QUALITY CONTROL PLAN OUTLINE

1. Person responsible for quality control:
   Tom Schmidt Cell: 701-555-2222    Paul Jones, Cell: 701-555-1111

2. Person responsible for QC testing:
   Todd Hanson Cell: 701-555-0000    Amy Green Cell: 701-555-0101

3. Organizational Chart.  Page 2

4. Resume of technician qualifications.  Page 3

5. Quality Control Plan details.  Pages 4-6

6. Aggregate Crushing Contractor:  Company X
   Pit location:   33-139-80, State Owned

7. FAA 43

8. Oil Supplier:  Canada Asphalt, PG 64-28
QC Plan – Plant 1
Asphalt Contractor Name
XX-1-094(001)155 PCN-12345

Asphalt Contractor or Sub Name
AGGREGATE & ASPHALT OPERATIONS MANAGER

Name
Plant Superintendent

Name
Project Manager

Name
QC Field Lab Supervisor

Tom Schmidt
Quality Control Lab
Todd Hanson
Amy Green

Name - Ops Manager : Phone No.
Name - Superintendent: Phone No
Name: Project Manager Phone No.
Tom Schmidt: 701-555-2222
Crushing Contractor Cell:
<table>
<thead>
<tr>
<th>Name</th>
<th>ID</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tom Schmidt</td>
<td>MN Tech ID #100</td>
<td>Bit Street II</td>
</tr>
<tr>
<td>Paul Jones</td>
<td>MN Tech ID #101</td>
<td>Bituminous Plant I</td>
</tr>
<tr>
<td>Todd Hanson</td>
<td>MN Tech ID #102</td>
<td>Bituminous Plant I</td>
</tr>
<tr>
<td>Amy Green</td>
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<td></td>
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</tbody>
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|                | ND Tech ID #2100 | Asphalt Mix Controller     |
|                | ND Tech ID #2101 | Aggregate Designer          |
|                | ND Tech ID #2102 | Asphalt Mix Tester          |
|                | ND Tech ID #2103 | Asphalt mix tester          |
QC Plan – Plant 1
Asphalt Contractor Name
XX-1-094(001)155 PCN-12345

Pit Operations:
State Owned Pit, Burleigh County, 33-139-80
Excavation performed by a dozer.
Crushing operations feed by front end loader.
Natural fines will be screened on a 4/16” slotted screen and piled by conveyor system.
Rock will be produced by a jaw feeder to a cone crusher, crushed to at least 5/8” minus, piled by conveyor system.
Crushed material will be screened on a 3/16” slotted screen and piled by conveyor system.
Conveyor height will be monitored by crusher operator to minimize segregation.
Site mining is performed based upon the proposed end result product needed.
Equipment calibration records may be found in the laboratory office.
Gradation samples will be obtained from each stockpile and tested in an on-site laboratory or at the Contractor Facility at a rate of 1 per 1000 tons.
Shale, FAA, Frac Faces, SE, and flat & elongated tests will be sampled and tested on site within the first 5000 ton of aggregate production.
All gradation and aggregate property tests will be faxed to the engineer on a weekly basis.
Split samples of each material will be submitted to the Engineer and Asphalt Contractor design lab for testing of specific gravities and percent water absorption correlation. Upon successful correlation of test results,
The average of the contractor’s results will be used to develop the mix design.
Mixture design will take place at Contractor Testing Lab facility
Plant Operations:
Bowing dryer drum asphalt plant
5 Virgin cold feed bins
1 recycle feeder bin
7510 Ingersoll-Rand paver
460C Caterpillar rubber tire roller
DD130 Ingersoll-Rand steel drum roller
DD158HF Ingersoll-Rand drum roller
BG380B Barber Green pick-up machine
Asphalt storage tank stick will be used for oil cutoff; metered spot checks during HMA production will monitor oil content.
Aggregate stockpiles will be produced in such a location as to facilitate timely filling of product storage bins.
Numbered storage bins will be divided amongst the products being used with the product with the largest percentage being fed from two or more bins to prevent segregation.
The loader operator will feed from across the face of each designated stockpile to ensure uniformity of materials, and will monitor piles for possible changes that may affect the HMA.
Asphalt plant operator and QC technicians will make NDDOT plant site inspectors aware of any bin, proportion changes and test results as soon as they are available.
**Testing & Corrective Action:**

HMA and aggregate testing will be performed at the rates listed in 430.

All samples will be split and identified with the appropriate test number.

All test results will be documented as per 430, with results being communicated to the plant inspector upon their completion.

All control limits and corrective action will be followed as designated in 430

In the event of a failing sample, all parties will be notified and proportion adjustments will be made to correct the issue and bring the material back into specification.

Laboratories testing or potentially testing material for this project are as follows:

1.) Asphalt Contractor on-site testing laboratory
2.) Asphalt Contractor mixture design facility (located in Mandan, ND)
3.) Consulting Testing Laboratory (Bismarck or Fargo)
4.) Consulting Testing Company (onsite)

Equipment calibration records are available in each laboratory office.

Coordination between Asphalt contractor staff and NDDOT representatives will establish a pattern of monitoring that meets the needs of both parties.
Asphalt Plant Schematic

QC Plan – Plant 1
Asphalt Contractor Name
XX-1-094(001)155 PCN-12345

Diagram of Asphalt Plant Set-Up:

- Bag House
- Drum
- AC Storage Tank #1
- AC Storage Tank #2
- QC Laboratory
- QA Laboratory
- Control House
- Silo
- Rap Bin
- Virgin Cold Feed Bins

Typical Plant Set-Up
Asphalt Contractor
Asphalt Plant #1
Aggregate Stockpile Locations

QC Plan – Plant 1
Asphalt Contractor Name
XX-1-094(001)155 PCN-12345

1) 5/8 Rock
2) Natural Fines
3) Crushed Dust
4) Washed NF