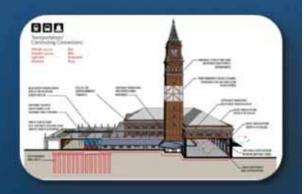
Looking Back, Moving Ahead: Green Building and Historic Preservation in Transit Stations

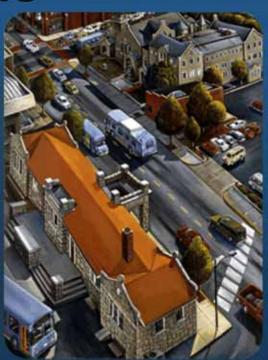


INITIAL LEED ANALYSIS: BASIC PROJECT CHARACTERISTICS

Certification Categories	Maximum Points Available	Points Likely *	Additional Points Possible **
Sustainable Sites	28	16	11
Water Efficiency	10	4	6
Energy & Atmosphere	37	2	35
Materials & Resources	13	9	4
Indoor Air Quality	12	8	4
Innovation in Design	6	3	0
Regional Priorities	4	4	0
Total	110	46	60

- * Points indicated as "likely" are not guaranteed by Delta.
- ** Excludes 4 credit points suggested by Delta as unlikely to be obtained.





New Partners for Smart Growth Conference February 8, 2012

Building Sustainable Communities

Key outcomes of our Active Interagency Collaboration —

- Joint implementation of projects
- Sharing of lessons from the field
- Identification of opportunities
 - Linking grant opportunities
 - Where can federal efforts enhance outcomes?
 - Where can new federal partners get involved?
 - Implementation!



Sustainable Communities Partnership – Key Lessons

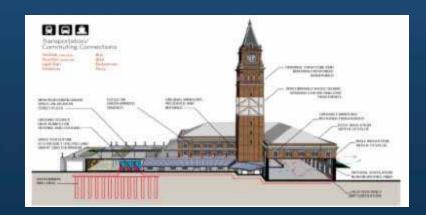
- Federal, state, local agency coordination
 - Implementation!
- Funding is tip of iceberg
- Cross-pollination of ideas:
 - Transit Oriented Development
 - Area wide planning efforts
 - Green Buildings
 - Existing Buildings



Case Studies – Green Preservation & Transit Stations

- Present a series of successful green preservation transit projects
- Highlight the challenges and approaches to overcome those challenges
- Lay out replicable vehicles/methods of funding used to complete the projects
- Demonstrate the project's impact on development in the surrounding community





Benefits Beyond the Building -**Green Preservation & Transit Stations**

&EPA ====

Region 5 Land Revitalization Technical Assistance Project

GREEN BUILDING AND HISTORIC PRESERVATION CASE STUDIES FOR MOLINE MULTI-MODAL STATION PROJECT (2 OF 5)

Ellis provided lactrical insuring a suggest to the Clip of Weller, Alledo in the cross of prior building and listone presentation for the Blodie Mod Strate Platter Project. This assistance was bitmoint to absorption the HUD OUT WIR Planmant of the Business and Communities by providing the City of Malder access to technical execution and expertise. Eith technical assistance with the facused on the development of the case studies on the recording of exhibiting disclaims to travel cardinality in Every and Endowers Design (1997) standard to make sold transportation county, where country. There has non-studies a presented at the Mindre Consister Ministry half or Childre 18, 2011. This is the second case study in the certain

UNION DEPOT MULTI-MODAL TRANSIT AND TRANSPORTATION HUB - ST. PAUL, MINNESOTA

Project Summary

The Saint Paul Union Disper Multi-Modal Transit and Transportation Hub is a passamper red and regional travel project. It consists of the minorphis of Feitoric Union Depart and the coincurion of Americ, sense by hor corriers, local has and left red services, these becomes and he are accommodation. The Depart will provide future capacity for high-speed rail and other edly and light rail services.

The project is boated in an unbarn-downtown setting and is: d'to have a significant positive regard on diswetmen

Uses Depet is exhibitable kend on the National Region of Numer. Places. It is the protest property in the Lowercoon Numer Hopes Register Destrict and the St. Plad Lowercoon Hortage samounding others falors.

The project will return the Dound's this of historic hultibra the water, more, commone and head house), so well as to busined roll yard, to action use & Programmatic Agreement was businessed with the State Historic Preservation Office and other genoes that signallies arises of historic preservation and other repairments including a XXI repairs but area in the last ing original state of that will become an interpreting contin-



Square Francisco VIII St. St. St. and St. St. on St. Organi Construction Sale: 1828 Historia Designation Massed Project of Wilson Project Completion State 2012

est assert and Project Control schoolses Control Million of Project Control (COS) Million

That the EPA Land Re-distantion Was also at help linear, upo gov/less metabolism

Agencies involved in the Section 105 Process Size: Historic Preservation Office:

St. Paul Hortage Preservation Commission St. Placi Playing and Economic Development

Minnesota Department of Transportation Historie St. Paul

Preservation Affance of Mercenota Ministración National Histor and Discounting Area National Park Service

Capital River Council

Accelerated Schedule and Agency Review

The accelerated schedule was in potential coeffee. with a differente Section 106 bistoric precervation ments process that requires thereugh documentation penceus was managed by involving key agencies. that met on a regular book (neary three weeks) to docum and present design options. The design team tyckeled representations from the surrer, contractor architects, and transportation planners. Mostings seem facilitated by the topic's historical architects. The process allowed the architects time to adequately levelop design approaches.—based on initial profiles others, without requiring significant, but return radicion work-randing in botter detailed design solutions. This suffelignative process was efficient and swarding. (Missacon could be discussed and weighed in the period current of all participants who had the opportunity to belo phase and influence the cutosom.

Partnerships and Funding Strategies

Romany County Regional Railroad Authority (RCFRIA) is an affiliate of Rainney County RCRRs will build men and manage the completed localty The other medient

- Transportetion providers including Armeni, intentity has current, Motor Forest and the Sen Cities required timest agency.
- Funding partners include the Microsofts Department of Transportation for Federal Hobitself
 Advantations and Federal Highway Advantations
 funds and the Minispolitan Council for Federal
 Transit Advantations funds

Organizations and government are solving in a variety of corectivation and support rotes such as LOCATE Task Futon. City of Saint Paul. Saint Paul Area Chamber of Commerce, Counties Transit Improvement Board, AFL-CK), On Board Michell, Saint Poul Plan Authority SCHAA .. Sr. Poul. Soile Paul Riverbort Corporation, Capital City Partner U.S. Postal Service, Mirresocta High Speed Red Commission, Red Rock Corridor Com Ruth Line Task Force and the Category Corridor

Project costs include parchase of the train deck, wolling more, concourse and adjacent land from the U.S. Proppi Service and purchase of the Head Hoses public area from a priorite owner. Yack snage agreements will be required with two Class I relevads, Union Pacific and Carriellon Facility.

Funding warrant to date exclude

· SAFETEA-LU, 1301 Indexe funds \$43.5 redice Federal Reilroad Administration

funds, HSIII \$40 million TIGER 1 Indensi Navels \$35 milion

 Federal Transif Administration funds \$4 million

. State bond keeds \$13.7 million Expended RCRFA law \$11.5 million

Leverage Financing Opportunities

RCREA will recordate become profor operating agreements with the transportation providers for premail space reeds and provide core and shell conditions for the provider to complete and furnish.



Green Features

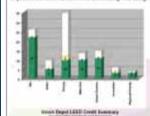
- Genne hangres; technile
- Asbestos abatement
- Construction waste management Full-service bloods station
- Electric vehicle charging stations
- Fixel efficient vehicle parking
- Connection to district heating-coding
- **Elepatestrian enhancements**
- Public transportation access Domowoler control
- Building major
- Construction waste management
- Water officient landscaping

Challenges and Solutions Building Entrance

A new entorior to the financi, train deck provides an important component of modern handsonake. The strokes son meablind from a completely glass exclusion to ore incorporating more cost of stone and brick, which was seemed more complementary to the historic building. Head House Historic Access and Light Rail Station

Development

The rese Cartrol Consdor hight real station inspectable the main building presence and officewelly eleminated. automobile access to the ceremonal front door. This inquested the historical access to the building. The design



to pay to compared that his birds is call places, and supplied with local historical agentains to slovelop an alternate access point via an oxiding carringness orary at the based level Wildowing the corrugoway, in the same architectural style and materials as the original, provides access to the historic Head House in the same general location and expension meet access from transportation access The place was rebuilt and insulated and energy efficient lighting was installed.

Historic Windows and Energy Efficiency

The building lives many of the original wirelows to place. scene with shoot flurters said scene with second Much discussion resolved around from to retain those weakness and improve energy efficiency. All of the stand hance windows were reliabled and suggisterarised by a store window for energy efficiency, in addition, the Walling Room has three large skylights that were painted over skiring the war years. The skylights here been cleared and restored to allow daylighting into the Walling Poom. that has been absent for recent 70 years.

Euclding Material Salvaging and Rouse

Many hubbres represents as an historic hubbres and no larger sociable and often difficult to match effectively They challenge was additioned to the following ways

- . The Uraco Deput has been also to stitle many inspects of its asisting false; at the new correspondent ternacio reministi in titis itimi yess nabingnil and respect in seven labore it was reissang.
- Historic doors were repaired, refurbished, refreshed
- Existing stone waitwood was cleaned, patched and
- Brick removed from one area was remotated in other.
- The only remaining historic from access star and platform was retocated to provide for its arenediate yes an an lestory, notified and future use he
- History appearances such as wood paterners regroups, and choice are of hweep record and in us senes, resempresed, and
- . Original muchward chases are once again being satural for the most building upstores.

Wall the EPA Brownfields Was why of protecting greatermentality

Lessons for Green Historic Communities

- Preservation is sustainable development and recycling in the highest form
- Green buildings and historic preservation can be a winning combination
- Project communication is essential
- One anchor green building may spark growth and redevelopment of entire community

Learning More After Today

- Green Preservation and Transit Case Studies http://epa.gov/region5/sustainable/moline.html
- Partnership for Sustainable Communities <u>http://www.sustainablecommunities.gov/</u>
- Partnership Grants List
 http://www.sustainablecommunities.gov/pdf/lever-agingPartnership.pdf
- US EPA Region 5 Sustainable Communities http://epa.gov/region5/sustainable/

Building Sustainable Communities

Green Building and Historic Preservation in Transit Stations

- Green Preservation
 - Jean Carroon, Goody Clancy
- Wabash Station
 - John Gaar, 360 Architecture
- King Street Station
 - Trevina Wang, Seattle Dept of Transportation

Contact info

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