

Penguins Lower Hill Redevelopment

Transportation Sub-group

October 17, 2012

Summary of Effort

Traffic and parking analyses were performed for the Lower Hill Redevelopment site. Aspects such as peak period traffic, pedestrian volumes, areas of significant traffic impact and existing travel mode splits were analyzed to inform recommendations. A draft report¹ was prepared providing traffic and mitigation measures for existing conditions. Traffic improvement recommendations and strategies to assist with Vehicle Miles Travelled (VMT) reductions were incorporated in the report. These include measures such as enhancing access to public transit by the Port Authority of Allegheny County (PAAC) and improved sidewalk design to encourage pedestrian activity.

Incorporation in PLDP

Transportation management approach as informed by the research and documentation of the Transportation Sub Group has been incorporated in the Lower Hill Preliminary Land development plan (PLDP) under Sections 7. and 8.

Section 7.4: Shared Parking Network Strategies incorporates parking reduction recommendations through reduction for alternate modes of transport and shared use of parking.

Section 7.5: Transit & Bicycle Network Connections identify existing bikeways, trails, bus and light rail routes to allow commuters alternative modes of transport assisting with VMT reduction.

Section 7.6: Transportation Demand Management incorporates recommendations to allow for a 20% reduction in trips based on the trip generation projections of the of draft report prepared by the Transportation Subgroup.

Section 8.4: Intersection Pedestrian Amenities incorporates recommended improvements to improve pedestrian access at cross walks to encourage streets safe for walking.

Section 8.5: Traffic Signalization Improvements incorporates roadway and signal improvements suggested to mitigate existing traffic conditions and reduce congestion and delay.

¹ Former Civic Arena Site Redevelopment Master Plan Transportation Study
–Trans Associates Engineering Consultants, January 17 2012

LEED Neighborhood Development

Transportation recommendations are based on assisting compliance with the US Green Building Council's (USGBC) LEED® for Neighborhood (ND) rating system goals. These include encouraging walkable mixed-use development, promoting healthier lifestyles by providing pedestrian and bicycle networks and bike share programs, promoting transit oriented development with access to mass transit to reduce automobile dependence, reduced parking counts through shared use of parking, enhancing transit facilities to encourage ridership and developing transportation demand management strategies such as ride sharing, guaranteed ride home, ride matching, flex time, etc.

Pittsburgh 2030 District

2030 Districts² are being formed throughout the US to provide a business model for urban sustainability. These unique public/ private partnerships bring together property owners and managers with government entities and community stakeholders to develop creative strategies for meeting energy, water and vehicle emissions reduction targets by the year 2030.

The Pittsburgh 2030 District³, an initiative led by the Green Building Alliance (GBA) headquartered in Pittsburgh, has proposed for the entire downtown Golden Triangle of Pittsburgh to share best practices and verification methods to inform process for meeting these goals. In keeping with their vision of sustainability for the Lower Hill redevelopment the Penguins, as Founding Partners of the 'Pittsburgh 2030 District' support the CO₂ Emissions of Auto & Freight goals of the 2030 district by targeting an immediate 50% reduction below the current District average.

To help with implementation the PLDP lays out the vision for a pedestrian oriented/ transit oriented neighborhood that relies on strategies that encourage the use of mass transit, bike share and car share reducing carbon dioxide emissions via individual automobile trips, significantly reducing the associated CO₂ emissions.

The redevelopment project will share best practices and lessons learned to enhance performance levels across the district.

² <http://2030district.org/>

³ <http://www.2030district.org/pittsburgh/>