Midwestern States In-Place Recycling Conference

Bloomington, Minnesota
August 11-13, 2009
How does Industry ensure that the right project is selected and constructed?

What kind of QC/QA is used to ensure the right project?

QC = Contractor    QA = Agency

Role Reversing

QC = Agency    QA = Contractor
Outline

- Project Selection
- Specifications
- Quality Assurance
- Demo Project
Project Selection

Right Method - Right Road - Right Time

- Good Communication and Education
  - Continuing Education
Project Selection

Right Method - Right Road - Right Time

- Do the homework before the test
  Know what you have to work with
Project Selection

“When We Fail to Plan, We Plan to Fail”

- Partnering
  - Soils Engineer
  - Contractor
  - Supplier

- Pre-bid meeting
- Post job meeting
Lessons from the past

It’s not the process that fails.
“i’ll guarantee it”

A few jobs that stand out over the last 10 years.
Past Projects

What did we learn

- Selecting the right process
- Mix designs have evolved from the developmental stages

Let's look at one of these jobs
Cold in Place Recycling
Sacred Ground
Sub grade issues
Not the best Choice
Needed a little help
Not a Silk Purse
Specifications

• Method Specifications
  – Equipment
    » And or approved method
    » Know the limitations
    » No incentive to get better

• Performance Based
  – Mix design
  – End result
  – Accountability

• Ride Specification
  – Incentive goes to the Prime
Midstate’s 1st Train
What did we learn

“Closed loop screening”
What did we learn

Windrow has to be even
Uniform windrows
Lead to positive results
Great Idea – at the time

“No floating screed allowed”
Same Idea – Great Machine
with some limitations
# Evaluations

**Iowa Department of Transportation**

**CONTRACTOR EVALUATION REPORT**

<table>
<thead>
<tr>
<th>County</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Project Engineer</td>
</tr>
<tr>
<td></td>
<td>Contact No.</td>
</tr>
<tr>
<td></td>
<td>Prime Contract</td>
</tr>
<tr>
<td></td>
<td>Subcontract</td>
</tr>
<tr>
<td></td>
<td>Address</td>
</tr>
<tr>
<td></td>
<td>Type of Work Being Performed</td>
</tr>
<tr>
<td></td>
<td>Construction Year</td>
</tr>
</tbody>
</table>

The Contractor Evaluation Report is to be completed on every bridge painting contract and every other contract or subcontract amounting to $20,000.00 or more. For contracts or subcontracts less than $20,000.00 the project engineer has the option of completing or not completing the form.

When the report covers a prime contractor the name is entered in designated space. The space for the subcontractor is left blank. When the report covers a subcontractor both the prime and subcontractor’s names are entered in the designated spaces and the subcontractor’s address is completed.

<table>
<thead>
<tr>
<th>ORGANIZATION MANAGEMENT: 30%</th>
<th>Rating</th>
<th>Point Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Superintendent in charge with authority.</td>
<td>5</td>
<td>0-5</td>
</tr>
<tr>
<td>B. Coordination with suppliers, other contractors and utilities.</td>
<td>5</td>
<td>0-5</td>
</tr>
<tr>
<td>C. Adequate and complete labor force.</td>
<td>5</td>
<td>0-5</td>
</tr>
<tr>
<td>D. Processing paperwork.</td>
<td>5</td>
<td>0-5</td>
</tr>
<tr>
<td>E. Attitude and cooperation.</td>
<td>10</td>
<td>0-10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WORK PERFORMANCE: 45%</th>
<th>Rating</th>
<th>Point Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>F. Completion on schedule.</td>
<td>20</td>
<td>0-20</td>
</tr>
<tr>
<td>G. Compliance of work.</td>
<td>10</td>
<td>0-10</td>
</tr>
<tr>
<td>H. Quality of the finished product.</td>
<td>20</td>
<td>0-20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAFETY PRACTICES: 15%</th>
<th>Rating</th>
<th>Point Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Administration and general project safety.</td>
<td>5</td>
<td>0-5</td>
</tr>
<tr>
<td>J. Signing and traffic control.</td>
<td>10</td>
<td>0-10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EQUIPMENT: 10%</th>
<th>Rating</th>
<th>Point Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>K. Equipment on the project.</td>
<td>10</td>
<td>0-10</td>
</tr>
</tbody>
</table>

Total: 100 | 0-100

Remarks:

*Instructions for completing form on back*

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Contractor sent copy: **July 23, 2009**

Signature of Project Engineer: [Signature]

Date Submitted by Project Engineer: **July 23, 2009**

Signature of District Construction Engineer: [Signature]

Signature of Construction Engineer: [Signature]
Quality Assurance-Midstate

- Manage expectations
- Quality & ride are number one
- Superintendents never see the bid sheet
- Passionate operators
  - They need to believe in what they do
- Adversity- how do you handle your problems
- Looking for ways to improve our equipment & quality/ride
Profiling off String line - with slope
Traveling ski
Traveling ski w/ slope
Equipment – Foamed Asphalt Forward looking

Internal heaters
Equipment for foam

Closed loop system
New Technology - Ozzie
DISCUSSION
Demo Project

- Washington County 71 (Neal Ave)
- 3.96 miles CIR with CSS-1 (Original)
- 3.46 miles CSS-1 North bound lane
- 3.46 miles PG 46-34 South bound lane
- .5 miles fly ash stabilization
  - 8” @ 8% fly ash
- 1.5” Type MV3 Non-wearing course
- 2” Type MV3 Wearing course
Unloading fly ash
Adding water for Hydration