydrate Chemistry, J. F. Kennedy, Ed., Clarendon Press, Oxford, United Kingdom: 1988, pp. 134-195.
- 3. Use of Unstabilized Carbohydrate Ylides for the Synthesis of Long-Chain Carbohydrates. J. A. Secrist III, K. D. Barnes, and S.-R. Wu. *Trends in Synthetic Carbohydrate Chemistry*, D. Horton, L. D. Hawkins and G. J. McGarvey, Eds., ACS Symposium Series, Washington, D. C.: 1989, pp. 93-106.
- 4. Synthesis of Non-Ionic Oligonucleotide Analogs. J. A. Maddry; R. C. Reynolds; J. A. Montgomery; J. A. Secrist III. In *Carbohydrates: Synthesis Method and Application in Antisense Therapeutics*, Y. S. Sanghvi; P. D. Cook, Eds.; ACS Books; Washington, D. C.: 1994, pp. 1-14.
- 5. 2'-Deoxyribonucleoside Analogues. J. A. Secrist III. In Cancer Chemotherapeutic Agents; W. O.

Foye, Ed.; American Chemical Society, Washington, D. C.: 1995, pp. 71-82.

- 6. Design of Purine Nucleoside Phosphorylase Inhibitors. Y. S. Babu; J. A. Montgomery; C. E. Bugg; W. M. Carson; V. L. Narayana; W. J. Cook; S. E. Ealick; W. C. Guida; M. D. Erion; J. A. Secrist III. In *Structure-Based Drug Design*, P. Veerapandian, Ed.; Marcel Dekker, Inc., New York: 1997, pp. 151-169.
- 7. Synthesis and Biological Activity of 2'-Fluoro-D-arabinofuranosylpyrazolo[3,4-d]pyrimidine Nucleosides. A. T. Shortnacy-Fowler; K. N. Tiwari; J. A. Montgomery; R. W. Buckheit, Jr.; J. A. Secrist III; F. Seela. In *Perspectives in Nucleoside and Nucleic Acid Chemistry*; M. V. Kisakürek; H. Rosemeyer, Eds.; VHCA, Verlag Helvetica Chimica Acta, Zürich, Switzerland/WILEY-VCH, Weinheim, Federal Republic of Germany: 2000, pp. 11-16.
- 8. Clofarabine: From Design to Approval. J. A. Secrist III; J. V. Thottassery; W. B. Parker. In *Modified Nucleosides in Biochemistry, Biotechnology and Medicine*; P. Herdewijn, Ed.; WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim, Federal Republic of Germany: 2008, pp. 631-646.

NORTHFIELD TOWNSHIP

MEMO

To: Northfield Township Board

From: Howard Fink

Date: 1/19/2016

Re: McKenna

Dear Township Board,

As I have stated previously, I am recommending moving forward with McKenna and Associates. Phil McKenna has suggested a senior vice president planner to work with the Planning Commission and Township. While there are times when a more junior associate will be working on our account, the hourly rate will generally be higher than in previous contracts. Also, Kurt Weiland has requested on multiple occasions that he does not have the staff to service the Township on the Zoning Administration piece, but would like to continue in the building arena. I recommend using McKenna for Zoning Administration and to make that switch now. Attached is the contract McKenna is proposing.

Sincerely,

Howard Fink, Township Manager

January 15, 2016

Mr. Howard Fink Township Manager Township of Northfield 8350 Main Street Whitmore Lake, MI 48189

Subject: DRAFT - Professional Services Agreement

Dear Mr. Fink:

Enclosed you will find two copies of the DRAFT Professional Services Agreement for your review and approval. If you find these terms acceptable, please execute both copies and return one to us for our files.

We look forward to assisting you with this and future endeavors. Thank you.

Respectfully submitted,

McKENNA ASSOCIATES

Phillip C. McKenna, AICP, PCP President

cc: Sarah J. Hodges, AICP, IAP2 Senior Vice President

AGREEMENT FOR PROFESSIONAL AND TECHNICAL PLANNING ADVISORY SERVICES

THIS AGREEMENT, entered into this _____ day of January, 2016, by and between the NORTHFIELD TOWNSHIP, WASHTENAW COUNTY, State of Michigan, referred to as "Township" and McKENNA ASSOCIATES, INCORPORATED, a Michigan corporation of Northville, Michigan, referred to as "Consultant."

WITNESS:

SECTION 1 - AGREEMENT

For and in consideration of the faithful and workmanlike performance of the services described, the Township hereby hires the Consultant and shall pay the Consultant as described in Section 8. This agreement shall continue in effect from the date of execution until such time as there is a ninety (90) day notice of termination by either the Township or the Consultant.

SECTION 2 - RETAINER SERVICES

The Consultant for its part, hereby agrees to provide the following technical and planning advisory services:

- A. The Consultant shall attend up to twenty-four (24) regularly-scheduled Planning Commission, Zoning Board of Appeals, and Board of Trustees meetings per twelve (12) month period. At the regular meetings, the professional planner shall:
 - 1. Confer with the Chairperson and/or Township Manager regarding the agenda prior to the meeting.
 - 2. During the meeting provide guidance and assistance regarding local and State legislation, procedures, regulations and planning, zoning and design principles.
- B. On a day-to-day basis the Consultant shall provide telephone advice, assistance and coordination with Township officials, especially the Township Manager, and others doing business with the Township in all matters pertaining to administrative, advisory and legislative responsibilities, as applied to zoning, subdivision, commercial/industrial/multiple-family and other development issues, as requested by the Township.
- C. The Consultant shall make available its professional library of planning, design, development, housing, zoning and census information.
- D. The Consultant shall make the Township officials generally aware of the availability of sources of various funds and economic development mechanisms.

SECTION 3 - HOURLY RATED SERVICES

For services rendered pursuant to Section 3, the Township shall pay the Consultant at the hourly rate specified in Section 8.B., only upon request by the Township and a prior estimate from the Consultant:

- A. Provision of assistance on the Community Development Block Grant (CDBG) and Federal/State programs and assistance on other similar Federal, State and local programs which may be applicable.
- B. Preparation for and attendance at other meetings of a planning or coordinating nature, with other agencies or groups, as requested by authorized Township officials beyond those identified above in Section 2.
- C. Professional planning and related work in the maintenance of the Master Plan and interpretation and revision of the plan as required.
- D. Provision of verbal and/or written reports, reviews and recommendations or other services (e.g., extensive revisions of zoning ordinance, map and text) to the Township as specifically requested by authorized Township officials.
- E. The Consultant shall review potential land development proposals as to advisability and feasibility pursuant to the Township's land regulations and plans.
- Coordination of Township planning activities with other local, county, state, and regional agencies and authorities with jurisdiction, including but not limited to the Michigan Department of Natural Resources, and Michigan Department of Transportation, the Michigan State Housing Development Authority, when requested by the Township.
- G. Provision of other technical services related to planning, land use and spatial concerns, as may be requested by authorized Township officials.
- H. Sitting as expert witness in court cases involving the Township, for a fee equivalent to one hundred fifty percent (150%) of the hourly rate specified in Section 8.B.

- 1. Preparation of grant applications for submission to federal, state, county or other agencies.
- J. Provision of on-site planning and zoning services as requested by authorized Township officials.
- K. Provision of other professional, technical and design services as may be requested by authorized Township officials.

SECTION 4 - REVIEW SERVICES

The Consultant shall provide written technical recommendations on site plans, special approvals, rezonings, variances, and lot splits (land divisions), in accordance with the Township Zoning Ordinance and subdivision reviews in accordance with the Township Subdivision Control Ordinance. All such work shall be paid by the Township in accordance with the schedule of fees included in Section 8.C., herein.

For each review, the Consultant shall undertake the following activities:

- A. Initially review the site using aerial photos.
- Discuss the case by telephone or in person with the applicant and Township officials regarding review issues.
- C. Review relevant planning issues (not including specific technical engineering issues).
- D. Prior to scheduled review by the Township (in time for inclusion with agenda packages), submission of a written review and recommendation to the Township.

SECTION 5 - COOPERATION

The Consultant shall have the cooperation of Township officials, including the Township Manager, Clerk/Treasurer, Attorney, Engineer, and other staff and consultants in the collection of data and other information for the agreed upon services.

SECTION 6 - CONSULTANT PROVISIONS

The Consultant agrees to furnish all materials and services including salaries of employees engaged by the Consultant and other overhead expenses necessary to undertake the above services for the Township and to assume all cost, except as otherwise provided in this agreement.

SECTION 7 - TOWNSHIP PROVISIONS

If requested by the Consultant and if available, the Township shall furnish the following in digital format, or paper format if no digital version is available, without charge to the Consultant:

- A. Up-to-date copies of Township code of ordinances, including zoning construction and land division ordinances, forms, guidelines and policies.
- B. Copies of previously prepared studies, plans, census and other available data.
- C. Aerial photographs with property lines as available from Washtenaw County; reproducible GIS or CAD maps of the Township, as available.
- D. Copies of the agenda and minutes for each Planning Commission meeting, and copies of site plans, documents, applications and related information for items on each Planning Commission agenda.

SECTION 8 - COMPENSATION

For and in consideration of the faithful and professional performance and delivery of the above services as set forth herein, the Township shall pay the Consultant monthly for services pursuant to this agreement within a period of thirty (30) days after receipt from the Consultant of an itemized voucher describing services performed, and when applicable, the time spent in rendering such services at the agreed upon hourly rate, per the schedule below:

A. Retainer under Section 2

For services rendered pursuant to Section 2, the Township shall pay the Consultant a retainer of Six Hundred Ninety-Five Dollars (\$695.00 per month).

B. <u>Hourly Rated Services under Section 3</u>

For services rendered pursuant to Sections 3 above, the Township shall pay the Consultant at the hourly rate specified in the following schedule, including mileage at the rate of \$.50 per mile and one half of the travel time to Township offices, upon request by the Township:

Professional Classification	Rate Per Hour
President	\$135.00
Executive or Senior Vice President	\$130.00
Vice President	\$125.00
Director	\$120.00
Senior Principal or Manager	\$110.00
Principal	\$97.00
Senior	\$78.00
Associate	\$68.00
Zoning Building Administrator	\$60.00
Building Inspector	\$58.00
Assistant	\$55.00
Aide	\$44.00
Administrative Assistant	\$42.00

* Rates include the following overhead:

Accounting Legal
Advertising and Promotion Licenses
Books, Publications and Maps Meals

Business Entertainment Memberships and Subscriptions
Computers Office Space and Parking

Charitable Contributions Office Equipment
Professional Dues Office Supplies

Furniture and Fixtures Postage (Except Overnight)

Graphics Supplies and General Software
Insurance Taxes
Interest Telephone

C. Compensation for Services Under Section 4 Review Services

For the following reviews, fees shall be paid by the Township to the Consultant for services rendered per Section 4. of this Agreement, in accordance with the following schedule. Payment of the following fees shall not be contingent upon Township's receipt of payment from applicants. Where fees are based on hourly rates, upon request Consultant shall provide cost estimate to the Township for review services prior to commencing work.

- 1. Subdivision (plat) Review (for conventional subdivision and cluster subdivision):
 - a. Sketch Plan Review (not required, but desirable) \$30.00 per lot with \$300.00 minimum charge.
 - b. Preliminary Plat Review for Tentative Approval \$700.00 plus \$20.00 per lot.
 - c. Final Plat Review \$300.00 plus \$10.00 per lot, \$350.00 minimum charge.
 - d. Review of Covenants and Restrictions: Consultant shall be paid at hourly rates.
- 2. Site Plan Review (Each Review) The fees specified below are for review for the initial plan or proposal. The Consultant shall be paid one half (1/2) of the fee specified for review of each revision of a site plan and/or for each final review phase, except where the review fee is based on an hourly rate. In the case of fees which are based on acreage, the fee shall be based on the portion of the parcel to be developed. If the Consultant determines that the revisions are significant enough to warrant a second full review, a full review fee shall be charged.
 - a. <u>Site Condominium Developments</u> \$400.00 plus \$5.00 per site condominium lot or unit; plus the fee for review of the condominium Master Deed and Bylaws and other documents (subsection 7. below).
 - b. <u>Multiple-Family Uses or Attached Condominium Developments</u> \$600.00 plus \$10.00 per unit; plus the fee for review of the condominium Master Deed and Bylaws and other documents.
 - c. Rural Residential Open Space Developments or Cluster Housing \$650.00 plus \$10.00 per unit.
 - d. <u>Manufactured Housing Parks</u> \$600.00 plus \$10.00 per manufactured home site.
 - e. Commercial Uses \$650.00 plus \$75.00 per acre or fraction thereof.
 - f. Industrial, Research or Office Uses \$650.00 plus \$75.00 per acre or fraction thereof.
 - g. Public, Institutional or Semi-Public Uses \$600.00 plus \$50.00 per acre or fraction thereof.
 - h. Private Roads \$485.00 plus \$5.00 per abutting lot.
 - i. Planned Unit Development (PUD):
 - 1) Initial Review of PUD Plans and PUD Rezoning Application Same as the Rezoning Review fee described in item 3. below, plus the applicable Subdivision Plat, Condominium or Site Plan Review fee described in subsection 1. or 2.
 - 2) Review of Revised PUD Site Plans Same as the applicable Subdivision Plat, Condominium or Site Plan Review fee described in subsection 1. or 2. above.
- 3. Zoning Amendment Review (Map or Text) \$700.00 plus \$50.00 per acre or fraction thereof.
- 4. Special Use \$600.00, plus \$25.00 per acre in addition to applicable site plan review fee (2., above).

- 5. **Land Division, Transfer, or Combination** \$350.00 plus \$50.00 for each lot resulting or included in the combination, whichever is greater.
- 6. Appeals, Interpretations, and Variances \$300.00 per variance.
- 7. **Condominium Developments** Consultant shall be paid an additional fee of \$275.00 for review of master deed and other condominium documents, in addition to applicable rates for review services above.
- 8. Alley or ROW Vacations \$400 plus \$25.00 for each abutting lot.
- 9. Landscape Review plan not included on or with a site plan:
 - a. Plan \$300.00 plus \$30.00 per acre or fraction thereof.
 - Compliance Inspection Hourly, not to exceed 3% of approved landscape cost estimate without prior Township authorization.
- 10. **Expedited Reviews** If the Township requests a review to be completed within five (5) days (120 hours) after receipt by the Consultant, the Consultant shall be paid a fee equal to one hundred fifty percent (150%) of the above fees for written reports sent via facsimile or electronic mail to the Township within 120 hours.
- 11. **Court Witnessing** For preparation for and sitting as expert witness in court cases involving the Township, the Consultant shall be compensated at an hourly rate of one hundred forty percent (140%) of the normal hourly rates below.
- 12. Other Other services will be invoiced hourly or as mutually agreed upon between the Township and Consultant.

The retainer, hourly rates, and review fees in Section 8 are valid through March 1, 2017 after which the Consultant may increase its retainer, hourly rate, and review fees per classification by a percentage equal to the Consumer Price Index for the Detroit Metro Area as reported by the U.S. Department of Labor, Bureau of Labor Statistics.

SECTION 9 - ADDITIONAL SERVICES

For services requiring additional time or meetings beyond the scope identified in this agreement and as requested by the Township, the Consultant shall be compensated by the Township at the rate set forth in Section 8.B., herein. It is expressly understood and agreed that the compensation provided herein shall not cover the following services:

- Preparation of applications for submission to federal, State or County agencies;
- B. Traveling expenses outside Wayne and Washtenaw Counties;
- C. Preparation of area plans, tax increment financing and development plans, project management, capital improvement programs, building inspections, corridor studies, recreation plans, public relations, environmental studies, market studies, municipal department administration, program development and similar plans, programs and studies.
- D. Documented cost of printing and copying, photography, purchased maps, agency materials, and other materials for Consultant's review (Township approval prior to occurring costs).

The Consultant shall provide the above services for a separately negotiated fee.

SECTION 10 - EQUAL EMPLOYMENT OPPORTUNITY

There shall be no discrimination against any employee who is employed in the work covered by this Agreement or against any applicant for such employment because of race, color, religion, sex or nation origin. This provision shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training.

SECTION 11 - OWNERSHIP OF DATA.

All reports, charts, maps, and graphics shall become the property of the Township, and shall not be furnished to any other party without written permission of the Township.

SECTION 12 - COMPLIANCE WITH ALL LAWS

In performance of this agreement, the Consultant agrees to comply with all applicable federal, State and local statutes, ordinances and regulations, when applicable, including minimum wages, Social Security, unemployment compensation insurance, and Worker's Compensation, and to obtain any and all permits applicable to the performance of this agreement.

SECTION 13 - NO CONFLICT OF INTEREST.

During the term of this Agreement, the Consultant agrees that it shall not accept employment, nor shall it perform services for or on behalf of any client whose interests are adverse to that of the Township, or for which a conflict between the Township and Consultant would be created, without the prior written consent of the Township.

SECTION 14 - COMPLIANCE WITH CODE OF ETHICS.

The consultant agrees it shall be bound by the American Planning Association Code of Professional Ethics.

IN WITNESS WHEREOF, the Township and Consultant have executed this Agreement the day and year first above written.

WITNESS:	NORTHFIELD TOWNSHIP, WASHTENAW COUNTY, MICHIGAN
	Ву:
	Ву:
	McKENNA ASSOCIATES
	By:Phillip C. McKenna, AICP, PCP, President



INTEROFFICE MEMORANDUM

TO:

Howard Fink, Northfield Township Manager

FROM:

Brian Rubel

DATE:

January 20, 2016

SUBJECT:

Potential Sewer Use Ordinance Revisions

On January 12, 2016, Tetra Tech participated in a conference call with the Township Manager, Township WWTP Superintendent and Township legal counsel. During this call, potential revisions to the Township's ordinances were discussed. Most of these items are relate to the Whitmore Lake Road Special Assessment District sewer project although two items (prohibited items and fats, oils and grease) were being discussed prior to the SAD establishment.

We agreed to present these items for further discussion to the Board of Trustees at the January 26, 2016 workshop meeting. Tetra Tech prepared this memo to summarize the content of the January 12 conference call.

POTENTIAL SEWER USE ORDINANCE REVISIONS

GRINDER PUMP STANDARDS

- Modify the ordinance to require a standardized grinder pump (to assist Township in stocking parts and maintenance)
- Modify the ordinance to require grinder pumps be installed by contractors prequalified by Northfield Township (so only contractors with proven workmanship complete work)

FUTURE CONNECTIONS

- o Require a unique fee to the Whitmore Lake SAD for future connections made outside the SAD
- Fee likely would be \$3,000/REU in addition to the prevailing system development charge (i.e. the Township's existing connection fee)
- O Collected funds would go to pay SAD debt and not deposited to the Township's sewer fund
- Connections would likely be restricted to gravity portion of system

CONNECTION TIMELINE

- The current ordinance requires connection to new systems within 90 days of notification by Township
- o Consider modifying this to 1 year

Justifications for both a firm timeline and the 1-year duration:

- 1 year is a standard timeline in other communities and projects
- 1 year gives property owners more time than current ordinance
- A timeline ensures users connect and more connections generates the revenue needed for the Township to operate and maintain the system. More connections also reduces the O&M.
- A timeline provides justification that the sewer is needed to support the assessed funds

PROHIBITED ITEMS

 Modify the ordinance to more specifically prohibit disposing of wipes in sewer (this is a national problem, a Northfield Township problem and will be an even larger problem if not controlled in grinder pump customers)

FATS, OILS AND GREASE CONTROL

- Modify the ordinance to more specifically require grease traps at large food preparation facilities
- Require traps to be maintained, inspected and sampled (sampling performed to verify their effectiveness)

NORTHFIELD TOWNSHIP

MEMO

To: Northfield Township Board

From: Howard Fink

Date: 1/19/2016

Re: Verizon Wireless Cell Phone Tower

Dear Township Board,

A few months ago, the Verizon Cell Phone tower contract was on a Workshop agenda. The board chose not to put this on as an Agenda item. Verizon has since returned and altered the contract terms, providing the township some potential for additional revenue (although has lowered the annual rent escalator). Verizon is proposing to require that any companies wishing to co-locate on the tower must negotiate a new land lease with the Township Directly. This change also allows us to have a bit more control over any co-locators.

In total, Verizon has changed the following items in the proposed lease:

- 1. Lease area reduced to 40' x 50' (from 50'x 50')
- 2. Section 22: Any additional co-locators will be required to obtain a ground lease from the township.
- 3. Section 5: Annual rent escalator changed to 2% (this was decreased from 3%).

I, along with Chief Wagner, am recommending approval of this lease, as the fire department would greatly benefit from the lease revenue. I have invited Verizon to be at this workshop if there are any questions.

Sincerely,

Howard Fink, Township Manager



LAW OFFICE OF PAUL E. BURNS

Attorneys at Law
133 West Grand River
Brighton, Michigan 48116
(810) 227-5000 FAX (810) 220-5895

Paul E. Burns Bradford L. Maynes

ATTORNEY-CLIENT PRIVILEGED CONFIDENTIAL COMMUNICATION

September 17, 2015

VIA ELECTRONIC MAIL

Northfield Township Board of Trustees Township of Northfield 8350 Main Street Whitmore Lake, Michigan 48189

Re: Proposed Lease Agreement with New Par, d/b/a Verizon Wireless

Dear Trustees,

Our office, along with the Township Manager, has been negotiating with New Par regarding a lease proposed for a cell tower facility to be located on a portion of the Fire Station property located at 2727 E. North Territorial Road. The attached, proposed lease represents a long period of negotiation, and it is our understanding that it is not likely that New Par will further negotiate the relevant terms of the lease. The Township Manager has requested that our office prepare a legal review of the proposed lease. Please find that review below.

The proposed lease with New Par is for a 50' by 50' parcel of land located roughly northwest of the existing fire station on North Territorial Road, along with easement rights to access the parcel and bring utilities to it. Rent will be paid in monthly installments, for a total of \$16,800 annually, with an annual rent escalator of 3%. The term of the lease is for five years, with four automatic five-year extensions, unless New Par elects not to exercise the extensions. Our legal review has disclosed three paragraphs of the proposed lease that are not in keeping with our typical legal recommendations, but are not legally prohibited. Accordingly, it is a business decision for the Township as to whether these terms are acceptable given the income to be received by the Township.

Paragraph 4 - Extensions

Paragraph 4 of the proposed lease provides as follows:

4. EXTENSIONS.

- a. Subject to the provisions of Paragraph 4(b), below, this Agreement shall automatically be extended for four (4) additional five (5) year terms unless LESSEE terminates it at the end of the then current term by giving LESSOR written notice of the intent to terminate at least six (6) months prior to the end of the then current term.
- b. LESSOR may terminate the agreement, effective eighteen months after the end of the second renewal term, by giving LESSEE written notice of its intention to terminate the agreement no later than the end of the second renewal term.

It is generally our recommendation that the Township should have, at least, an equal right to terminate an agreement as New Par does. New Par is unwilling to agree to offer an identical right to terminate to the Township, but has agreed to allow the Township the ability to terminate the lease after the second five-year extension – effectively after a total of 15 years of the lease.

Paragraph 16 - Limited Right of First Refusal

Paragraph 16 of the proposed lease provides, in relevant part, as follows:

16. LIMITED RIGHT OF FIRST REFUSAL. If LESSOR elects, during the Term to grant to a non-governmental third party, by easement or other legal instrument, an interest in and to the Premises, for the purpose of operating and maintaining communications facilities or the management thereof, with or without an assignment of this Agreement to such third party, LESSEE shall have the right of first refusal to meet any bona fide offer of transfer on the same terms and conditions of such offer. If LESSEE fails to meet such bona fide offer within thirty (30) days after written notice thereof from LESSOR, LESSOR may grant the easement or interest in the Premises to such non-governmental third person in accordance with the terms and conditions of such third party offer...

(emphasis added). Broad rights of first refusal are generally disfavored, as they greatly limit the marketability of real estate. Additionally, a broad right of first refusal can have substantial value in addition to the value of a lease. In the present instance, our office and the Township Manager have negotiated with New Par to greatly limit the scope of the Limited Right of First Refusal by adding the emphasized language, above, to minimize the above concerns.

Paragraph 22 - Assignment

Paragraph 22 of the proposed lease provides, in relevant part, as follows:

Northfield Township Board of Trustees September 17, 2015 Page 3

22. <u>ASSIGNMENT</u>. This Agreement may be sold, assigned or transferred by the LESSEE without any approval or consent of the LESSOR to the LESSEE's principal, affiliates, subsidiaries of its principal or to any entity which acquires all or substantially all of LESSEE's assets in the market ... As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of the LESSOR, which such consent will not be unreasonably withheld, delayed or conditioned...

Generally, it is our recommendation that leases contain very limited ability for the lessee to assign the lease without the unilateral approval of the Township, so that the Township may maintain entire control over who it has business relationships with.

Subject to the concerns set forth above, if the Township makes the business decision to accept the above terms in exchange for the negotiated lease payments, the proposed lease is in a legally acceptable form for adoption.

Please contact our office if you have any questions in this regard.

Very truly yours,

Bradford L. Maynes

cc: Mr. Howard Fink

JC3666-13

Draft Date: January 11, 2016

LAND LEASE AGREEMENT

This Agreement, made this day of	_, 20	between	Northfield
Township, a Michigan municipal corporation, with its principal mailing address	ess of 83	50 Main Street,	Whitmore
Lake, Michigan 48189, hereinafter designated LESSOR and New Par, a De	elaware	partnership d/b	/a Verizon
Wireless, with its principal office located at One Verizon Way, Mail Stop 4A	W100,	Basking Ridge, 1	New Jersey
07920 (telephone number 866-862-4404), hereinafter designated LESSEE. The	e LESSC	R and LESSEE a	are at times
collectively referred to hereinafter as the "Parties" or individually as the "Party".			

1. PREMISES. LESSOR hereby leases to LESSEE a portion of that certain parcel of property (the entirety of LESSOR's property is referred to hereinafter as the Property), located at 2727 E. North Territorial Road, Whitmore Lake, Washtenaw County, Michigan 48189, and being described as an 50' by 40' parcel containing approximately two thousand square feet (the "Land Space"), together with the non-exclusive right (the "Rights of Way") for ingress and egress, seven (7) days a week twenty-four (24) hours a day, on foot or motor vehicle, including trucks over or along a thirty (30') foot wide right-of-way and a ten (10') foot wide right-of-way extending from the nearest public right-of-way, North Territorial Road, to the Land Space, and for the installation and maintenance of utility wires, poles, cables, conduits, and pipes over, under, or along one or more rights of way from the Land Space, said Land Space and Rights of Way (hereinafter collectively referred to as the "Premises") being substantially as described herein in Exhibit "A" attached hereto and made a part hereof. The Property is also shown on the Tax Map of the Township of Northfield as Tax Parcel Id No: B-02-27-100-003 and is further described in Liber 1542, Page 137 of the Washtenaw County Register of Deeds.

In the event any public utility is unable to use the Rights of Way, the LESSOR hereby agrees to grant an additional right-of-way either to the LESSEE or to the public utility at no cost to the LESSEE, provided, however, that the location of the additional rights-of-way, if any, shall be as reasonably designated by LESSOR.

2. <u>SURVEY</u>. LESSOR also hereby grants to LESSEE the right to survey the Property and the Premises, and said survey shall then become Exhibit "B" which shall be attached hereto and made a part hereof, and shall control in the event of boundary and access discrepancies between it and Exhibit "A". Cost for such work shall be borne by the LESSEE.

3. TERM; RENTAL.

This Agreement shall be effective as of the date of execution by both Parties, provided, however, the initial term shall be for five (5) years and shall commence on the Commencement Date (as hereinafter defined) at which time rental payments shall commence and be due at a total annual rental of Sixteen Thousand Eight Hundred Dollars (\$16,800.00) to be paid in equal monthly installments on the first day of the month, in advance, to LESSOR at the notice address below or to such other person, firm or place as LESSOR may, from time to time, designate in writing at least thirty (30) days in advance of any rental payment date by notice given in accordance with Paragraph 23 below. The Agreement shall commence based upon the date LESSEE commences installation of the equipment on the Premises, or on the first day of January, 2017, whichever occurs first. In the event the date of commencing installation of equipment is determinative and such date falls between the 1st and 15th of the month, the Agreement shall commence on the 1st of that month and if such date falls between the 16th and 31st of the month, then the Agreement shall commence on the 1st day of the following month (either of the foregoing or January 1, 2017, if applicable, being the "Commencement Date"). LESSOR and LESSEE agree that they shall acknowledge in writing the Commencement Date in the event the Commencement Date is based upon the date LESSEE commences installation of the equipment on the Premises. In the event the Commencement Date is the fixed date set forth above, there shall be no written acknowledgement required. LESSOR and LESSEE acknowledge and agree that initial rental payment(s) shall not actually be sent by LESSEE until forty-five (45) days after the Commencement Date or after a written acknowledgement confirming the Commencement Date, if such an acknowledgement is required. By way of illustration of the preceding sentence, if the Commencement Date is January 1 and no written acknowledgement confirming the Commencement Date is required, LESSEE shall send to the LESSOR the rental payments for January 1 and February 1 by February 15, and if the Commencement Date is

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January 1 and a required written acknowledgement confirming the Commencement Date is dated January 14, LESSEE shall send to the LESSOR the rental payments for January 1 and February 1 by February 28.

Upon agreement of the Parties, LESSEE may pay rent by electronic funds transfer and in such event, LESSOR agrees to provide to LESSEE bank routing information for such purpose upon request of LESSEE.

b. LESSOR hereby agrees to provide to LESSEE certain documentation (the "Rental Documentation") evidencing LESSOR's interest in, and right to receive payments under, this Agreement, including without limitation: (i) documentation, acceptable to LESSEE in LESSEE's reasonable discretion, evidencing LESSOR's good and sufficient title to and/or interest in the Property and right to receive rental payments and other benefits hereunder; (ii) a complete and fully executed Internal Revenue Service Form W-9, or equivalent, in a form acceptable to LESSEE, for any party to whom rental payments are to be made pursuant to this Agreement; and (iii) other documentation requested by LESSEE in LESSEE's reasonable discretion. From time to time during the Term of this Agreement and within thirty (30) days of a written request from LESSEE, LESSOR agrees to provide updated Rental Documentation in a form reasonably acceptable to LESSEE. The Rental Documentation shall be provided to LESSEE in accordance with the provisions of and at the address given in Paragraph 23. Delivery of Rental Documentation to LESSEE shall be a prerequisite for the payment of any rent by LESSEE and notwithstanding anything to the contrary herein, LESSEE shall have no obligation to make any rental payments until Rental Documentation has been supplied to LESSEE as provided herein.

Within fifteen (15) days of obtaining an interest in the Property or this Agreement, any assignee(s), transferee(s) or other successor(s) in interest of LESSOR shall provide to LESSEE Rental Documentation in the manner set forth in the preceding paragraph. From time to time during the Term of this Agreement and within thirty (30) days of a written request from LESSEE, any assignee(s) or transferee(s) of LESSOR agrees to provide updated Rental Documentation in a form reasonably acceptable to LESSEE. Delivery of Rental Documentation to LESSEE by any assignee(s), transferee(s) or other successor(s) in interest of LESSOR shall be a prerequisite for the payment of any rent by LESSEE to such party and notwithstanding anything to the contrary herein, LESSEE shall have no obligation to make any rental payments to any assignee(s), transferee(s) or other successor(s) in interest of LESSOR until Rental Documentation has been supplied to LESSEE as provided herein.

4. EXTENSIONS.

- a. Subject to the provisions of Paragraph 4(b), below, this Agreement shall automatically be extended for four (4) additional five (5) year terms unless LESSEE terminates it at the end of the then current term by giving LESSOR written notice of the intent to terminate at least six (6) months prior to the end of the then current term.
- b. LESSOR may terminate the agreement, effective eighteen months after the end of the second renewal term, by giving LESSEE written notice of its intention to terminate the agreement no later than the end of the second renewal term.
- 5. <u>RENTAL INCREASES</u>. The annual rental throughout the initial term described in Paragraph 3 and any Extensions described in Paragraph 4 shall increase at a rate of **2% annually**.
- 6. <u>ADDITIONAL EXTENSIONS</u>. If at the end of the fourth (4th) five (5) year extension term this Agreement has not been terminated by either Party by giving to the other written notice of an intention to terminate it at least three (3) months prior to the end of such term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of five (5) years and for five (5) year terms thereafter until terminated by either Party by giving to the other written notice of its intention to so terminate at least three (3) months prior to the end of such term. Annual rental for each such additional five (5) year term shall be equal to the annual rental payable with respect to the immediately preceding five (5) year term. The initial term and all extensions shall be collectively referred to herein as the "Term".
- 7. <u>TAXES</u>. LESSEE shall have the responsibility to pay any personal property, real estate taxes, assessments, or charges owed on the Property which LESSOR demonstrates is the result of LESSEE's use of the

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Premises and/or the installation, maintenance, and operation of the LESSEE's improvements, and any sales tax imposed on the rent (except to the extent that LESSEE is or may become exempt from the payment of sales tax in the jurisdiction in which the Property is located), including any increase in real estate taxes on the Property which LESSOR demonstrates arises from the LESSEE's improvements and/or LESSEE's use of the Premises. LESSOR and LESSEE shall each be responsible for the payment of any taxes, levies, assessments and other charges imposed including franchise and similar taxes imposed upon the business conducted by LESSOR or LESSEE at the Property. Notwithstanding the foregoing, LESSEE shall not have the obligation to pay any tax, assessment, or charge that LESSEE is disputing in good faith in appropriate proceedings prior to a final determination that such tax is properly assessed provided that no lien attaches to the Property. Nothing in this Paragraph shall be construed as making LESSEE liable for any portion of LESSOR's income taxes in connection with any Property or otherwise. Except as set forth in this Paragraph, LESSOR shall have the responsibility to pay any personal property, real estate taxes, assessments, or charges owed on the Property and shall do so prior to the imposition of any lien on the Property.

LESSEE shall have the right, at its sole option and at its sole cost and expense, to appeal, challenge or seek modification of any tax assessment or billing for which LESSEE is wholly or partly responsible for payment. LESSOR shall reasonably cooperate with LESSEE at LESSEE's expense in filing, prosecuting and perfecting any appeal or challenge to taxes as set forth in the preceding sentence, including but not limited to, executing any consent, appeal or other similar document. In the event that, as a result of any appeal or challenge by LESSEE, there is a reduction, credit or repayment received by the LESSOR for any taxes previously paid by LESSEE, LESSOR agrees to promptly reimburse to LESSEE the amount of said reduction, credit or repayment. In the event that LESSEE does not have the standing rights to pursue a good faith and reasonable dispute of any taxes under this paragraph, LESSOR will pursue such dispute at LESSEE's sole cost and expense upon written request of LESSEE.

- USE; GOVERNMENTAL APPROVALS. LESSEE shall use the Premises for the purpose of constructing, maintaining, repairing and operating a communications facility and uses incidental thereto. A security fence consisting of chain link construction or similar but comparable construction may be placed around the perimeter of the Premises at the discretion of LESSEE (not including the access easement). All improvements, equipment, antennas and conduits shall be at LESSEE's expense and their installation shall be at the discretion and option of LESSEE. LESSEE shall have the right to replace, repair, add or otherwise modify its utilities, equipment, antennas and/or conduits or any portion thereof and the frequencies over which the equipment operates, whether the equipment, antennas, conduits or frequencies are specified or not on any exhibit attached hereto, during the Term. It is understood and agreed that LESSEE's ability to use the Premises is contingent upon it obtaining, after the execution date of this Agreement, all of the certificates, permits and other approvals (collectively the "Governmental Approvals") that may be required by any Federal, State or Local authorities as well as satisfactory soil boring tests which will permit LESSEE's use of the Premises as set forth above. LESSOR shall cooperate with LESSEE in its effort to obtain such approvals and shall take no action which would adversely affect the status of the Property with respect to the proposed use thereof by LESSEE. In the event that: (i) any of such applications for such Governmental Approvals should be finally rejected; (ii) any Governmental Approval issued to LESSEE is canceled, expires, lapses, or is otherwise withdrawn or terminated by governmental authority; (iii) LESSEE determines that such Governmental Approvals may not be obtained in a timely manner; (iv) LESSEE determines that any soil boring tests are unsatisfactory; (v) LESSEE determines that the Premises is no longer technically compatible for its use; or (vi) LESSEE, in its sole discretion, determines that the use the Premises is obsolete or unnecessary, LESSEE shall have the right to terminate this Agreement. Notice of LESSEE's exercise of its right to terminate shall be given to LESSOR in writing by certified mail, return receipt requested, and shall be effective upon the mailing of such notice by LESSEE, or upon such later date as designated by LESSEE. All rentals paid to said termination date shall be retained by LESSOR. Upon such termination, this Agreement shall be of no further force or effect except to the extent of the representations, warranties and indemnities made by each Party to the other hereunder. Otherwise, the LESSEE shall have no further obligations for the payment of rent to LESSOR.
- 9. <u>INDEMNIFICATION</u>. Subject to Paragraph 10 below, LESSEE shall indemnify and hold LESSOR harmless against any claim of liability or loss from personal injury or property damage resulting from or arising out of the negligence or willful misconduct of LESSEE, its employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the negligence or willful misconduct of the other Party, or its employees, contractors or agents.

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10. INSURANCE.

- a. The Parties hereby waive and release any and all rights of action for negligence against the other which may hereafter arise on account of damage to the Premises or to the Property, resulting from any fire, or other casualty of the kind covered by standard fire insurance policies with extended coverage, regardless of whether or not, or in what amounts such insurance is now or hereafter carried by the Parties, or either of them. These waivers and releases shall apply between the Parties and they shall also apply to any claims under or through either Party as a result of any asserted right of subrogation. All such policies of insurance obtained by either Party concerning the Premises or the Property shall waive the insurer's right of subrogation against the other Party.
- b. LESSOR and LESSEE each agree that, at its own cost and expense, each will maintain commercial general liability insurance with limits not less than \$1,000,000 for injury to or death of one or more persons in any one occurrence and \$500,000 for damage or destruction to property in any one occurrence. LESSOR and LESSEE each agree that it will include the other Party as an additional insured.
- 11. <u>LIMITATION OF LIABILITY</u>. Except for indemnification pursuant to Paragraphs 9 and 29, neither Party shall be liable to the other, or any of their respective agents, representatives, employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

12. INTENTIONALLY OMITTED.

- 13. <u>INTERFERENCE</u>. LESSEE agrees to install equipment of the type and frequency which will not cause harmful interference, which is measurable in accordance with then existing industry standards, to any equipment of LESSOR or other lessees of the Property which existed on the Property prior to the date this Agreement is executed by the Parties. In the event any after-installed LESSEE's equipment causes such interference, and after LESSOR has notified LESSEE in writing of such interference, LESSEE will take all commercially reasonable steps necessary to correct and eliminate the interference, including but not limited to, at LESSEE's option, powering down such equipment and later powering up such equipment for intermittent testing. In no event will LESSOR be entitled to terminate this Agreement or relocate the equipment as long as LESSEE is making a good faith effort to remedy the interference issue. LESSOR agrees that LESSOR and/or any other tenants of the Property who currently have or in the future take possession of the Property will be permitted to install only such equipment that is of the type and frequency which will not cause harmful interference, which is measurable in accordance with then existing industry standards, to the then existing equipment of LESSEE. The Parties acknowledge that there will not be an adequate remedy at law for noncompliance with the provisions of this Paragraph and, therefore, either Party shall have the right to equitable remedies, such as, without limitation, injunctive relief and specific performance.
- days after any earlier termination of this Agreement, remove its building(s), antenna structure(s) (except footings), equipment, conduits, fixtures and all personal property and restore the Premises to its original condition, reasonable wear and tear and casualty damage excepted. LESSOR agrees and acknowledges that all of the equipment, conduits, fixtures and personal property of LESSEE shall remain the personal property of LESSEE shall have the right to remove the same at any time during the Term, whether or not said items are considered fixtures and attachments to real property under applicable Laws (as defined in Paragraph 33 below). If such time for removal causes LESSEE to remain on the Premises after termination of this Agreement, LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until such time as the removal of the building, antenna structure, fixtures and all personal property are completed.
- 15. <u>HOLDOVER</u>. LESSEE has no right to retain possession of the Premises or any part thereof beyond the expiration of that removal period set forth in Paragraph 14 herein, unless the Parties are negotiating a new lease or lease extension in good faith. In the event that the Parties are not in the process of negotiating a new lease or lease

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extension in good faith, LESSEE holds over in violation of Paragraph 14 and this Paragraph 15, then the rent then in effect payable from and after the time of the expiration or earlier removal period set forth in Paragraph 14 shall equal to the rent applicable during the month immediately precedingsuch expiration or earlier termination.

- 16. <u>LIMITED RIGHT OF FIRST REFUSAL</u>. If LESSOR elects, during the Term to grant to a non-governmental third party, by easement or other legal instrument, an interest in and to the Premises, for the purpose of operating and maintaining communications facilities or the management thereof, with or without an assignment of this Agreement to such third party, LESSEE shall have the right of first refusal to meet any bona fide offer of transfer on the same terms and conditions of such offer. If LESSEE fails to meet such bona fide offer within thirty (30) days after written notice thereof from LESSOR, LESSOR may grant the easement or interest in the Premises to such non-governmental third person in accordance with the terms and conditions of such third party offer. For purposes of this Paragraph, any transfer, bequest or devise of LESSOR's interest in the Property as a result of the death of LESSOR, whether by will or intestate succession, or any conveyance to LESSOR's family members by direct conveyance or by conveyance to a trust for the benefit of family members shall not be considered a transfer of the Property for which LESSEE has any right of first refusal. For the purposes of this Paragraph, any transfers to governmental entities shall not be considered a transfer of the Property for which LESSEE has any right of first refusal.
- 17. <u>RIGHTS UPON SALE</u>. Should LESSOR, at any time during the Term decide (i) to sell or transfer all or any part of the Property to a purchaser other than LESSEE, or (ii) to grant to a third party by easement or other legal instrument an interest in and to that portion of the Property occupied by LESSEE, or a larger portion thereof, for the purpose of operating and maintaining communications facilities or the management thereof, such sale or grant of an easement or interest therein shall be under and subject to this Agreement and any such purchaser or transferee shall recognize LESSEE's rights hereunder under the terms of this Agreement. To the extent that LESSOR grants to a third party by easement or other legal instrument an interest in and to that portion of the Property occupied by LESSEE for the purpose of operating and maintaining communications facilities or the management thereof and in conjunction therewith, assigns this Agreement to said third party, LESSOR shall not be released from its obligations to LESSEE under this Agreement, and LESSEE shall have the right to look to LESSOR and the third party for the full performance of this Agreement.
- 18. <u>QUIET ENJOYMENT</u>. LESSOR covenants that LESSEE, on paying the rent and performing the covenants herein, shall peaceably and quietly have, hold and enjoy the Premises.
- 19. <u>TITLE</u>. LESSOR represents and warrants to LESSEE, as of the execution date of this Agreement, and covenants during the Term that LESSOR is seized of good and sufficient title and interest to the Property and has full authority to enter into and execute this Agreement. LESSOR further covenants, during the Term, that there are no liens, judgments or impediments of title on the Property or affecting LESSOR's title to the same and that there are no covenants, easements or restrictions which prevent or adversely affect the use or occupancy of the Premises by LESSEE as set forth above.
- 20. <u>INTEGRATION</u>. It is agreed and understood that this Agreement contains all agreements, promises and understandings between LESSOR and LESSEE and that no verbal or oral agreements, promises or understandings shall be binding upon either LESSOR or LESSEE in any dispute, controversy or proceeding at law, and any addition, variation or modification to this Agreement shall be void and ineffective unless made in writing signed by the Parties or in a written acknowledgment in the case provided in Paragraph 3. In the event any provision of this Agreement is found to be invalid or unenforceable, such finding shall not affect the validity and enforceability of the remaining provisions of this Agreement. The failure of either Party to insist upon strict performance of any of the terms or conditions of this Agreement or to exercise any of its rights under this Agreement shall not waive such rights and such Party shall have the right to enforce such rights at any time and take such action as may be lawful and authorized under this Agreement, in law or in equity.
- 21. <u>GOVERNING LAW</u>. This Agreement and the performance thereof shall be governed, interpreted, construed and regulated by the Laws of the State in which the Property is located.

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22. <u>ASSIGNMENT</u>. This Agreement may be sold, assigned or transferred by the LESSEE without any approval or consent of the LESSOR to the LESSEE's principal, affiliates, subsidiaries of its principal or to any entity which acquires all or substantially all of LESSEE's assets in the market defined by the Federal Communications Commission in which the Property is located by reason of a merger, acquisition or other business reorganization. As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of the LESSOR, which such consent will not be unreasonably withheld, delayed or conditioned. No change of stock ownership, partnership interest or control of LESSEE or transfer upon partnership or corporate dissolution of LESSEE shall constitute an assignment hereunder. LESSEE reserves all rights to lease, sublease, or license space on the tower to third party additional users. All future third party additional users shall seek ground space from LESSOR in a separate agreement and pay LESSOR directly for such ground space, whether or not the collocation would physically require additional ground space or not. Utility providers are not considered additional users under this paragraph. Ground layout and space to such third party additional users requires LESSEE's consent, not to be unreasonably withheld, conditioned or delayed. Any sublease that is entered into by LESSEE shall be subject to the provisions of this Agreement and shall be binding upon the successors, assigns, heirs and legal representatives of the respective Parties hereto.

23. <u>NOTICES</u>. All notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the addressee by the end of the next business day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):

LESSOR: Northfield Township

8350 Main Street

Whitmore, Michigan 48189

LESSEE: New Par, a Delaware partnership

d/b/a Verizon Wireless

180 Washington Valley Road Bedminster, New Jersey 07921 Attention: Network Real Estate

Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

- 24. <u>SUCCESSORS</u>. This Agreement shall extend to and bind the heirs, personal representative, successors and assigns of the Parties hereto.
- SUBORDINATION AND NON-DISTURBANCE. LESSOR shall obtain, not later than fifteen (15) days following the execution of this Agreement, a Non-Disturbance Agreement, as defined below, from its existing mortgagee(s), ground lessors and master lessors, if any, of the Property. At LESSOR's option, this Agreement shall be subordinate to any future master lease, ground lease, mortgage, deed of trust or other security interest (a "Mortgage") by LESSOR which from time to time may encumber all or part of the Property or right-of-way; provided, however, as a condition precedent to LESSEE being required to subordinate its interest in this Agreement to any future Mortgage covering the Property, LESSOR shall obtain a non-disturbance and attornment agreement for LESSEE's benefit in the form reasonably satisfactory to LESSEE, containing the terms described below (the "Non-Disturbance Agreement"), and shall recognize LESSEE's right to remain in occupancy of and have access to the Premises as long as LESSEE is not in default of this Agreement beyond applicable notice and cure periods. The Non-Disturbance Agreement shall include the encumbering party's ("Lender's") agreement that, if Lender or its successor-in-interest or any purchaser of Lender's or its successor's interest (a "Purchaser") acquires an ownership interest in the Property, Lender or such successor-in-interest or Purchaser will (1) honor all of the terms of this Agreement, (2) fulfill LESSOR's obligations under this Agreement, and (3) promptly cure all of the then-existing LESSOR defaults under this Agreement. Such Non-Disturbance Agreement must be binding on all of Lender's participants in the subject loan (if any) and on all successors and assigns of Lender and/or its participants and on all

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Purchasers. In return for such Non-Disturbance Agreement, LESSEE will execute an agreement, for Lender's benefit, in which LESSEE (1) confirms that the Agreement is subordinate to the Mortgage or other real property interest in favor of Lender, (2) agrees to attorn to Lender if Lender becomes the owner of the Property and (3) agrees to accept a cure by Lender of any of LESSOR's defaults, provided such cure is completed within the deadline applicable to LESSOR. In the event LESSOR defaults in the payment and/or other performance of any mortgage or other real property interest encumbering the Property, LESSEE may, at its sole option and without obligation, cure or correct LESSOR's default and, upon doing so, LESSEE shall be subrogated to any and all rights, titles, liens and equities of the holders of such mortgage or other real property interest and LESSEE shall be entitled to deduct and setoff against all rents that may otherwise become due under this Agreement the sums paid by LESSEE to cure or correct such defaults.

26. <u>RECORDING</u>. LESSOR agrees to execute a Memorandum of this Agreement which LESSEE may record with the appropriate recording officer. The date set forth in the Memorandum of Lease is for recording purposes only and bears no reference to commencement of either the Term or rent payments.

27. DEFAULT.

- a. In the event there is a breach by LESSEE with respect to any of the provisions of this Agreement or its obligations under it, including the payment of rent, LESSOR shall give LESSEE written notice of such breach. After receipt of such written notice, LESSEE shall have fifteen (15) days in which to cure any monetary breach and thirty (30) days in which to cure any non-monetary breach, provided LESSEE shall have such extended period as may be required beyond the thirty (30) days if the nature of the cure is such that it reasonably requires more than thirty (30) days and LESSEE commences the cure within the thirty (30) day period and thereafter continuously and diligently pursues the cure to completion. LESSOR may not maintain any action or effect any remedies for default against LESSEE unless and until LESSEE has failed to cure the breach within the time periods provided in this Paragraph.
- b. In the event there is a breach by LESSOR with respect to any of the provisions of this Agreement or its obligations under it, LESSEE shall give LESSOR written notice of such breach. After receipt of such written notice, LESSOR shall have thirty (30) days in which to cure any such breach, provided LESSOR shall have such extended period as may be required beyond the thirty (30) days if the nature of the cure is such that it reasonably requires more than thirty (30) days and LESSOR commences the cure within the thirty (30) day period and thereafter continuously and diligently pursues the cure to completion. LESSEE may not maintain any action or effect any remedies for default against LESSOR unless and until LESSOR has failed to cure the breach within the time periods provided in this Paragraph. Notwithstanding the foregoing to the contrary, it shall be a default under this Agreement if LESSOR fails, within five (5) days after receipt of written notice of such breach, to perform an obligation required to be performed by LESSOR if the failure to perform such an obligation interferes with LESSEE's ability to conduct its business on the Property; provided, however, that if the nature of LESSOR's obligation is such that more than five (5) days after such notice is reasonably required for its performance, then it shall not be a default under this Agreement if performance is commenced within such five (5) day period and thereafter diligently pursued to completion.
- 28. REMEDIES. Upon a default, the non-defaulting Party may, at its option (but without obligation to do so), perform the defaulting Party's duty or obligation on the defaulting Party's behalf, including but not limited to the obtaining of reasonably required insurance policies. The costs and expenses of any such performance by the non-defaulting Party shall be due and payable by the defaulting Party upon invoice therefor. In the event of a default by either Party with respect to a material provision of this Agreement, without limiting the non-defaulting Party in the exercise of any right or remedy which the non-defaulting Party may have by reason of such default, the non-defaulting Party may terminate this Agreement and/or pursue any remedy now or hereafter available to the non-defaulting Party under the Laws or judicial decisions of the state in which the Premises is located; provided, however, LESSOR shall use reasonable efforts to mitigate its damages in connection with a default by LESSEE. If LESSEE so performs any of LESSOR's obligations hereunder, the full amount of the reasonable and actual cost and expense incurred by LESSEE shall immediately be owing by LESSOR to LESSEE, and LESSOR shall pay to LESSEE, upon demand, the full undisputed amount thereof with interest thereon from the date of payment at the

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greater of (i) ten percent (10%) per annum, or (ii) the highest rate permitted by applicable Laws. Notwithstanding the foregoing, if LESSOR does not pay LESSEE the full undisputed amount within thirty (30) days of its receipt of an invoice setting forth the amount due from LESSOR, LESSEE may offset the full undisputed amount due, including all accrued interest, against all fees due and owing to LESSOR until the full undisputed amount, including all accrued interest, is fully reimbursed to LESSEE.

- 29. <u>ENVIRONMENTAL</u>. LESSEE shall hold LESSOR harmless and indemnify LESSOR from and assume all duties, responsibility and liability, at LESSEE's sole cost and expense, for all duties, responsibilities, and liability (for payment of penalties, sanctions, forfeitures, losses, costs, or damages) and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding which is in any way related to any environmental or industrial hygiene conditions arising out of or in any way related to the activities of LESSEE conducted on the Property, unless such environmental conditions are not caused or contributed to by LESSEE, or its agents or contractors.
- 30. <u>CASUALTY</u>. In the event of damage by fire or other casualty to the Premises that cannot reasonably be expected to be repaired within forty-five (45) days following same or if the Property is damaged by fire or other casualty so that such damage may reasonably be expected to disrupt LESSEE's operations at the Premises for more than forty-five (45) days, then LESSEE may, at any time following such fire or other casualty and provided LESSOR has not completed the restoration required to permit LESSEE to resume its operation at the Premises, terminate this Agreement upon fifteen (15) days prior written notice to LESSOR. Any such notice of termination shall cause this Agreement to expire with the same force and effect as though the date set forth in such notice was the date originally set as the expiration date of this Agreement and the Parties shall make an appropriate adjustment, as of such termination date, with respect to payments due to the other under this Agreement. Notwithstanding the foregoing, the rent shall abate during the period of repair following such fire or other casualty in proportion to the degree to which LESSEE's use of the Premises is impaired.
- 31. CONDEMNATION. In the event of any condemnation of all or any portion of the Property, this Agreement shall terminate as to the part so taken as of the date the condemning authority takes title or possession, whichever occurs first. If, as a result of a partial condemnation of the Premises or Property, LESSEE, in LESSEE's sole discretion, is unable to use the Premises for the purposes intended hereunder, or if such condemnation may reasonably be expected to disrupt LESSEE's operations at the Premises for more than forty-five (45) days, LESSEE may, at LESSEE's option to be exercised in writing within fifteen (15) days after LESSOR shall have given LESSEE written notice of such taking (or in the absence of such notice, within fifteen (15) days after the condemning authority shall have taken possession), terminate this Agreement as of the date the condemning authority takes such possession. LESSEE may, on its own behalf, make a claim in any condemnation proceeding involving the Premises for losses related to the equipment, conduits, fixtures, its relocation costs and its damages and losses (but not for the loss of its leasehold interest). Any such notice of termination shall cause this Agreement to expire with the same force and effect as though the date set forth in such notice was the date originally set as the expiration date of this Agreement and the Parties shall make an appropriate adjustment, as of such termination date, with respect to payments due to the other under this Agreement. If LESSEE does not terminate this Agreement in accordance with the foregoing, this Agreement shall remain in full force and effect as to the portion of the Premises remaining, except that the rent shall be reduced in the same proportion as the rentable area of the Premises taken bears to the total rentable area of the Premises. In the event that this Agreement is not terminated by reason of such condemnation, LESSOR shall promptly repair any damage to the Premises caused by such condemning authority.
- 32. <u>SUBMISSION OF AGREEMENT/PARTIAL INVALIDITY/AUTHORITY</u>. The submission of this Agreement for examination does not constitute an offer to lease the Premises and this Agreement becomes effective only upon the full execution of this Agreement by the Parties. If any provision herein is invalid, it shall be considered deleted from this Agreement and shall not invalidate the remaining provisions of this Agreement. Each of the Parties hereto warrants to the other that the person or persons executing this Agreement on behalf of such Party has the full right, power and authority to enter into and execute this Agreement on such Party's behalf and that no consent from any other person or entity is necessary as a condition precedent to the legal effect of this Agreement.

Draft Date: January 11, 2016

- 33. <u>APPLICABLE LAWS</u>. During the Term, LESSOR shall maintain the Property in compliance with all applicable laws, rules, regulations, ordinances, directives, covenants, easements, zoning and land use regulations, and restrictions of record, permits, building codes, and the requirements of any applicable fire insurance underwriter or rating bureau, now in effect or which may hereafter come into effect (including, without limitation, the Americans with Disabilities Act and laws regulating hazardous substances) (collectively "Laws"). LESSEE shall, in respect to the condition of the Premises and at LESSEE's sole cost and expense, comply with: (a) all Laws relating solely to LESSEE's specific and unique nature of use of the Premises (other than general office use); and (b) all building codes requiring modifications to the Premises due to the improvements being made by LESSEE on the Premises.
- 34. <u>SURVIVAL</u>. The provisions of this Agreement relating to indemnification from one Party to the other Party shall survive any termination or expiration of this Agreement. Additionally, any provisions of this Agreement which require performance subsequent to the termination or expiration of this Agreement shall also survive such termination or expiration.
- 35. <u>CAPTIONS</u>. The captions contained in this Agreement are inserted for convenience only and are not intended to be part of the Agreement. They shall not affect or be utilized in the construction or interpretation of the Agreement.

[remainder of this page intentionally blank; signatures appear on following page]

IN WITNESS WHEREOF, the Parties I first above written.	hereto have set their hands and affixed their respective seals the day and yea
	LESSOR: Northfield Township
WITNESS	By:
	lts:
	Date:
	LESSEE: New Par, a Delaware partnership d/b/a Verizon Wireless By: Verizon Wireless (VAW) LLC, its general partner

Ву:

Its:

Date:

Lynn Ramsey

Vice President – Field Network

Site # 144 – North Territorial & Spencer JC3666-13

Draft Date: January 11, 2016

WITNESS

JC3666-13

Draft Date: January 11, 2016

Exhibit "A"

(Legal Description of Property and Premises)

Legal Description of Property (taken from title commitment)

Real property in the Township of Northfield, County of Washtenaw, State of Michigan, described as follows:

Beginning at the North I/4 corner of Section 27, Town 1 South, Range 6 East, Northfield Township, Washtenaw County, Michigan; thence North 85°42'40" East, 356.79 feet along the North line of said Section; thence along the center line of O'Connor Drain, South 64°38' East, 52.36 feet, South 59°51'30" East 265.75 feet, South 66°38'30" East 103.83 feet, South 60°30' East 157.64 feet, South 80°13' East 134.15 feet, South 85°27' East 84.46 feet, South 87°41' East 124.11 feet and South 79°23' East 140.80 feet; thence South 1°43'30" East 747.00 feet along the East line of the West 1/2 of the Northeast 1/4 of said Section; thence North 64°22'50" West 1502.41 feet along the centerline of N. Territorial Road; thence North 1°41'40" West 405.61 feet along the North-South 1/4 line of said Section, being part of the West 1/2 of the Northeast 1/4 of said Section 27.

Commonly Known As: 2727 East North Territorial Road, Whitmore Lake, Michigan 48189

Tax Parcel Id No: B-02-27-100-003

Legal Description of Premises

Commencing at the North 1/4 corner of Section 27, T1S, R6E, Northfield Township, Washtenaw County, Michigan, said corner being located S 85°42'40" W 2671.22 feet from the Northeast corner of said Section 27; thence S 01°41'40" E 405.61 feet along the North-South 1/4 line of said Section 27; thence S 64°22'50" E 927.50 feet (also being the centerline of East North Territorial Road, 66 feet wide); thence N 25°37'10" E 115.00 feet; thence N 08°40'07" E 75.00 feet; thence N 25°37'10" E 168.26 feet to the POINT OF BEGINNING:

thence N 64°22'50" W 22.50 feet;

thence N 25°37'10" E 40.00 feet;

thence S 64°22'50" E 50.00 feet;

thence S 25°37'10" W 40.00 feet;

thence N 64°22'50" W 27.50 feet to the POINT OF BEGINNING; being a part of the Northeast 1/4 of Section 27, T1S, R6E, Northfield Township, Washtenaw County, Michigan; and containing 2,000 sq. ft. or 0.046 acres, more or less; subject to easements and restrictions of record, if any;

[continued on following page]

JC3666-13

Draft Date: January 11, 2016

Exhibit "A" – continued from previous page

Together with a 30 foot wide easement for ingress, egress and public utilities, the centerline of said easement is described as follows:

Commencing at the North 1/4 corner of Section 27, T1S, R6E, Northfield Township, Washtenaw County, Michigan, said corner being located S 85°42'40" W 2671.22 feet from the Northeast corner of said Section 27; thence S 01°41'40" E 405.61 feet along the North-South 1/4 line of said Section 27; thence S 64°22'50" E 927.50 feet (being the centerline of East North Territorial Road, 66 feet wide) to the POINT OF BEGINNING:

thence N 25°37'10" E 115.00 feet;

thence N 08°40'07" E 75.00 feet;

thence continuing N 25°37'10" E 168.26 feet to the POINT OF ENDING; being a part of the Northeast 1/4 of Section 27, T1S, R6E, Northfield Township, Washtenaw County, Michigan; except any part taken, deeded or used for public road purposes; and subject to easements and restrictions of record, if any;

Together with a 10 foot wide easement for public utilities, the centerline of said easement is described as follows:

Commencing at the North 1/4 corner of Section 27, T1S, R6E, Northfield Township, Washtenaw County, Michigan, said corner being located S 85°42'40" W 2671.22 feet from the Northeast corner of said Section 27; thence S 01°41'40" E 405.61 feet along the North-South 1/4 line of said Section 27; thence S 64°22'50" E 927.50 feet (also being the centerline of East North Territorial Road, 66 feet wide); thence N 25°37'10" E 115.00 feet; thence N 08°40'07" E 75.00 feet; thence N 25°37'10" E 60.00 feet to the POINT OF BEGINNING:

thence S 64°22'50 W 87.00 feet to the POINT OF ENDING; being a part of the Northeast 1/4 of Section 27, T1S, R6E, Northfield Township, Washtenaw County, Michigan; subject to easements and restrictions of record, if any.

JC3666-13

Draft Date: January 11, 2016

Exhibit "B"

(See attached Survey)

MEMORANDUM OF LEASE AGREEMENT

This Memorandum of LEASE AGREEMENT is made this _____ day of _____, 20___, between Northfield Township, a Michigan municipal corporation, with a mailing address of 8350 Main Street, Whitmore Lake, Michigan 48189, hereinafter collectively referred to as "LESSOR", and NEW PAR, a Delaware partnership d/b/a Verizon Wireless, with its principal office located at One Verizon Way, Mailstop 4AW100, Basking Ridge, New Jersey 07920, hereinafter referred to as "LESSEE". LESSOR and LESSEE are at times collectively referred to hereinafter as the "Parties" or individually as the "Party".

- LESSOR and LESSEE entered into a LEASE AGREEMENT (the "Agreement") 1. , 20 for an initial term of five (5) years, commencing on the Commencement Date. The Lease Agreement shall automatically be extended for four (4) additional five (5) year terms unless the LESSEE terminates it at the end of the then current term by giving the LESSOR written notice of the intent to terminate at least six (6) months prior to the end of the then current term. LESSOR may terminate the agreement, effective eighteen months after the end of the second renewal term, by giving LESSEE written notice of its intention to terminate the agreement no later than the end of the second renewal term. If at the end of the fourth (4th) five (5) year extension term the Agreement has not been terminated by either Party by giving to the other written notice of an intention to terminate it at least three (3) months prior to the end of such term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of five (5) years and for five (5) year terms thereafter until terminated by either Party by giving to the other written notice of its intention to so terminate at least three (3) months prior to the end of such term.
- 2. LESSOR hereby leases to LESSEE a portion of that certain parcel of property (the entirety of LESSOR's property is referred to hereinafter as the "Property"), located at 2727 E. North Territorial Road, Whitmore Lake, Washtenaw County, Michigan 48189, and being described as a two thousand (2,000) square foot parcel, more or less, located as shown on the Tax Map of the Township of Northfield as a portion of Tax Parcel No. B-02-27-100-003, and being part of that real property further described in Liber 1542, Page 137 of the Washtenaw

County Register of Deeds, together with the non-exclusive right for ingress and egress, seven (7) days a week twenty-four (24) hours a day, on foot or motor vehicle, including trucks, and for the installation and maintenance of utility wires, poles, cables, conduits, and pipes over, under, or along a Thirty (30') foot wide right-of-way and a ten (10') foot wide right-of-way extending from the nearest public right-of-way, North Territorial Road, to the demised premises. The demised premises and right-of-way are hereinafter collectively referred to as the "Premises". The Premises are described in Exhibit A attached hereto and made a part hereof. In the event any public utility is unable to use the aforementioned right-of-way, LESSOR has agreed to grant an additional right-of-way either to the LESSEE or to the public utility at no cost to the LESSEE, using a route as agreed to by LESSOR.

- 3. The Commencement Date of the Agreement, of which this is a Memorandum, is
- 4. If LESSOR elects, during the Term to grant to a third party by easement or other legal instrument an interest in and to that portion of the Premises, for the purpose of operating and maintaining communications facilities or the management thereof, with or without an assignment of this Agreement to such third party, LESSEE shall have the right of first refusal to meet any bona fide offer of sale or transfer on the same terms and conditions of such offer.
- 5. The terms, covenants and provisions of the Agreement, the terms of which are hereby incorporated by reference into this Memorandum, shall extend to and be binding upon the respective executors, administrators, heirs, successors and assigns of LESSOR and LESSEE.

IN WITNESS WHEREOF, hereunto and to a duplicate hereof, LESSOR and LESSEE have caused this Memorandum to be duly executed on the date first written hereinabove.

	SSOR: Northfield nicipal corporation	•	а	Michigan
BY:		(SE	AL)	
ITS:				
	LESSEE:			
New Par, a Delaware Partnership D/B/A VERIZON WIRELESS By: Verizon Wireless (VAW) LLC, its				general
	partner	COS (VAVV) EE	0, 10	general
	BY: Lynn Ramse	ey ent – Field Net		EAL)

This instrument prepared by and when recorded return to:

Benjamin S. Herrick, Esq. Jonathan R. Crane, P.C. 1126 N. Main Rochester, MI 48307

STATE OF	ACKNOWLEDGEME	ENT
COUNTY OF)	
Northfield Township, a Mich this day and acknowledged	, a Notary Public for said County ar , the igan municipal corporation, persona that s/he executed the foregoing M ner own act and deed on behalf of said	of ally came before me EMORANDUM OF
WITNESS my hand and	official Notarial Seal, this day of _	, 20
	Notary Public	
My Commission Expires:		
STATE OF Illinois)) ACKNOWLED	OGMENT
COUNTY OF Cook)	
certify that Lynn Ramsey pers she is the Vice President – Fid Verizon Wireless, By: Verizon Vice President – Field Netwo	, a Notary Public for said County ar sonally came before me this day and eld Network, of New Par, a Delaware Wireless (VAW) LLC, its general partn ork, being authorized to do so, exec AGREEMENT on behalf of New	acknowledged that partnership d/b/a er, and that she, as uted the foregoing
WITNESS my hand and	official Notarial Seal, this day of _	, 20
	Notary Public	
My Commission Expires:		

EXHIBIT A

Legal Description of Property (taken from title commitment)

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Commonly Known As: 2727 East North Territorial Road, Whitmore Lake,

Michigan 48189

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thence N 64°22'50" W 22.50 feet;

thence N 25°37'10" E 40.00 feet;

thence S 64°22'50" E 50.00 feet;

thence S 25°37'10" W 40.00 feet:

thence N 64°22'50" W 27.50 feet to the POINT OF BEGINNING; being a part of the Northeast 1/4 of Section 27, T1S, R6E, Northfield Township, Washtenaw County, Michigan; and containing 2,000 sq. ft. or 0.046 acres, more or less; subject to easements and restrictions of record, if any;

[continued on following page]

EXHIBIT A - Continued from previous page

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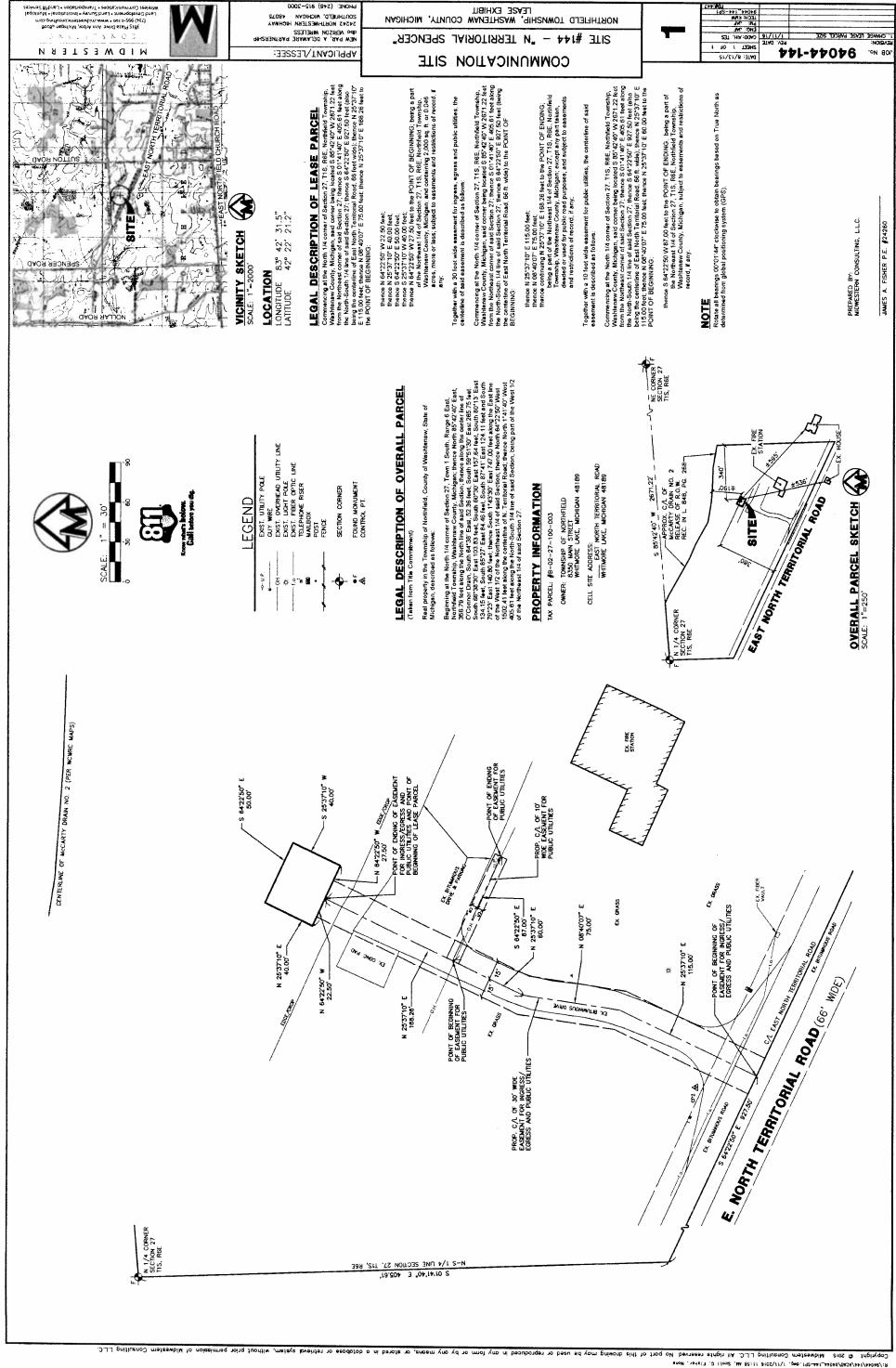
thence N 08°40'07" E 75.00 feet;

thence continuing N 25°37'10" E 168.26 feet to the POINT OF ENDING; being a part of the Northeast 1/4 of Section 27, T1S, R6E, Northfield Township, Washtenaw County, Michigan; except any part taken, deeded or used for public road purposes; and subject to easements and restrictions of record, if any;

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NORTHFIELD TOWNSHIP

MEMO

To: Northfield Township Board

From: Howard Fink

Date: 1/19/2016

Re: Parks and Recreation Master Plan

Dear Township Board,

At the next meeting, we will be holding our Public Hearing for the Parks and Recreation Master Plan. I was hoping that at this workshop, the board of trustees could review the plan and debate / discuss if there are any issues, concerns, questions, or suggestions to incorporate. If you need a copy of the plan, please let us know. It is online, linked from our homepage.

Sincerely

Howard Fink, Township Manager

NORTHFIELD TOWNSHIP

Memo

To: Northfield Township Board

From: Howard Fink

Date: 1/22/2016

Re: Goals for Boards Last Year in Office

Dear Township Board,

At the last workshop, we discussed what the goals would be for the final year of your terms. The following is a breakdown of many of the issues that have been discussed over the last few years.

Goals for last year of current term from 11/24/15 meeting:

- Sidewalks/bike paths around lake for safety
- Extend 7 Mile Rd to Donna Ln.
- Complete the sewer capacity study
- Completion of the Barker Rd Non-Motorized Path

Goals/Priorities from Board Retreat

- Highest Priorities
 - Appropriate fiscal priorities (listed by greatest number of votes):
 - Parking lot for Community Center (6)
 - Board Room Construction (5)
 - General Parks & Rec (5)
 - Property Acquisition (4)
 - Buying down debt (1)
 - Community Garden (0)
 - Roads (0)
 - Salaries of Elected Officials (put in budget)
 - Downtown Development incentives
 - o Framing the Development debate more concretely
 - More residential & shopping opportunities for the people that are already here
 - The Township is too spread out bring people together
 - o Action Items
 - Legal analysis of Master Plan amendment request
 - Prepare land conditions map showing large perkable parcels
 - Research models of good development following community disagreements about growth
 - Consider allocating funds for full review of Master Plan

- Mid-level priorities
 - o Schools
 - Economic Development
 - o Foundation for infrastructure
- Low level priorities
 - o Administrative
 - Consolidation of services
 - Regulatory priorities
 - o Maintain existing facilities (Public Safety Building, etc.)
 - o Ensure necessary infrastructure is in place
 - Review Police & Fire

Other Topics Discussed

- Roads
 - Additional funding for repairs
 - Options for residents: community SAD; petition; Millage; etc
 - Repair focus: East Shore & North Territorial followed by Whitmore Lake Rd and Barker Rd; maintaining current roads that are in good condition
 - Create a "Roads Reserve"
- Land Acquisition
 - Lakeside park property
- Sewer Capacity/Storage tanks
 - o Determine appropriate sewer connection fees
 - Determine costs for potential development infrastructure, sewer expansion, collection fees
- Investigate infrastructure needs (community water, sewer districts, roads, etc.) and options for paying for them
- Projects for DDA:
 - o Set up a small business development planning group
 - Look into streetscape grants
 - Corridor development
 - Walkable downtown
- Fund Balance Priority list
- Create a development vision for the Township as a guide for the Planning Commission
- CIF
- Master Plan Survey
- Code Enforcement priorities
 - Allowance for temporary Front yard car sales
 - o Follow up with Kurt on commercial sign inventory & violations
- Create overlay districts for Horseshoe Lake & Whitmore Lake to allow construction without variances

Sincerely,

Howard Fink, Township Manager