



Ford Site Zoning and Public Realm Master Plan

DRAFT (5-4-2017)
For review by the
Saint Paul Planning Commission

Adoption Date:

Staff
Presentation
to Saint Paul
Planning
Commission

June 2, 2017





A Decade of Partnership

































THE MCKNIGHT FOUNDATION











The Katherine B. Andersen Fund

Of the Saint Paul Foundation







A Decade of Studies



GENERAL PLANNING

- Ford Site Zoning Framework Study (2013)
- Ford Site Open Space Guidelines (2010)
- Vision, Goals and Five Redevelopment Scenarios (2007)

TRANSPORTATION

• Ford Site Transportation Study (2016)

REAL ESTATE, JOBS & BUSINESS

- Jobs Strategy Report (2016)
- Market Analysis for the Ford Site (2015)
- Green Manufacturing Potential for the Ford Site (2009)

EXISTING CONDITIONS

- Historic Preservation eligibility studies (Ford)
- Geotechnical evaluation of the Ford tunnels (Ford)
- Environmental Assessment and Remediation (Ford)

SUSTAINABILITY & STORMWATER MANAGEMENT

- Aquifer Thermal Energy Storage (ATES)
 Feasibility Study (2016)
- Integration of Rooftop Photovoltaic Systems in Saint Paul Ford Site's Redevelopment Plans (2016)
- Sustainable Stormwater Management Study (2016)
- Sustainable Ford Site Redevelopment A LEED-ND Evaluation (2016)
- Saint Paul Ford Site Energy Study Report (2015)
- The Roadmap to Sustainability for the Saint Paul Ford Site (2011)
- Sustainable Stormwater Feasibility Report (2009)



A Decade of Public Engagement



- Ford Task Force initiated Jan. 2007
- 45+ meetings with the public and task force
- 1,300+ different people have attended a meeting(s)
- 100+ articles in print, radio and television media
- 3,800+ subscribers to the Ford project news email list
- 80+ presentations to business, civic, non-profit groups
- 18 small group meetings in March April 2017













Key Principles



- 1. Mix of Uses and Activities
- 2. Housing Variety
- 3. Jobs and Tax Base
- 4. Energy and Sustainability
- 5. Transportation
- 6. Parks and Amenities

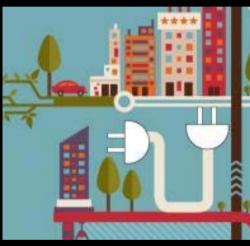




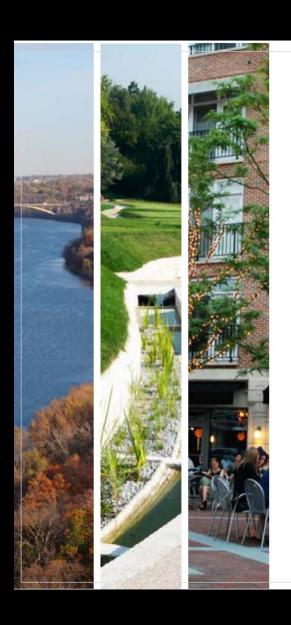














Ford Site Zoning and Public Realm Master Plan

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A decade of research, input and partnership to reach a Draft Plan to guide redevelopment of the Ford site

PLAY FORD PLAN VIDEO

DRAFT Zoning

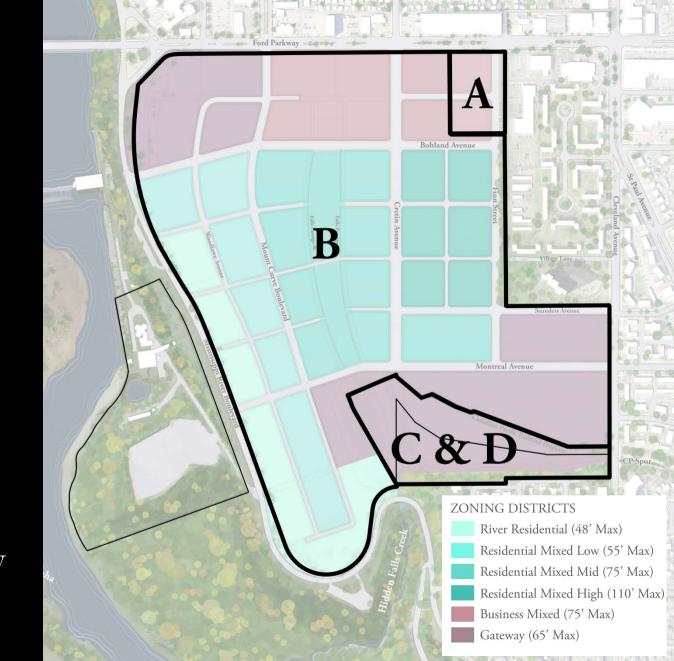


Parcels for Rezoning

A. (3.76 acres) Burg & Wolfson Trustees

B. (122.4 acres)
Ford Motor Company

C. & D. (12.73 acres)
Canadian Pacific Railway
Company



DRAFT
Zoning
and
Public
Realm





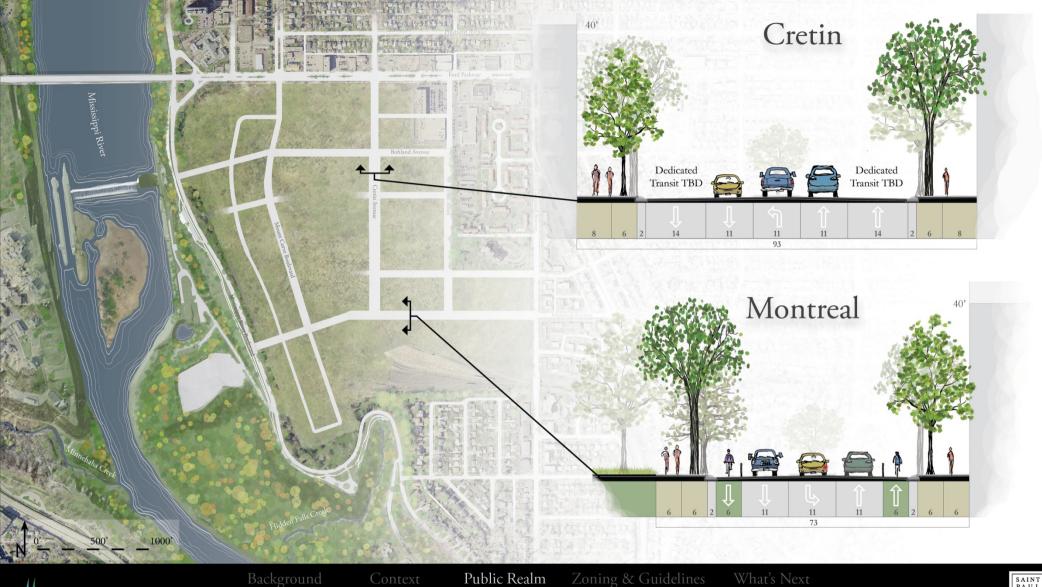
Transportation Network









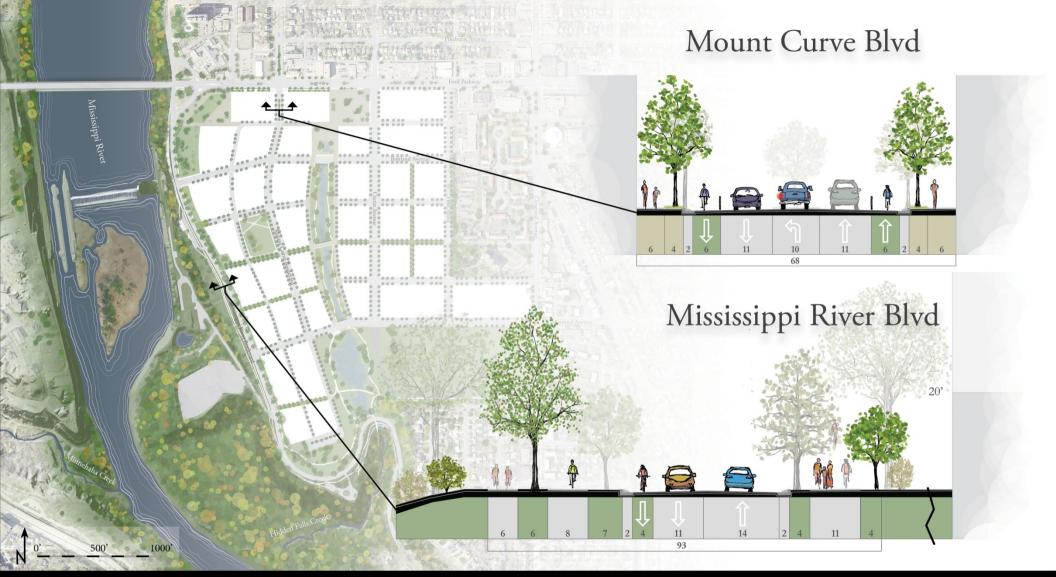




ground Context Lubic I Cam Zonnig & Guidennes











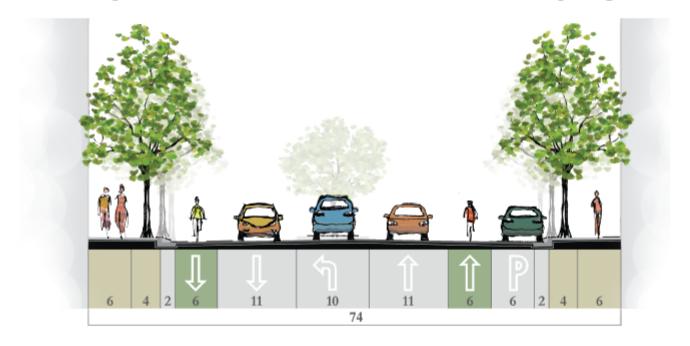






Bohland Avenue

Bohland Avenue is one of the main east-west roadways on the site. It connects Mississippi River Boulevard in the west to Finn Street in the east. Street parking is allowed on one side of the street for access to the square, retail district, and stormwater feature. Separated bike lanes are included. A turn lane allows access to parking.







TOTAL RIGHT-OF WAY					
CURB TO CURB DISTANCE					
VEHICULAR	EHICULAR 2-way (feet/lane)				
	Median/turn lane (feet)	10			
	Curb reaction distance per				
side (feet)					
Total Vehicular ROW					
PARKING	1-sided parking (feet/lane)				
	Total Parking ROW	6			
BIKE	Separated - 1 per side	6			
	(feet/lane)				
Total Bike ROW					
PEDESTRIAN	N Sidewalk (feet/side)				
	Boulevard (feet/side)				
	Total Pedestrian ROW per side	10			

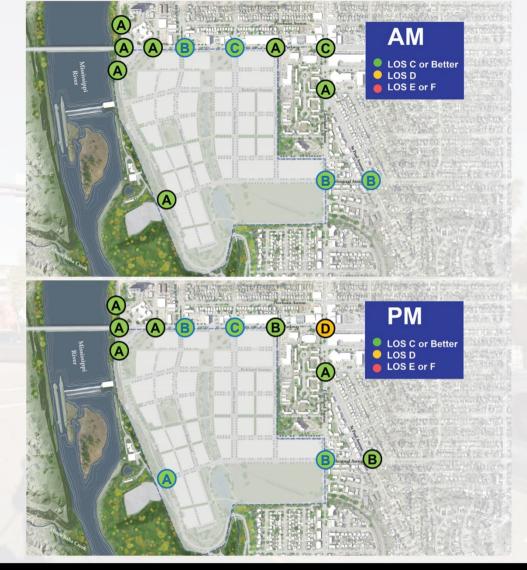


Transportation Studies

	Transportation Modeling Study	Detailed Transportation Study
When	2015/2016	2018/2019
Why	To inform Ford site zoning and public realm plan	To examine viability of proposed development
How	High level analysis - based on POTENTIAL transportation network and connections	Detailed Analysis - based on PROPOSED transportation network and connections
Where	Examines on-site, adjacent, and more distant impacts	Examines on-site, adjacent, and more distant impacts
Who	City pays for study	Developer pays for study

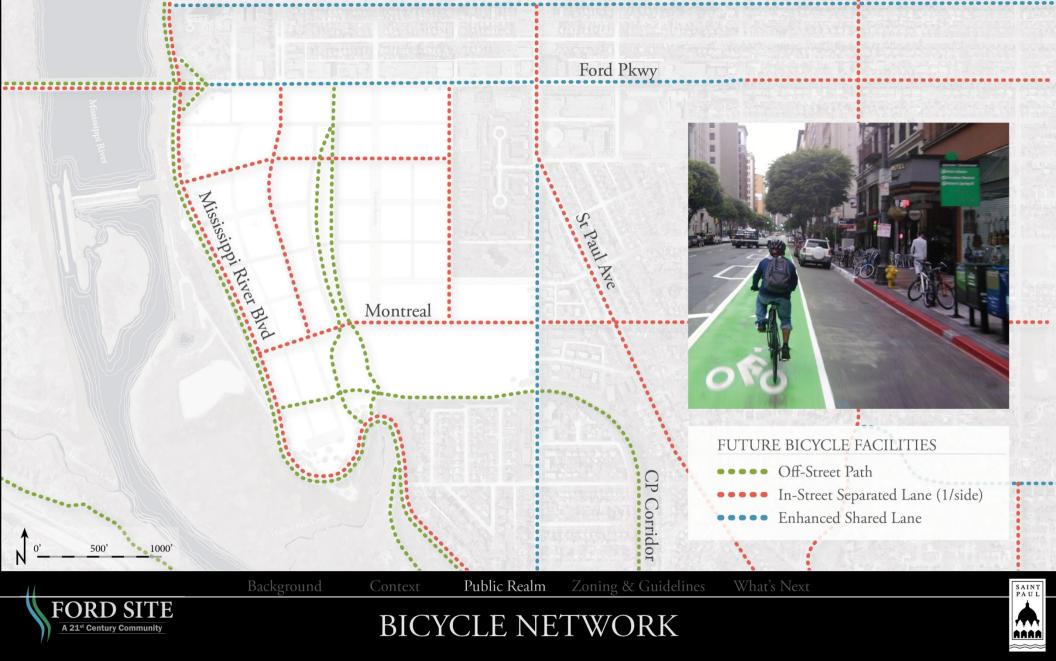
Housing, jobs and recreation at the Ford site will bring new pedestrians, cyclists, and cars.

The transportation study found that these new trips can be accommodated on the site and on the roads in the area.



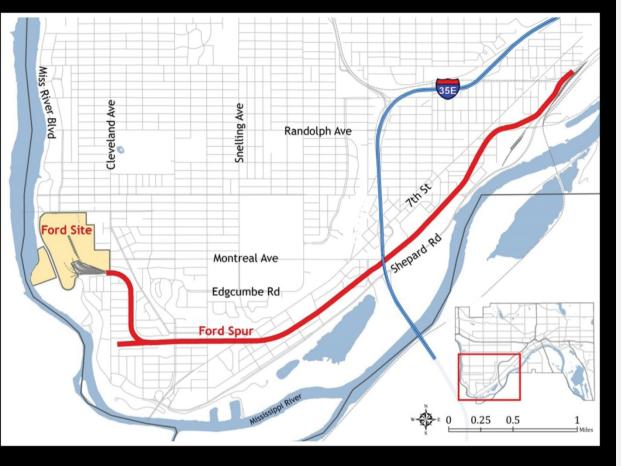












Complementary Studies:

- The spur as a public transportation corridor
- City's "Reimagine the Railway" study of bicycle and pedestrian options
- County's Riverview
 Corridor study of transit options
- Transit and bikepedestrian trails could be co-located on the spur



Contex

Public Realm

Zoning & Guidelines

What's Next







Parks and Open Space



DRAFT IN PROCESS (4-12-2017) - Undergoing revisions in preparation for Planning Commission review Parks and Open Space



Civic Square

A civic square will serve as the focal point for community gathering throughout the day and year, for employees, residents, visitors and the Highland Community. The square will be located on the north end of the site near Ford Parkway, providing a link between the commerce and activity of Highland Village and the newly developed Ford site.



The public square will be lined with retail, service, residential and office uses, providing a critical mass of activity and people around the space. The square will be a pedestrian-only space, with vehicular access only for deliveries, cleaning, and emergency during restricted hours and from designated access points. Tenants choosing the office, residential and business frontages on the civic square, will be those that thrive in active, pedestrian environments, and seek a unique, place-based location that is rare to find in the region. All buildings lining the square will have vehicular access at the rear or in structured parking.



Potential elements for considered inclusion in the civic square are identified below. Particular emphasis will be placed on creating a flexible space that allows for a range of activities and community events throughout the year. The square is envisioned to be well lined with active commerce, particularly seasonal outdoor dining.









Flex stage and gathering area for performances, markets, etc.

Public seating and tables for eating, games, other

Public/private dining spaces around edge

Seasonal design interest

Parks and Open Space



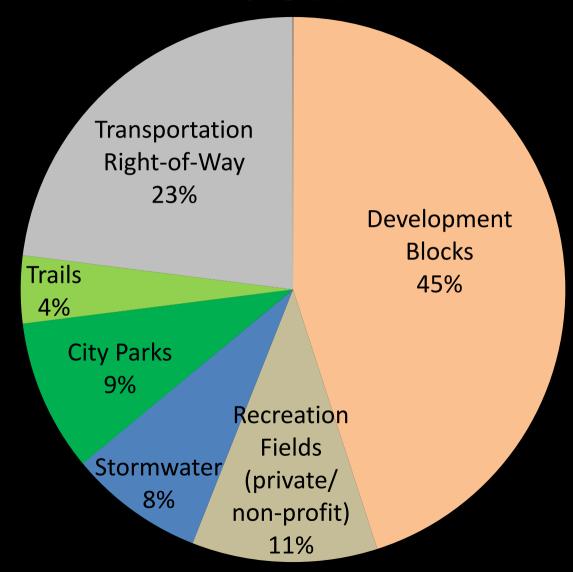
Stormwater Feature





Land Use Mix



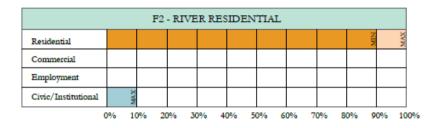


DRAFT Development Range for Master Plan

Land Use	Minimum	Maximum
Housing	2,400 dwelling units	4,000 dwelling units
Retail & Service	150,000 sq ft GFA	300,000 sq ft GFA
Office & Employment	200,000 sq ft GFA	450,000 sq ft GFA
Civic & Institutional	50,000 sq ft GFA	150,000 sq ft GFA

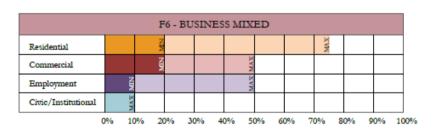
Required Mix of Uses

There is a difference between allowing and requiring a mix of uses within districts. Requiring a minimum and maximum mix of uses ensures visual, functional, and economic diversity within proximity. Each district on the Ford site shall include a mix of uses as identified below. The required range of land uses by type may range from no requirement to a base (minimum) requirement and a maximum requirement. The requirements should be used by the site master developer throughout site build out, to guide the selection of sub-developers and projects for each block.

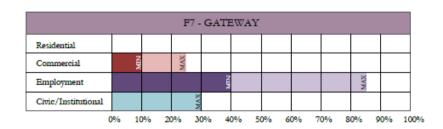


F5 - RESIDENTIAL - HIGH										
Residential				2						MAX
Commercial	NEW		MAX							
Employment		AVA								
Civic/Institutional		WWX								
	0%	10% 2	0% 3	0% 4	0% 5	0% 6	0% 7	0% 8	0% 9	0% 10





			F4 - R	ESID	EN'	ľIAL	- MI	D					
Residential							NIM						MAX
Commercial	N N		MAX										
Employment		MAX											
Civic/Institutional		MAX											
	0%	10%	20%	30%	40	0%	50%	60)% 1	70%	80%	90%	100





Building Types



- 1. Multi-Unit Home
- 2. Carriage House
- 3. Townhouse/Rowhouse
- 4. Multi-Family Low
- 5. Multi-Family Medium
- 6. Live/Work
- 7. Mixed Residential & Commercial
- 8. Civic & Institutional
- 9. Commercial & Employment
- 10. Parking Structure



Building Type Standards



	BUILDING TYPE										
STANDARD	Multi-Unit Home	Carriage House	Townhouse / Rowhouse	Multi-Family, Low	Multi-Family, Medium	Live/Work	Mixed Residen- tial & Commer- cial	Civic & Institu- tional	Commercial & Employment	Parking Structure	
Units per Bldg	2-6	1-2	3-16	6 - 40	40 and over	2-8		n	/a		
Building Width, maximum	6	0'	150°	200°	60° min, no max	150°	n/a	n/a	n/a	n/a	
Lot Width, minimum	8	0°	30°	60°	n/a	30°	n/a				
Lot Coverage by Bldgs, maximum	30	9 /o	50%		70%		80%				
Lot Coverage for Open Space, minimum	50	%		2	5%		20%				
Building Height	Determined by Zoning District	30' maximum				Determined by	Zoning District				
Public Right-of-Way Setback	Min. = 10° (a) Max. = 40°		Min. Max.			Min. = 5' Max. = 20'	Min. = 5' Max. = 15'				
Interior Lot Line Setback	Min. = 10' (b) Max. = n/a		Min. = 6' (b) Max. = n/a								
Parking		nce per dwelling us bedroom and Ma									
Accessory Structures	Up to 3	per lot	Up to 1 per Up to 2 per Up to 2 per dwelling unit structure structure				Up to 2 per structure	Up to 2 per structure	Up to 2 per structure	Up to 2 per structure	

⁽a) Minimum setback along Mississippi River Boulevard is 30'

⁽b) No setback is required for building walls containing no windows or other openings when the wall meets the fire resistance standards of the Minnesota State Building Code and there is a Common Interest Community (CIC) or recorded maintenance easement that covers the affected properties.



Building Type Example



Multi-Unit Home

Dwelling units	2-6 units per building
Lot width, minimum	80 feet
Building width, maximum	60 feet
Lot coverage by buildings, maximum	30% (includes coverage by secondary building - Carriage
	House, and by other accessory buildings)
Lot coverage by open space, minimum	50%
Building height	Minimum 20 feet; maximum 48 feet
Setbacks	
Public Right-of-Way	Minimum 30 feet minimum from Mississippi River Boule-
	vard and minimum 10 feet from other rights-of-way,
	maximum 40 feet
Interior Lot Line	10 feet minimum
Parking requirements	Minimum 0.75 spaces per dwelling unit; maximum 2.0
	spaces per dwelling unit; except as noted in Chapter 4,
	Parking.
Accessory buildings allowed	Up to 3 including the Carriage House building

Definition: The Multi-Unit Home building type is a small- to medium-sized building that consists of side-by-side or stacked dwelling units.

Access: Each unit will have a private interior entrance, but may share front and rear ingress/egress with other units. Building exteriors shall be accessed from the front street.









Building Type Example









Multi-Family, Medium

Dwelling units	40 or more
Lot width, minimum	n/a
Building width, maximum	n/a
Lot coverage by buildings, maximum	70%
Lot coverage by open space, minimum	25%
Building height	Determined by zoning district
Setbacks	
Public Right-of-Way	Minimum 10 feet; maximum 20 feet
Interior Lot Line	Minimum 6 feet, except as noted in Table 5.2, Building Type
	standards Summary Table, footnote (b).
Parking requirements	Minimum 0.75 spaces per dwelling unit; maximum 2.0 spaces
	per dwelling unit; except as noted in Chapter 4, Parking.
Accessory buildings allowed	Up to 2 per main (principal) building

Definition: A medium to large building with multiple dwelling units, which may occupy a portion of a city block or a full city block. The building may include other uses, such as local office and commercial. The dwelling units may be of mixed sizes (number of bedrooms) and styles to encourage mixed-income development and to meet the needs of families of all sizes. This building type allows for different types of housing arrangements besides single family, such as senior housing or congregate living.

Access: Units typically share exterior access with one shared entry along the front facade. Ground level non-residential units may have individual access on front facades. Vehicular access shall be confined to side and rear streets.



How Are the Ford Districts Different?







Purpose: To maximize ecosystem restoration, preservation and stability to the greatest extent practical is critical to economic, social, biological, and aesthetic value and sustainability of the site. The flora and fauna on the site will provide aesthetic and health benefits for all inhabitants and visitors to the site.



The previous state of the site was largely developed with little vegetative and habitat layer. Reintroducing a strong system of plants will increase the site's value economically, socially and environmentally. Planting and vegetation across the site and in smaller areas should focus on visual interest through all seasons and be attractive to wildlife, especially birds and pollinators. The intent of these standards is to:

- · Maximize biodiversity of the site and provide maximum possible contribution to local landscape ecology
- Reduce removal of significant existing vegetation
- Re-establish habitat and extensive vegetation on site with new plantings
- Create visual interest
- Provide wildlife habitat
- Maximize ecological services

The following standards are to be used in place of standards in Saint Paul Zoning Code Section 63.115.

Open Space Coverage

Required open space coverage for lots is addressed in Chapter 5 Building Types. Open space is defined as areas covered by landscape materials, gardens, walkways, patios, recreation facilities, or play areas.

General Standards

Vegetation





Purpose - To reduce unnecessary lighting and light pollution, to minimize lighting impacts on surrounding properties and to minimize energy consumption for lighting purposes.

Table 4.6 Lighting Requirements by Zoning District

	F1 - River Residential	F2 - Residential Mixed Low	F3 - Residential Mixed Medium	F4 - Residential Mixed High	F5 - Business Mixed	F6 - Gateway
Ambient Light Level Goal	medium	low	low	medium	medium-high	medium-high
Lighting Standards, Maximum	Full cutoff light- ing, controlled with dimmer, time switch or motion sensors	Full cutoff light- ing, controlled with dimmer, time switch or motion sensors	Full cutoff lighting, some low wattage, non-full cutoff lighting, controlled with dimmers, time switch or motion sensors	Full cutoff lighting, some low wattage, non-full cutoff lighting, controlled with dimmers, time switch or motion sensors	Full cutoff lighting, some low wattage, non-full cutoff lighting, controlled with dimmers, time switch or motion sensors	Full cutoff lighting, some low wattage, non-full cutoff lighting, controlled with dimmers, time switch or motion sensors
Allowed Initial Lamp Lumens per square foot, Maximum	2.5 - 3.2 lumens per square foot	3.3 - 4.2 lumens per square foot	7.6 - 9.7 lumens per square foot	7.6 - 9.7 lumens per square foot	7.6 - 9.7 lumens per square foot	7.6 - 9.7 lumens per square foot
Lamp Allowance (Lumens), Maximum	17,000 lumens	24,000 lumens	44,000 lumens	44,000 lumens	44,000 lumens	44,000 lumens
Foot Candles at Property Line, Maximum	0.1 horizontal and vertical	0.1 horizontal and vertical	0.2 horizontal and vertical	0.2 horizontal and vertical	0.2 horizontal and vertical	0.2 horizontal and vertical
Required Shielding	Fully shielded luminaire with no uplight or better	Shielded luminaire with no uplight or better	Shielded luminaire with no uplight or better	Shielded luminaire with no uplight or better	Partially shielded luminaire with no uplight or better	Partially shielded luminaire with no uplight or better
Lighting Curfew for Non- Residential	10 pm or close of business, whichever is later	10 pm or close of business, whichever is later	10 pm or close of business, whichever is later	10 pm or close of business, whichever is later	10 pm or close of business, whichever is later	10 pm or close of business, whichever is later
Height of Light Fixture, Maximum	20 feet for freestanding fixture; height of building for attached fixture	20 feet for freestanding fixture; height of building for attached fixture	20 feet for freestanding fixture; height of building for attached fixture	20 feet for freestanding fixture; height of building for attached fixture	20 feet for freestanding fixture; height of building for attached fixture	20 feet for freestanding fixture; height of building for attached fixture

General Standards

Lighting

FORD SITE



DRAFT IN PROCESS (4-12-2017) - Undergoing revisions in preparation for Planning Commission review

Zoning - Districts and General Standards



Purpose: to promote the safe, effective and efficient use of active solar energy systems installed to reduce the on-site consumption of fossil fuels or utility-supplied electric energy. The following solar energy standards support the installation of solar systems or the design of buildings to be solar ready for future installations.

Solar Access

Solar access for adjacent lots and buildings must be preserved such that any building shall be no more than 50% shaded on December 22 of the year.

Permitted Accessory Use

Active solar energy systems shall be allowed as an accessory use in all zoning classifications where structures of any sort are allowed, subject to certain requirements as set forth in Table 4.5 Solar Standards.

Solar Administration

Approved Solar Components: Electric solar energy system components must have a UL listing and solar hot water systems must have an SRCC rating.

Plan Approval Required: All solar energy systems shall require administrative plan approval by the City of Saint Paul zoning administrator.



General Standards

Solar





Green Roofs

Functional Green Roof Area shall be defined as area atop a roof surface on a building, open to the sky and air, which is surfaced with soil and living plant materials for the purpose of retaining rainwater and absorbing heat from sunlight. The depth of soil and planted material shall be at least two (2) inches to be considered Functional Green Roof Area.

Roof Design Exemptions for Functional Green Roof Area

Functional Green Roof Areas shall be exempt from the rooftop design standards identified in "Pitch, Orientation, Materials and Reflectivity".

Floor Area Exemptions for Functional Green Roof Area

Functional Green Roof Areas that are to be accessed only for maintenance purposes and are not intended to be used by building occupants or others shall be exempt from the calculation of Gross Floor Area of a building.

Green Roof Areas as Open Space

Where a rooftop surface above the third floor includes Functional Green Roof Area, adjacent open-air outdoor space intended for use by building occupants or other persons that does not meet the definition of Functional Green Roof Area, such as a patio or deck, is eligible to meet up to 50% of the open space requirements of the property/site, as measured in gross square feet of the usable adjacent space. All such usable outdoor space shall be set back at least ten (10) feet from all outer roof edges, and shall be located and oriented in relation to adjacent properties to minimize potential visual, noise and privacy impacts to abutting uses.

General Standards

Roofs

General Standards – Car Parking

Land Use	Minimum	Maximum
Non-residential	1 space per 600	1 space per 400
Non-residential	square feet GFA	square feet GFA
Docidontial dwallings	0.75 space per	2.0 spaces per
Residential, dwellings	dwelling	dwelling
Posidontial congregate living	0.25 space per	1.0 space per
Residential, congregate living	bedroom	bedroom

General Standards – Bicycle Parking

Bicycle Parking Spaces	Required			
Residential, dwellings	1 space per dwelling			
Residential, congregate living	1 space per bedroom			
Educational	1 space per 5 students			
Recreational	1 space per 300 square feet of surface area			
Commercial, Office, Civic	1 space per 5,000 square feet GFA			
Production and Processing	1 space per 15,000 square feet GFA			

4.5 District Uses

Use	F1	F2	F3	F4	F5	F6	Definition (d) Standards (s)		
Residential Uses									
Dwellings									
Two-family dwelling	P						(d)		
Multiple-family dwelling	P	P	P	P	P		(d)		
Carriage house dwelling	P	P					(d)		
Mixed Commercial-Residential Uses									
Home occupation	P	P	P	P	P	P	(d), (s)		
Live-work unit		P	P	P	P	P	(d), (s)		
Mixed residential and commercial use		P	P	P	P	P	(d)		
Congregate Living									
Adult care home		P	P	P	P	P	(d)		
Community residential facility, licensed correctional							(d), (s)		
Dormitory				P	P		(d), (s)		
Emergency housing facility		С	С	С			(d), (s)		
Foster home	P	P	P	P			(d)		
Sharable housing		P	P	P	P		(d)		
Shelter for battered persons	P/C	P/C	P/C	P/C	P/C		(d), (s)		
Sober house	P/C	P/C	P/C	P/C	P/C		(d), (s)		
Supportive housing facility	P/C	P	P	P	P		(d), (s)		
Civic and Institutional Uses									
Club, fraternal organization, lodge hall		P	P	P	P		(d)		
College, university, specialty school		P	P	P	P	P	(d)		
Day care, primary and secondary school		P	P	P	P	P	(d), (s)		
Public library, museum	P	P	P	P	P	P			
Public and private park, playground	P	P	P	P	P	P			
Recreation, noncommercial		P	P	P	P	P	(d)		
Religious institution, place of worship		P	P	P	P	P	(d)		

Uses allowed in the Ford site Zoning Districts are identified in this table. Most of these uses are identified in the citywide zoning code, while a few are unique to these districts. Use types unique to these districts are defined in Appendix X.

District Uses







Public Input and Key Issues



Feedback on Concept Plan



Transportation

- Questions about traffic impacts from the site.
- Existing conditions in area need to improve like safe crossings.
- Do we disperse trips across many streets or protect some streets?
- Strong support to design site for walking, biking and transit.

Land Use & Scale

- Mix of residential, commercial and employment is good.
- The variety of housing options is good.
- Some want singlefamily homes on site.
- Proposed development
 - some say too denseand some say it's good.
- Range of building types and sizes is good
 it's an urban village.

Parks and Open Space

- Love the storm water feature.
- Love the parks. Can we have more?
- Focus on river
 connections and
 respect natural feel of
 the valley.
- Have trees and vegetation throughout the site.
- Let's have fields for multiple sports.



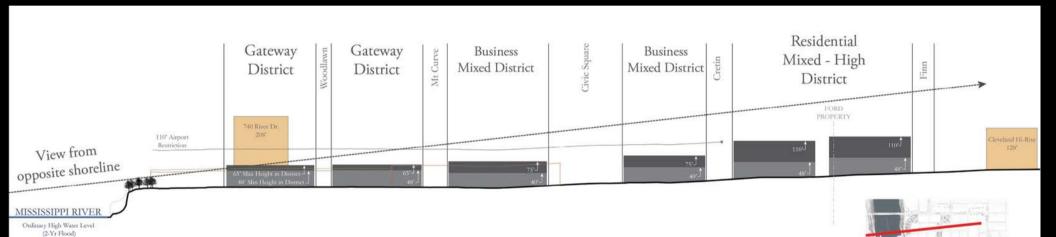
200'

300°

400°

Height and Scale







Illustrative Build Out







Ford site in 2040? (No, just an example.)



Full build out to take 12-20 years





Imagining the Future Site - 1







Imagining the Future Site - 2







Imagining the Future Site - 3

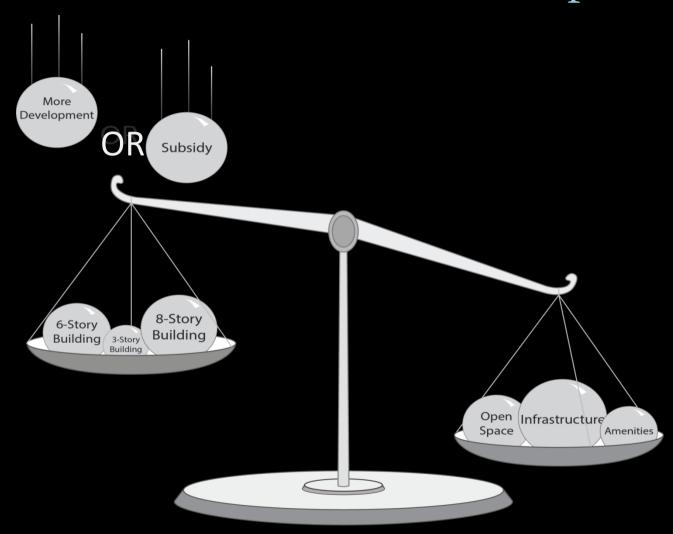






The Economics of Development

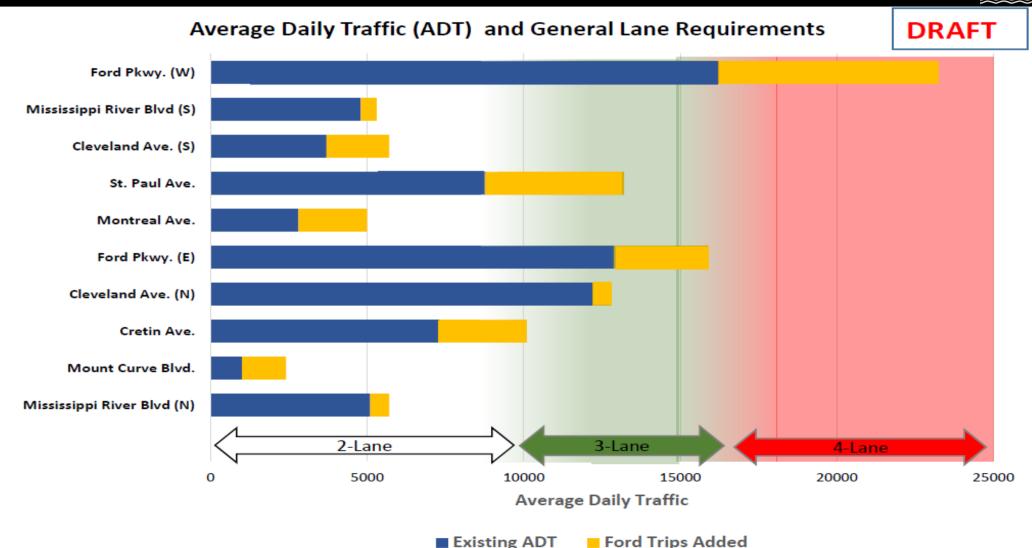






The Future of Traffic







Urban Design to Reduce Driving



Six factors that affect the amount people drive:

- 1. Land use mix
- 2. Household density
- 3. Sidewalk coverage
- 4. Transit access
- 5. Intersection density
- 6. Managed parking

Of the above factors, "land use mix and household density had the largest impact on vehicle miles traveled". – 2017 study for State of MA by Bill Holloway, State Smart Transportation Initiative



Housing Mix

















Parks and Open Space



Open Space Types



While the open space system is intended to feel continuous in everyday experience, there are three distinct categories of open space types. The first is the traditional city park, which is acquired through parkland dedication and would become part of the city's park system. The second is the stormwater spine, which may feel like a park, but technically serves a utility function. The third is a non-public recreation type to be neither owned nor operated by the city. It is included here to reflect the vision of the community to see a continuation of recreational fields on the site.

OPEN SPACE TYPES



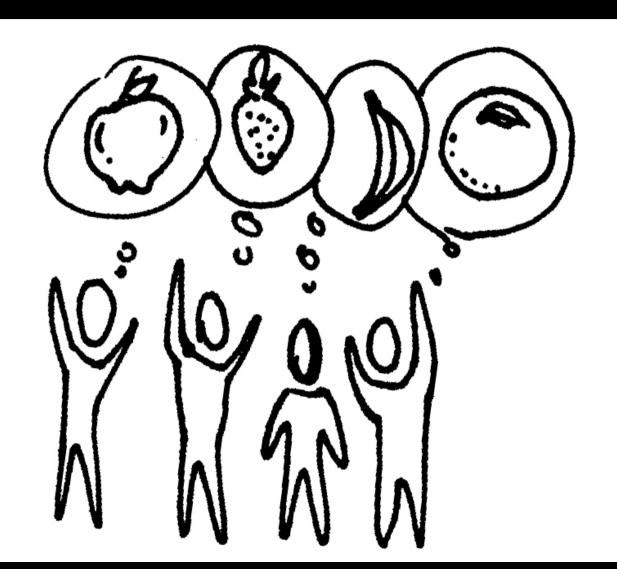
Stormwater Infrastructure

Non-Public Recreation



The City is Listening

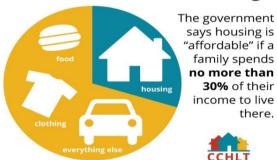




Role of Sustainability



What is **Affordable Housing**?







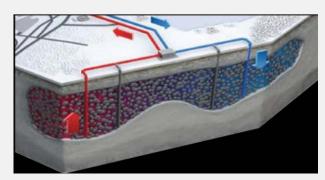
Development

Subsidy





Open Infrastructure





Urban Density is Sustainable



"Urban sprawl or suburban sprawl describes the expansion of human populations away from central urban areas into low-density, monofunctional and usually car-dependent communities, in a process called suburbanization." - Wikipedia

"In the United States and Canada, sprawl is among planners' fundamental challenges. It encourages high energy use and dependence on automobiles, experts said." - Scientific American May 2016

"Larger, denser cities are cleaner and more energy efficient than smaller cities, suburbs, and even small towns."

- The Atlantic, April 2012





"Plan B" in Master Plan?







Conclusion







How to Provide Input



Planning Commission Public Hearing on June 30th

and/or

City Council Public Hearing in September (Date to be determined)

- 1. Submit official public testimony through the City's Ford web form at stpaul.gov/FordComments
- 2. Send a letter or email to the Planning Commission or City Council, care of City staff
- 3. Attend the public hearing and provide spoken testimony
 - o Each of the above methods carries equal legal weight
 - o Please include your address and full name with your testimony, in order for it to be included in the official public record