OGFC MIX DESIGN REPORT

1.0 MATERIAL PROPERTIES

A. Proposed Aggregate Proportions (by weight)

B. Proposed Job-Mix Gradation (percent passing)

Sieve Size	Specification limit	Aggregate Sources ____	____	____	Job-Mix Formula
1/2"	100	____	____	____	_____
3/8"	95 - 100	____	____	____	_____
#4	30 - 50	____	____	____	_____
#8	5 - 15	____	____	____	_____
#16		____	____	____	_____
#200	2 - 5	____	____	____	_____

C. Specific Gravity - Unit Weight

COARSE AGGREGATE	Aggregate Sources			JMF
(Retained No. 8 Sieve) Bulk Sp. Gr. (SG_b)	_____	_____	_____	_____
Bulk Solid Unit Weight (U_r) where U_r = $62.4(SG_b)$				___ pcf
FINE AGGREGATE				
(Passing No. 8 Sieve) Bulk Sp. Gr. (Sg_b)	_____	_____	_____	_____
Bulk Solid Unit Weight (U_r) where U_r = $62.4(SG_b)$				___ pcf
PREDOMINANT AGGREGATE				
(Passing 3/8" - Retained No. 4 Apparent Sp. Gr. (Sg_a)				_____
ASPHALT BINDER				
Specific Gravity @ 77.0° F.				_____
Unit Weight (U_a)				_____

2.0 ASPHALT CONTENT

Percent Oil Retained POR = _____

Surface Capacity K_c = _____

Asphalt Content AC_{jmf} = __% wt aggr

3.0 VOID CAPAPCITY

A. Void Capacity of Coarse Aggregate

Vibrated Unit Weight X = _____ pcf

Voids Coarse Aggregate VCA = _____ %

B. Optimum Fine Aggregate Content

Where:

X = _____pcf VCA = _____ %

Ur = _____pcf V = 15 %

Ua = _____pcf AC_{jmf} = _____ %

Specs. Limit 5 < Y < 15 Y = _____

4.0 OPTIMUM MIXING TEMPERATURE

Asphalt Grade _____

Viscosity (cSt)	Temperature(°F)	Observed Drainage
600	_____	_____
700	_____	_____
800	_____	_____
900	_____	_____
1000	_____	_____

Target Mixing Temperature _____°F

5.0 RESISTANCE TO EFFECTS OF WATER
(AASHTO T 165 & T 167, 2000 psi)

Air Dry Strength = _____ psi

Wet Strength = _____ psi (4 Days @ 120° F)

Retained Strength = _____ % (50% Minimum)

6.0 DESIGN SUMMARY

Aggregate Proportions (by Weight)

JMF Gradation (percent passing)

Sieve Size	JMF
1/2"	_____
3/8"	_____
No. 4	_____
No. 8	_____
No. 16	_____
No. 200	_____

Asphalt Grade _____

Asphalt Additives _____

Asphalt Content = _____% wt aggr

= _____% wt mix

Mixing Temperature Range _____ to _____ °F

REMARKS:

Mix Design Recommendation

Accepted ___ Rejected ___