

Asphalt Contractor Name

Job# 1

Burleigh County

XX-1-094(001)155 PCN-12345

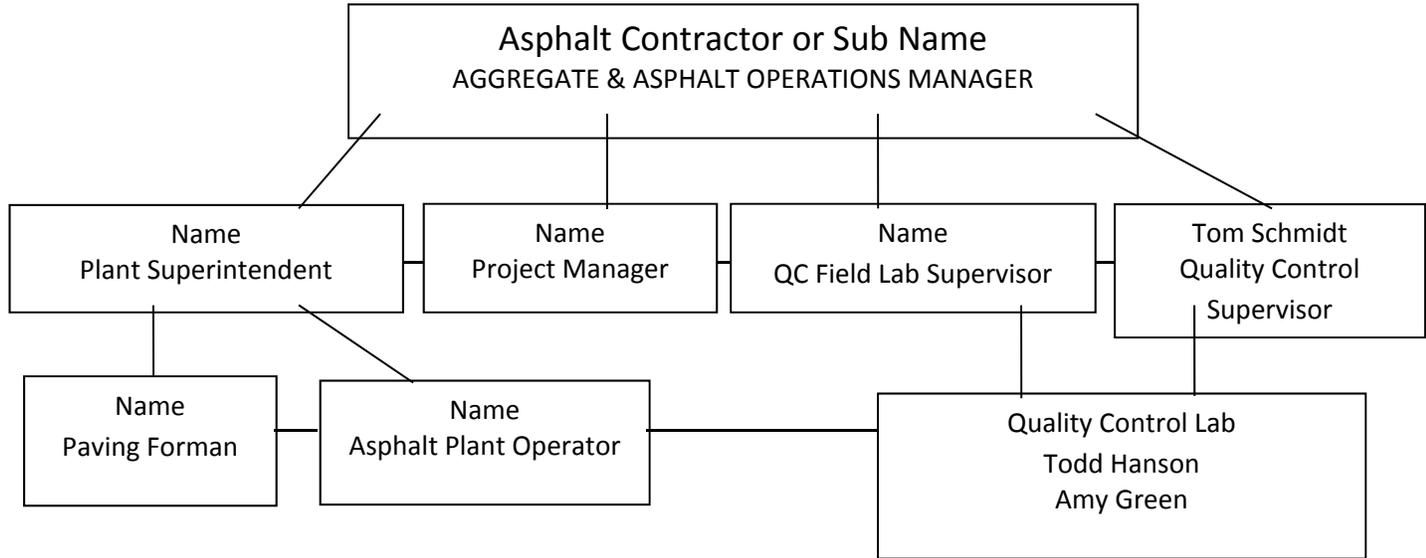
Engineer: DOT Engineer Name

June 1, 2015

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
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Name - Ops Manager : Phone No.
Name – Superintendent: Phone No
Name: Project Manager Phone No.
Tom Schmidt: 701-555-2222
Crushing Contractor Cell:

QC Field Lab Supervisor: Phone
Asphalt Plant: Phone
Quality Control Lab: Phone
Paul Jones: 701-555-1111

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Tom Schmidt – MN Tech ID #100
Bit Street II

ND Tech ID #2100
Asphalt Mix Controller
Aggregate Designer

Paul Jones – MN Tech ID #101
Bituminous Plant I

ND Tech ID #2101
Aggregate/Mix Tester

Todd Hanson – MN Tech ID #102
Bituminous Plant I

ND Tech ID #2102
Asphalt Mix Tester

Amy Green-

ND Tech ID #2103
Asphalt mix tester

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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

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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.

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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.

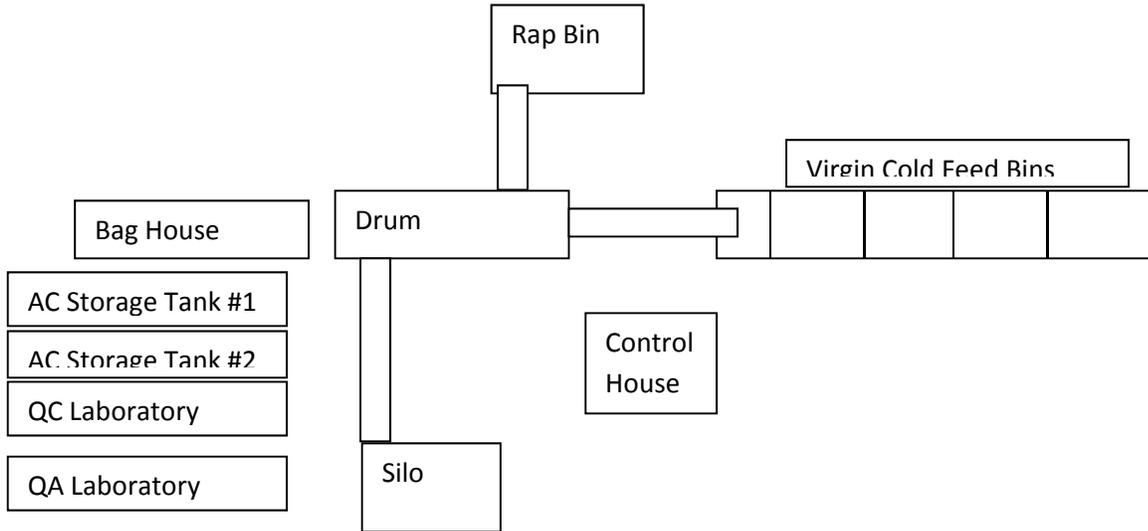
Coordination between Asphalt contractor staff and NDDOT representatives will establish a pattern of monitoring that meets the needs of both parties.

Asphalt Plant Schematic

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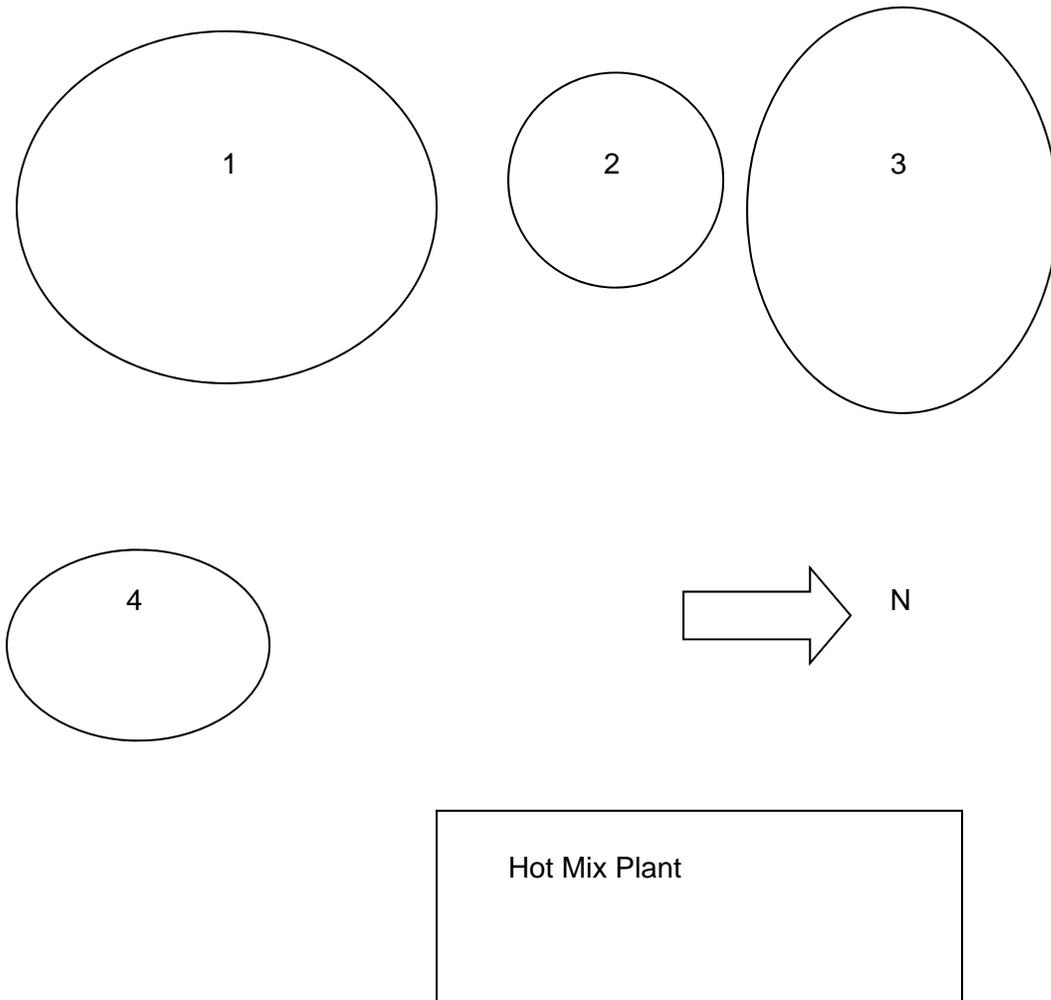
Typical Plant Set-Up
Asphalt Contractor
Asphalt Plant #1

Aggregate Stockpile Locations

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