

Mix design check list: Performance Based PCS/PCD 2021 Special Provision

Concrete plant: \_\_\_\_\_

Mix design label: \_\_\_\_\_

Date created: \_\_\_\_\_

Disclaimer: The use of this sheet does not guarantee approval of submitted mix designs.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Class of Concrete -----	___	___	
2. Is mix:			
a) Conventional -----	___		
b) SCC -----	___		
3. State if aggregate weights are:			
a) Dry -----	___		
b) SSD -----	___		
4. Aggregate names and sources types, specific gravities, absorptions -	___	___	
a. Approved Aggregate Sources -----	___	___	
5. Cementitious content names and sources-----	___	___	
6. Admixture names, sources, dosage -----	___	___	
7. Volumetric quantities of each material -----	___	___	
8. 56 day design compressive strength -----	___	___	
9. Air content, lower limit (from Freeze Thaw Testing/hardened air) ----	___	___	
10. SCC, upper/lower spread ranges -----	___	___	___
11. Maximum W/CM ratio -----	___	___	
12. Design unit weight -----	___	___	
13. Test batch to include:			
a. Batch size (minimum 3 cy) -----	___	___	
b. Batch ticket -----	___	___	
c. Air Content (AASHTO T 152) -----	___	___	
d. Temperature (ASTM C 1064) -----	___	___	
e. Unit weight (AASHTO T 121) -----	___	___	
14. Free shrinkage (AASHTO T 160)* -----	___	___	
15. Durability (AASHTO T161 or ASTM C 457)* -----	___	___	
16. Test mix 7, 14, 28, and 56 day strength -----	___	___	
17. Test mix Surface resistivity 56 day* -----	___	___	
18. SCC, J ring, VSI tests submitted for upper/lower spread ranges -----	___	___	___
19. ASR test results (AASHTO T 303, ASTM C 1567) -Fine Aggregate* ----	___	___	
20. ASR test results (AASHTO T 303, ASTM C 1567) -Coarse Aggregate* --	___	___	

Note \*: Test shall be done at an accredited laboratory.

Notes: