

PAVEMENT MORATORIUM

THREE (3) YEARS MORATORIUM FOR NEW PAVEMENT AND ONE (1) YEAR FOR SLURRY SEAL.

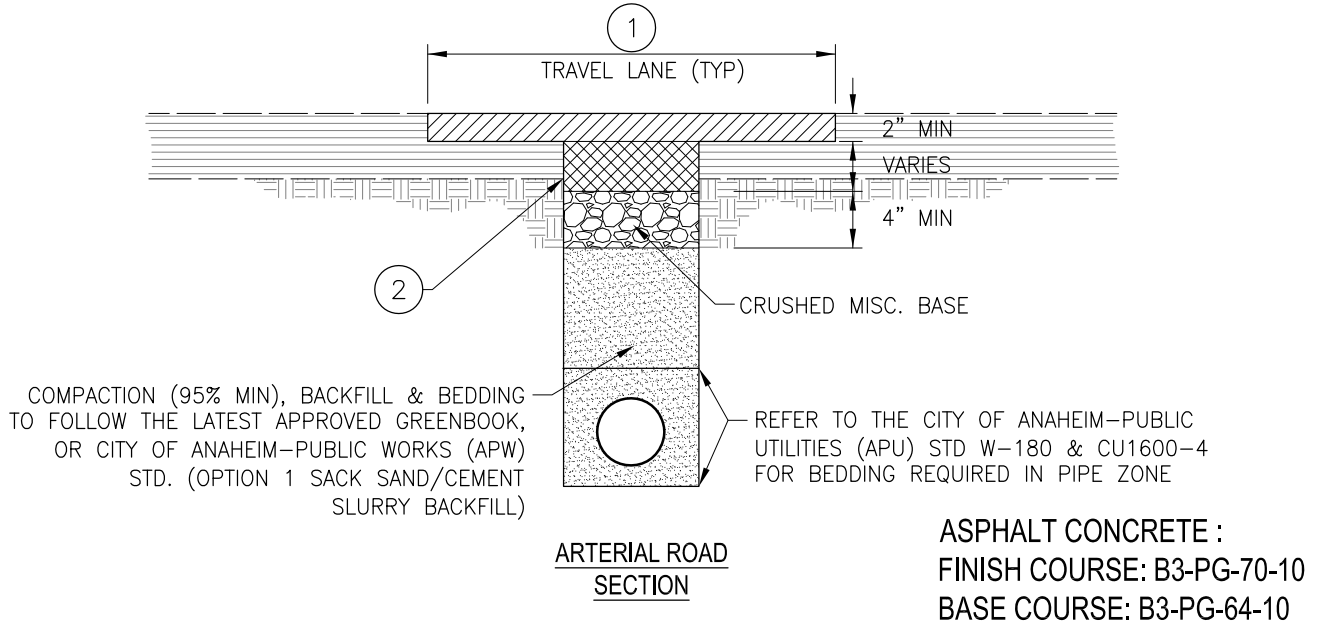
MORATORIUM PERIOD BEGINS AFTER NOTICE OF COMPLETION (NOC) HAS BEEN FILED.

FOR NOC DATES REFER TO PUBLIC WORKS WEB SITE.

REPAIRS DESCRIBED IN THIS STANDARD ARE FOR STREETS NOT UNDER MORATORIUM.

ANY TRENCHING IN STREETS UNDER MORATORIUM REQUIRES PRIOR APPROVAL FROM THE CITY ENGINEER.
IF APPROVED, EXTENSIVE PAVEMENT RESTORATION AND ITS LIMITS SHALL BE DETERMINED BY THE CITY ENGINEER

ASPHALT CONCRETE (AC) SECTION



NOTES:

- 1 a. GRIND A MINIMUM 2" FOR FULL WIDTH OF ANY TRAVEL LANE IMPACTED BY THE TRENCH.
IF ANY TRAVEL LANE IMPACTED BY THE TRENCH IS ADJACENT TO EITHER A BIKE LANE OR A PARKING LANE, THE PAVEMENT SHALL BE GRIND AND RESURFACED WITH 2" OF AC TO THE EDGE OF THE GUTTER (SEE CASE I, II OR V ON SHEET 2 OF 8).
- b. FOR TRANSVERSE (PERPENDICULAR) TRENCHES, GRINDING AND RESURFACING WITH 2" OF AC SHALL EXTEND 15' BEYOND LIMITS OF EACH SIDE OF THE TRENCH (SEE CASE III, SHEET 2 OF 8).
- c. SIGNIFICANT PAVED CUTS DUE TO UTILITY LATERALS REQUIRE GRINDING AND RESURFACING WITH 2" OF AC (SEE CASE IV, SHEET 2 OF 8).
- 2 REPLACEMENT OF ASPHALT CONCRETE SECTION OVER THE TRENCH SHALL BE A MINIMUM OF 1" THICKER THAN EXISTING OR MATCH EXISTING THICKNESS WHEN 16" OR MORE.

GENERAL NOTES FOR ALL TRENCH TYPES:

1. THE CITY CAN REQUIRE FULL DEPTH AC SECTION REPLACEMENT DEPENDING ON STREET CONDITIONS.
2. ALL DAMAGED OR REMOVED STRIPING, PAVEMENT LEGENDS, MARKERS, AND TRAFFIC SIGNAL LOOPS SHALL BE REPLACED.
3. MANHOLES OR VALVES IMPACTED BY THE AC IMPROVEMENTS SHALL BE RAISED AND LOWERED PER GREENBOOK.
4. CONSTRUCT NEW CRUSHED MISC. BASE MAX 2" PARTICLE SIZE, TO A MIN. OF 4" THICK UP TO EXISTING ASPHALT BASE SECTION THICKNESS, WHICHEVER IS GREATER. COMPACT TO 95% OF RELATIVE DENSITY. NO CRUSHED MISC. BASE REQUIRED IF 1-SACK SAND/CEMENT SLURRY BACKFILL IS USED.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREENBOOK), LATEST APPROVED EDITION, INCLUDING SUPPLEMENTS, AND THE CITY OF ANAHEIM "SPECIAL PROVISIONS" AND "SUPPLEMENTS AND MODIFICATIONS" AS APPROVED BY CITY ENGINEER.
6. CONTRACTOR SHALL PROVIDE COMPACTION TEST RESULTS CERTIFIED BY A SOIL ENGINEER.

TRENCH REPLACEMENT ARTERIAL STREETS



REVISIONS			
No.	DATE	No.	DATE
A	02/07	B	06/07
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STANDARD DETAIL



132

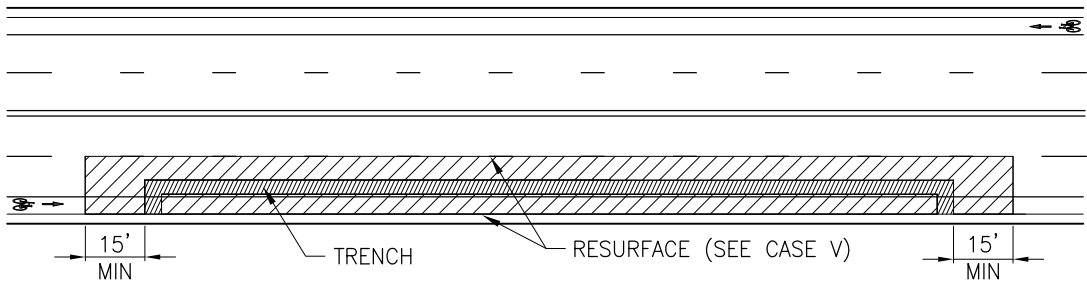
SHEET 1 OF 8

DEPARTMENT OF PUBLIC WORKS

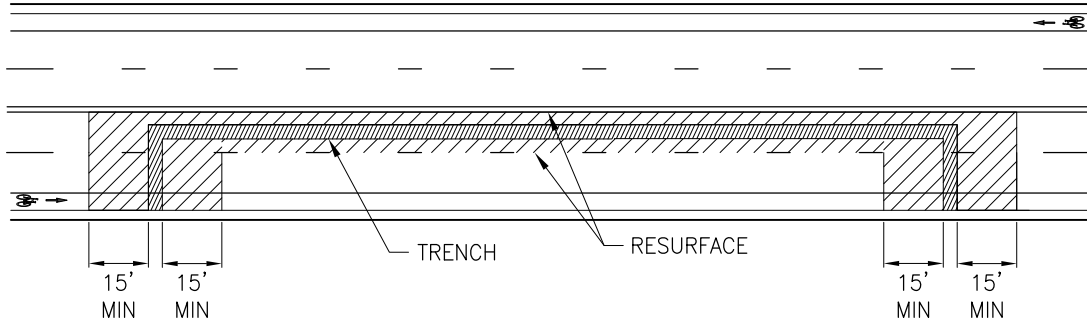
ARTERIAL STREETS

LEGEND:

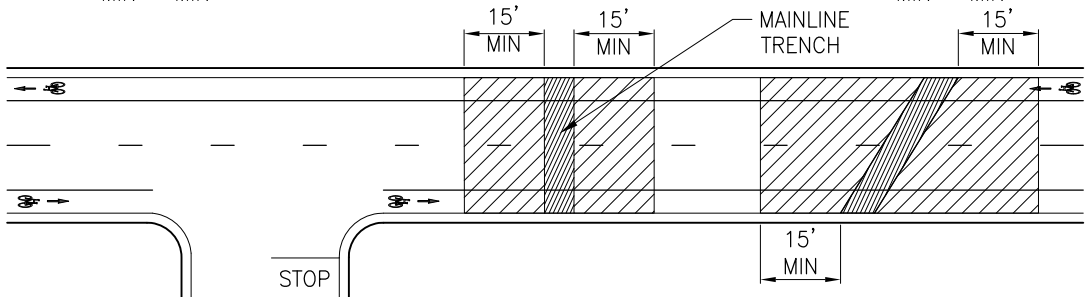
-  TRENCH LIMITS (T-CUT).
-  GRIND 2" AND REPLACE WITH 2" AC.



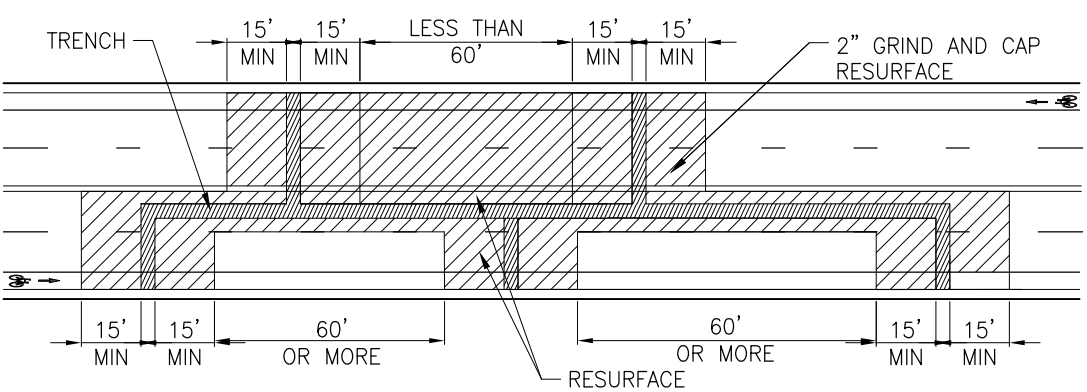
CASE I
LONGITUDINAL
(PARALLEL)
TRENCH CUT
OUTSIDE LANES



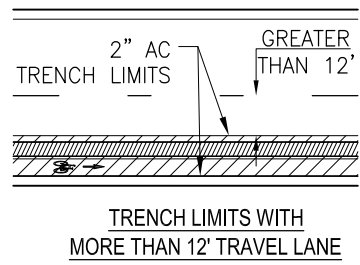
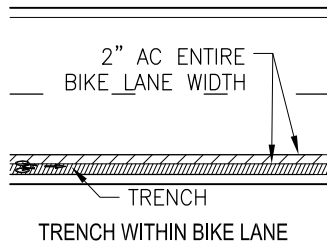
CASE II
LONGITUDINAL
(PARALLEL)
TRENCH CUT
INSIDE LANE



CASE III
TRANSVERSE
(PERPENDICULAR)
TRENCH CUT



CASE IV
SIGNIFICANT
TRENCH CUTS



CASE V
TRENCH CUT
NEAR GUTTER

TRENCH REPLACEMENT ARTERIAL STREETS



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SHEET 2 OF 8

DEPARTMENT OF PUBLIC WORKS

PAVEMENT MORATORIUM

THREE (3) YEARS MORATORIUM FOR NEW PAVEMENT AND ONE (1) YEAR FOR SLURRY SEAL.

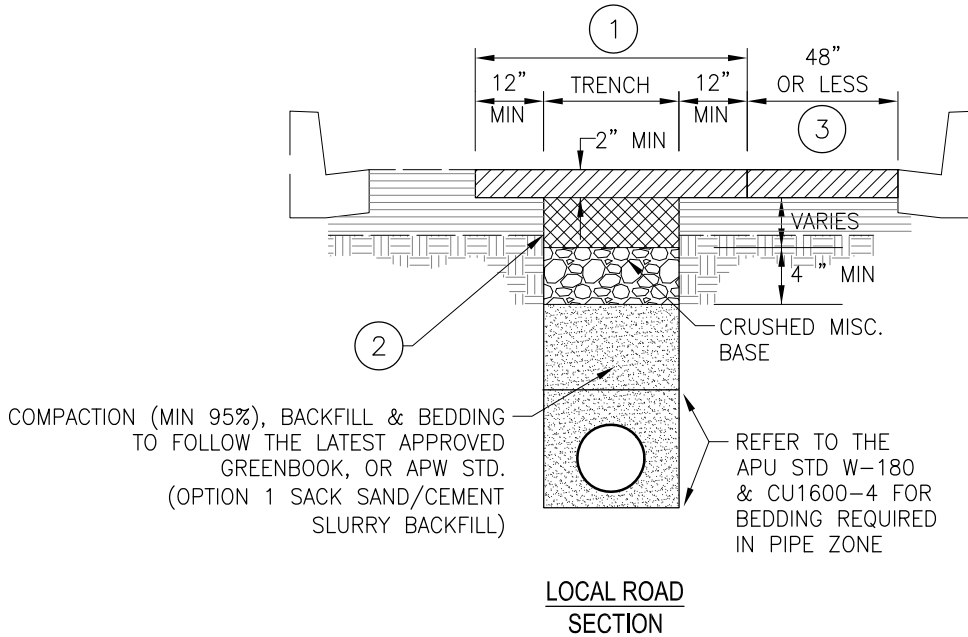
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ASPHALT CONCRETE (AC) SECTION



**ASPHALT CONCRETE :
FINISH COURSE: B3-PG-70-10
BASE COURSE: B3-PG-64-10**

NOTES:

- ① GRIND A MINIMUM 2" FOR WIDTH OF TRENCH AND MINIMUM 12" ON EACH SIDE OF TRENCH (T-CUT).
- ② REPLACEMENT OF ASPHALT CONCRETE SECTION OVER THE TRENCH SHALL BE A MINIMUM OF 1" THICKER THAN EXISTING.
- ③ IF THE TRENCH IS ADJACENT TO CURB OR CURB AND GUTTER (48" OR LESS), THE EXISTING PAVEMENT SHALL BE GRIND AND RESURFACED WITH 2" OF AC TO THE EDGE OF THE GUTTER/CURB.

GENERAL NOTES FOR ALL TRENCH TYPES:

1. THE CITY CAN REQUIRE FULL DEPTH AC SECTION REPLACEMENT DEPENDING ON STREET CONDITIONS.
2. ALL DAMAGED OR REMOVED STRIPING, PAVEMENT LEGENDS, MARKERS, AND TRAFFIC SIGNAL LOOPS SHALL BE REPLACED.
3. MANHOLES OR VALVES IMPACTED BY THE AC IMPROVEMENTS SHALL BE RAISED AND LOWERED PER GREENBOOK.
4. PARALLEL TRENCHES MAY REQUIRE 2" FULL WIDTH GRIND AND CAP.
5. CONSTRUCT NEW CRUSHED MISC. BASE MAX 2" PARTICLE SIZE, TO A MIN. OF 4" THICK UP TO EXISTING ASPHALT BASE SECTION THICKNESS, WHICHEVER IS GREATER. COMPACT TO 95% OF RELATIVE DENSITY. NO CRUSHED MISC. BASE REQUIRED IF 1-SACK SAND/CEMENT SLURRY BACKFILL IS USED.
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREENBOOK), LATEST APPROVED EDITION, INCLUDING SUPPLEMENTS, AND THE CITY OF ANAHEIM "SPECIAL PROVISIONS" AND "SUPPLEMENTS AND MODIFICATIONS" AS APPROVED BY CITY ENGINEER.
7. CONTRACTOR SHALL PROVIDE THE FIELD INSPECTOR COMPACTION TEST RESULTS CERTIFIED BY A SOIL ENGINEER.

TRENCH REPLACEMENT LOCAL STREETS - LESS THAN 650'



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DEPARTMENT OF PUBLIC WORKS

PAVEMENT MORATORIUM

THREE (3) YEARS MORATORIUM FOR NEW PAVEMENT AND ONE (1) YEAR FOR SLURRY SEAL.

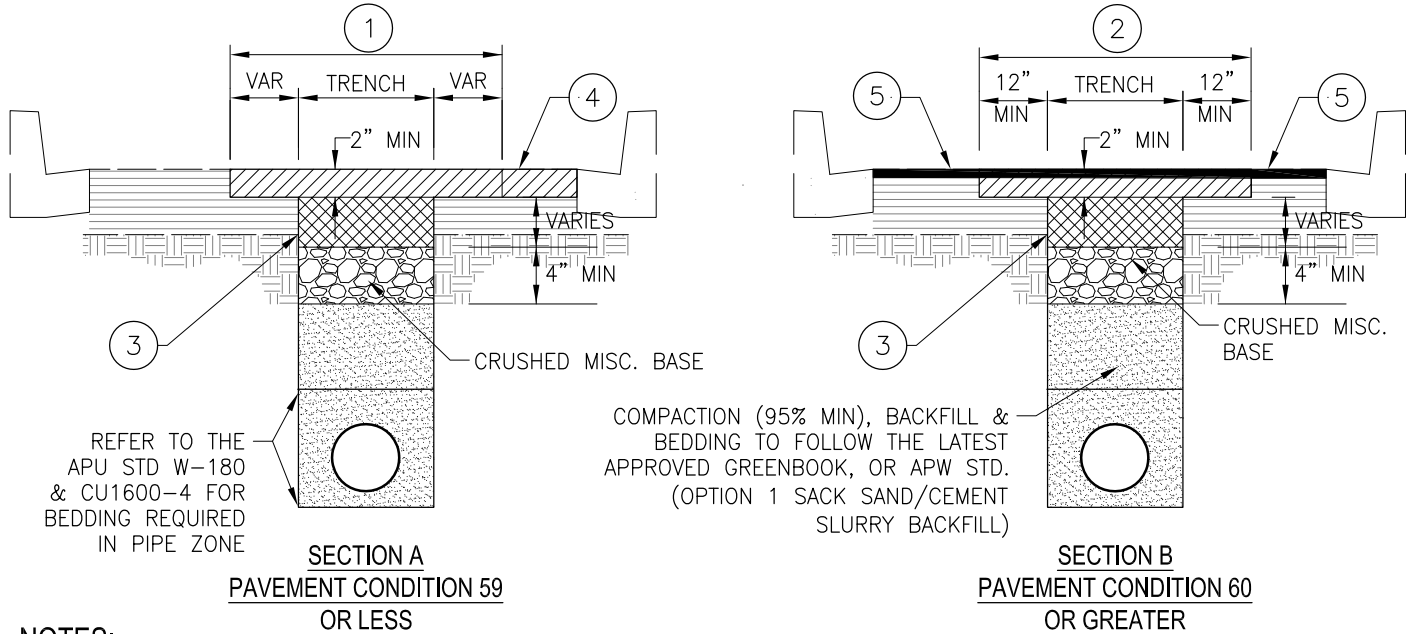
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ASPHALT CONCRETE (AC) SECTION



NOTES:

- ① WHEN PCI IS 59 OR LESS, GRIND A MINIMUM 2" FOR MINIMUM WIDTH OF 8' TO MAX WIDTH OF 16' INCLUDING TRENCH (T-CUT). SEE TABLE HEREIN FOR TOTAL WIDTH.
- ② WHEN PCI IS 60 OR GREATER, GRIND A MINIMUM 2" FOR WIDTH OF TRENCH AND MIN 12" ON EACH SIDE OF TRENCH (T-CUT).
- ③ REPLACEMENT OF ASPHALT CONCRETE SECTION OVER THE TRENCH SHALL BE A MINIMUM OF 1" THICKER THAN EXISTING.
- ④ WHEN PAVEMENT CONDITION OF STREET IS 59 OR LESS THE PAVEMENT SHALL BE GRIND AND RESURFACED WITH 2" OF AC FROM THE EDGE OF THE TRENCH TO THE GUTTER (SEE CASE VIII, IX OR X ON SHEET 4 OF 8).
- ⑤ WHEN PAVEMENT CONDITION OF STREET IS 60 OR GREATER. THE PAVEMENT SHALL BE SLURRY SEALED (TYPE I)- CURB TO CURB (SEE CASE VI OR VII ON SHEET 4 OF 8). CLEAN AND SEAL CRACKS WIDER THAN $\frac{1}{8}$ " BEFORE APPLYING SLURRY SEAL PER GREENBOOK.

ASPHALT CONCRETE :
FINISH COURSE: B3-PG-70-10
BASE COURSE: B3-PG-64-10

LOCAL STREETS WITH PCI LESS THAN 59			
Existing Street Width	22' or less	23' - 32'	33' - 48'
Minimum Pavement Restoration Width (Including Trench)	8'	12'	16'

GENERAL NOTES FOR ALL TRENCH TYPES:

1. THE CITY CAN REQUIRE FULL DEPTH AC SECTION REPLACEMENT DEPENDING ON STREET CONDITIONS.
2. ALL DAMAGED OR REMOVED STRIPING, PAVEMENT LEGENDS, MARKERS, AND TRAFFIC SIGNAL LOOPS SHALL BE REPLACED.
3. MANHOLES OR VALVES IMPACTED BY THE AC IMPROVEMENTS SHALL BE RAISED AND LOWERED PER GREENBOOK.
4. PARALLEL TRENCHES MAY REQUIRE 2" FULL WIDTH GRIND AND CAP.
5. CONSTRUCT NEW CRUSHED MISC. BASE MAX 2" PARTICLE SIZE, TO A MIN. OF 4" THICK UP TO EXISTING ASPHALT BASE SECTION THICKNESS, WHICHEVER IS GREATER. COMPACT TO 95% OF RELATIVE DENSITY. NO CRUSHED MISC. BASE REQUIRED IF 1-SACK SAND/CEMENT SLURRY BACKFILL IS USED.
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7. CONTRACTOR SHALL PROVIDE THE FIELD INSPECTOR COMPACTION TEST RESULTS CERTIFIED BY A SOIL ENGINEER.

TRENCH REPLACEMENT LOCAL STREETS - EXCESS OF 651'



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SHEET 4 OF 8

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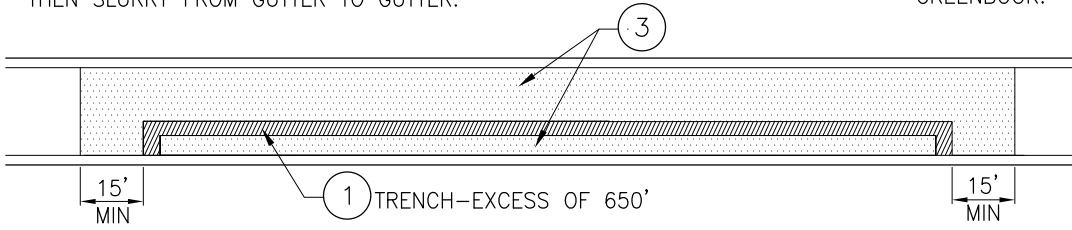
LOCAL STREETS

NOTES:

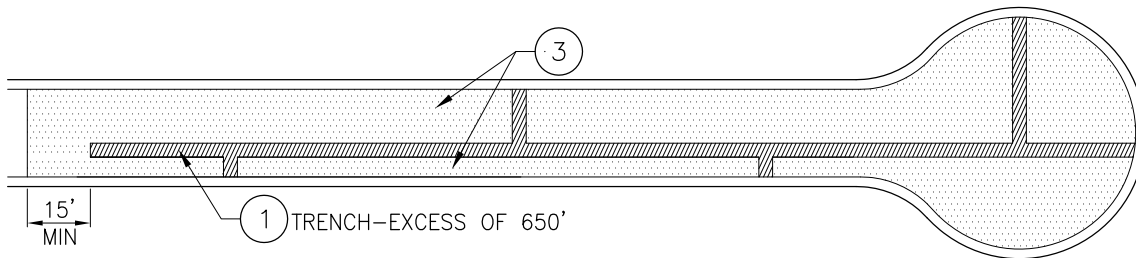
- ① GRIND 2" AND REPLACE WITH 2" AC TRENCH T-CUT.
- ② GRIND 2" AND REPLACE WITH 2" AC.
- ③ SLURRY SEALED (TYPE I) - CURB TO CURB. CLEAN & CRACK SEAL BEFORE APPLYING PER GREENBOOK.

PAVEMENT CONDITION INDEX GREATER THAN 60:

IF PAVEMENT CONDITION INDEX OF STREET IS 60 OR GREATER THEN SLURRY FROM GUTTER TO GUTTER.



CASE VI
TRENCH CUT
LOCAL STREETS
EXCESS 650'

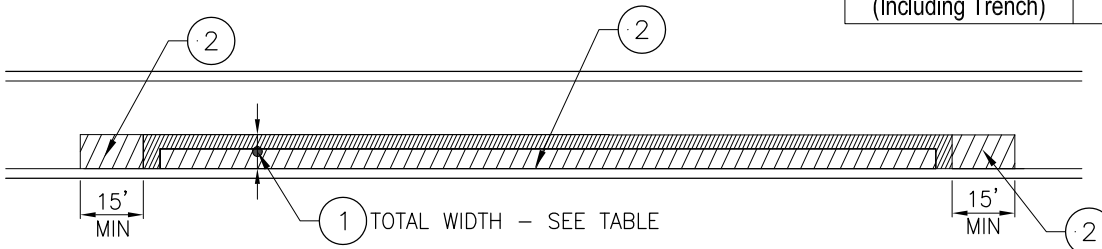


CASE VII
TRENCH CUT
IN CUL DE SAC

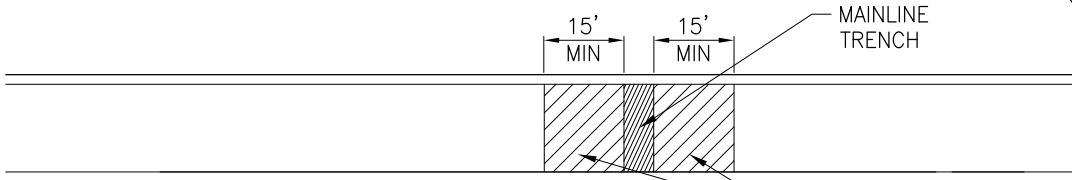
PAVEMENT CONDITION INDEX LESS THAN 59:

IF PAVEMENT CONDITION INDEX OF STREET IS 59 OR LESS THEN CONSTRUCT A 2" GRIND AND AC. OVERLAY FROM GUTTER TO TRENCH LIMITS.

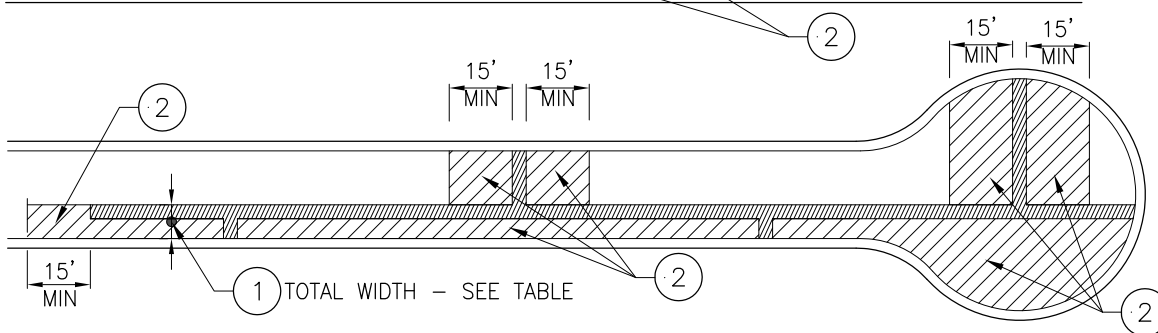
LOCAL STREETS WITH PCI LESS THAN 59			
Existing Street Width	22' or less	23' - 32'	33' - 48'
Minimum Pavement Restoration Width (Including Trench)	8'	12'	16'



CASE VIII
TRENCH CUT
LOCAL STREETS
EXCESS 650'



CASE IX
TRANSVERSE
(PERPENDICULAR)
TRENCH CUT



CASE X
TRENCH CUT
IN CUL DE SAC

TRENCH REPLACEMENT LOCAL STREETS - EXCESS OF 651'



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DEPARTMENT OF PUBLIC WORKS

PAVEMENT MORATORIUM

THREE (3) YEARS MORATORIUM FOR NEW PAVEMENT AND ONE (1) YEAR FOR SLURRY SEAL.

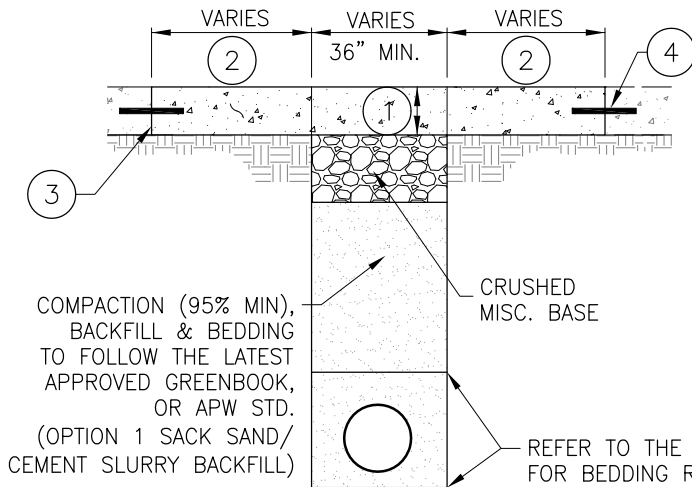
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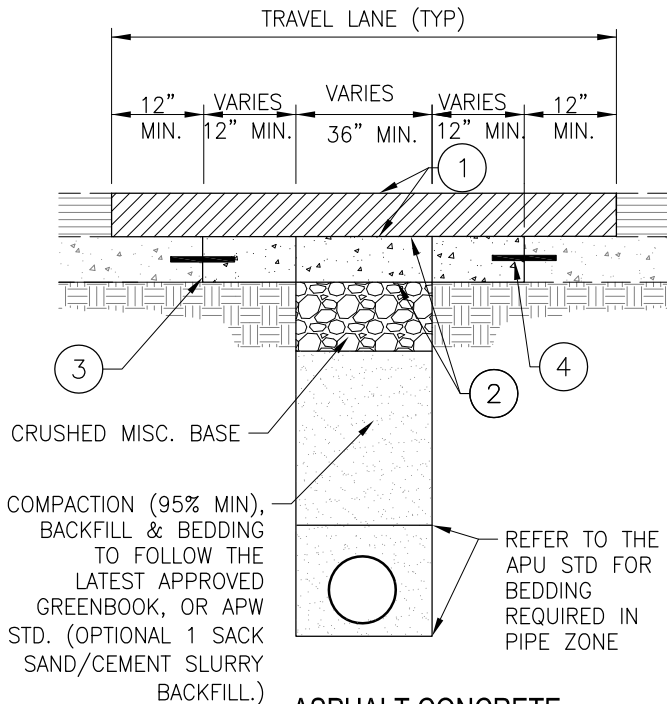
PORTLAND CEMENT CONCRETE (PCC) SECTION



NOTES:

- ① CONSTRUCT NEW PCC PAVEMENT SHALL MATCH EXISTING CONCRETE THICKNESS.
- ② MINIMUM 12". THE EXACT LIMITS FOR REMOVAL SHALL BE DETERMINED BY THE CITY ENGINEER. IF THE TRENCH EXCAVATIONS ARE LESS THAN 5' APART OR LESS THAN 3' FROM A CONCRETE CURB, GUTTER OR EXPANSION JOINT, THE RESTORATION SHALL BE CONTINUOUS BETWEEN EXCAVATIONS AND/OR THE EDGE OF GUTTER.
- ③ SAWCUTTING IS REQUIRED AROUND THE PERIMETER OF THE FINAL EDGE OF ALL EXCAVATIONS TO PROVIDE CLEAN, VERTICAL SIDES.
- ④ ½" X 24" LONG SMOOTH EPOXY COATED STEEL DOWELS AT 24" O.C. AT EXPANSION JOINTS (TYPICAL).

ASPHALT CONCRETE (AC) & PORTLAND CEMENT (PCC) CONCRETE SECTION



NOTES:

- ① ASPHALT CONCRETE SECTION SHALL MATCH EXISTING ASPHALT THICKNESS.
- ② P.C.C. PAVEMENT SECTION SHALL MATCH EXISTING CONCRETE THICKNESS.
- ③ SAWCUTTING IS REQUIRED AROUND THE PERIMETER OF THE FINAL EDGE OF ALL EXCAVATIONS TO PROVIDE CLEAN, VERTICAL SIDES.
- ④ ½" X 24" LONG SMOOTH EPOXY COATED STEEL DOWELS AT 24" O.C. AT EXPANSION JOINTS (TYPICAL).

GENERAL NOTES:

1. IF ANY TRAVEL LANE IMPACTED BY THE TRENCH IS ADJACENT TO EITHER A BIKE LANE OR A PARKING LANE, THE PAVEMENT SHALL BE GROUND AND RESURFACED WITH 2" OF AC TO THE EDGE OF THE GUTTER (SEE CASE I, II OR V ON SHEET 2 OF 8).
2. FOR TRANSVERSE (PERPENDICULAR) TRENCHES, GRINDING AND RESURFACING WITH 2" OF AC SHALL EXTEND 15' BEYOND LIMITS OF EACH SIDE OF THE TRENCH (SEE CASE III, SHEET 2 OF 8).
3. SIGNIFICANT PAVED CUTS DUE TO UTILITY LATERALS REQUIRE GRINDING AND RESURFACING WITH 2" OF AC (SEE CASE IV, SHEET 2 OF 8).
4. CONCRETE STRENGTH SHALL BE 560-C-3250 MIN., WITH HIGH EARLY STRENGTH PCC FOR OPENING LANES TO TRAFFIC (PCC SUBMITTAL AND PCC CYLINDER TESTING FOR COMPLIANCE REQUIRED) AS REQUIRED BY ENGINEER OR INSPECTOR.

ASPHALT CONCRETE :
FINISH COURSE: B3-PG-70-10
BASE COURSE: B3-PG-64-10

TRENCH REPLACEMENT ALL STREETS - CONCRETE SECTIONS



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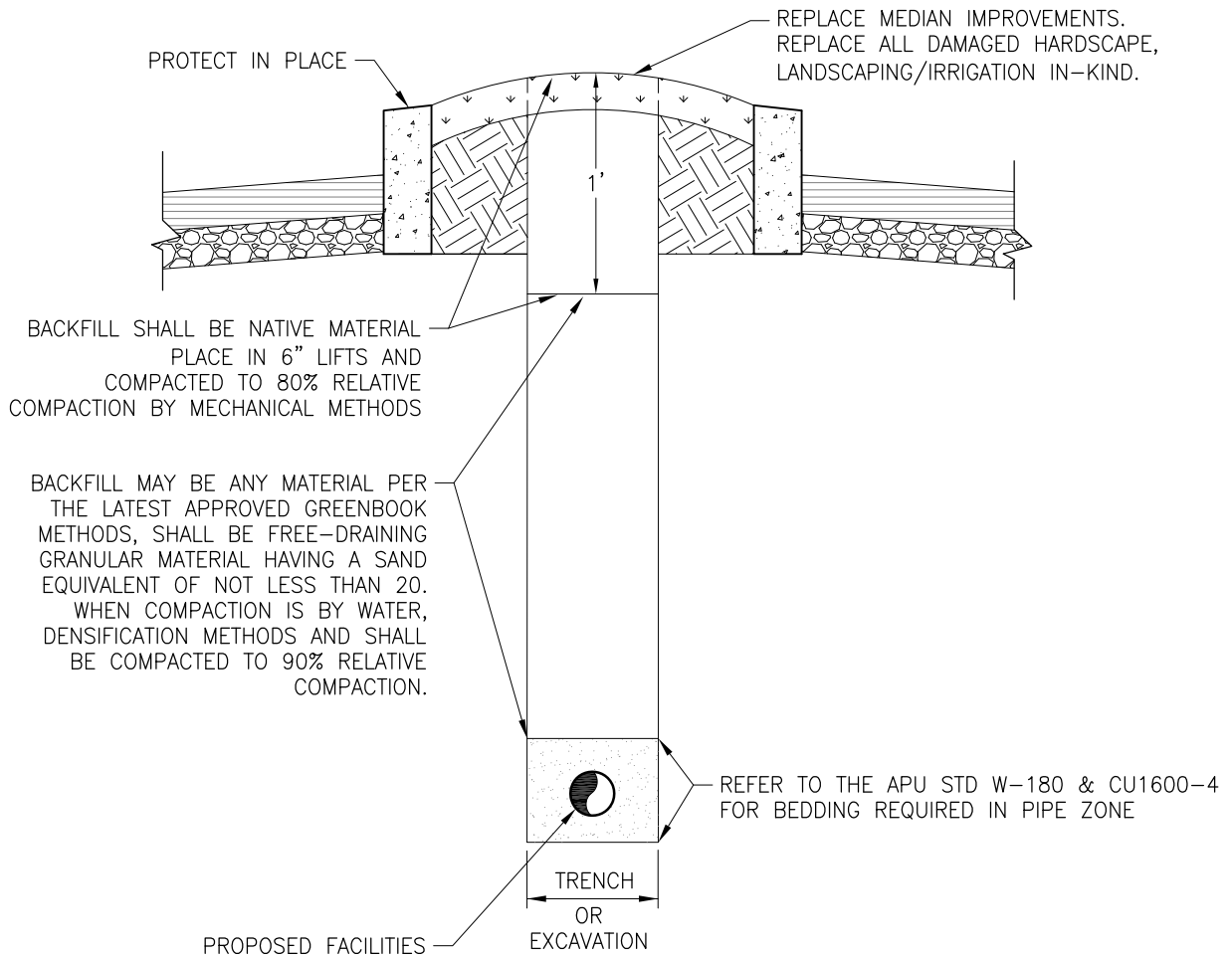
STANDARD DETAIL

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DEPARTMENT OF PUBLIC WORKS

MEDIAN/OPEN AREAS SECTION



NOTES:

FOR ALL SECTIONS: ALL TESTING, SHALL BE BY AN APPROVED SOILS TESTING COMPANY OR AGENCY PERMITTEE TO THE SATISFACTION OF THE CITY ENGINEER. CERTIFIED TEST RESULTS SHALL BE FURNISHED TO THE INSPECTOR.

TRENCH REPLACEMENT MEDIANS



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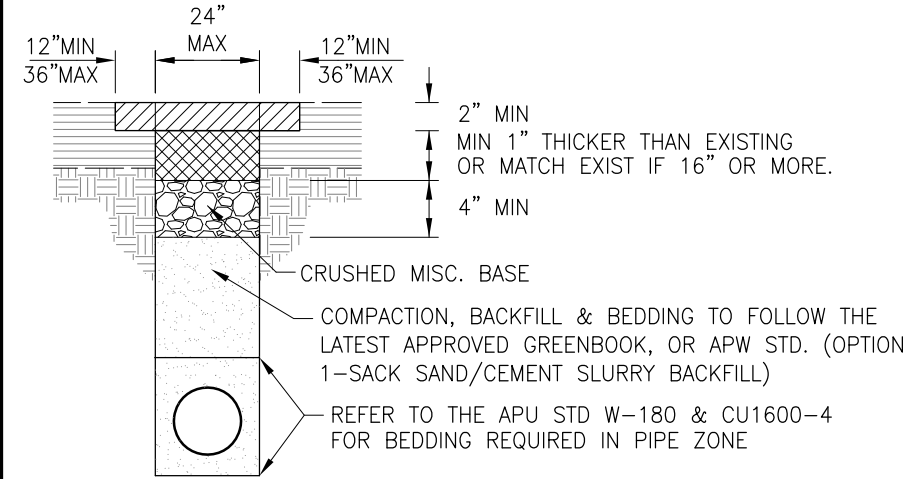
DEPARTMENT OF PUBLIC WORKS

PAVEMENT MORATORIUM

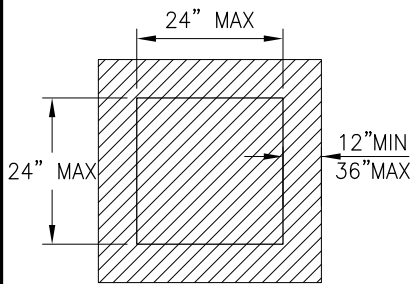
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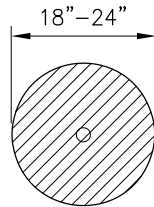
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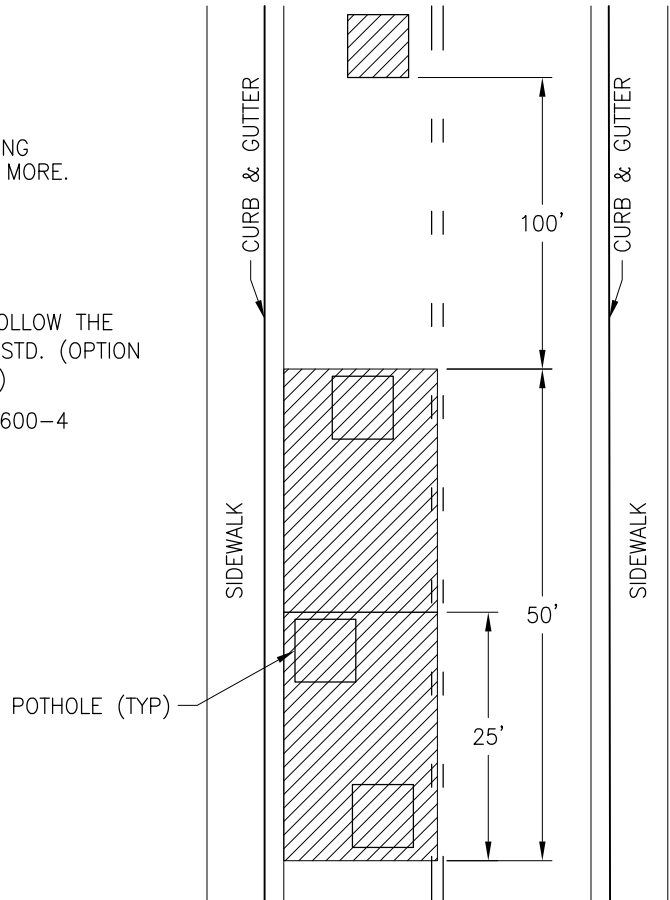
SECTION VIEW



**SAW CUT POTHOLE
PLAN VIEW**



**CORE DRILLING POTHOLE
PLAN VIEW**



POTHOLE (TYP)

SIGNIFICANT POTHoles

NUMBER OF POTHoles	SURFACE TREATMENT (ARTERIAL STREETS ONLY)
1 - 100' OR GREATER	POTHOLE ONLY
2 - 25' OR LESS	ENTIRE LANE 2" GRIND AND CAP
3 - 50' OR LESS	ENTIRE LANE 2" GRIND AND CAP

POT HOLE REPAIR:

1. PAVEMENT CORES/POTHoles WORK SHALL NOT BE GREATER THAN 24".
2. UTILITY POTHOLE WORK SHALL BE COMPLETED UTILIZING SAW-CUT OR CORE DRILLING METHODS.
3. IF POTHOLE/CORE WORK REMOVES/DAMAGES EXISTING TRAFFIC STRIPING, SIGNAL LOOPS, MARKERS-REPLACEMENT SHALL BE REPLACED IN-KIND.
4. CAP POTHOLE/CORES WITH HOT MIX ASPHALT.
5. GRIND 2" THICK A MINIMUM OF 12" TO 48" WIDER THAN SAW CUT POTHOLE PERIMETER. LIMITS DETERMINED BY CITY ENGINEER. NOT REQUIRED FOR CORE DRILLING METHOD.
6. IF OUTER EDGE OF POT HOLE REPAIR IS 36" OR LESS FROM THE GUTTER, THEN THE AREA TO THE GUTTER AREA MUST BE 2" GROUND & RESURFACED (ALL STREETS).
7. FOR SIGNIFICANT NUMBER OF POT HOLES, PAVING WILL BE REQUIRED FOR ENTIRE LANE LINE- SEE TABLE HEREIN.
8. WHEN MULTIPLE POTHoles ARE COMPLETED PARALLEL TO THE TRAFFIC LANE WITH A SPACING OF 24' OR LESS, GRIND AND CAP REQUIREMENTS SHALL ADHERE TO APW STD 132 OR AS DIRECTED BY THE CITY ENGINEER.
9. WHEN UTILITY POTHOLE/CORE WORK IS COMPLETED WITHIN CONCRETE AREAS, THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE FULL CONCRETE PANELS OR SECTIONS. CONCRETE STRENGTH SHALL BE 560-C-3250 MIN., WITH HIGH EARLY STRENGTH PCC FOR OPENING LANES TO TRAFFIC.

TRENCH REPLACEMENT POTHOLE AND CORING



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