

ENVIRONMENTAL STEWARDSHIP ADVISORY COMMITTEE

MARCH 21, 2018





FEATURED PANEL: ACTIVE TRANSPORTATION & AIR QUALITY

Anton Cox

Air Quality Program

Capital Area Council of Governments

Katherine Gregor

Active Transportation & Street Design Division Austin Transportation Department, City of Austin

Christopher Stanton

Founder & Executive Director Ghisallo Cycling Initiative





















Helping People Choose To Bike

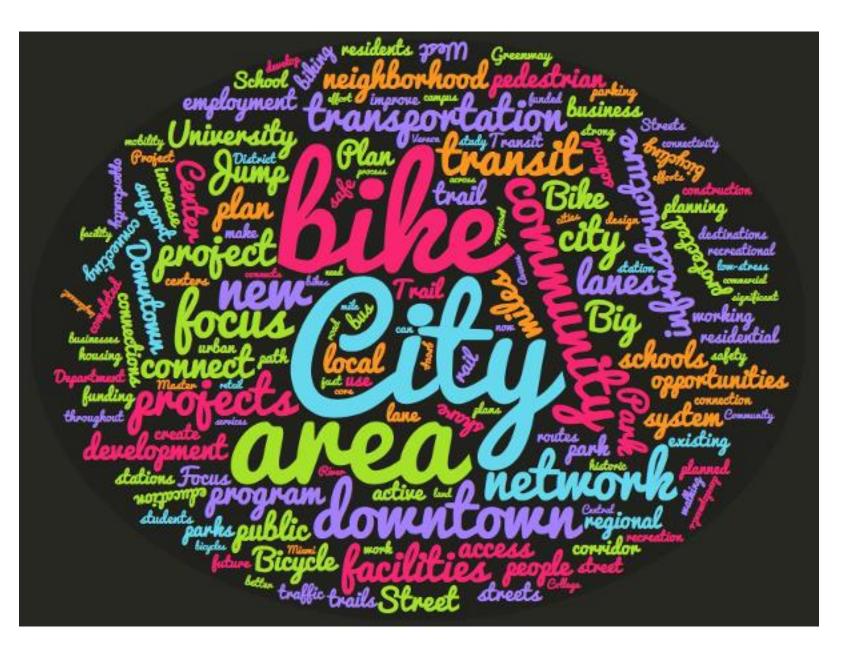
for transportation in their busy daily lives





a peopleforbikes project

Austin Biking Encouragement Project



Vision Statement

The Austin Biking **Encouragement Project helps** people enjoy the many personal benefits of travel by bicycle, creates access to opportunity, and makes Austin a more sustainable, livable community.

"Turbo-Charging" Bikeway Investments

- 300 miles of improved bikeways (on-street, protected, and trail) built since 2008.
- At 25% build-out of "all ages and abilities" better biking network
- \$20 million in new bond funding for bikeways
- \$27.5 million for school connections
- \$26 million for urban trails
- Awesome biking network within next 6 years

8-POINT PLAN TO GROW BIKE RIDERSHIP 2017-2020

- 1. Love to Ride | Biking encouragement program (digital, personal, teams)
- 2. Biking Eco-System | Holistically address people's needs and barriers
- 3. Biking Ambassadors | Personalized encouragement (Smart Trips)
- 4. Bikeway Activations | Encourage people to use high-comfort bikeways
- 5. Bike-Friendly Destinations | Bike-friendly business & district program
- 6. Ladders of Opportunity | Help people bike for affordable transportation
- 7. Vision Zero | Safety education program (for drivers and cyclists)
- 8. Partner Pledges | Community actions and support to increase bike trips

Join the May Biking Challenge!





LoveToRide.net/Austin

Let's Get Personal: Overcoming Barriers

WHAT'S KEEPING YOU FROM RIDING?















ANNOUNCEMENTS







I've got a flat

WHAT MOTIVATES YOU?

















- 1 Register. It's free!
- 2 Ride for 10 minutes or more.
- 3 Recruit friends & colleagues.
- 4 Win Prizes!









Smart Trips

- Neighborhood-based
- Personalized encouragement
- Toolkit delivered to door
- Fall 2018: Central East Austin

















Bikeway Activations
Encouraging people to use high-comfort bikeways



Bike to Manor Road Day

Sat. March 31, 12-4 PM



Earth Day Festival "World of Biking" April 21 Huston-Tillotson Campus, 12 – 7 pm



Bright Green Future Grants

School-based Biking Encouragement

Ghisallo Cycling Initiative (bike clubs)









Vision Zero

Help Austin Reach Zero Traffic Deaths









Safe Cycling Skills Classes

Safe Routes to School Program & More



Thank You!





AISD SUSTAINABILITY UPDATES

DARIEN CLARY





EARTH WEEK APRIL 16-20

Earth Week 2018 Goal:

Every AISD student will take a moment to think about how they can make the earth a better place and perform an action to do so.

Earth Week Website (in development)

- Daily PA Announcements
- Activity Ideas for Each Action Area
- Green Meme Contest Info
- Featured Activities
 - Tree Mapping @ Lanier
 - Farm Fresh Friday AISD Nutrition
 & Food Services



2017 Logo Design Winner Najai Mckenzie-Robinson Crockett Student



EARTH WEEK APRIL 16-20



Meme must be informative and spark a behavior that supports sustainability

Contest info will be posted on Earth Week website (in development)



SUSTAINABILITY - PROFESSIONAL DEVELOPMENT



North Carolina Department of Public Instruction (DPI) Outdoor Learning Environments Initiative

Comprehensive Projects, Current, Professional Development, Schools



Professor Robin C. Moore, Natural Learning Initiative www.naturalearning.org



The Montessori School of Winston-Salem, NC

Design Assistance, Montessori Schools, Schools



The Elizabeth Ann Clune
Montessori School of Ithaca
Design Assistance, Montessori Schools, Schools



Montessori Children's School, Jacksonville, NC

Design Assistance, Montessori Schools, Schools



Blanchie Carter Discovery Park

Design Assistance, Parks and Recreation, Schools







PRACTICAL APPLICATIONS OF SUSTAINABILITY IN THE 2017 BOND PROGRAM

CONVERSATION FACILITATED BY MATTHEW NELSON GUEST: AECOM







BOND PROGRAM

ESAC Meeting – 3/21/18



Agenda



- Bond Projects Started and Status
- Campus Architectural Teams (CATs)
- Ed Specs
- Project Sustainability Goals



Bond Projects Started and Status



- Design Build Projects
 - in Schematic Design
 - TA Brown ES
 - Govalle ES
 - Menchaca ES
 - Doss ES & MurchisonMS



DRAFT



Bond Projects Started and Status



CMR Projects

- Ann Richards FinishingMaster Planning
- Eastside at ALC -Finishing Master Planning
- New SW ES StartingSchematic Design
- Blazier Relief Starting
 Master Planning



Kathlyn Joy Gilliam Collegiate Academy – Dallas ISD



Bond Projects Started and Status



- Bowie HS A/E &
 CMR in procurement
- Rosedale Bridging document effort planned to start in April





CATs (Campus Architectural Teams)



Teams include 9-10 members:

- School Principal
- Instructional Staff
- Administration Staff
- Students (for middle school and high school projects)
- Parents (including one representative from the Campus Advisory Council)
- Community Members

Also Included on the team:

- Architect
- AISD Facility Planning, Design and Construction Staff
- AISD Teaching and Learning Staff
- AISD Maintenance/Service Center Staff



Community Engagement Requirements



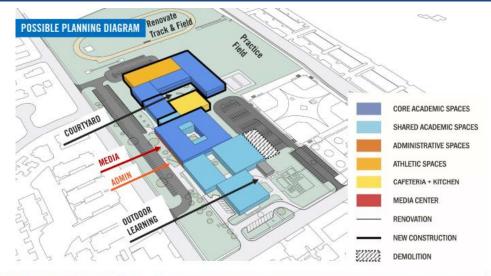
- Schematic Design Phase
 - Purpose is to inform stakeholder on:
 - the project parameters
 - how the building relates to the site
 - anticipated traffic flow
 - building orientation, etc.
- Design Development Phase
 - Purpose is for stakeholders receive information and provide feedback about:
 - the interior organization of the building
 - exterior appearance
 - parking, etc.
- Construction Phase
 - Prior to the start of construction, the community will be invited to meet a final time to:
 - discuss construction schedule
 - receive the plan for housing students in an alternative location (if needed)
 - provide contact information for the community should issues arise during construction.



Campus Master Planning Phase (approximately 1-3 months)

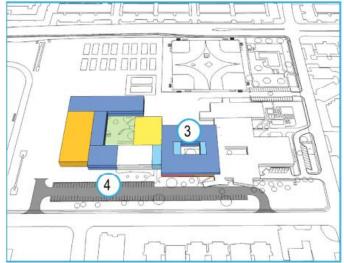


- Plan for modernization of entire campus over time
- Account for future growth
 - Population and programming
- Construction sequencing and phasing considered
- Role of CAT:
 - Collaborate and come to a consensus on the long-term strategic goals of the campus
- Finalizing the masterplan allows us to move into design



POTENTIAL CONSTRUCTION SEQUENCIN

- Begin Renovation of Existing Building in the 2-Story Courtyard Area (Summer)
- Begin Construction of New Front Drive (Summer)





Concept Development and Schematic Phase (approximately 1-5 months)



- In general, this process starts with the Design Charrette
 - A one or two- day collaborative work session involving the CAT, DT, AISD staff, and other stakeholders
- Site Plans, Building Footprint, Adjacencies
- Role of CAT:
 - Review, refine and verify the approved building program and schematic design

Menchaca ES Preliminary Layout:





Campus Advisory Team (CAT) Roadmap





CAT Membership Agreement



- Participate in Scheduled Meetings
 - If you have to miss one, appoint an alternate
- Be Involved For The Duration of The Project
- Maintain Project Scope, Schedule, and Budget
- Work Collaboratively
- Be Respectful and Considerate Of Other's Ideas





OUR VISION: REINVENT URBAN ED







AISD Power Skills for 21st Century Learning—6 Cs

- Collaboration
- Communication
- Connection
- Cultural Proficiency
- Creativity
- Critical Thinking

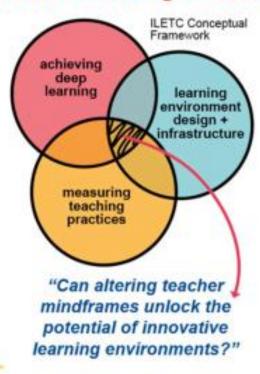


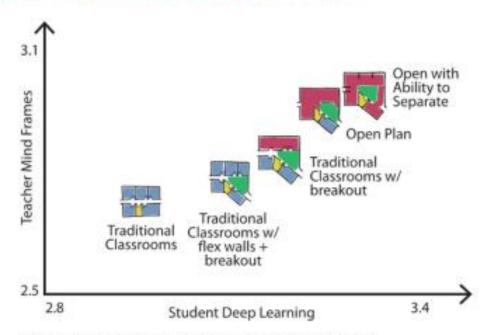




What does the research say?

Innovative Learning Environments + Teacher Change (ILETC)





Graph adapted from Imms, Mahat, Byers, & Murphy (2017)

Imms, W., Mahat, M., Byers, T., & Murphy, D. (2017). Type and Use of Innovative Learning Environments in Australiasian Schools ILETC Survey No. 1. Melbourne: University of Melbourne, LEaRN, Retrieved http://www.iletc.com.au/publications/reports/.







New Concepts and Ways of Thinking

Flexible learning spaces

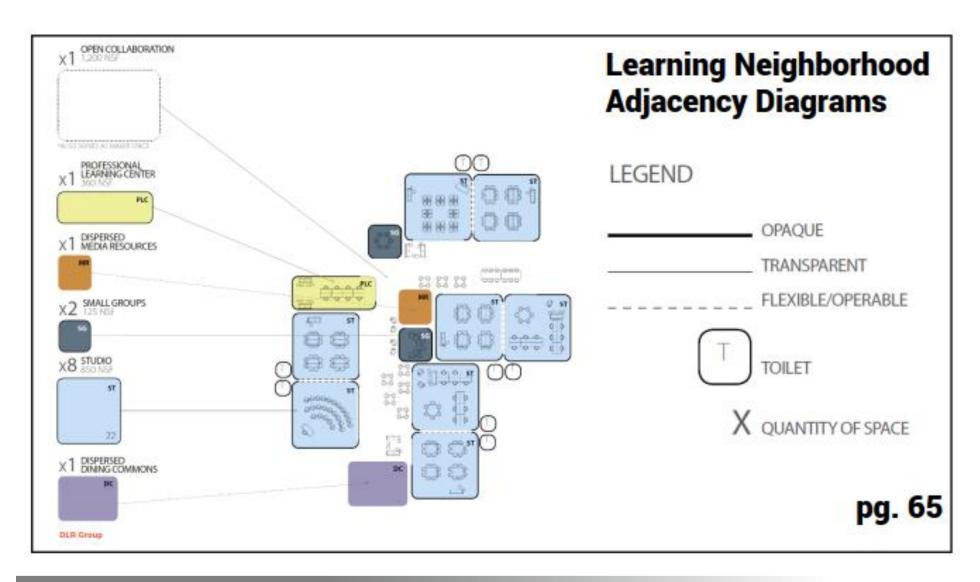
State-of-the-art technology

Community Spaces

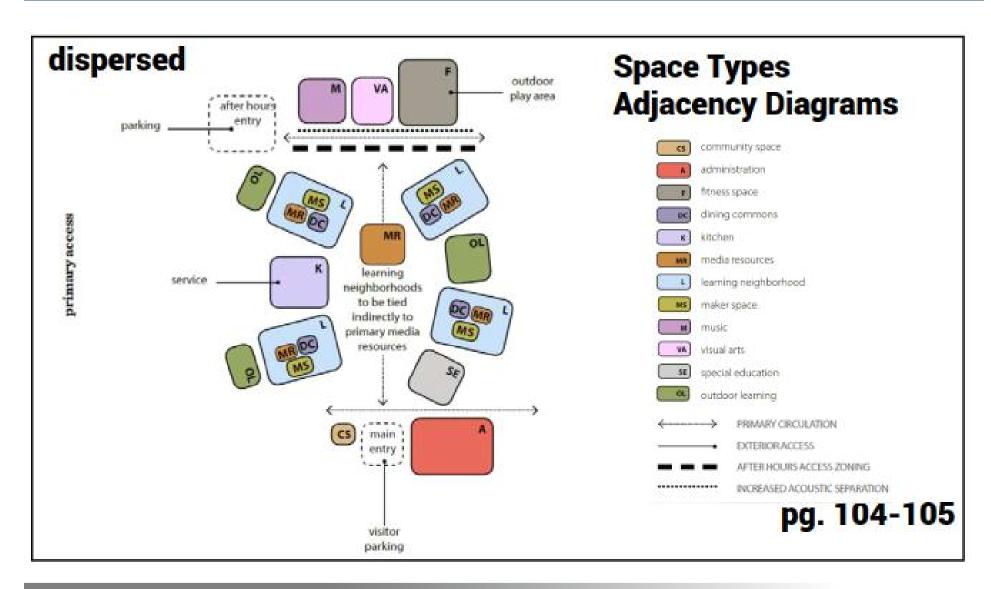
pg. 17

DER PLONS











MEASURES OF SUCCESS - COMMUNITY:

- LEARNER-DRIVEN PROJECTS promote learner-driven project both on campuses and through community opportunities such as internships
- PARTNERSHIP MINDSET foster partnerships when designing new facilities, developing curriculums, training staff, and supporting internships
- ROBUST LEARNING EXPERIENCE provide neighborhoods and communities safe and secure access to schools to support student and community enrichment
- WRAP-AROUND SERVICES provide hubs of support FOR wrap-around services in academic locations
- OUTDOOR SPACES design outdoor spaces to accommodate student and community learning



Project Sustainability Goals

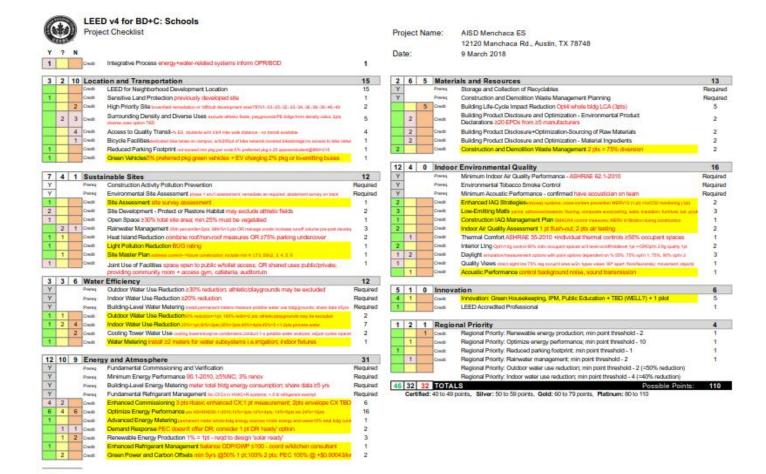


- Kick-Offs With All Project Teams
 - Include ACR and AISD Sustainability
- Discussing Goals
 - Most project aiming for pursuing LEED Silver
 - LEED v4 Schools
 - Draft LEED v4 Schools Scorecards
- Coordinating with Austin Energy Green Building program



Draft Scorecard for Menchaca ES





Prepared by: Center for Maximum Potential Building Systems for EWaS-AISD - 16 March 2018 rev1

credits potentially required for AISD projects, thresholds to be determined





credits changed from prior checklist

Draft Scorecard for Menchaca ES



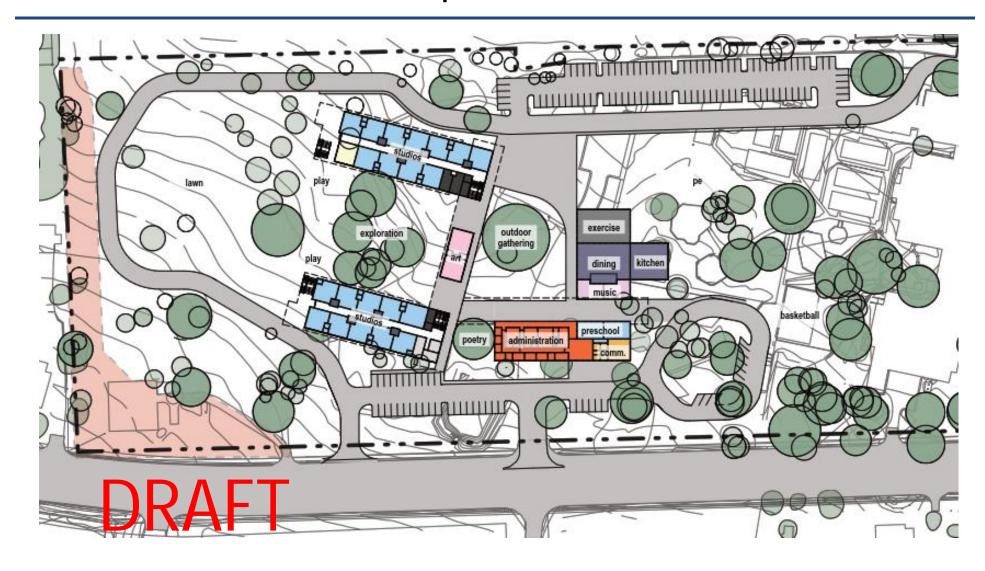
3	2	10	Loca	tion and Transportation	15
			Credit	LEED for Neighborhood Development Location	15
1			Credit	Sensitive Land Protection previously developed site	1
		2	Credit	High Priority Site brownfield remediation or 'difficult development area'78701,-03,-25,-32,-33,-34,-36,-38,-39,-46,-49	2
	2	3	Credit	Surrounding Density and Diverse Uses exclude athletic fields, playgrounds/PE bldgs from density calcs; 2pts diverse uses option TBD	5
		4	Credit	Access to Quality Transit-% ES students w/in ≤3/4 mile walk distance - no transit available	4
		1	Credit	Bicycle Facilitiesdedicated bike lanes on campus; w/in200yd of bike network;covered bikestorage;no access to bike netwo	1
1			Credit	Reduced Parking Footprint not exceed min pkg per code;5% preferred pkg;≤.25 spaces/student@860=215	1
1			Credit	Green Vehicles5% preferred pkg green vehicles + EV charging 2% pkg or lo-emitting buses	1

12 4	0	Indoo	r Environmental Quality	16
Y		Prereq	Minimum Indoor Air Quality Performance - ASHRAE 62.1-2010	Required
Y		Prereq	Environmental Tobacco Smoke Control	Required
Y		Prereq	Minimum Acoustic Performance - confirmed have acoustician on team	Required
2		Credit	Enhanced IAQ Strategiesentryway systems, cross-contam prevention MERV13 (1 pt) +/orCO2 monitoring (1pt)	2
3		Credit	Low-Emitting Matts paints; adhesives/sealants; flooring; composite wood; calling, walls, insulation; furniture; ext. prod	3
1	6	Credit	Construction IAQ Management Plan SMACNA control measures; MERV 8 filtration during construction	1
2		Credit	Indoor Air Quality Assessment 1 pt flush-out; 2 pts air testing	2
1		Credit	Thermal Comfort ASHRAE 55-2010 +individual thermal controls ≥50% occupant spaces	1
2		Credit	Interior Ltng Opfn1:ltg control 90% indiv occupant spaces w/3 level on/off/midlevel 1pt +/OROpfn 2 ltg quality 1pt	2
1 2		Credit	Daylight simulation/measurement options with point options dependent on % 55%, 75% optin 1; 75%, 90% optin 2	3
- ^		it	Quality Views direct sight line 75% reg occup'd area w/2+ types views: 90° apart; flora/fauna/sky; movement; objects	1
A	\backslash \vdash $ $	it	Acoustic Performance control background noise, sound transmission	1
ζА	lack	it	Acoustic Performance control background noise, sound transmission	



Menchaca Site Concept







Menchaca ES



- Registered with National Wildlife Federation for Eco-Schools program
- Teachers and students monitor and report data about their gardens and butterfly gardens







SUSTAINABILITY ACTION AREA UPDATES

SUBCOMMITTEE LEADERS





SUSTAINABILITY ACTION AREA UPDATES:

ENERGY & WATER

RICHARD SHEARMAN





ENERGY AND WATER

 Community engagement – Austin Energy Regional Science Festival, February 24



About 145 people provided input



ENERGY AND WATER

- AISD Performing Arts Center has been nominated by Austin Water staff for its for an Excellence in Water Conservation Award at AW's annual awards ceremony on April 27
- The City of Austin (Watershed Protection Department and Austin Water) are working with AISD's Construction Management Department to setup two, "Lunch & Learns" in April.
 - 1. Using rainwater at new construction projects to reduce potable water demand and reduce localized erosion issues
 - 2. Retrofits with passive cisterns and rain gardens



ENERGY AND WATER

Energy and Water Webpage

https://www.austinisd.org/sustainability/energy-water

Ongoing - Monitoring of utilities

- Solar PV monitoring
- Water monitoring
 - https://bludashboard.cloud/
 - Investigating alternative options and irrigation controllers



SUSTAINABILITY ACTION AREA UPDATES: TRANSPORTATION & AIR QUALITY

ROB BOROWSKI





SUSTAINABILITY ACTION AREA UPDATES: WASTE & PROCUREMENT

AMANDA MORTL





SUSTAINABILITY ACTION AREA UPDATES: FOOD & NATURE

ANNE MULLER





NATURE

 AISD Schoolyard Improvement Application

https://www.austinisd.org/schoolyard

-improvements-projects

- Girls Outside
- Schoolyard Features Spreadsheet
- Community Engagement
- District staff trainings: nature based play, cisterns, rain gardens, and outdoor learning spaces





NUTRITION & FOOD SERVICES

- Johnson's Backyard Garden radish sampling at all campuses the week of April 16 for Earth Week
- Harvest of the Month (all Texas farmers): Leaf Lettuce
- Farm Fresh Fridays: Johnson's Backyard Garden Carrots
- Recyclable trays delayed due to production issues







SUSTAINABILITY ACTION AREA UPDATES: COMMUNITY ENGAGEMENT

MONICA LOPEZ MAGEE





THANK YOU for all you do to help AISD be green!

Mark your Calendar! FY17-18 Meeting Dates:

5:30-7:30pm, Board Auditorium, Carruth Administration Center, 1111 W. 6th

September 27, 2017						
Food & Nature						
November 29, 2017						
Waste & Procurement						
January 24, 2018						
Water & Energy						
March 21, 2018						
Transportation & Air Quality						
May 23, 2018						
Elections!						











CONGRATULATIONS!





Join us for the

Barrington Green School Park Dedication Celebration

Saturday, March 24, 2018 9:00 AM

This is an outdoor park event, please dress comfortably.















The City of Austin is proud to comply with the Americans with Disabilities Act. If you require assistance for participation in our programs or use of our facilities, please call (512) 974-3914.







