NOTES:
1. BACKFILL TO BE COMPACTED TO 95% OF A.S.T.M. D-698 DENSITY IN ALL AREAS, UNLESS OTHERWISE NOTED.
2. 14 AWG. STRANDED OR SOLID COPPER WIRE SHALL BE INSTALLED AS TRACING WIRE ABOVE ALL NON METALLIC POTABLE WATER PIPES. THE WIRE SHALL BE CONNECTED AND COME TO THE SURFACE AS DIRECTED.
3. FILTER FABRIC IS REQUIRED IF STABILIZATION MATERIAL IS USED. THE FABRIC SHALL BE INSTALLED AS SHOWN IN THE DETAIL.
EXISTING PAVEMENT TO BE CUT 1' BEYOND TRENCH WALL

EXISTING PAVEMENT TO BE CUT 1' BEYOND TRENCH WALL

**TYPICAL ASPHALT & CONCRETE TRENCH PATCH**

**NOTES:** ASPHALT SHALL BE USED TO PATCH ASPHALT 6" CONCRETE SHALL BE USED TO PATCH CONCRETE.
CONCRETE PAVEMENT PATCH

DETAIL 100-03

NOTE: Minimum remove and replace patch size is 1/4 panel with minimum dimensions as shown. (Section III.03)

PUBLIC WORKS DIVISION  DATE: MARCH, 1993  SCALE: NOT TO SCALE
LIMITS OF ASPHALT REMOVAL AND H.B.P. PATCHBACK DETAIL 100-04

MARCH, 1993

NEW C & G

LIP OF C & G

3'-0"

LIMITS OF ASPHALT REMOVAL FOR TRENCH PATCHBACK FALLS WITHIN 3'-0" OF EDGE OF PAVEMENT. REMOVE AND REPLACE ASPHALT TO EDGE OF PAVEMENT. (SECTION 111.02)

IF LIMITS OF ASPHALT REMOVAL FOR TRENCH PATCHBACK FALLS WITHIN 3'-0" OF EDGE OF PAVEMENT, REMOVE AND REPLACE ASPHALT.
NOTES:
1. PIPE SECTIONS SHALL BE CENTERED OVER THE PIPE BEING CROSSED.
2. SIZES ABOVE 24" WILL BE DETERMINED BY THE ENGINEER.
3. A BOND BREAKER SHOULD BE PLACED BETWEEN THE CONCRETE AND THE PIPE BEING SUPPORTED.
4. IF THE CROSSING INVOLVES A WATER LINE AND THERE IS 6" OF CLEARANCE, OR THERE IS LESS THAN 4' OF COVER OVER THE UPPER PIPE.
   A FIBER BOARD INSULATION (DOW 2" EXTRUDED POLYSTYRENE IN ACCORDANCE WITH ASTM-C578 OR APPROVED EQUAL) MAY BE REQUIRED TO BE INSTALLED BETWEEN THE PIPES. THE BOARD SHOULD EXTEND 2' BEYOND THE OUTSIDE EDGES OF BOTH PIPES.

PIPE CROSSING SUPPORT PAD DETAIL

(ALLY SEE DETAIL 500-10)
1: CLAY WALL EXTENDS A MINIMUM OF 12" INTO UNDISTURBED SOIL ON EACH SIDE AND ON BOTTOM OF TRENCH.

2: CLAY MATERIAL TO BE CLASSIFIED AS CL, CH, OR OH.

3: APPROVED FLOW-FILL MATERIAL MAY BE USED INSTEAD OF CLAY MATERIAL.
**STEP 1**

- Place tube of polyethylene material on pipe prior to lowering it into trench.

**STEP 2**

- Pull the tube over the length of the pipe. Tape tube to pipe at joint. Fold material around the adjacent spigot end and wrap with tape to hold the plastic tube in place. Excess material shall be neatly drawn up around the pipe barrel, folded on top of pipe and taped in place.

**STEP 3**

- Overlap first tube with adjacent tube and secure with plastic adhesive tape. The polyethylene tube material covering the pipe shall be loose. Excess material shall be neatly drawn up around the pipe barrel, folded on top of pipe and taped in place.

**STEP 4**

- Carefully backfill with clean material that will not damage encasement.

**TAPS:** Make taps by wrapping three layers of compatible tape around the pipe to cover the tapping machine area. Install Corporation stop through the tape and polyethylene.

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**FIELD INSTALLATION-POLYETHYLENE**

**AWWA C 105 METHOD "A"**

**N.T.S.**

3-19-93 BM
NOTES:

1. BACKFILL TO BE COMPACTED TO 90% OF A.S.T.M.D-698 DENSITY IN ALL AREAS, UNLESS OTHERWISE NOTED.

2. THE MINIMUM TRENCH WIDTH IS 18", UNLESS APPROVED OTHERWISE BY THE CITY. APPROVAL OF TRENCH WIDTHS LESS THAN 18" SHALL BE BASED ON THE DEMONSTRATION OF THE CONTRACTOR THAT SUITABLE MECHANICAL MEANS OF BACKFILL COMPACTION IS AVAILABLE AND COMPACTION IS BEING OBTAINED, OR AN APPROVED NON-SHRINKABLE FLOW FILL MATERIAL WILL BE USED FOR TRENCH BACKFILL.
SILT FENCE INSTALLATION

---NTS---

NOTE: EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL LANDSCAPING IS COMPLETED, OR AS DIRECTED BY LOCAL JURISDICTION

SECTION

---NTS---

Urban Drainage and Flood Control District
Drainage Criteria Manual (V.3)

STORM DRAINAGE
SILT FENCE EROSION BARRIER
DETAIL 100-09
TRENCH EXCAVATION

STRAW BALE INSTALLATION

SECTION

NOTE: EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL LANDSCAPING IS COMPLETED, OR AS DIRECTED BY LOCAL JURISDICTION

Urban Drainage and Flood Control District
Drainage Criteria Manual (V.3)
NOTE: EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES AS DIRECTED BY THE LOCAL JURISDICTION.

NOTES
1. ALL ROCK TO BE REMOVED UPON COMPLETION OF CONSTRUCTION.
2. PUBLIC ROADWAY TO BE KEPT CLEAN AND FREE OF MUD, DIRT AND DEBRIS AT ALL TIMES.