



To: Eleni Churchill, CCRPC
Peter Keating, CCRPC

Date: July 3, 2017

Memorandum

Project #: 88013.86

From: David Saladino, P.E., AICP

Re: **Technical & Cost Proposal**

Burlington Amtrak Train Storage & Servicing Study
Burlington, Vermont

This proposal outlines the background, proposed scope of work, and budget to develop a study to select an overnight storage and servicing location for the future Amtrak passenger train in the greater Burlington area ("Project").

Purpose of Study

The Chittenden County Regional Planning Commission (CCRPC), the City of Burlington (COB), the Vermont Agency of Transportation (VTrans), and Vermont Rail Systems (VRS), are collaborating on a study to identify an overnight storage and servicing location for the future Amtrak passenger train, in the greater Burlington area. The study will identify potential locations and evaluate impacts and benefits with regard to rail operations, vehicle access to the train and other Amtrak needs, impacts to public and private right-of-way, accessibility to area transportation facilities, permitting requirements, and other issues. The study will also identify the necessary next steps in capital and operational improvements to facilitate the overnight storage of the train at the preferred location.

Scope of Work

Task 1 – Convene Technical Advisory Committee

The technical advisory committee (TAC) will consist of staff from VTrans, COB, VRS, and CCRPC.

VHB will prepare for and attend two meetings:

1. Kickoff Meeting: Review the scope of work and schedule, discuss current and future train operational needs, discuss potential Amtrak train storage locations, review list of evaluation/impact criteria, and discuss overall project goals.
2. Alternatives Evaluation: Review alternatives evaluation and select a preferred location

For budgeting purposes, we have allocated up to 8 hours for communications and meetings with Amtrak staff.

Deliverables: Meeting agenda, notes

Task 2 – Identification of Potential Locations

VHB will identify up to four potential locations for overnight storage of the Amtrak train. Taking into account Amtrak's requirements for overnight storing and servicing of the train sets, VHB will develop a list that represent a reasonable range of potential locations, which may include the following:

- Between King and College Streets (on a new siding to the east of the main line)
- Former Barrett's Trucking salt shed siding

40 IDX Drive
Building 100, Suite 200
South Burlington, VT 05403
P 802.497.6100

- Other sidings (up to 2 locations) in the greater Burlington area owned or controlled by VRS or accessible to VRS

Prior to any evaluation, VHB will provide a list of potential storage sites to the TAC for their review, comment and concurrence. For budgeting purposes, we have assumed that up to four locations will be evaluated.

Deliverable: List of potential locations for evaluation

Task 3 – Impact Evaluation

VHB will prepare an overview map and evaluate potential impacts and benefits for each potential storage location. The evaluation will include the following:

- Existing and planned rail operations
 - Qualitative assessment of impacts of Amtrak storage on ~~(both passenger and freight~~ rail activities)
- Circulation and safety of existing multimodal transportation facilities
 - Qualitative assessment of accessibility to each potential storage location
 - Identification of any designated High Crash Locations (or rail crossings) adjacent to each potential storage location
- Waterfront activities or special events
 - Assessment of impacts to special event activities resulting from each potential storage location
- Adjacent properties and uses.
 - Assessment of land uses adjacent to each potential storage location – including an assessment of the land uses permitted by zoning
- Human experience/aesthetics within broader waterfront context: lines of sight, light/shadows, safety, attractiveness
 - Assessment of aesthetic impacts – including viewshed assessment, shadow assessment, and qualitative description of visual context surrounding potential storage location
- ~~Vehicle access to the train and~~ 3-phase power availability
 - Availability of 3-phase power (or distance to 3-phase power) for each potential storage location
- Right-of-way, utility, noise, ~~air quality~~, environmental, stormwater and other resource impacts
 - Identification of any right-of-way impacts resulting from track improvements required to accommodate an Amtrak train at each potential storage location
 - Identification of any utility impacts resulting from track improvements required to accommodate an Amtrak train at each potential storage location

- Qualitative assessment of noise impacts at each potential storage location – based on distance to nearest residence
- Identification of natural resource or stormwater impacts resulting from track improvements required to accommodate an Amtrak train at each potential storage location
- Costs for capital and operational improvements
 - Order of magnitude capital improvement costs resulting from track improvements required to accommodate an Amtrak train at each potential storage location
 - Order of magnitude operational costs required to accommodate an Amtrak train at each potential storage location
- Permitting requirements
 - Identification of permitting requirements needed for track improvements required to accommodate an Amtrak train at each potential storage location
- Other issues / metrics identified during the kickoff meeting

Deliverables: Overview maps, evaluation matrix for up to four potential storage locations

Task 4 – Public Outreach & Refinement of Preferred Location Plan

Under this task, VHB will complete the following:

- Conduct a public meeting to present results from the evaluation of the potential sites and the TAC recommended preferred storage location.
- Develop a schematic Amtrak storage plan and brief technical memorandum summarizing: 1) capital and operational improvements, 2) ~~preliminary order of magnitude~~ cost estimates, and 3) permitting requirements for the selected site to accommodate the Amtrak train's overnight storage. The plan will also identify responsible party(ies) and timeline for each step.
- Present the study's findings, recommendations and implementation plan to one public body in the City of Burlington.
- Revise schematic Amtrak storage plan and technical memorandum based on input from the TAC and City of Burlington meeting.

Deliverables: Materials for public and City meetings, draft and final schematic Amtrak storage plan and brief technical memorandum

Assumptions

- The potential site assessment will be conducted at a “desktop” level (i.e. information reported in the evaluation matrix will be based on existing survey, GIS data, or previous field investigations).
- No topographic or boundary survey will be conducted for this project.
- Track design and space needs to generally follow layout previously developed for King to College Street segment
- Layout for preferred alternative to be conceptual in nature and be developed over existing aerial photography and rely on existing GIS information.

Schedule

Assuming a Notice to Proceed is issued by August 1, 2017, VHB anticipates the Project advancing according to the schedule outlined below:

- Project Kick-off: Early/Mid-August 2017
- Identification of Potential Locations: August
- Alternatives Evaluation: September
- TAC Meeting #2 – Site Selection: Late September
- Public Meeting: October
- Draft Schematic Plan and Tech Memo: October
- City Meeting: November
- Final Schematic Plan and Tech Memo: End of November 2017

Budget


The following matrix provides a summary of estimated labor hours by task as well as the overall estimated Project budget to coincide with the Scope of Services presented above.

Technical & Cost Proposal / Burlington Amtrak Train Storage & Servicing Study

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	BURLINGTON AMTRAK TRAIN STORAGE STUDY COST SUMMARY							Total Hours	Labor Costs
	Project Manager <i>Scott Burbank</i>	Senior Rail Engineer <i>Mark Louro</i>	Senior Rail & Signal Engineer <i>Terry Byrne</i>	Rail Engineer <i>Adam Zampino</i>	GIS Technician <i>Jesse Therrien</i>	Administrative Support <i>Jeanne Wilson</i>			
Task 1: Convene Technical Advisory									
TAC Meeting #1: Kick-off Meeting	6							6	\$ 897
TAC Meeting #2: Alternatives Evaluation	6			8				14	\$ 1,968
Coordination with Amtrak	4	4						8	\$ 1,461
Task 2: Identification of Potential Locations									
Identify up to 4 Potential Locations	2	2	2	4	16			26	\$ 3,044
TAC Review of Potential Locations	2							2	\$ 299
Task 3: Impact Evaluation									
Overview Map for up to 4 Locations	2	2		2	12			18	\$ 1,935
Evaluation Matrix for up to 4 Locations	2	2	2	20	24			50	\$ 5,808
Task 4: Public Outreach & Selection of Preferred Location									
Public Meeting	6			8	4	2		20	\$ 2,491
Draft Schematic Plan	2	4		8	2			16	\$ 2,388
Final Schematic Plan	2	2		2	2			8	\$ 1,154
Draft & Final Capital and Operating Costs	2	2	2	2				8	\$ 1,527
Draft Technical Memorandum	2	2	1	6	2	2		15	\$ 2,164
Final Technical Memorandum	2	2		2	2	2		10	\$ 1,365
City Meeting	6					2		12	\$ 1,420
TOTAL HOURS:	46	22	7	62	68	8		213	
DIRECT HOURLY RATES :	\$ 52.72	\$ 75.97	\$ 93.27	\$ 47.15	\$ 27.51	\$ 37.13			
OVERHEAD (157.93) :	\$ 83.26	\$ 119.98	\$ 147.30	\$ 74.46	\$ 43.45	\$ 58.64			
FEE (10%) :	\$ 13.60	\$ 19.60	\$ 24.06	\$ 12.16	\$ 7.10	\$ 9.58			
TOTAL LABOR COSTS :	\$ 6,881	\$ 4,742	\$ 1,852	\$ 8,294	\$ 5,308	\$ 843			\$ 27,921

TOTAL LABOR COST: \$ 27,921
DIRECT EXPENSES (VHB): \$ 800
TOTAL: **\$ 28,721**