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PUBLIC WORKS & GOVERNMENT SERVICES

100-167 LOMBARD AVENUE
WINNIPEG, MB R3B 0T6

Project: CORRECTIONAL SERVICE CANADA
STONY MOUNTAIN INSTITUTION
STONY MOUNTAIN, MB

UNIT 6
MECHANICAL UPGRADE

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Drawing title: VIEW LOCATIONS L TO P - CONDUIT ROUTE DETAILS

Project no./No. du projet: R.043722.003
Drawing no./No. du dessin: E111
Revision no.: 0

OF 13

Location L

1. Route the conduit from Location K 90 degrees into the tunnel area below the dome. Transition the conduit from being mounted on the existing vertical channel to being mounted on new channel installed on the concrete wall. See item 2 for details.

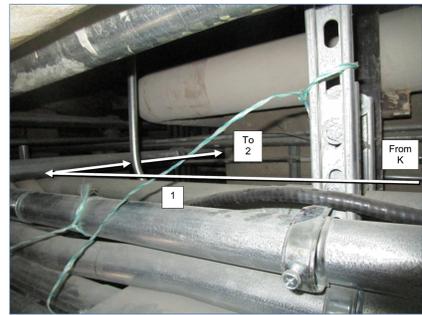


Figure 12 - Location L, bend around corner and into tunnel beneath dome (View 1)

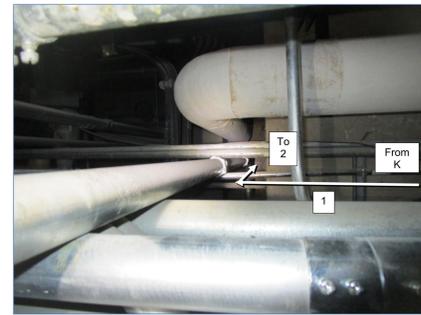


Figure 13 - Location L, bend around corner and into tunnel beneath dome (View 2)

2. Transition the conduit from being mounted on the existing vertical channel to being mounted on new channel installed on the concrete wall. Install offsets behind the new channel to allow the conduit to cross existing 25 mm (1 inch) conduits mounted directly on the wall. Mount the conduit at 1346 mm (53 inches) above floor level.



Figure 14 - Location L, conduit crossing wall in tunnel under dome (View 3)

Location M

1. Route the conduit from Location L 90 degrees and then above existing junction box JB-G at 1346 mm (53 inches) above floor level. Mount the conduit to existing vertical channels as the conduit travels toward Location N.



Figure 15 - Location M, conduit crossing above existing junction box JB-G (View 1)



Figure 16 - Location M, conduit passing over existing junction box JB-G (View 2)

Location N

1. Route the conduit from Location M 90 degrees and follow alongside the three existing 50 mm conduits.

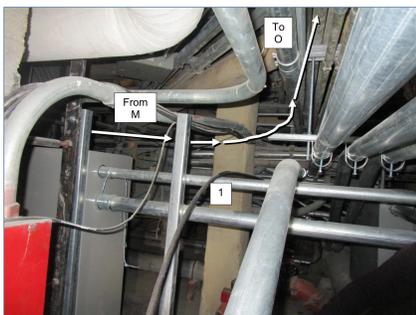


Figure 17 - Location N, conduit routed 90 degrees from above existing junction box JB-G to alongside existing conduits

Location O

1. Route the conduit from Location N alongside the three existing 50 mm conduits. Mount the conduit to the existing channels suspended from the tunnel ceiling. The conduit will drop alongside the existing conduits as it travels down the tunnel.

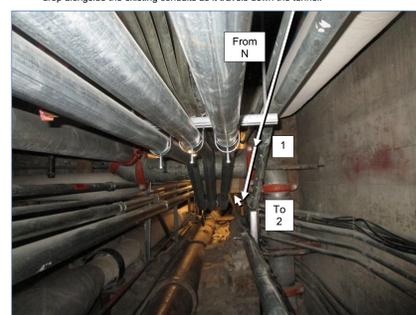


Figure 18 - Location O, conduit follows existing 50 mm conduits

2. Continue to route the new conduit alongside the existing conduits and continue to mount the conduit to the suspended channels. As the conduit continues down the tunnel, it will pass an insulated pipe. Adjust the position of the existing conduit closest to the insulated pipe to create room to install the new conduit. Install a new junction box (JB-N6) between Location O and Location P as shown on the drawings.

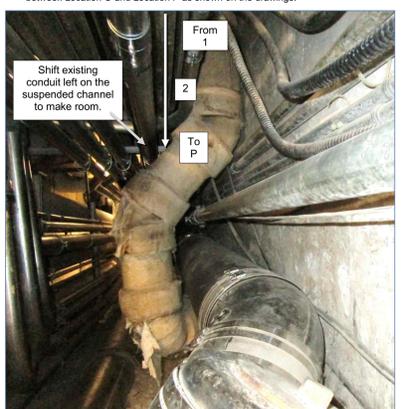


Figure 19 - Location O, conduit following existing 50 mm conduits

Location P

1. Route the conduit from Location O over the three existing 50 mm conduits to the opposite side of the suspended channel as the existing conduits begin to slope downward. After the new conduit has crossed the existing conduits, continue to route the conduit alongside the three existing conduits.

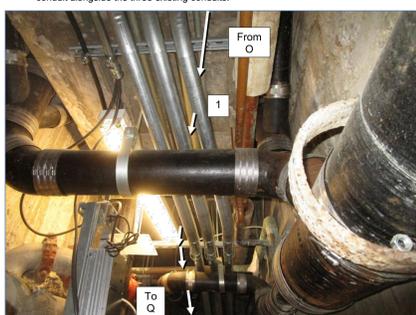


Figure 20 - Location P, conduit crosses over existing conduits

Location Q

1. Continue to route the conduit from Location P near the ceiling when the three existing conduits drop lower. Install the conduit over the black 305 mm (12 inch) pipe that passes through the tunnel.



Figure 21 - Location Q, conduit remains high, near tunnel ceiling