

BALTIMORE COUNTY

DEPARTMENT OF PUBLIC WORKS



ADA Transition Plan



Public Rights of Way and Sidewalks

Draft

Approved:


Edward C. Adams, Director of Public Works

9-28-15

2015 Update

Table of Contents

Table of Contents.....	2
Introduction and Background	3
Baltimore County ADA Policy	4
Accommodation Procedures	6
ADA Complaint Form	9
County ADA Coordinator Designation	10
ADA Program Public Rights of Way Responsibility	12
Accessibility Codes	13
Ongoing ADA Training	14
Self-Evaluation.....	14
Existing Facilities.....	15
Capital Improvement Planning	15
Implementation Schedule	15
Existing Programs	16
Sidewalk Ramp Program	17
Public Meeting Protocols.....	18
Design Criteria and Details	19
Appendix	27

Introduction and Background

Baltimore County is a sub-recipient of federal funds disbursed through SHA, therefore the County is required to provide ADA facilities within its public rights-of-way that comply with the Americans with disabilities Act (ADA) of 1990 and the Rehabilitation Act of 1973 (Section 504).

This document will outline the County's Transition plan with documentation of the related existing County programs, policies and procedures.

Baltimore County ADA Policy

ADA Policy Designation

Notice of Baltimore County Policy under the Americans with Disability Act:

In accordance with the requirements of title II of the Americans with Disabilities Act of 1990, "ADA", Baltimore County Government will not discriminate against qualified individuals with disabilities on the basis of disability in its employment practices, services, programs, or activities.



Employment

Baltimore County Government does not discriminate on the basis of disability in its hiring or employment practices and complies with all regulations promulgated by the U.S. Equal Employment Opportunity Commission under Title I of the ADA.

Services, Programs and Activities

Baltimore County does not discriminate on the basis of disability in providing access to its services, programs or activities to program applicants and participants, whether such services, programs or activities are County or federally funded. Further, Baltimore County complies with all requirements of Title II of the ADA.

Effective Communication

Baltimore County Government will generally, upon request, provide appropriate aids and services leading to effective communication for qualified persons with disabilities so they can participate equally in Baltimore County Government's programs, services, and activities, including qualified sign language interpreters, documents in Braille, and other ways of making information and communications accessible to people who have speech, hearing, or vision impairments.

Modifications to Policies and Procedures

Baltimore County Government will make all reasonable modifications to policies and programs to ensure that people with disabilities have an equal opportunity to enjoy all of its programs, services, and activities. For example, individuals with service animals are welcomed in Baltimore County Government's offices, even where pets are generally prohibited.

The ADA does not require Baltimore County Government to take any action that would fundamentally alter the nature of its programs or services, or impose an undue financial or administrative burden.

Complaints that a program, service, or activity of Baltimore County Government is not accessible to persons with disabilities should be directed to the ADA Coordinator as noted above.

Baltimore County Government will not place a surcharge on a particular individual with a disability or any group of individuals with disabilities to cover the cost of providing auxiliary aids/services or reasonable modifications of policy, such as retrieving items from locations that are open to the public but are not accessible to persons who use wheelchairs.

This document is available in alternative format upon request.

28 CFR PART 35.106 and 28 CFR 35.102-35.104

Revised July 25, 2012

Accommodation Procedures

ADA Public Complaint Procedure – (from Baltimore County website)

This Complaint Procedure is established to meet the requirements of the Americans with Disabilities Act of 1990, "ADA". It may be used by anyone who wishes to file a complaint alleging discrimination on the basis of disability in the provision of services, activities, programs, or benefits by Baltimore County Government.

The complaint should be in writing and contain information about the alleged discrimination such as name, address, phone number of complainant and location, date, and description of the problem. Alternative means of filing complaints, such as personal interviews or a tape recording of the complaint, will be made available for persons with disabilities upon request.

Submit Complaint

The complaint should be submitted by the complainant and/or his/her designee as soon as possible but no later than 60 calendar days after the alleged violation to the ADA Coordinator. Within 15 calendar days after receipt of the complaint, the ADA Coordinator's designee will meet with the complainant to discuss the complaint and the possible resolutions. Within 15 calendar days of the meeting, the ADA Coordinator's designee will respond in writing, and where appropriate, in a format accessible to the complainant, such as large print, Braille, or audio tape. The response will explain the position of Baltimore County Government and offer options for substantive resolution of the complaint.

Appeals

If the response by the ADA Coordinator's designee does not satisfactorily resolve the issue, the complainant and/or his/her designee may appeal the decision, in writing, within 15 calendar days after receipt of the response to the Baltimore County ADA Coordinator:

*Donald Brand
Office of ADA Coordinator
111 W. Chesapeake Avenue, Room 105
Towson, Maryland 21204*

Within 15 calendar days after receipt of the appeal, the ADA Coordinator or designee will meet with the complainant to discuss the complaint and possible resolutions. Within 15 calendar days after the meeting, the ADA Coordinator or designee will respond in writing, and, where appropriate, in a format accessible to the complainant, with a final resolution of the complaint.

All written complaints received by the ADA Coordinator or designee, and responses from this office will be retained by the Baltimore County Government for at least three years.

Procedure

An individual who believes he/she has been discriminated against on the basis of disability in the provision of services, activities, programs, or benefits by an agency of Baltimore County Government should, if possible, try to resolve the issue locally with the director/supervisor of the program or services. If this informal attempt at resolution is unsuccessful, the complainant shall follow these steps.

Step 1: Complaint

Fill out all of the information requested on the ADA Title II Complaint Form. Mail or hand deliver the completed form to the ADA Coordinator.

If the complainant needs a reasonable accommodation to communicate his/her complaint, such as an interpreter or an alternative format, it should be listed on the complaint form so that the ADA Coordinator can arrange for an accommodation for effective communication. ADA complaints must be filed within 60 calendar days after the discriminatory action or situation was alleged to have occurred.

Step 2: Meet with the ADA Coordinator for Baltimore County

Within 15 business days after the complaint is received by the ADA Coordinator, the Coordinator or designee will meet with the individual or contact him/her regarding his/her complaint.

If it is determined that the individual is a qualified individual with a disability under the ADA, the ADA Coordinator's designee will attempt to resolve the complaint.

Step 3: Resolution of the Complaint

- **Complaint Resolved:** If the individual and the ADA Coordinator's designee jointly agree to a resolution of the complaint, the ADA Coordinator's designee will put the joint agreement in writing and send it to the individual. The agreement will generally contain the following items:

- A description of the complaint;
- A summary of the facts;
- A description of the resolution agreed to;
- The timeframe for resolving the complaint; and,
- An assurance that Baltimore County will comply with the specific terms and conditions of the agreement.

For this resolution to be effective, the individual must sign a copy of the agreement and return it to the ADA Coordinator's designee and the ADA Coordinator in the time specified.

- **Complaint Not Resolved:** If the individual and the ADA Coordinator's designee cannot resolve the complaint, the ADA Coordinator's designee will send the individual a notice of that fact. The notice will generally include the following:
 - A description of the complaint;
 - A summary of any resolution proposed; and,
 - A statement addressing the issues that could not be resolved.

It is important for the individual to keep copies of the original complaint/notifications received after meeting with the ADA Coordinator's designee, as well as any other correspondence or other documentation that is related to the complaint and bring those copies to all meetings, reviews, and appeals related to the complaint.

If the complaint is not resolved, the individual may request a further review of the complaint by the county ADA Coordinator, who will review the decision of the ADA Coordinator's designee. If additional information is required, the ADA Coordinator will schedule a meeting with the individual within 15 business days of having received the complaint. ADA Coordinator will issue a decision on the complaint within 15 business days of either having received the decision of the ADA Coordinator's designee, or his meeting with the individual, whichever is appropriate. The decision of the ADA Coordinator is not appealable.

U.S. Justice Department

If the individual still believes the complaint has not been resolved, he/she may request a decision from the:

U.S. Department of Justice
950 Pennsylvania Avenue, NW
Washington, DC 20530-0001
202-514-2000

Note: At any time during the complaint procedure, the complainant may refer the complaint to the U.S. Department of Justice at the address above.

This information is available in alternative format upon request.

Revised July 25, 2012

ADA Complaint Form

Complaint Form - Title II of The Americans with Disabilities Act

Please fill out this form completely, in black ink or type. Keep a copy of this form, and return the original to the ADA Coordinator.

Sign and return to:

Donald Brand
Office of ADA Coordinator
111 W. Chesapeake Avenue, Room 105
Towson, Maryland 21204

This document is available in alternative format upon request.

Complainant:

Address:

Telephone:

E-mail:

If your complaint involves a specific event, when did the incident occur?

Describe in detail the event/situation for which you are seeking ADA relief. Provide name(s), if appropriate, of individuals who were involved (use additional pages if necessary):

If this is a general request for an accommodation, describe the functional limitations caused by your disability for which you are requesting this accommodation.

Describe any accommodations that you believe would minimize or eliminate the barriers to your participation in the County's services, activities, programs, or benefits.

I will need an accommodation to meet with the ADA Coordinator:

Yes

No

If "Yes," the accommodation I will need is:

Signature:

Date

The online form is located at the following web address:

<http://www.baltimorecountymd.gov/Agencies/ada/complaintform.html>

County ADA Coordinator Designation

Office of the Americans with Disabilities Act (ADA) Coordinator

Overview

It is the policy of Baltimore County Government to provide equal access for people with disabilities to all of its programs, services and activities. The Office of the Americans with Disabilities Act (ADA) Coordinator was created to insure that this policy is maintained. It provides assistance to persons with disabilities who wish to engage or participate in County programs, services and programs as fully as those without disabilities. It also provides assistance to County agencies to ensure that their programs, services and activities satisfy the requirements of the Americans With Disabilities Act.

The Office of the ADA Coordinator is responsible for:

- Responding to citizen requests for access to County programs, services and activities.
- Coordinating County agency ADA compliance.
- Investigation of any public complaint alleging noncompliance with the ADA.
- Managing the County ADA Transition Plan – The Matrix for the Accessibility of Public Buildings.

Contact for Reasonable Accommodation

Anyone who requires an auxiliary aid or service for effective communication, or a modification of policies or procedures to participate in a program, service, or activity of Baltimore County Government, should contact Hal Franklin, Deputy ADA Coordinator for Baltimore County at the Office of Planning, County 105 West Chesapeake Avenue, Towson, Maryland 21204 at 410-887-3580 or by email to ada@baltimorecountymd.gov as soon as possible but no later than five work days before a scheduled event.

Main Offices

Donald Brand, ADA Coordinator

Office of the ADA Coordinator

111 West Chesapeake Avenue, Room 105

Towson, Maryland 21204

Phone: 410-887-3353

Fax: 410-887-5708

TTY: Maryland Relay – 711

Email: ada@baltimorecountymd.gov

Hal Franklin, Deputy ADA Coordinator

Office of Planning

105 West Chesapeake Avenue, Second Floor

Towson, Maryland 21204

Phone: 410-887-3580

Fax: 410-887-5696

TTY: Maryland Relay – 711

Email: ada@baltimorecountymd.gov*Revised August 29, 2014*

ADA Program Public Rights of Way Responsibility

The Officials responsible for the implementation of Baltimore County's ADA Transition Plan for the Public Rights-of-way are:

Donald Brand, ADA Coordinator - Coordinating County agency ADA compliance

Edward C. Adams, Jr - Coordinating DPW- Public Road Right of Way ADA compliance
 Director of Public Works
 111 West Chesapeake Avenue
 Towson MD, 21204

ADA – Public Rights of Way Team

Agency	Responsibility
Bureau of Highways Jim Lathe- Chief Tom Hargis Michelle Wrightson	Record keeping and project implementation
Bureau of Engineering & Construction Steve Walsh – Chief Rahee Famili - Highway Design Chief Ralph Wheeler Angelica Daniel	Standard reviews and compliance
Bureau of Traffic Engineering & Transportation Planning Greg Carski- Chief Thomas Stehr Carol Brown	Complaint investigation
DPW Directors Office- GIS Doug Adams- GIS/IT Program Manager	Technical assistance and data management
Office of the ADA Coordinator Don Brand	General oversight

Accessibility Codes

The following are locations of current building codes relating to accessibility:

Maryland Accessibility Code

- [Maryland Accessibility Code](#) - The Department of Justice announced on February 18, 2004, its certification of the Maryland Accessibility Code as meeting or exceeding federal standards for accessible design.

Americans with Disabilities Act Accessibility Guidelines

- [ADA Standards for Accessible Design](#) (Enforceable by the Department of Justice)
- [The Americans with Disabilities Act Accessibility Guidelines](#)

Parking

- [Technical Requirements for Parking](#) (PDF) - Technical requirements for parking from the Americans with Disability Act Accessibility Guidelines (ADAAG) and the Code of Maryland Regulations (COMAR) - 05.02.02.

Recreation

- [Recreation Guidelines](#) (Not fully accepted by the Department of Justice) - ADA Standards for Accessibility Design.

Uniform Federal Accessibility Standards

- For more information, visit [Uniform Federal Accessibility Standards \(UFAS\)](#).

Other Publications

- [Other Access Board Publications](#)

Additional information may be obtained by contacting the ADA Coordinator at ada@baltimorecountymd.gov.

Documents accessed from this web page are available in alternate format on request.

Revised August 28, 2013

Ongoing ADA Training

County personnel routinely go to various ADA training classes and seminars. The most recent training was given by the ADA Compliance group at SHA. Numerous design and construction personnel attended. Documentation of this training is kept.

Self-Evaluation

There are ongoing efforts to evaluate and improve Baltimore County's compliance with the ADA. Several results have been website upgrades, updates to standard construction details, and the beginning of the sidewalk inventory. The ADA Transition Plan for Public Rights of Way and Sidewalks will be presented to the Baltimore County Commission on Disabilities for comment.

Existing Facilities

County Roads	2684.34 Miles (11/2014)
State Roads	State Roads – 402.668 Miles (2013 HISD Report – SHA)
Sidewalks	2300 Miles (Estimated)
Alleys	140 Miles (Alley Geodatabase, 2015)
Traffic Signals with APS	1
Traffic Signals	374

Notes

- 1) Per County Code , Sidewalk Maintenance is the responsibility of the landowner

Capital Improvement Planning

In 2013/2014, the County DPW and related staff, understanding the seriousness of the ADA program related to public Rights of way, began to discuss its inventory of sidewalks with internal DPW and county representatives. In order to attempt to understand the costs associated with a Countywide inventory, via a February 2, 2015 proposal, the County engaged Century Engineering to provide field identification of physical ADA barriers and geodatabase preparation for a pilot area in the Towson area of the County. Towson was selected being the county seat and an area of high pedestrian activity. After the pilot area is complete and the data analyzed, an implementation plan will be developed.

Implementation Schedule

ITEM	BEGIN	END
Program Planning	2014	Ongoing
Pilot Area evaluation	Spring 2014	Fall 2015
Planning for rest of County Inventory	Fall 2015	Spring 2016
Planning for focused spending of \$ in <u>Sidewalk Ramps Program</u> – Capital Budget item 205-0350		
Budget Request for FY16	Spring 2016	May 2016
Ongoing funding requests for completion of inventory – Rest of County	Ongoing	FY2020

Existing Programs

Maintenance

The repair and maintenance of sidewalks, pedestrian pathways, and driveway aprons within the Baltimore County right-of-way are the responsibility of each respective property owner. All sidewalks, pathways and driveway aprons must be maintained in a safe condition, free from obstructions and tripping hazards as defined in the Americans with Disabilities Act.

To aid the property owner in the repair and maintenance of sidewalks, pathways and driveway aprons, Baltimore County offers a program that allows the property owner to request that the necessary repairs be made by the Bureau of Highways. Upon application, arrangements will be made with a county approved contractor to complete the work, per Baltimore County Standards and Specifications. The costs incurred will be placed on the property tax bill, spread evenly over a five year period, interest free.

The cost for concrete sidewalk replacement is \$6.50 per square foot. The cost for driveway replacement is \$9.50 per square foot.

Typically there is a waiting period of up to one year before the work can be completed under this program; however, should you choose not to wait, you may elect to hire a private contractor at any time.

Call the Bureau of Highways at 410-887-3560, or by email at highways@baltimorecountymd.gov to schedule an appointment with a representative to complete the application at your residence.

For damages to the concrete driveway or sidewalk from trees, please view the information on [tree removal](#), or call the Bureau of Highways at 410-887-3560 or highways@baltimorecountymd.gov.

Revised August 21, 2014

Sidewalk Ramp Program

Sidewalk Ramps Program - Capital Budget Item 205-0350

The County has invested in constructing sidewalk curb ramps for many years.

Historical Funding Summary

Fiscal Year	Budget
1982	\$ 50,000.00
1983	\$ 50,000.00
1984	\$ 50,000.00
1985	\$ 50,000.00
1986	\$ 50,000.00
1987	\$ 45,000.00
1988	\$ 45,000.00
1989	\$ 50,000.00
1990	\$ 50,000.00
1991	\$ 50,000.00
1992	\$ 50,000.00
1993	\$ 50,000.00
1994	\$ 100,000.00
1995	\$ -
1996	\$ 100,000.00
1997	\$ -
1998	\$ 100,000.00
1999	\$ -
2000	\$ 200,000.00
2001	\$ -
2002	\$ 200,000.00
2003	\$ -
2004	\$ 200,000.00
2005	\$ -
2006	\$ 200,000.00
2007	\$ -
2008	\$ 200,000.00
2009	\$ -
2010	\$ 200,000.00
2011	\$ -
2012	\$ 200,000.00
2013	\$ -
2014	\$ 200,000.00
2015	\$ -

Public Meeting Protocols

Memo sent to staff 11/26/2013



SAMPLE PUBLIC MEETING NOTIFICATION (for ADA Compliance)

PUBLIC INPUT MEETING

Reason for meeting:

Date:

Time:

Location:

Please add the following language to these notifications

"Anyone who requires an auxiliary aid or service for effective communication, or a modification of policies or procedures to participate in (add title to program), should contact Michelle Wrightson, ADA Liaison, Department of Public Works, 111 W. Chesapeake Avenue, Room 307, Towson, Maryland 21204 at 410-887-3861 or by email to mwrightson@baltimorecountymd.gov as soon as possible but no later than ten (10) work days before (put in activity location, time, and name)."

Design Criteria and Details

Sidewalks and Pedestrian Ramps (from the 2010 Baltimore County Design Manual)

Sidewalks are required in the urban areas of the County, and may be required in rural centers. Required sidewalks may be waived by DPW upon demonstration that no foot traffic will need to be accommodated by the proposed use, or to connect the proposed use to the surrounding area. However, if the construction of a required sidewalk is waived, a graded, unobstructed right-of-way area for the sidewalk and street trees must still be provided, in the event the sidewalk is needed in the future. Use of this area for other purposes, including placement of outside utilities and/or County traffic appurtenances shall be subject to review for purposes of maintaining the sidewalk area for its intended purpose.

Areas of sidewalk disturbed by construction shall be repaired by the agency responsible for the disturbance in a timely manner, in accordance with the County Standard Details and Specifications, and applicable permit requirements.

Sidewalks shall usually be detailed to be built "by others," since they normally are not a part of the traffic way contract. Sidewalk design shall be coordinated with DPW. New sidewalks shall be 5 feet wide, except as otherwise directed by DPW. Replacement for existing 4 foot wide sidewalks shall be 4 feet wide except where additional right-of-way is being acquired by the County to expand sidewalk width to 5 feet. The designer is referred to "Guide for the Planning, Design and Operation of Pedestrian Facilities" published by AASHTO.

All sidewalks that intersect with traffic ways, curbed driveways and crosswalks shall have pedestrian ramps for accessibility in accordance with ADA regulations. Consideration shall be given to the location of existing and proposed power poles, fire hydrants, street light and traffic signal supports and hardware and storm drainage inlets when locating proposed pedestrian ramps. Minimum ADA clearances shall be observed, and DPW shall be advised of the need for any additional right-of-way to provide these clearances at the earliest possible time.

ADA criteria and references are included within the many standard sidewalk details used within the County Design manual and Standard Details for Construction. As part of our ongoing evaluation of ADA criteria pertaining to the Public Rights-of-way, staff (with the assistance of consultants) will be reviewing the many applicable details and standards and making changes as necessary

The goal for this activity is the end of 2015.

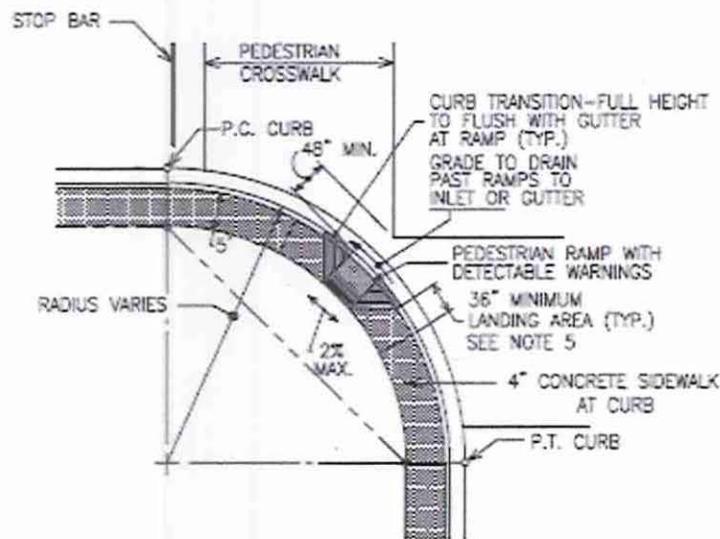
Signal Design Standards

Baltimore County follows Maryland State Highway Administration guidelines adjusting for any County amendments and the Manual of Uniform Traffic Control Devices (MUTCD).

Accessible pedestrian signals (APS) are considered when requested for retrofit intersection improvements

All new signals will have APS devices installed.

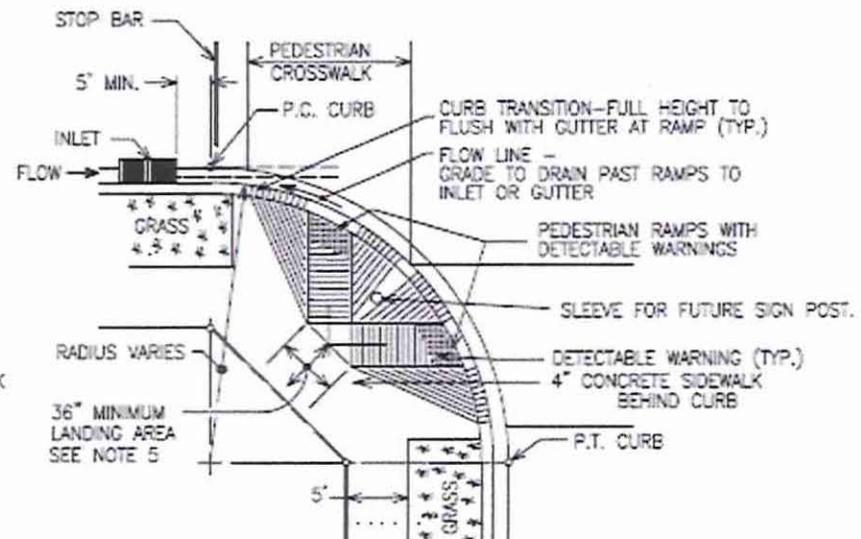
See Design Plate R-T and Standard Details R-36A through R-36E on subsequent pages.



MINOR STREETS OR AS DIRECTED

NOTES :

1. PEDESTRIAN RAMPS SHALL BE PROVIDED WHEREVER A PUBLIC SIDEWALK CROSSES A CURB. ALIGN RAMPS AND LEVEL AREAS AS MUCH AS POSSIBLE WITH THE CENTER LINES OF APPROACHING SIDEWALKS.
2. MINIMUM 36" CLEAR SIDEWALK AND RAMP REQUIRED AROUND ALL OBSTRUCTIONS. REMOVE OR RELOCATE PROTRUDING OBJECTS, EXISTING HYDRANTS, POLES, INLETS AND OTHER OBSTRUCTIONS WITHIN 36" MINIMUM SPACE WHEREVER PRACTICAL. AVOID ANY PROTRUSIONS OVER 4" (12" IF ON POLE). PEDESTRIAN RAMPS REQUIRE SPECIAL DESIGN AT SUMPS TO AVOID RAMP FLOODING AND SILTATION FOLLOWING STORMS.
3. NO SLOPE SHALL EXCEED 8.3% (1 VERTICAL TO 12 HORIZONTAL) ON RAMP (1 TO 10 ON FLARES).
4. MINIMUM RAMP WIDTH = 36" EXCLUSIVE OF FLARED SIDES.
5. LANDING AREAS SHALL HAVE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS. LANDING AREA ON MINOR STREETS MAY



THOROUGHFARES & COLLECTOR ROADS
(PREFERRED CONFIGURATION)

6. BE LOCATED AS SHOWN FOR THOROUGHFARES IF SIDEWALK IS SUFFICIENTLY BEHIND CURB TO ALLOW 36" MINIMUM LANDING WIDTH AT THIS LOCATION.
7. USE OF A CURB RETURN IN LIEU OF FLARES IS ALLOWED ONLY WHERE THE CURB RETURN WILL BE PARALLEL TO PEDESTRIAN FLOW.
8. ALL PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF MUTCD.
9. SIDEWALK RAMPS, FLARES & TRANSITION AREAS ADJACENT TO DEPRESSED CURB SHALL BE 7" THICK CONCRETE. SIDEWALK BEHIND FULL HEIGHT CURB SHALL BE 4" THICK CONCRETE, EXCEPT WHERE ENGINEER DETERMINES THAT SIDEWALK COULD BE SUBJECT TO TRAFFIC LOADING REQUIRING 7" THICKNESS.



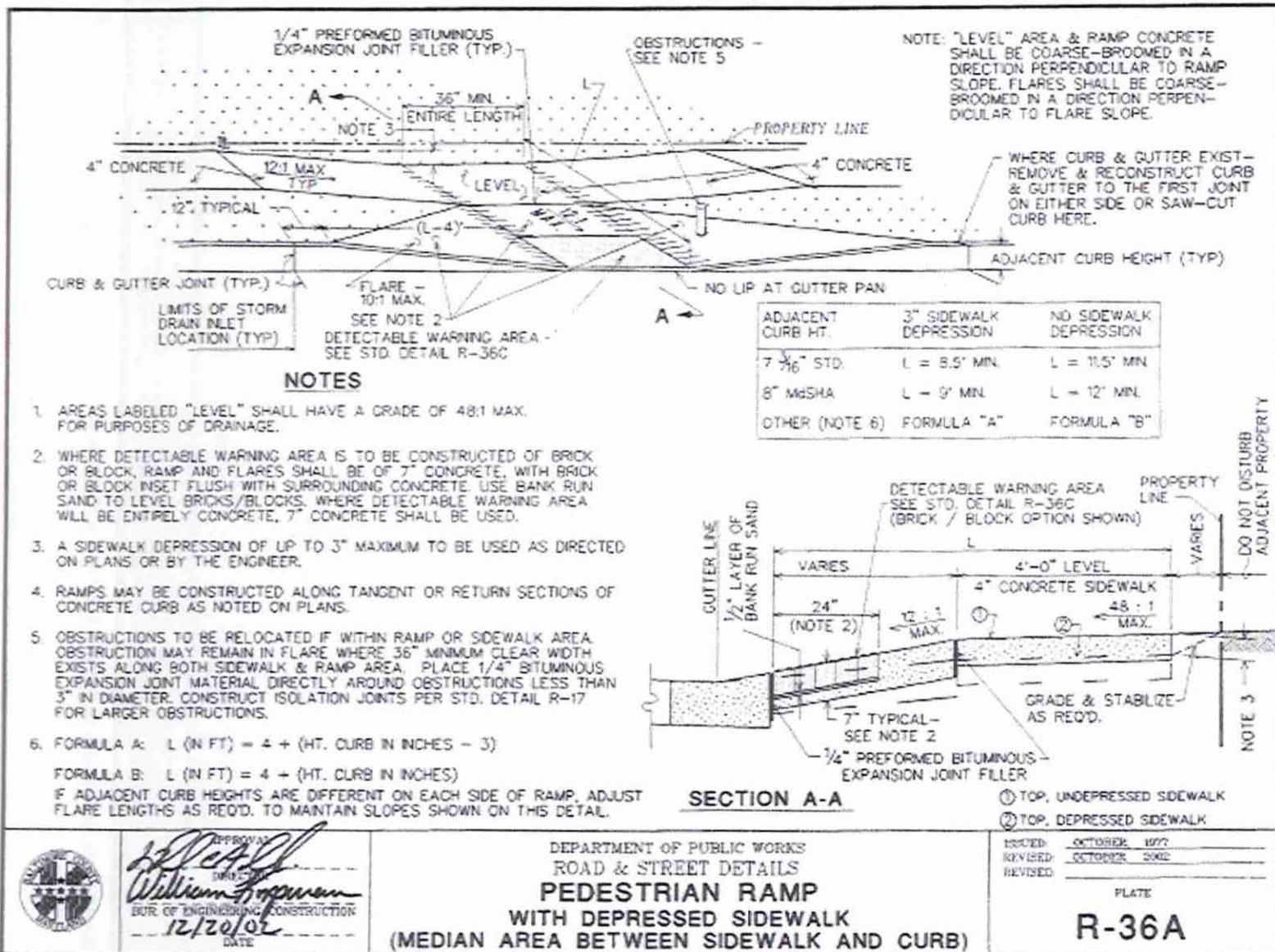
DEPARTMENT OF PUBLIC WORKS
ROAD & STREET DESIGN
PEDESTRIAN RAMPS

ISSUED: OCTOBER, 2002
REVISED: _____
REVISED: _____

PLATE
R-T

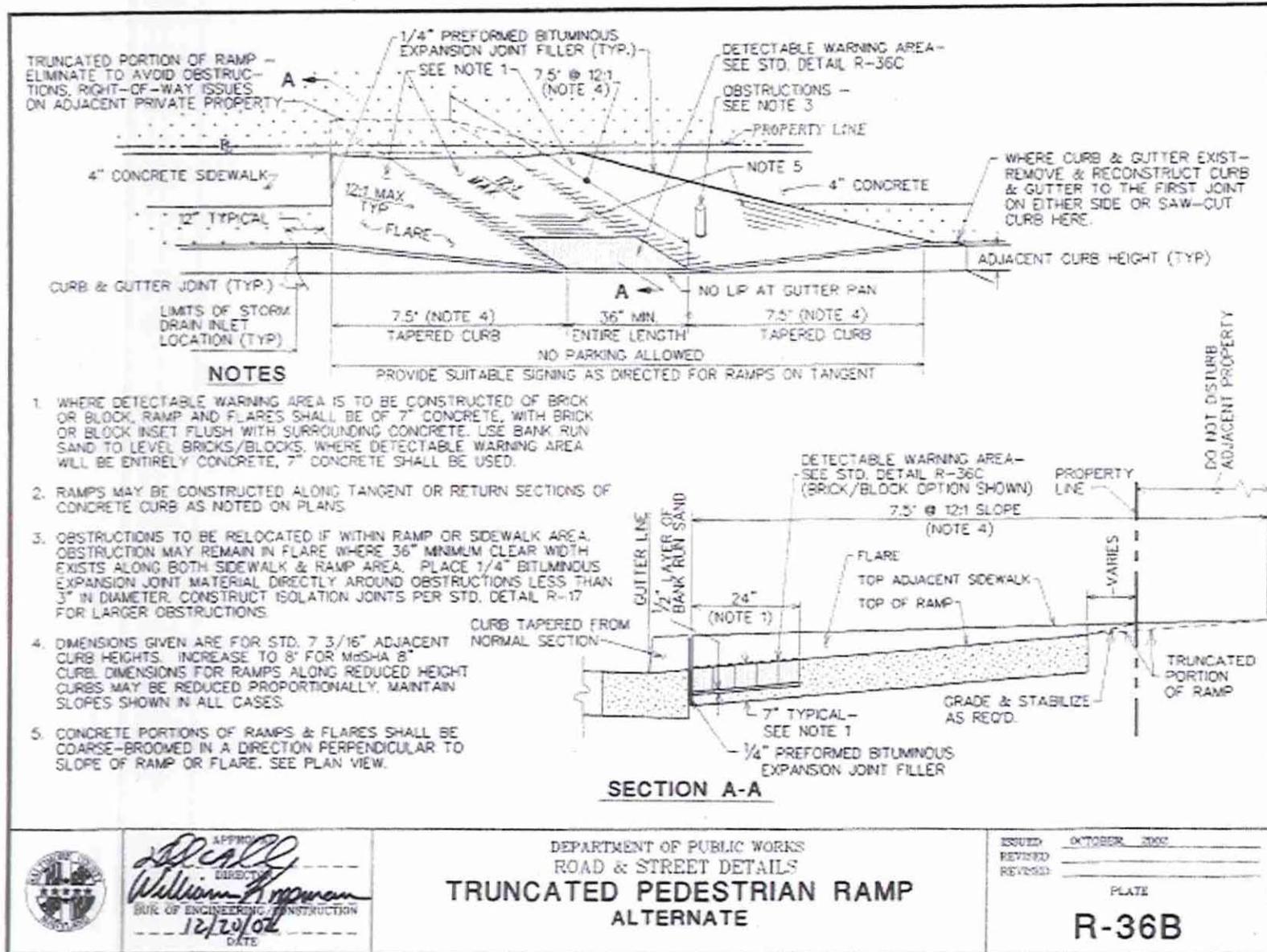
7/27/2008 8:11 AM

R-1206



APPROVAL
William J. Foy
 DIRECTOR
 BUR. OF ENGINEERING & CONSTRUCTION
 12/20/02
 DATE

DEPARTMENT OF PUBLIC WORKS
 ROAD & STREET DETAILS
PEDESTRIAN RAMP
WITH DEPRESSED SIDEWALK
 (MEDIAN AREA BETWEEN SIDEWALK AND CURB)

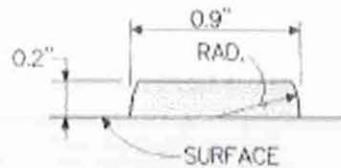


APPROVED
William K. ...
 DIRECTOR
 BUREAU OF ENGINEERING & CONSTRUCTION
 DATE: 12/29/02

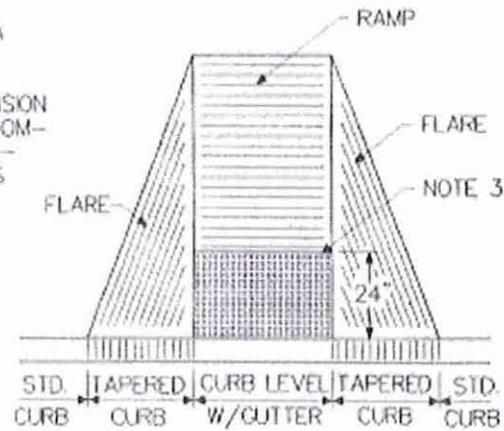
DEPARTMENT OF PUBLIC WORKS
 ROAD & STREET DETAILS
TRUNCATED PEDESTRIAN RAMP
 ALTERNATE

ISSUED: OCTOBER, 2000
 REVISED:
 REVISED:
 PLATE
R-36B

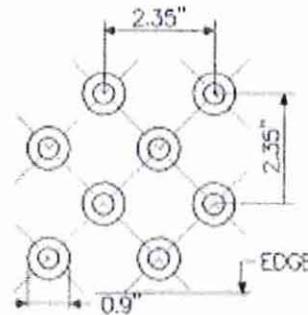
1. A DETECTABLE WARNING IS A STANDARDIZED SURFACE FEATURE BUILT IN OR APPLIED TO WALKING SURFACES (OR OTHER ELEMENTS) TO WARN VISUALLY IMPAIRED PEOPLE OF HAZARDS ON A CIRCULATION PATH.
2. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH NOMINAL DIMENSIONS AS SHOWN AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT - DARK OR DARK - LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE INTEGRAL WITH THE WALKING SURFACE.
3. DETECTABLE WARNING AREAS SHALL EXTEND 24" BACK FROM THE REAR OF CURB WITHIN THE RAMP ITSELF. THEY SHALL NOT BE USED ELSEWHERE ON A PEDESTRIAN RAMP.
4. DETECTABLE WARNINGS MAY BE APPLIED USING BRICK OR BLOCK PAVERS OR EXTRUDED TINTED CONCRETE.
5. PAVERS MAY BE SPLAYED AS REQUIRED TO MATCH A CURVED CURB RADIUS.
6. COMMERCIAL PRODUCTS MAY VARY IN SPACING, DIMENSION AND CONFIGURATION OF DOMES. CERTIFICATION OF COMPLIANCE WITH CURRENT ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINE REQUIREMENTS) SHALL BE REQUIRED OF ALL PRODUCTS BEFORE INSTALLATION.
7. MANUFACTURED PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



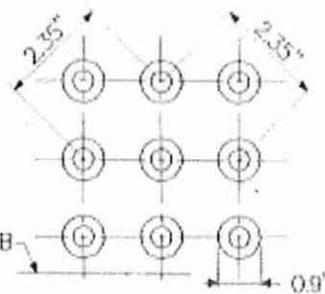
**PROFILE VIEW
SINGLE
TRUNCATED DOME**



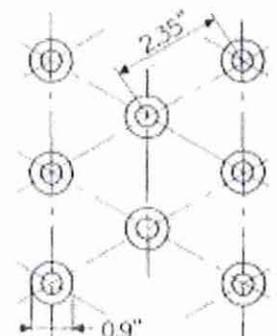
**LOCATION OF
DETECTABLE WARNINGS**



**SQUARE PATTERN
DIAGONAL ALIGNMENT**

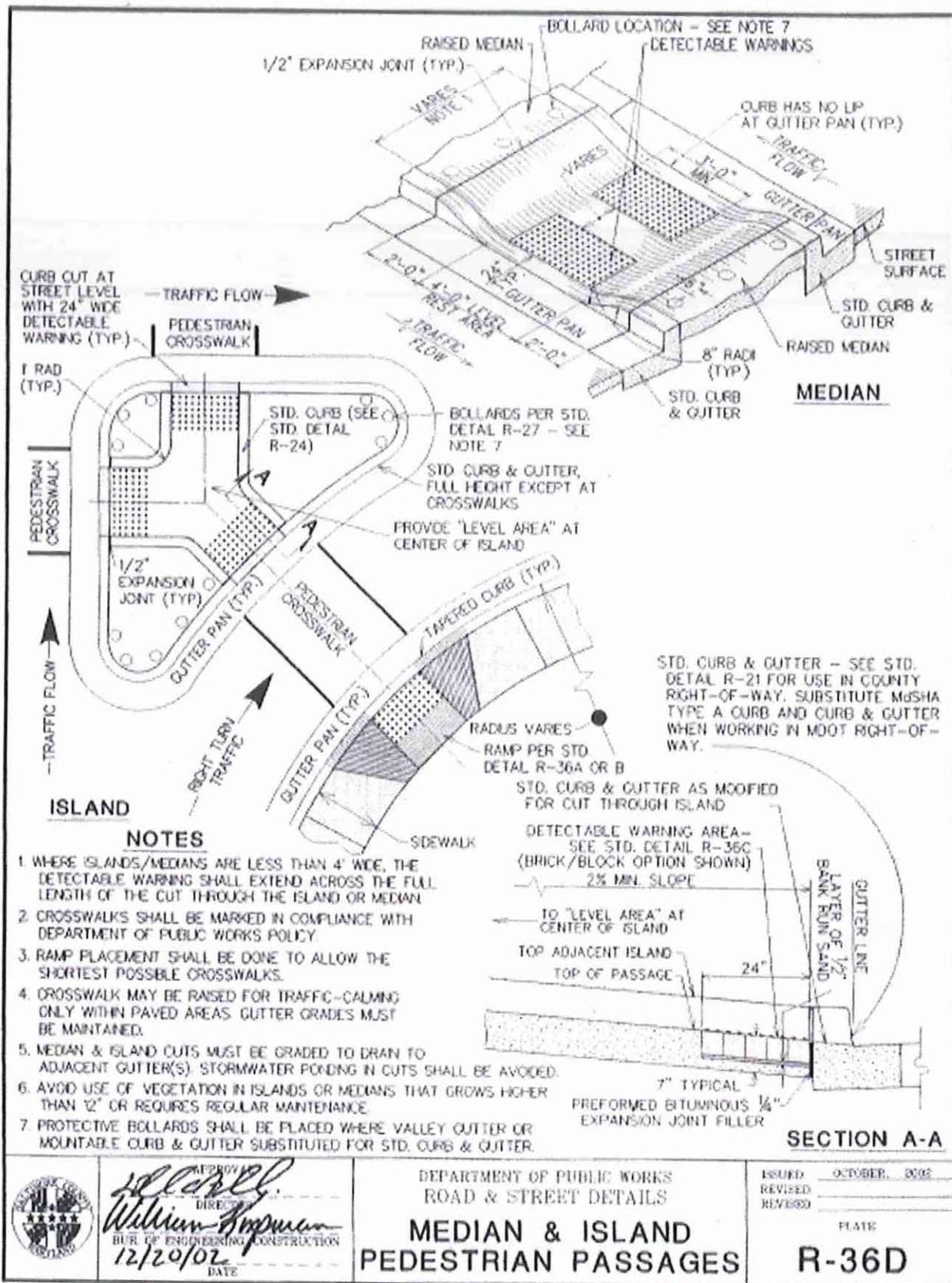


**SQUARE PATTERN
PARALLEL ALIGNMENT
(PREFERRED)**



TRIANGULAR PATTERN

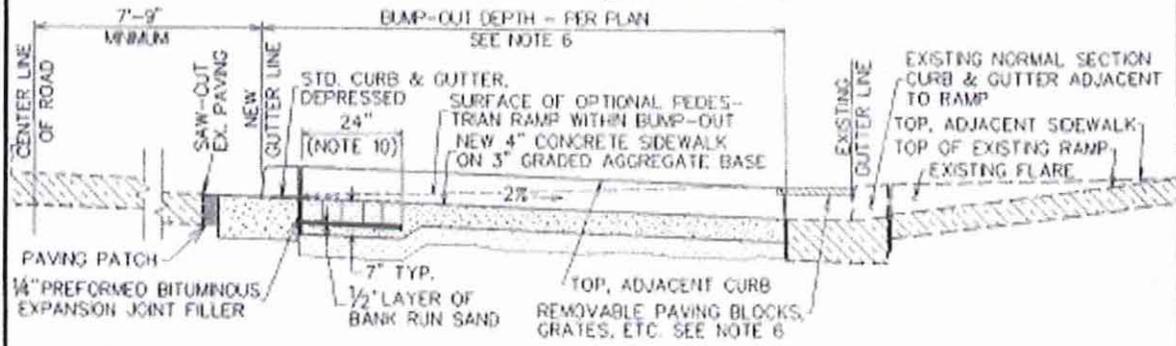
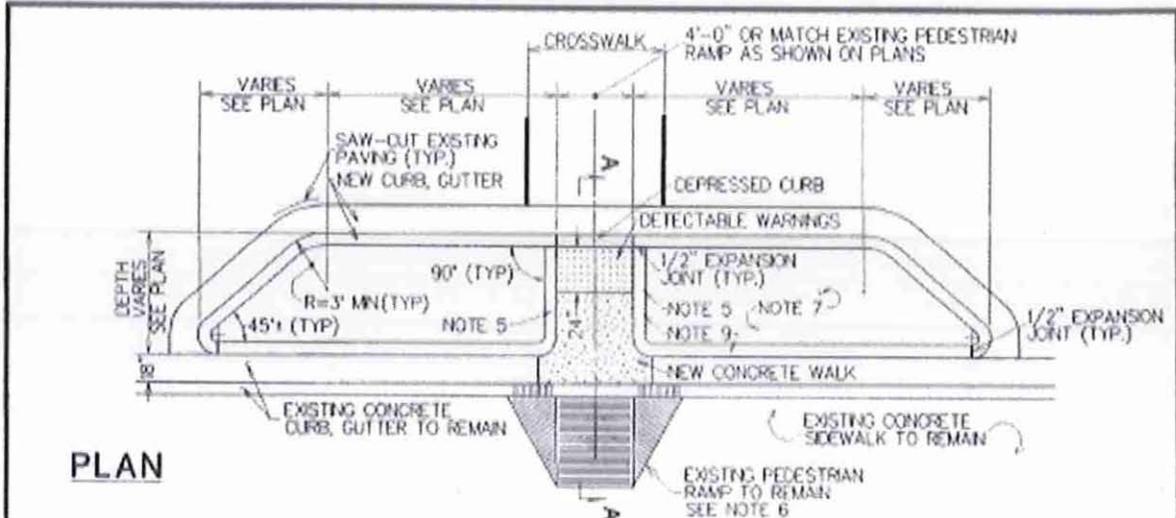
	<p style="text-align: center;">APPROVED <i>William Kopman</i> DIRECTOR BUREAU OF ENGINEERING CONSTRUCTION 12/20/02 DATE</p>	<p>DEPARTMENT OF PUBLIC WORKS STANDARD ROAD & STREET DETAILS</p> <p>DETECTABLE WARNINGS FOR USE ON PEDESTRIAN RAMPS</p>	<p>ISSUED: OCTOBER 2003 REVISED: _____ REVISED: _____ PLATE R-36C</p>
--	---	--	--



APPROVED
William Johnson
 DIRECTOR
 BUREAU OF ENGINEERING CONSTRUCTION
 12/20/02
 DATE

DEPARTMENT OF PUBLIC WORKS
 ROAD & STREET DETAILS
**MEDIAN & ISLAND
 PEDESTRIAN PASSAGES**

ISSUED OCTOBER, 2002
 REVISED
 REVERSED
 PLATE
R-36D



NOTES

1. ALL CURB RADI ARE 1'-0" EXCEPT AS OTHERWISE NOTED.
2. CROSSWALKS SHALL BE MARKED IN COMPLIANCE WITH DEPARTMENT OF PUBLIC WORKS POLICY. CROSSWALK SHALL BE CENTERED ON CENTER OF PEDESTRIAN RAMP.
3. ALIGN & PLACE RAMP TO PROVIDE THE SHORTEST POSSIBLE CROSSWALK LENGTH.
4. STORM WATER FLOW IN EXISTING GUTTERS SHALL BE MAINTAINED, OR AN APPROPRIATELY SIZED INLET DEVICE SHALL BE PLACED UPSTREAM. EXISTING GUTTER MAY BE MODIFIED OR ELIMINATED ONLY WITH APPROVAL OF STORM DRAIN DESIGN, BUREAU OF ENGINEERING & CONSTRUCTION.
5. CURB TO BE PARALLEL TO CENTER LINE OF EXISTING PEDESTRIAN RAMP.
6. IF THERE IS NO EXISTING PEDESTRIAN RAMP, A RAMP MAY BE CONSTRUCTED WITHIN THE BUMP-OUT, RATHER THAN WITHIN THE EXISTING SIDEWALK AREA. IN THIS CASE, DEPTH IS 7'-3" MINIMUM, AND GUTTER MUST BE SPANNED ALONG ENTIRE LENGTH OF BUMP-OUT WITH REMOVABLE PAVING BLOCKS, GRATES OR ANOTHER EQUIVALENT STRUCTURE. SUPPORTS FOR THESE GUTTER COVERS SHALL BE IN ACCORDANCE WITH PLANS.
7. CONCRETE PAVERS OR VEGETATION MAY BE PLACED WITHIN RAISED AREAS OF BUMP-OUT. VEGETATION USED SHALL BE LOW MAINTENANCE AND SHALL BE LIMITED TO A HEIGHT OF 12 INCHES OR LESS.
8. PROTECTIVE BOLLARDS, WARNING SIGNS AND REFLECTORS SHALL BE INSTALLED IN ACCORDANCE WITH PLANS APPROVED BY THE BUREAU OF TRAFFIC ENGINEERING.
9. USE TYPE A CURB (SEE STD. DETAIL R-24) ALONG EDGE OF EXISTING GUTTER AND NEXT TO NEW CONCRETE WALK.
10. DETECTABLE WARNING AREA-SEE STANDARD DETAIL R-36C (BRICK/BLOCK OPTION SHOWN).

	<p style="text-align: center;">APPROVED</p> <p style="text-align: center;"><i>William Spuman</i> DIRECTOR</p> <p style="text-align: center;">DATE OF ENGINEERING/CONSTRUCTION 12/20/02 DATE</p>	<p>DEPARTMENT OF PUBLIC WORKS ROAD & STREET DETAILS</p> <p>PEDESTRIAN BUMP-OUT</p>	<p>ISSUED: OCTOBER, 2002</p> <p>REVISED: _____</p> <p>REVISION: _____</p> <p style="text-align: center;">PLATE</p> <p style="text-align: center;">R-36E</p>
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Appendix

