

**CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING**

RICHARD H. MILLER, P.E., L.S. 9886
CITY ENGINEER

DRIVE: K:\ENGINEER\DWG
FILE: CITYSTD\DETAILS\2009 DETAILS
DATE: DEC. 1, 2009
DRAWING NO.: **NH-20C**

TYPE OF ROAD CUT	WIDTH OF TRENCH	APPLICATION CRITERIA FOR COLLECTOR STREETS
SINGLE HORIZONTAL ROAD CUT	< 36 INCHES	A) TEMPORARY PATCH OVER EXCAVATION * INSTALL 21 INCHES OF PROCESSED GRAVEL 3/4 INCH * APPLY 2 INCHES OF CLASS II BITUMINOUS (HOT) B) PERMANENT PATCH * SAW CUT ALL EDGES MAINTAINING A MINIMUM OF 12 INCHES BEYOND TRENCH EXCAVATION * REMOVE TEMPORARY PATCH INCLUDING 5 INCHES OF PRE-LAID PROCESS SO THERE IS A TOTAL OF 9 INCHES EXCAVATED * APPLY 6" OF CLASS IV BITUMINOUS CONCRETE THEN TWO LIFTS OF CLASS II BITUMINOUS CONCRETE AT 1 1/2 INCH LAYERS. TACK COAT ALL EDGES * HOT SEAL SURFACE JOINTS WITH ASPHALT RUBBER SEALANT
SINGLE HORIZONTAL ROAD CUT	> 36 INCHES	A) TEMPORARY PATCH OVER EXCAVATION (SAME AS ABOVE) B) PERMANENT PATCH * SAME OF ABOVE OR * REMOVE TEMPORARY PATCH INCLUDING 5 INCHES OF PRE-LAID PROCESS SO THERE IS A TOTAL OF 9 INCHES EXCAVATED * MILL 2 INCHES OF DEPT 18 INCHES BEYOND TEMPORARY PATCH AREA * APPLY 7" OF CLASS IV BITUMINOUS CONCRETE IN EXISTING TRENCH * PAVE ENTIRE AREA WITH 2" OF CLASS II BITUMINOUS CONCRETE, TACK COAT EDGES.
PARALLEL CUTS	< 36 INCHES	A) TEMPORARY PATCH OVER EXCAVATION (SAME AS ABOVE) B) PERMANENT PATCH * SAW CUT ALL EDGES MAINTAINING A MINIMUM OF 12 INCHES BEYOND TRENCH EXCAVATION * REMOVE TEMPORARY PATCH INCLUDING 5 INCHES OF PRE-LAID PROCESS SO THERE IS A TOTAL OF 9 INCHES EXCAVATED * APPLY 7" OF CLASS IV BITUMINOUS CONCRETE THEN 2" OF CLASS II BITUMINOUS CONCRETE. TACK COAT ALL EDGES.
PARALLEL CUTS	> 36 INCHES	A) TEMPORARY PATCH OVER EXCAVATION (SAME AS ABOVE) B) PERMANENT PATCH * SAW CUT ALL EDGES MAINTAINING A MINIMUM OF 12 INCHES BEYOND TRENCH EXCAVATION * REMOVE TEMPORARY PATCH INCLUDING 5 INCHES OF PRE-LAID PROCESS SO THERE IS A TOTAL OF 9 INCHES EXCAVATED * APPLY 7" OF CLASS IV BITUMINOUS CONCRETE IN EXISTING TRENCH * MILL 2 INCHES OF DEPTH OVER A MINIMUM OF AN 8 FOOT CORRIDOR * PAVE ENTIRE AREA WITH 2 INCHES CLASS II BITUMINOUS CONCRETE. TACK COAT SURFACES.
COMBINATION OF HORIZONTAL AND PARALLEL CUTS	WHERE BOTH TYPE OF CUTS EXIST AND HORIZONTAL CUTS OCCUR LESS THAN 75 FEET IN INTERVALS THE ROAD IS CONSIDERED COMPROMISED AND ROAD LIFE SEVERELY LIMITED	A) TEMPORARY PATCH OVER EXCAVATION (SAME AS ABOVE) B) PERMANENT PATCH * SAME AS PARALLEL CUTS > 36 INCHES ACCEPT * MILL 2" OF DEPTH FOR THE ENTIRE LANE WITH OF ROADWAY TO CURB LINE. * PAVE ENTIRE AREA WITH 2 INCHES CLASS II BITUMINOUS CONCRETE. TACK COAT SURFACES.

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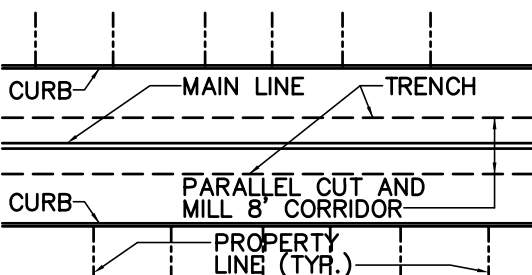
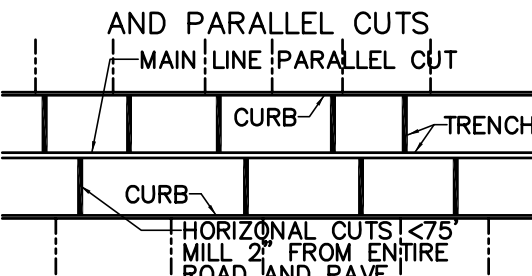
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TYPE OF ROAD CUT	WIDTH OF TRENCH	APPLICATION CRITERIA FOR LOCAL ROADS
SPECIAL SITUATIONS	IN SITUATIONS WHERE ROADS ARE TO BE RECONSTRUCTED OR REPAIRED BY THE CITY	A) TEMPORARY PATCH OVER EXCAVATION (SAME AS ABOVE) B) PERMANENT PATCH * THE WORK SHALL BE COORDINATED WITH THE CITY ENGINEER AND DIRECTOR OF PUBLIC WORKS BASED ON THE TYPE OF WORK TO BE PERFORMED.

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TYPE OF ROAD CUT	WIDTH OF TRENCH	APPLICATION CRITERIA FOR LOCAL ROADS
SINGLE HORIZONTAL ROAD CUT	< 36 INCHES	A) TEMPORARY PATCH OVER EXCAVATION * INSTALL 10 INCHES OF PROCESSED GRAVEL * APPLY 2 INCHES OF CLASS II BITUMINOUS (HOT) (2 LIFTS) B) PERMANENT PATCH * SAW CUT ALL EDGES MAINTAINING A MINIMUM OF 12 INCHES BEYOND TRENCH EXCAVATION * REMOVE TEMPORARY PATCH INCLUDING 2 INCHES OF PRE-LAID PROCESS SO THERE IS A TOTAL OF 4 INCHES EXCAVATED * APPLY TWO LAYERS OF ASPHALT AT 2 INCH DEPTH INTERVALS USING CLASS II MATERIAL. TACK COAT ALL EDGES. * HOT SEAL SURFACE JOINTS WITH ASPHALT RUBBER SEALANT
SINGLE HORIZONTAL ROAD CUT	> 36 INCHES	A) TEMPORARY PATCH OVER EXCAVATION (SAME AS ABOVE) B) PERMANENT PATCH * SAME OF ABOVE * IN LIEU OF MILL 2 INCHES OF DEPT 18 INCHES BEYOND TEMPORARY PATCH AREA TACK COAT AND PAVE IN IN TWO LIFTS 2 INCHES IN DEPTH WITH CLASS II . THIS ALTERNATIVE IS AVAILABLE ONLY IF EXISTING PAVEMENT IS 4 INCHES OR GREATER. * HOT SEAL SURFACE JOINTS WITH ASPHALT RUBBER SEALANT
PARALLEL CUTS	< 36 INCHES	A) TEMPORARY PATCH OVER EXCAVATION (SAME AS ABOVE) B) PERMANENT PATCH * SAW CUT ALL EDGES MAINTAINING A MINIMUM OF 12 INCHES BEYOND TRENCH EXCAVATION * REMOVE TEMPORARY PATCH INCLUDING 2 INCHES OF PRE-LAID PROCESS SO THERE IS A TOTAL OF 4 INCHES EXCAVATED * APPLY TWO LAYERS OF ASPHALT AT 2 INCH DEPTH INTERVALS USING CLASS II MATERIAL. TACK COAT ALL EDGES * HOT SEAL SURFACE JOINTS WITH ASPHALT RUBBER SEALANT
PARALLEL CUTS 	> 36 INCHES	A) TEMPORARY PATCH OVER EXCAVATION (SAME AS ABOVE) B) PERMANENT PATCH * SAW CUT ALL EDGES MAINTAINING A MINIMUM OF 12 INCHES BEYOND TRENCH EXCAVATION * REMOVE TEMPORARY PATCH INCLUDING 2 INCHES OF PRE-LAID PROCESS SO THERE IS A TOTAL OF 4 INCHES EXCAVATED * MILL 2 INCHES OVER AN 8 FOOT CORRIDOR TACK COAT AND PAVE IN TWO LIFTS 2 INCHES IN DEPTH WITH CLASS II . THE FIRST COARSE IS IN THE TRENCH AND THE SECOND IS OVER THE ENTIRE 8 FOOT SWATH. TACK COAT ALL SURFACES.
COMBINATION OF HORIZONTAL AND PARALLEL CUTS 	WHERE BOTH TYPE OF CUTS EXIST AND HORIZONTAL CUTS OCCUR LESS THAN 75 FEET IN INTERVALS THE ENTIRE ROAD IS CONSIDERED COMPROMISED AND ROAD LIFE SEVERELY LIMITED	A) TEMPORARY PATCH OVER EXCAVATION (SAME AS ABOVE) B) PERMANENT PATCH * SAW CUT ALL EDGES MAINTAINING A MINIMUM OF 12 INCHES BEYOND TRENCH EXCAVATION * REMOVE TEMPORARY PATCH INCLUDING 2 INCHES OF PRE-LAID PROCESS SO THERE IS A TOTAL OF 4 INCHES EXCAVATED * MILL 2 INCHES OVER THE ENTIRE COMPROMISED AREA, TACK COAT AND PAVE IN TWO LIFTS 2 INCHES IN DEPTH WITH CLASS II . THE FIRST COARSE IS IN THE TRENCH AND THE SECOND IS OVER THE ENTIRE COMPROMISED AREA. TACK COAT ALL SURFACES.

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