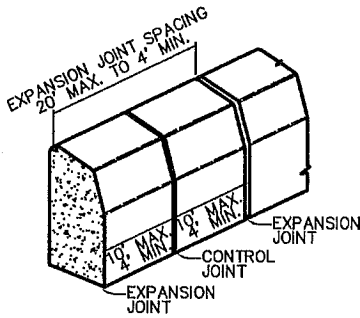
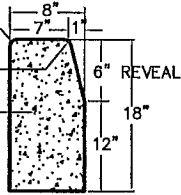


# CURBS, APRON & SIDEWALK SPECIFICATIONS

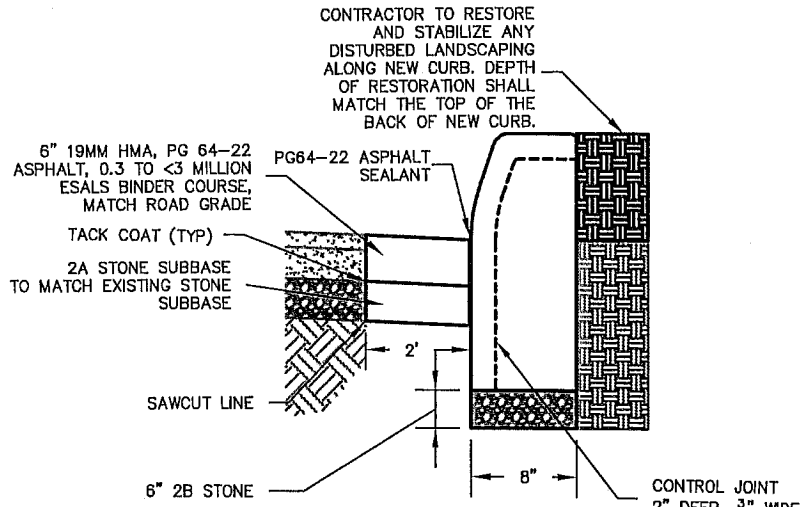


**DETAIL A  
CONTRACTION JOINT**

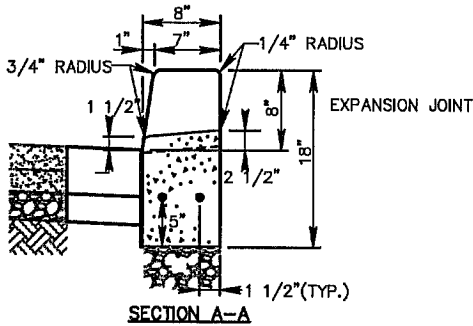
**PLAIN CEMENT CONCRETE CURB  
NOT TO SCALE**



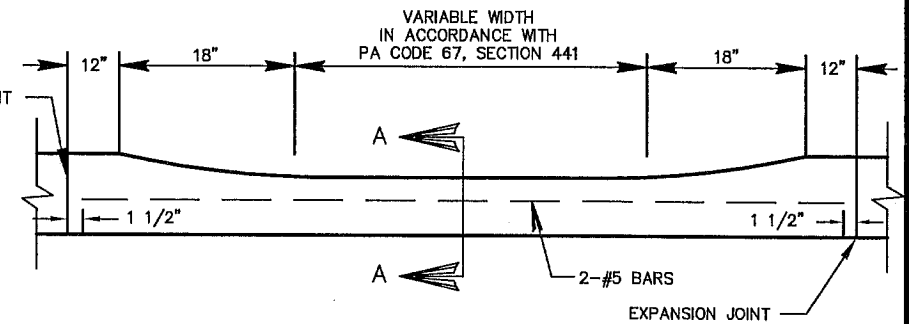
**TYPICAL  
CROSS SECTION**



**PAVEMENT RESTORATION FOR CURB CONSTRUCTION  
NOT TO SCALE**



**SECTION A-A**



**CURB DEPRESSION AT DRIVEWAY  
NOT TO SCALE**

**INSTALLATION NOTES:**

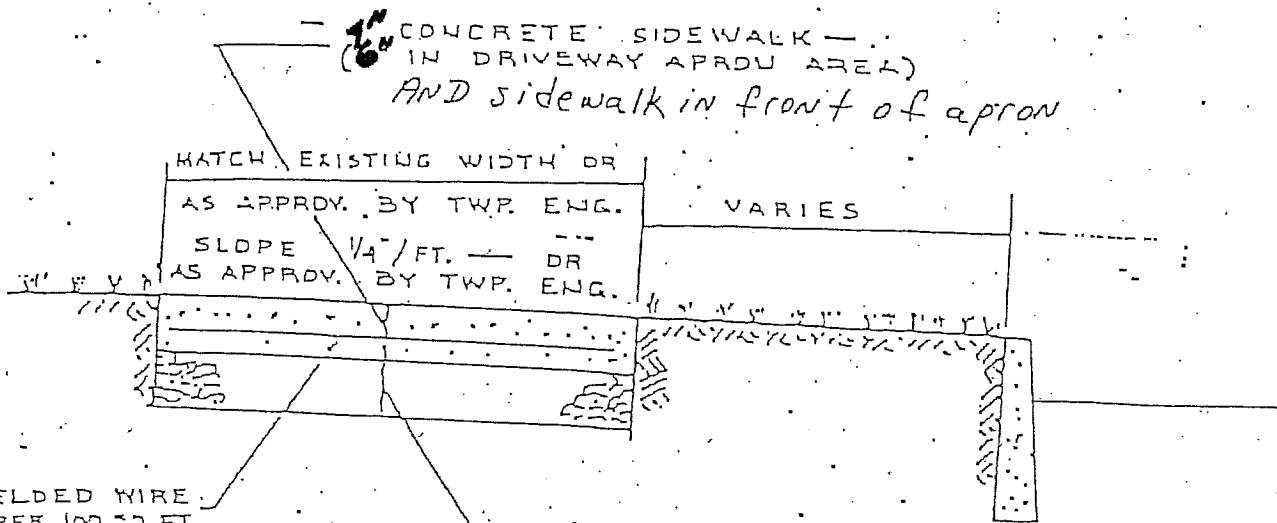
1. TAPERED CURB IS TO BE USED WHEN EXISTING CURB BEING REPLACED, IS TAPERED OR NEW CURB IS BEING INSTALLED. ALL OTHER EXISTING CURBS TO BE NON-TAPERED.
2. ALL CONCRETE TO BE CLASS AA FROM PADOT APPROVED SUPPLIER LISTED IN BULLETIN 15.
3. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM WITH PADOT PUBLICATION 408, LATEST EDITION.
4. EXISTING ROAD SURFACE TO BE SAWCUT ALONG CURB NO MORE THAN 2' MAXIMUM FROM CURB FACE.
5. EXPANSION JOINTS SHALL BE PLACED BETWEEN EXISTING CONCRETE, AT A MAXIMUM INTERVAL OF 20 FEET, AT THE END OF EVERY DAY, AND ON BOTH SIDES OF ALL STRUCTURES. JOINTS SHALL BE 1/2" THICK PRE-MOLDED MATERIAL.
6. INTERMEDIATE CONTROL JOINTS TYPICAL 2" DEEP X 3/16" WIDE. JOINTS TO BE PLACED AT 10' INTERVALS (MIN. OF 4' FOR CLOSURE OR CURVES).
7. TACK COAT EXISTING PAVEMENT AND ALL VERTICAL SURFACES BELOW PAVING LINE.
8. WHEN NEW CURB IS INSTALLED ALONG AN EXISTING PAVED AREA, EXISTING PAVEMENT SHALL BE CUT IN A STRAIGHT LINE, TWO FEET FROM THE FACE OF CURB, WITH A SHARP TOOL. A CLEAN CUT MUST BE MADE THROUGH THE CONCRETE BASE COURSE PRIOR TO EXCAVATION. THE NEW PAVEMENT SHALL BE LOCKED AND BLENDED TO THE EXISTING PAVEMENT. STONE AND ASPHALT SHALL BE PROPERLY COMPACTED PRIOR TO SEALING ALL JOINTS.
9. CAPPING OF DETERIORATED CURBING IS NOT PERMITTED.
10. FRONT AND BACK CURB FORMS SHALL BE USED FOR THE ENTIRE DEPTH OF CURB (18"). HANGING FRONT FORMS ARE NOT PERMITTED.
11. THE SHORTEST SECTION OF CURB TO BE REPLACED IS 5 FEET.
12. BACKFILL BETWEEN THE FACE OF CURB AND EXISTING ROAD SURFACE WITH 2A STONE AND 19MM BINDER COURSE AS REQUIRED. COLD PATCH ASPHALT IS NOT PERMITTED.
13. A PERMIT FROM THE BRISTOL TOWNSHIP LICENSES & INSPECTIONS DEPARTMENT IS REQUIRED PRIOR TO REPLACEMENT OF CONCRETE CURBS.

## SPECIFICATIONS FOR CONCRETE CURB CONSTRUCTION

**GILMORE & ASSOCIATES, INC.**  
ENGINEERING & CONSULTING SERVICES  
65 EAST BUTLER AVENUE, SUITE 100  
NEW BRITAIN, PA 18901-5108 • (215) 345-4330  
www.gilmore-assoc.com

**BRISTOL TOWNSHIP**  
BUCKS COUNTY  
2501 BATH ROAD BRISTOL, PA 19007 (215) 785-3680

DATE: 02/10/2015  
NOT TO SCALE  
DETAIL:



6x6 WELDED WIRE

21 LBS. PER 100 SQ. FT.

APRON AREA

6" NO. 28 STONE BASE

6" APRON AREA

4" 3/4" stone under all other sidewalk areas

1. CONCRETE FOR SIDEWALK SHALL BE CLASS "A" CONCRETE.

2. INSTALL 1/2" BITUMINOUS NON-EXTRUDING EXPANSION JOINTS AT 20 FOOT INTERVALS. INSTALL 1/2" BITUMINOUS NON-EXTRUDING EXPANSION JOINT WHERE SIDEWALK ABUTS CURB.

3. INSTALL SCORED JOINTS AT 4 FOOT INTERVALS.

CONCRETE SIDEWALK

NOTE:

ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FORM 505, 1976.

BRISTOL TOWNSHIP  
ROAD SPECIFICATIONS  
L. ROBERT KIMBALL & ASSOC.  
CONSULTING ENGINEERS  
TREVOSE, PENNSYLVANIA

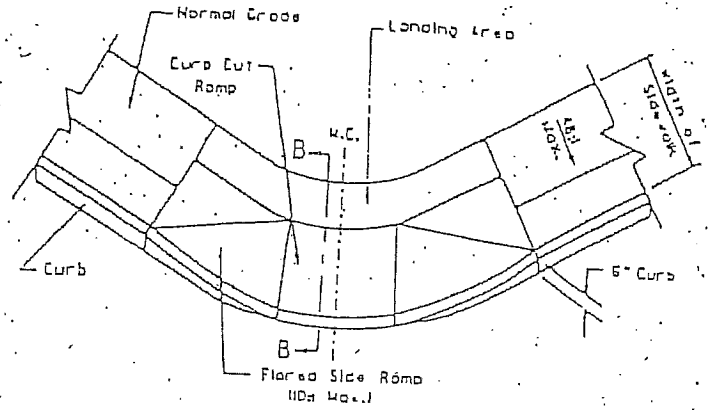
JULY 15, 1951

# CURB CUT-RAMPS

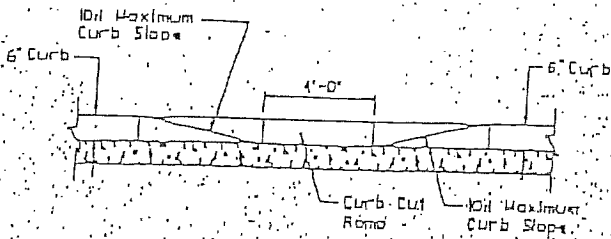
SHEET 2 OF 2

## Notes:

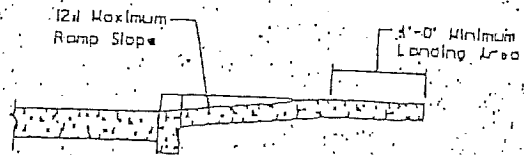
1. Provide 1/2" expansion joint material where curb cut ramp adjoins any rigid pavement, sidewalk or structure with the top of joint filler flush with adjacent concrete surface.
2. When pedestrian crosswalks are not constructed wide enough to provide minimum 4'-0" wide overlap zone at the bottom of the ramp, construct crosswalks as indicated in Detail A.
3. Provide for Type 2 Curb Cut Ramps for sidewalk sections wider than 12'-0".
4. Dimensions and slopes should be adhered to unless existing conditions require special design based on roadway grades.
5. Provide slip resistant texture on curb cut ramp by coarse brooming transverse to the slope of the ramp. Extend texture the full width and length of the curb cut ramp including flared side ramps.
6. See Sheet 1 of 2 for Symbols, Definitions and Dimensions.



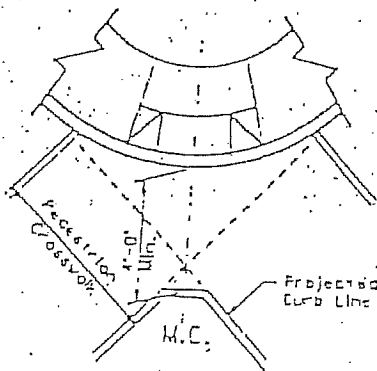
Isometric View



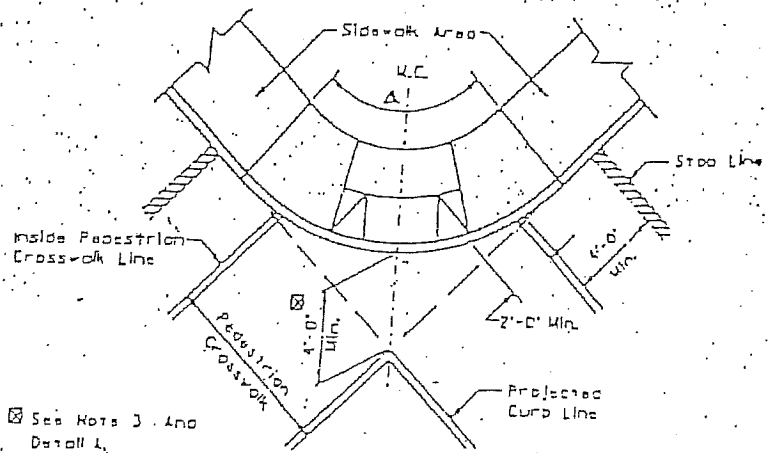
Elevation View



Section B-B



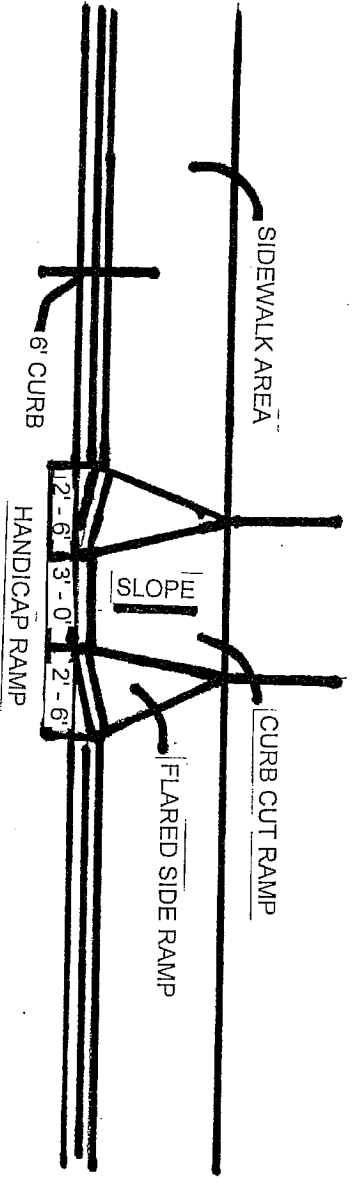
Detail A



Plan View

## Type 2 Single Curb Cut Ramp

CLASS OF CONCRETE	11 DAY STRUCTURAL DESIGN COMPRESSIVE STRENGTH (TSI)	
A	3000 PSI	28 DAY



**NOTES:**

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408. SECTION 630 FOR PLAIN CONCRETE CURB AND DEPRESSED CURB. SECTION 640 FOR PLAIN CONCRETE CURB AND FOR PLAIN CONCRETE CURB GUTTER.
2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS.
3. PLACE 1/2 INCH PREMOULDED EXPANSION JOINT FILLER MATERIAL 8'-10' AT CURBS. CUT MATERIAL TO CONFORM TO AREA ADJACENT TO CURB OR TO CONFORM TO CROSS SECTIONAL AREA OF CURB.
4. NEW CURBS MUST MATCH EXISTING ADJACENT CURBS, IN SO FAR AS WIDTH HEIGHT AND DIMENSION.