Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/29/13

VOLTAGE DROP CALCULATIONS

USM - Luther Bonney Hall
Portland, ME

Circuit 1

Amperage	0.808
Length of Run	158
Voltage Drop	**2.80%**
VDC Applied	**19.73**

Circuit 2

Amperage	1.95
Length of Run	360
Voltage Drop	**15.37%**
VDC Applied	**16.71**

Circuit 3

Amperage	2.4
Length of Run	325
Voltage Drop	**17.08%**
VDC Applied	**16.3**

Circuit 4

Amperage	2.32
Length of Run	354
Voltage Drop	**17.98%**
VDC Applied	**16.08**

Circuit 5

Amperage	0.714
Length of Run	148
Voltage Drop	**2.31%**
VDC Applied	**19.85**

Circuit 6

Amperage	1.56
Length of Run	201
Voltage Drop	**6.87%**
VDC Applied	**18.75**

Circuit 7

Amperage	1.15
Length of Run	187
Voltage Drop	**4.71%**
VDC Applied	**19.27**

Circuit 8

Amperage	1.086
Length of Run	201
Voltage Drop	**4.78%**
VDC Applied	**19.25**

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