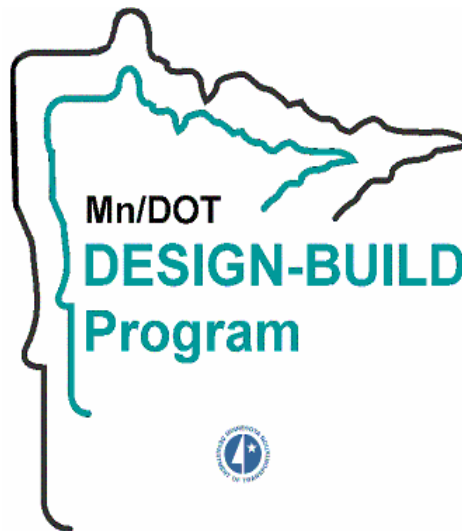


MINNESOTA DEPARTMENT OF TRANSPORTATION
Metro Division

ST. ANTHONY FALLS (35W) BRIDGE DESIGN-BUILD PROJECT
S.P. 2783-120
E.R. MN 07(300)



Technical Review Committee
Summary of Findings

C.S. McCrossan Construction, Inc.

Disclaimer: The strengths and weaknesses provided on the following pages represent observations from the Technical Review Committee members based upon the contents of the CSM Technical Proposal. There is no relative weight factor for each comment and more comments do not necessarily reflect a proposal that is stronger or weaker. It was up to each Technical Review Committee scoring member to determine the significance of each strength and/or weakness.

QUALITY

Strengths

- The Independent Bridge Design check by John Kulicki from Modjeski & Masters.
- Braun on the Executive Committee.
- Project Manager has Design-Build experience.
- EKS has experience with bridges of this size.
- Aesthetics, Environmental Management, and Public Relations are a part of the Quality Management Plan.
- Executive Summary portrayed a good overall management approach to Quality in the Design-Build (DB) environment.
- A good understanding of quality shown in the flow chart in Figure 4.
- The extent of safety staff in the organizational chart.
- Documented daily toolbox safety meetings.
- Previous utilization of a safety rewards program and safety incentives.
- Critical Activity Point enhanced and built into the project schedule.
- All incentives go to workers.

Weaknesses

- The Construction Quality Assurance Manager (CQAM) has limited Quality Management experience on DB projects.
- The Project Manager (PM) has no experience on major river crossing projects.
- The Construction Manager (CM) has no experience on major river crossing or DB projects.
- The Quality Manager (QM) has less than 5 years experience developing Quality Management Systems as per the Request for Proposals (RFP).
- Lead Bridge Design Manager may not have a past working relationship with this team and may not have DB experience.
- Lead Bridge Designer not connected to rest of the team.
- Construction QC/QA from the same firm.
- No QC/QA discussion for steel fabrication.
- Limited discussion regarding authorities of key individuals.
- No demonstration of CSM and EKS experience working together.
- Limited QC/QA of Design efforts to date.

- No specific commitments of Design staff involvement in the Construction phase.
- Lack of safety audits.
- Lack of involvement of subcontractors in the safety program.

AESTHETICS

Strengths

- A strong Visual Quality team.
- The vertical tower elements, by themselves, were viewed favorably.
- Movement of the high point of the bridge to the center was viewed favorably.

Weaknesses

- The Visual Quality Manager, Doug Abere, may be lacking in experience in Bridge Architecture and Landscaping.
- The vertical tower elements may detract 35W drivers from the visual experience of the area. They tend to dominate the corridor.
- The piers are massive and blocky.
- Limited discussion and/or commitments to Landscaping.
- The week long intensive Visual Quality effort was not viewed favorably.
- There was limited opportunity for modifications to the bridge architecture based on feedback from the public.
- This Visual Quality Team and the CSM team had not worked together in the past.

ENHANCEMENTS

Strengths

- Movement of the high point of the bridge to the center of the river span was viewed as a significant strength.
- No pier placed within the 80-foot portal on the north bank.
- An increase in vertical clearance to 16'-4" is provided under University Avenue.

Weaknesses

- There appear to be geometric problems with the ramps at Washington Avenue.
- Ramp profiles were not provided.
- Short vertical curves not favorable.
- The future profile under University Avenue exceeds the vertical grades listed in the RFP.
- The future profile requires removal of the 2nd Street SE bridges.
- The facade on the pier and the pier alignments may increase scour potential.

PUBLIC RELATIONS

Strengths

- Trudy Richter is an experienced Public Information Coordinator (PIC).
- Members of the Richardson-Richter team have Systematic Development of Informed Consent (SDIC) and Context Sensitive Design training.
- A full-time individual for the project office is proposed.
- The Visual Quality Manager has a strong background with the public in a transportation environment.
- The Visual Quality Advisory Team neighborhood meetings.
- The University of Minnesota workshop.
- Groundbreaking, ribbon-cutting, and neighborhood office were noted.
- Two project information boards.
- White noise machines.
- Telescopes.
- Twin Cities Public Television documentary video.
- Strong commitment to Public Relations portrayed at the oral interview.

Weaknesses

- The full-time individual is not employed by CSM.
- The targeted audience appears to be local.
- The Public Relations efforts appear to be similar to other standard transportation projects.
- No discussion of involvement of Construction staff in the Public Relations efforts.
- Nighttime noise discussion was limited.