Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/29/13

VOLTAGE DROP CALCULATIONS

USM - Masterton Hall
Portland, ME

Circuit 1

Amperage	1.56
Length of Run	289
Voltage Drop	**9.87%**
VDC Applied	**18.03**

Circuit 2

Amperage	0.92
Length of Run	150
Voltage Drop	**3.02%**
VDC Applied	**19.68**

Circuit 3

Amperage	1.06
Length of Run	240
Voltage Drop	**5.57%**
VDC Applied	**19.06**

Circuit 4

Amperage	0.518
Length of Run	110
Voltage Drop	**1.25%**
VDC Applied	**20.1**

Circuit 5

Amperage	1.48
Length of Run	336
Voltage Drop	**10.89%**
VDC Applied	**17.79**

Circuit 6

Amperage	1.31
Length of Run	283
Voltage Drop	**8.12%**
VDC Applied	**18.45**

Voltage Drop Parameters:
16 VDC = Minimum Power to any Appliance
4.4 VDC = Maximum Permissible Voltage Drop in Wiring System
20.4 VDC = Reduced Battery Potential at End of Life