

DELHI CHARTER TOWNSHIP
DEPARTMENT OF COMMUNITY DEVELOPMENT
2074 AURELIUS ROAD HOLT MI 48842
PH: (517) 694-8281 FX: (517) 694-1289

Site Plan No:	_____
Fee:	_____
Rec'd:	_____

SITE PLAN REVIEW APPLICATION

Applicant: _____

Property Owner: _____
(If Different than Applicant)

Address: _____

Address: _____

Ph: _____ Fx: _____

Ph: _____ Fx: _____

E-mail: _____

E-mail: _____

Property Address: _____ Parcel No: _____ Zoning District: _____

Present Use: _____ Proposed Use: _____

Parcel Area (Acres): _____ Parcel Dimensions: _____ Building Area (Sq. Ft): _____ Building Dimensions: _____

Residential Development Details:

Type of Dwelling Units: _____

No. of Dwelling Units: _____

Building Size (Range): _____

Development Type (i.e. Plat, Condo): _____ No. of Phases: _____

Other Development Details:

Estimated No. of Employees: _____

Estimated Traffic Generation: _____

Expected Hours of Operation: _____

No. of Parking Spaces: _____

All Development:

Estimated Construction Start Date: _____ Estimated Completion Date: _____

Do you have any other reviews / appeals / actions pending before Delhi Charter Township or any other relevant agency? _____

If yes, please explain: _____

Did you have a preliminary meeting with the Director of Community Development prior to submitting this application? _____

If yes, Date of meeting: _____

How does this project specifically achieve the goals and objectives of the Delhi Charter Township Master Plan?

Submit building elevations sufficient to demonstrate architectural and proposed building materials.

I hereby grant Delhi Charter Township personnel, involved with the review of this request, permission for reasonable entry onto the above property for investigation specifically related to this request.

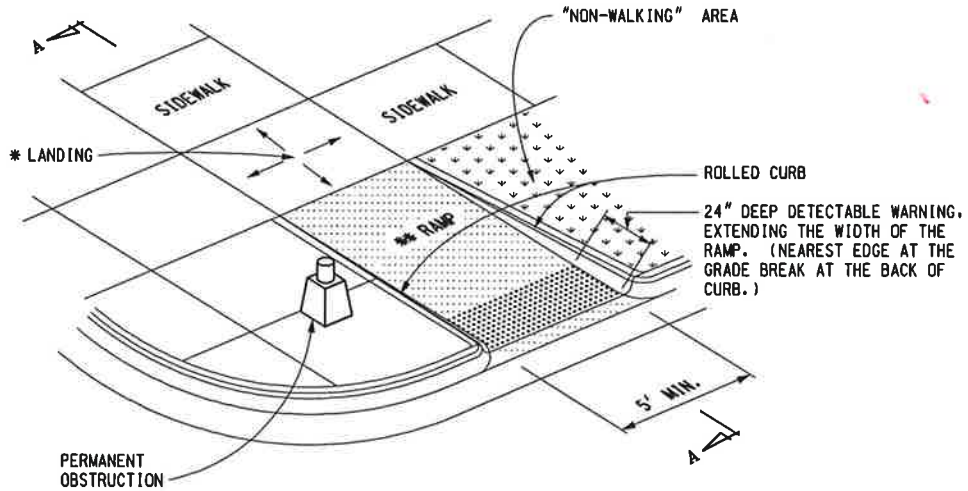
Applicant's Signature: _____ **Date:** _____

Owner's Signature: _____ **Date:** _____

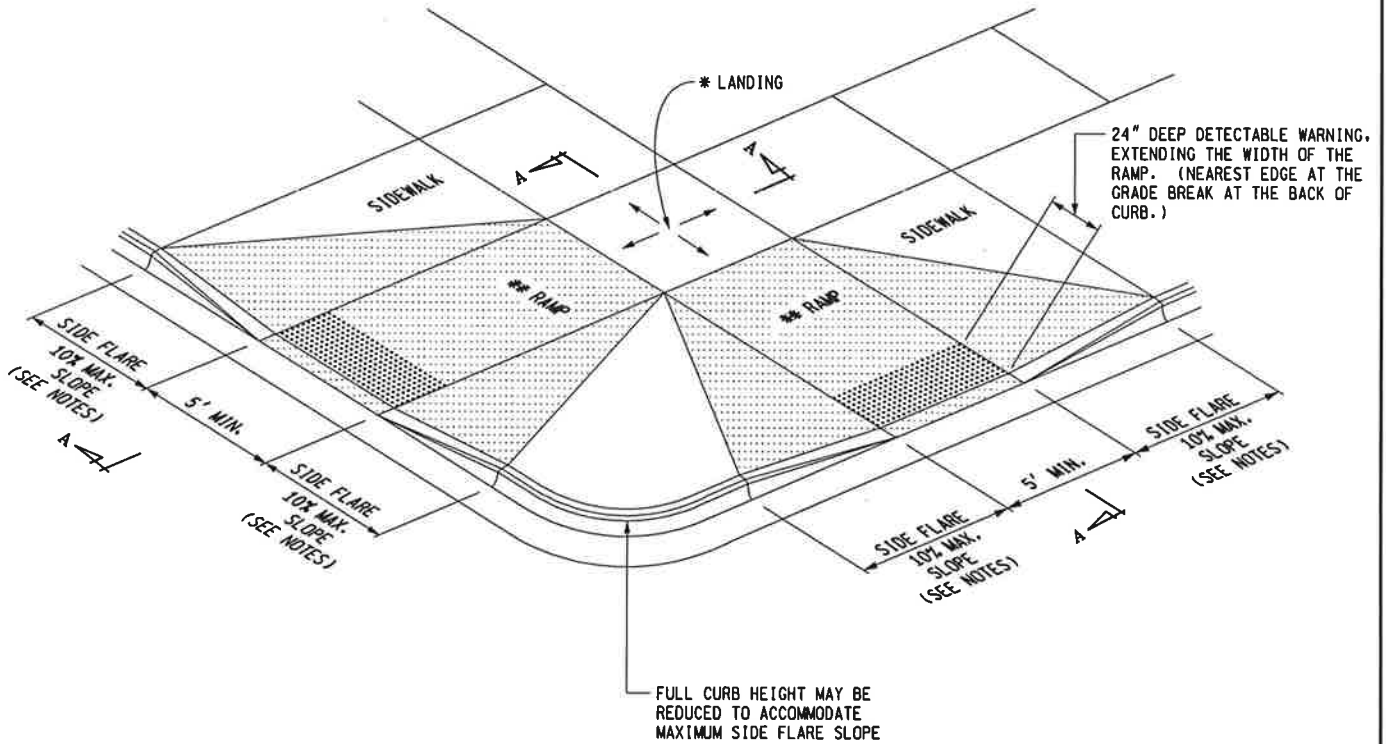
By signing above, as the property owner, I hereby grant permission for the applicant listed to request site plan review for the project presented in this application.

* MAXIMUM LANDING SLOPE IN ANY DIRECTION IS 2.0%. MINIMUM LANDING DIMENSIONS 5' x 5'.

** MAXIMUM CROSS SLOPE ON RAMP IS THE SAME AS THAT FOR SIDEWALK (2.0%). RUNNING SLOPE 5% - 7% (8.3% MAXIMUM) SEE NOTES.



SIDEWALK RAMP TYPE R
(ROLLED SIDES)



SIDEWALK RAMP TYPE F
(FLARED SIDES, TWO RAMPS SHOWN)



PREPARED BY
DESIGN DIVISION

DRAWN BY: B.L.T.

CHECKED BY: W.K.P.

DEPARTMENT DIRECTOR
Kirk T. Stuedle

APPROVED BY: *John C. Friend*
ENGINEER OF DELIVERY

APPROVED BY: *John P. Pochel*
ENGINEER OF DEVELOPMENT

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

**SIDEWALK RAMP AND
DETECTABLE WARNING DETAILS**

10-21-2008
F.H.W.A. APPROVAL

6-20-2008
PLAN DATE

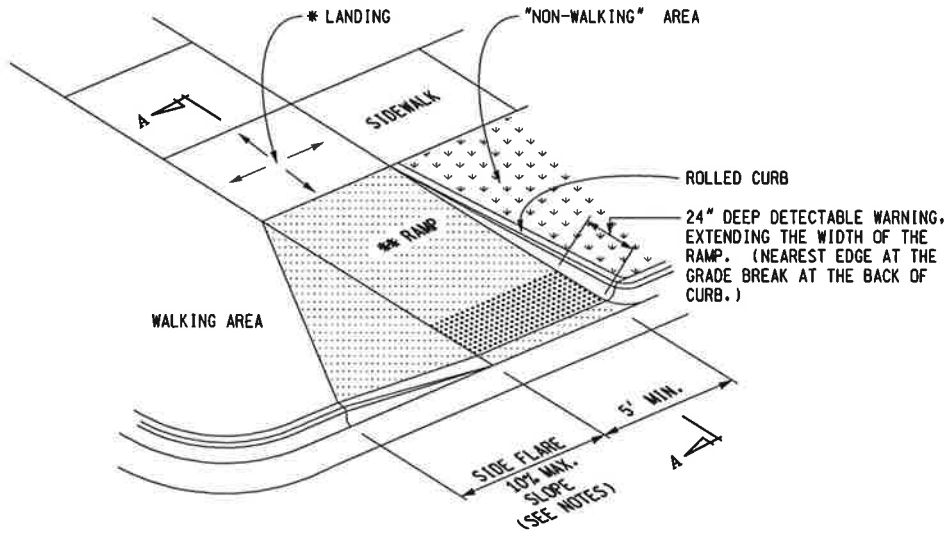
R-28-F

SHEET
1 OF 7

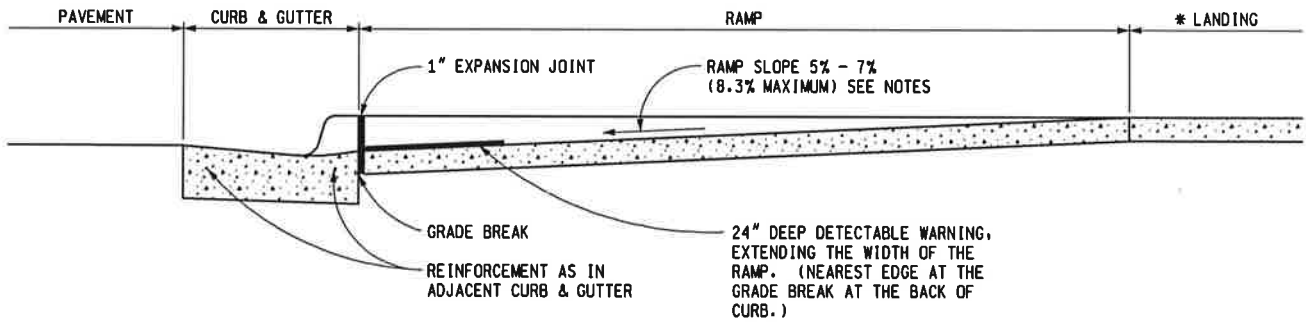
NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL SIGNED COPY APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE

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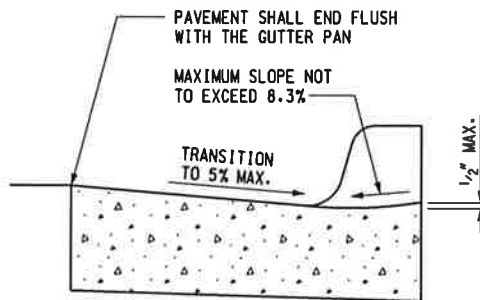
** MAXIMUM CROSS SLOPE ON RAMP IS THE SAME AS THAT FOR SIDEWALK (2.0%). RUNNING SLOPE 5% - 7% (8.3% MAXIMUM) SEE NOTES.



SIDEWALK RAMP TYPE RF
(ROLLED / FLARED SIDES)



SECTION A-A



SECTION THROUGH CURB CUT
(TYPICAL ALL RAMP TYPES)

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

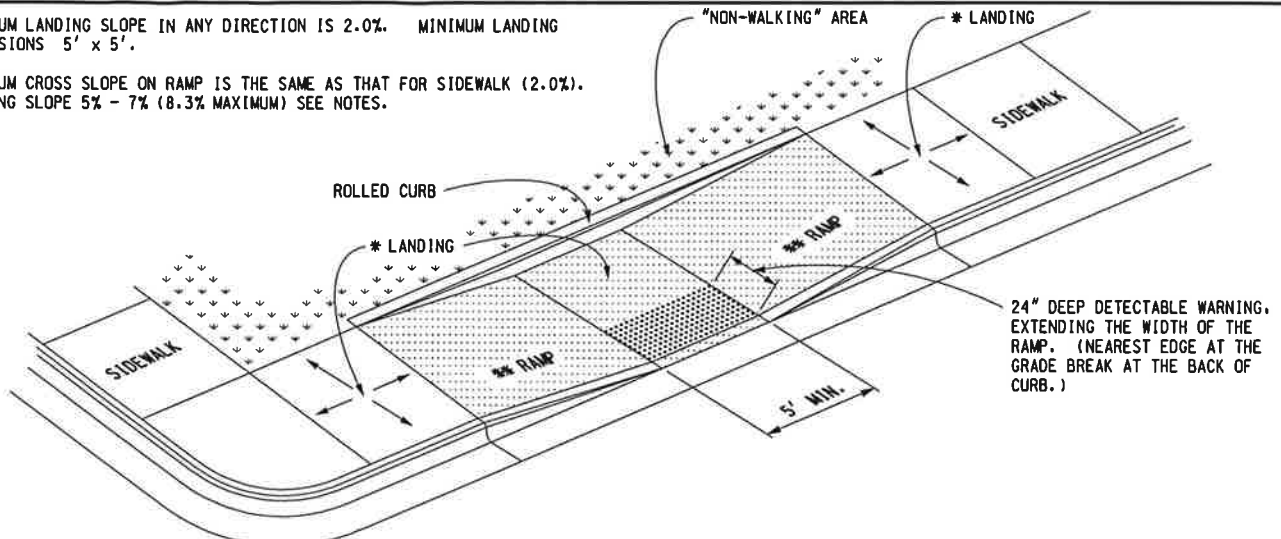
**SIDEWALK RAMP AND
DETECTABLE WARNING DETAILS**

10-21-2008 F.H.W.A. APPROVAL	6-20-2008 PLAN DATE	R-28-F	SHEET 2 OF 7
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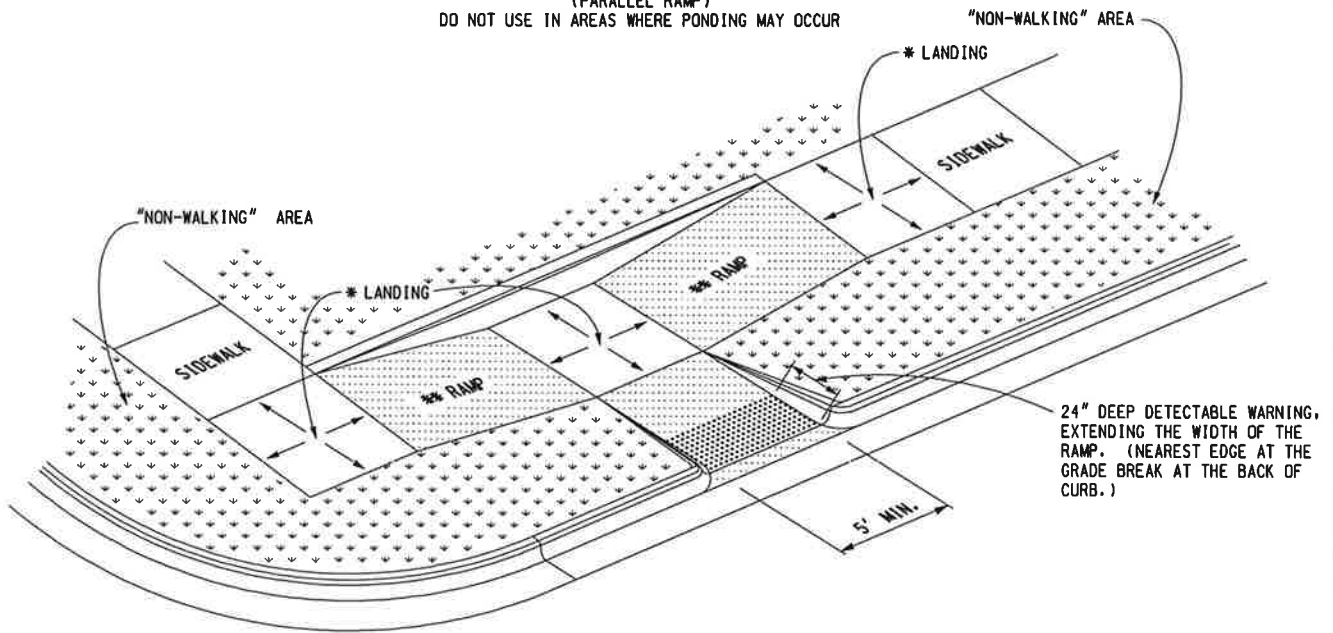
** MAXIMUM CROSS SLOPE ON RAMP IS THE SAME AS THAT FOR SIDEWALK (2.0%). RUNNING SLOPE 5% - 7% (8.3% MAXIMUM) SEE NOTES.



SIDEWALK RAMP TYPE P

(PARALLEL RAMP)

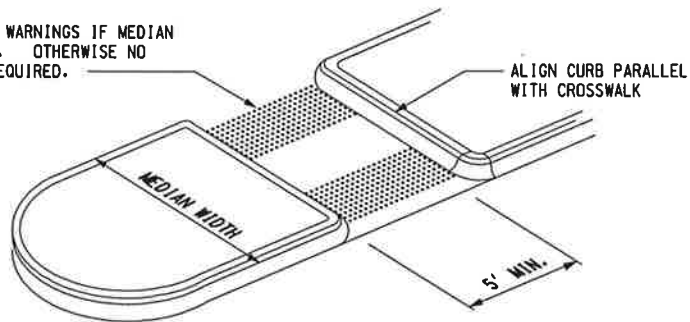
DO NOT USE IN AREAS WHERE PONDING MAY OCCUR



SIDEWALK RAMP TYPE C

(COMBINATION RAMP)

USE 24" DEEP DETECTABLE WARNINGS IF MEDIAN WIDTH IS AT LEAST 6'-0". OTHERWISE NO DETECTABLE WARNING IS REQUIRED.



SIDEWALK RAMP TYPE M

(MEDIAN ISLAND)

MICHIGAN DEPARTMENT OF TRANSPORTATION
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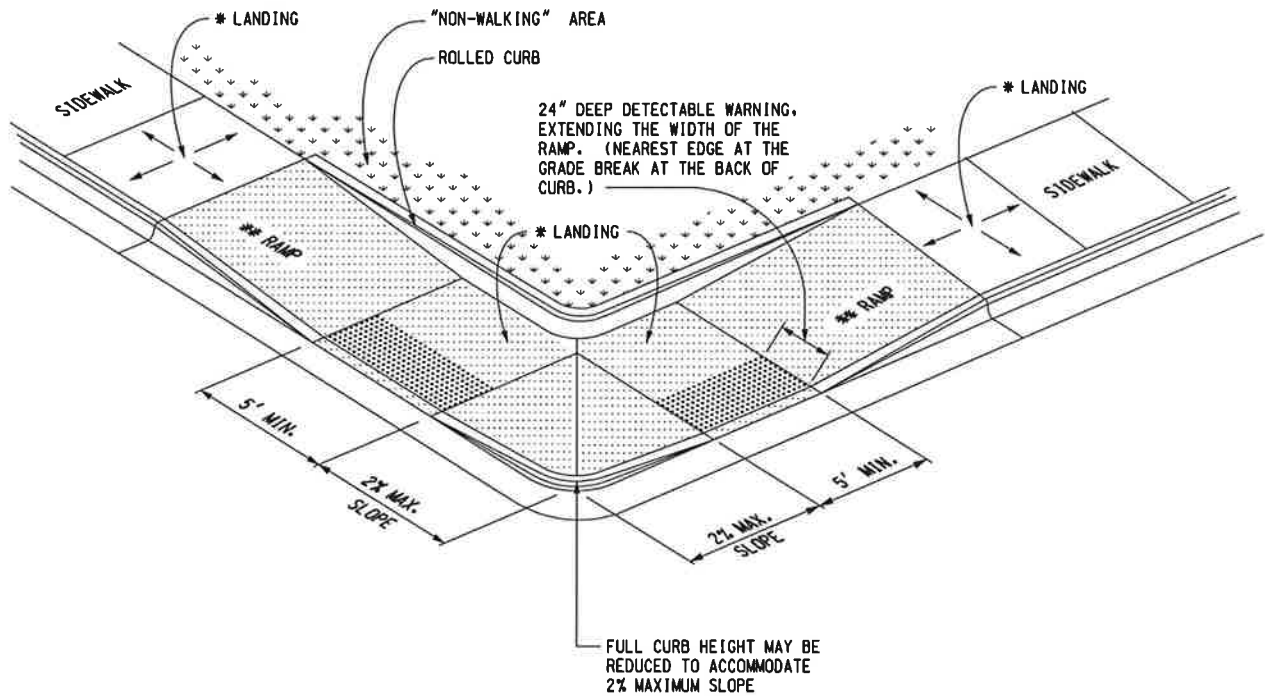
6-20-2008
PLAN DATE

R-28-F

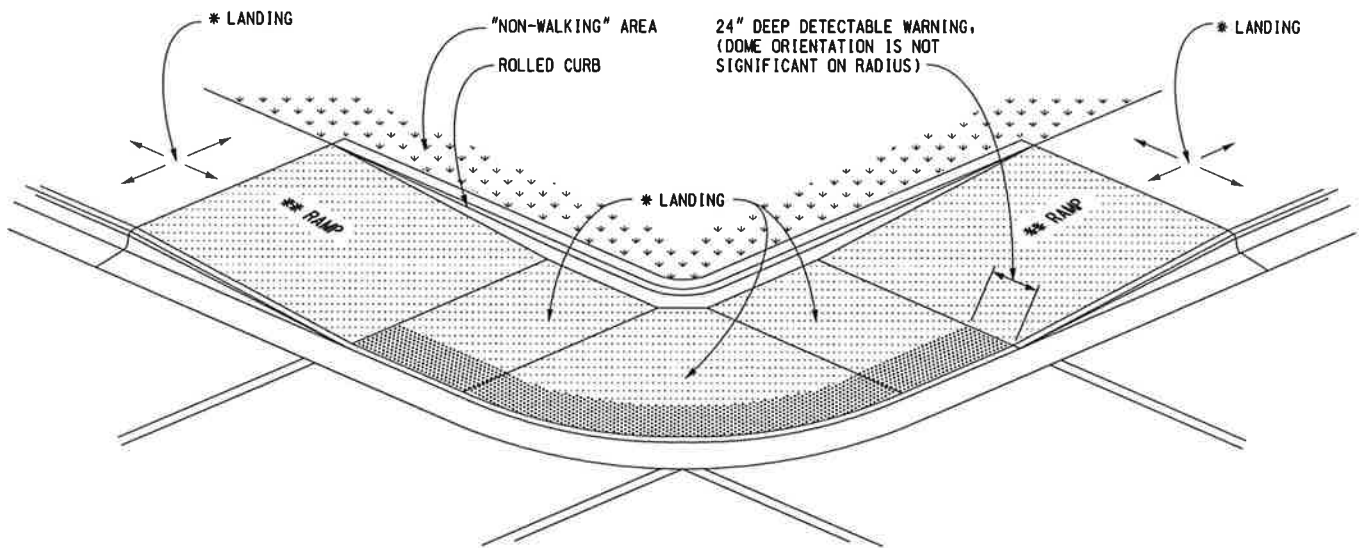
SHEET
3 OF 7

* MAXIMUM LANDING SLOPE IN ANY DIRECTION IS 2.0%. MINIMUM LANDING DIMENSIONS 5' x 5'.

** MAXIMUM CROSS SLOPE ON RAMP IS THE SAME AS THAT FOR SIDEWALK (2.0%). RUNNING SLOPE 5% - 7% (8.3% MAXIMUM) SEE NOTES.



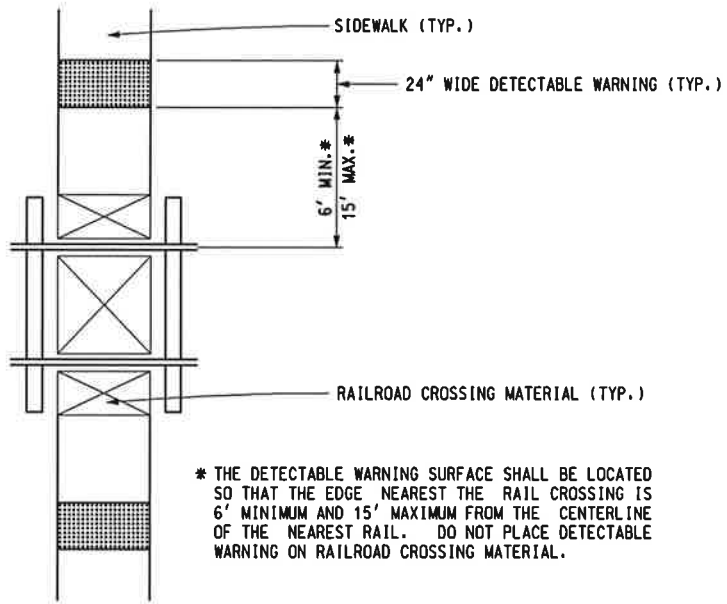
SIDEWALK RAMP TYPE PF
(PARALLEL WITH FLARE)



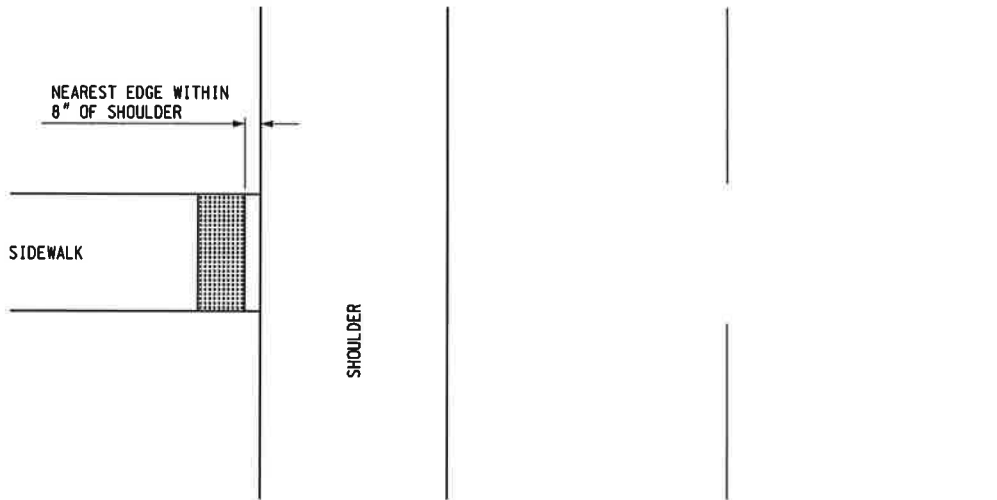
SIDEWALK RAMP TYPE D
(DEPRESSED CORNER)

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR			
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS			
10-21-2008 F.H.W.A. APPROVAL	6-20-2008 PLAN DATE	R-28-F	SHEET 4 OF 7

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SIDEWALK RAMP TYPE RR
(DETECTABLE WARNING AT RAILROAD CROSSING)



SIDEWALK RAMP TYPE FS
(DETECTABLE WARNING AT FLUSH SHOULDER)

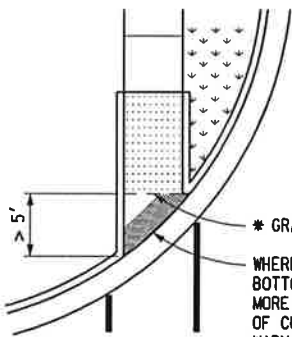
MICHIGAN DEPARTMENT OF TRANSPORTATION
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**SIDEWALK RAMP AND
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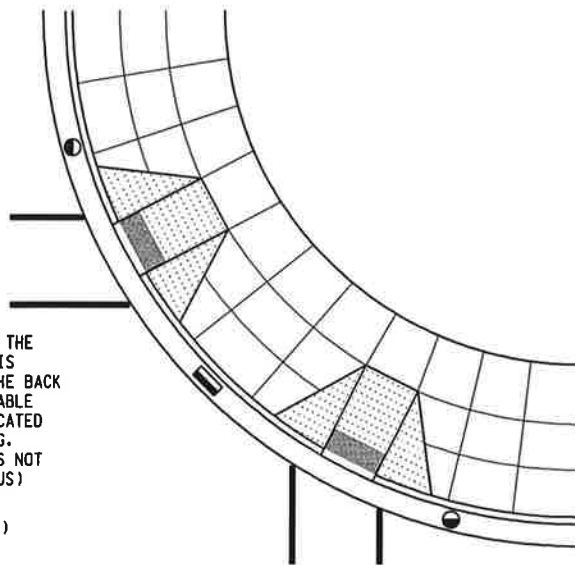
LEGEND

	SIDEWALK RAMP
	"NON-WALKING" AREA
	CROSSWALK MARKING
	PREFERRED LOCATION OF DRAINAGE INLET (TYP.)
	ALTERNATE LOCATION OF DRAINAGE INLET (TYP.)

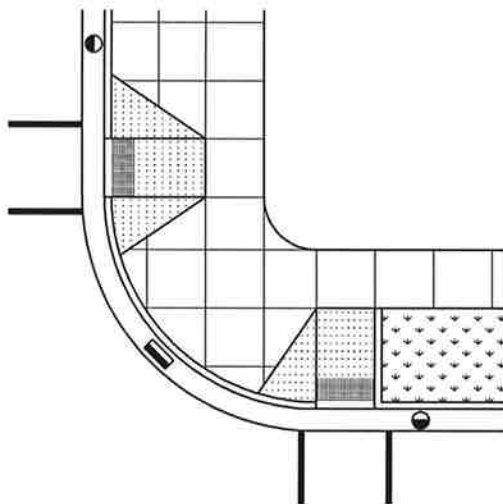


* GRADE BREAK
 WHERE EITHER END OF THE BOTTOM GRADE BREAK IS MORE THAN 5' FROM THE BACK OF CURB, THE DETECTABLE WARNING SHALL BE LOCATED ON THE LOWER LANDING. (DOME ORIENTATION IS NOT SIGNIFICANT ON RADIUS)

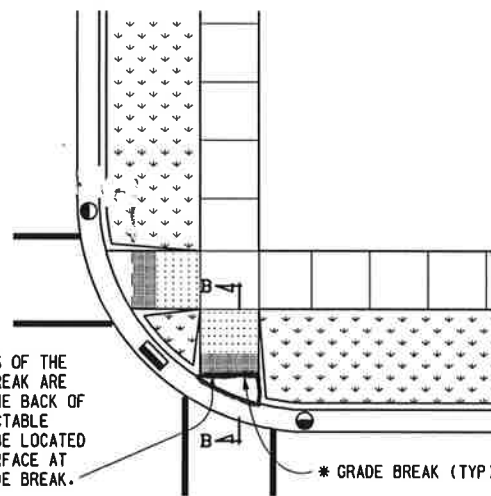
SIDEWALK RAMP LOCATED IN RADIUS (TYPE R SHOWN)
 (GRADE BREAK GREATER THAN 5')



SIDEWALK RAMP PERPENDICULAR TO RADIAL CURB (TYPE F SHOWN)
 (USE WITH RADIAL CURB WHEN THE CROSSWALK AND SIDEWALK RAMP ARE NOT ALIGNED)



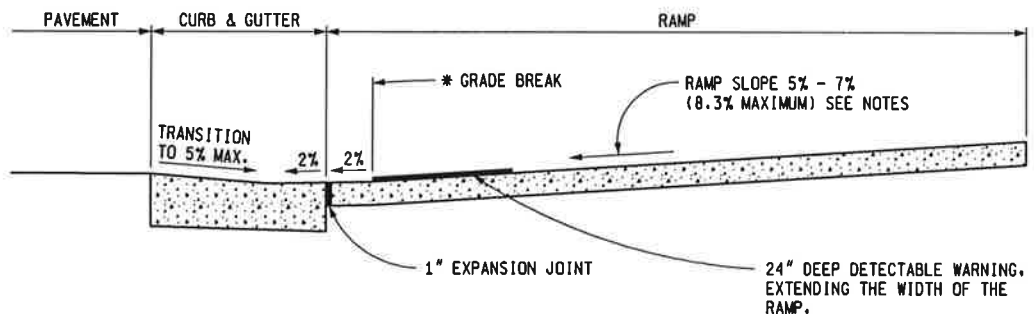
SIDEWALK RAMP PERPENDICULAR TO TANGENT CURB
 (TYPE F AND TYPE RF SHOWN)



SIDEWALK RAMP LOCATED IN RADIUS (TYPE R SHOWN)
 (GRADE BREAK LESS THAN 5')

WHERE BOTH ENDS OF THE BOTTOM GRADE BREAK ARE WITHIN 5' OF THE BACK OF CURB, THE DETECTABLE WARNING SHALL BE LOCATED ON THE RAMP SURFACE AT THE BOTTOM GRADE BREAK.

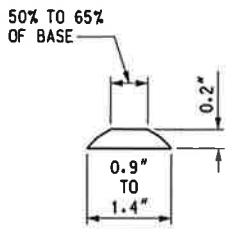
* GRADE BREAKS AT THE TOP AND BOTTOM OF PERPENDICULAR CURB RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF RAMP RUN. AT LEAST ONE END OF THE BOTTOM GRADE BREAK SHALL BE AT THE BACK OF CURB.



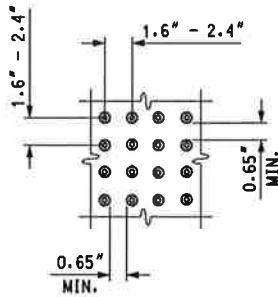
**SECTION B-B
 SIDEWALK RAMP ORIENTATION**

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
**SIDEWALK RAMP AND
 DETECTABLE WARNING DETAILS**

10-21-2008 F.H.W.A. APPROVAL	6-20-2008 PLAN DATE	R-28-F	SHEET 6 OF 7
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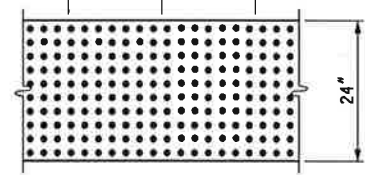


DOME SECTION

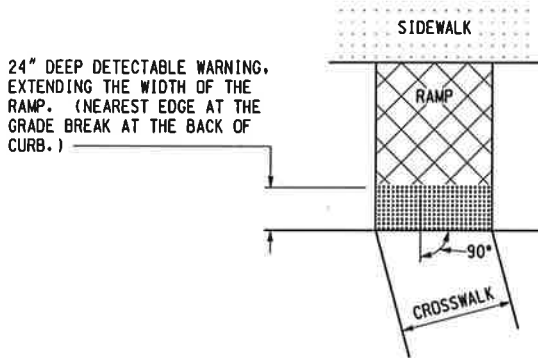


DOME SPACING

ALIGNED IN DIRECTION OF TRAVEL AND PERPENDICULAR (OR RADIAL) TO GRADE BREAK



DOME ALIGNMENT



DETECTABLE WARNING DETAILS

NOTES:

DETAILS SPECIFIED ON THIS PLAN APPLY TO ALL CONSTRUCTION, RECONSTRUCTION, OR ALTERATION OF STREETS, CURBS, OR SIDEWALKS BY ALL PUBLIC AGENCIES AND BY ALL PRIVATE ORGANIZATIONS CONSTRUCTING FACILITIES FOR PUBLIC USE.

SIDEWALK RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

RAMPS SHALL BE PROVIDED AT ALL CORNERS OF AN INTERSECTION WHERE THERE IS EXISTING OR PROPOSED SIDEWALK AND CURB. RAMPS SHALL ALSO BE PROVIDED AT WALK LOCATIONS IN MID-BLOCK IN THE VICINITIES OF HOSPITALS, MEDICAL CENTERS, AND LARGE ATHLETIC FACILITIES.

SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING, TRANSVERSE TO THE SLOPE OF RAMP.

SIDEWALK SHALL BE RAMPED WHERE THE DRIVEWAY CURB IS EXTENDED ACROSS THE WALK.

CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND SHORT GRADE CHANGES. WHERE CONDITIONS PERMIT, IT IS DESIRABLE THAT THE SLOPE OF THE RAMP BE IN ONLY ONE DIRECTION, PARALLEL TO THE DIRECTION OF TRAVEL.

RAMP WIDTH SHALL BE INCREASED, IF NECESSARY, TO ACCOMMODATE SIDEWALK SNOW REMOVAL EQUIPMENT NORMALLY USED BY THE MUNICIPALITY.

THE MAXIMUM RUNNING SLOPE OF 8.3% IS RELATIVE TO A FLAT (0%) REFERENCE. HOWEVER, IT SHALL NOT REQUIRE ANY RAMP OR SINGLE RAMP WITHIN A COMBINATION OF RAMPS TO EXCEED 15 FEET IN LENGTH.

IF POSSIBLE, DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH RAMPS. EXCEPT WHERE EXISTING DRAINAGE STRUCTURES ARE BEING UTILIZED IN THE NEW CONSTRUCTION, LOCATION OF THE RAMP SHOULD TAKE PRECEDENCE OVER LOCATION OF DRAINAGE STRUCTURE.

THE SLOPE OF THE GUTTER PAN SHALL BE TRANSITIONED TO A MAXIMUM OF 5% IN THE AREA OF THE CURB CUT OF THE SIDEWALK RAMP. MAINTAIN THE NORMAL GUTTER PAN SLOPE ACROSS THE DRAINAGE STRUCTURE INLETS.

THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.

CROSSWALK AND STOP LINE MARKINGS, IF USED, SHALL BE SO LOCATED AS TO STOP TRAFFIC SHORT OF RAMP CROSSINGS. SPECIFIC DETAILS FOR MARKING APPLICATIONS ARE GIVEN IN THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

FLARED SIDES WITH A SLOPE OF 10% MAXIMUM, MEASURED ALONG THE CURB LINE, SHALL BE PROVIDED WHERE A CIRCULATION PATH CROSSES THE SIDEWALK RAMP. FLARED SIDES ARE NOT REQUIRED WHERE THE EDGES OF A SIDEWALK RAMP ARE PROTECTED BY LANDSCAPING OR OTHER BARRIERS TO TRAVEL BY WHEELCHAIR USERS OR PEDESTRIANS ACROSS THE EDGE OF THE SIDEWALK RAMP.

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR			
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS			
10-21-2008 F.H.W.A. APPROVAL	6-20-2008 PLAN DATE	R-28-F	SHEET 7 OF 7

NOTE TO ALL DEVELOPERS AND BUSINESS

THE ATTACHED STATE & COUNTY ENVIRONMENTAL PERMITS CHECKLIST MUST BE COMPLETED AND SUBMITTED TO THE DIRECTOR OF COMMUNITY DEVELOPMENT ALONG WITH YOUR APPLICATION DOCUMENTS FOR DEVELOPMENT APPROVAL.

PLEASE BE ADVISED THAT THIS IS NOT AN OPTIONAL FORM AND YOUR SITE PLAN / PROJECT SUBMITAL WILL NOT BE PROCESSED UNLESS THIS COMPLETED DOCUMENT IS INCLUDED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS FORM, PLEASE CONTACT THE APPROPRIATE AGENCY AS NOTED ON EACH INDIVIDUAL LINE ITEM ON THE DOCUMENT OR THE DELHI CHARTER TOWNSHIP PLANNING DEPARTMENT AT (517) 694-8281.

THANK YOU FOR YOUR ATTENTION TO THIS IMPORTANT ELEMENT OF THE DEVELOPMENT REVIEW AND APPROVAL PROCESS.

**STATE & COUNTY ENVIRONMENTAL PERMITS CHECKLIST
FOR USE IN INGHAM COUNTY COMMUNITIES**

Name of Business: _____

Mailing Address: _____

Telephone: _____ Fax: _____

Type of Business: _____

Facility Owner or Manager: _____

Date: _____ Signature: _____

Note: For assistance with permits and approvals from the Michigan Department of Environmental Quality, including permit coordination among MDEQ divisions, contact the Permit Coordinator, 517/335-4235.

Circle (Y/N) the items that may pertain to your project or facility; then contact the office(s) listed to determine specific requirements. Return a copy of this checklist to the municipality as part of your site plan submittal – even if state and county approvals have not yet been obtained. An updated copy should be submitted prior to occupancy.

This list includes the most common permits and approvals related to waste, water quality, and air quality. Other permits and approvals, including local approvals, may also be needed.

1. Y N Will the project involve the discharge of any type of wastewater to a storm sewer, drain, lake, stream, wetland or other surface water? **Contact:** MI Dept. of Environmental Quality, Surface Water Quality Division, Permits Section: 517/373-8088.
2. Y N Will the project involve the direct or indirect discharge of waste, waste effluent, wastewater, pollutants, and/or cooling water into the groundwater or on the ground? **Contact:** MI Dept. of Environmental Quality, Waste Management Division, Groundwater Program Section: 517/373-8148.
3. Y N Will the project involve construction or alteration of any sewage collection or treatment facility? **For facilities discharging to surface waters, contact the MI Dept. of Environmental Quality, Surface Water Quality Division, District Office: 517/625-4647. For facilities discharging to groundwater, contact the MI Dept. of Environmental Quality, Waste Management Division, District Office: 517/625-5515.**
4. Y N Will the project or facility store or use chemicals, petroleum products, or salt? Depending on the type of substance, secondary containment and a Pollution Incident Prevention Plan (PIPP) may be required. **Contact:** MI Dept. of Environmental Quality, Waste Management Division, District Office: 517/625-5515.
5. Y N Will the project involve the installation, operation, or removal of an underground or aboveground storage tank containing a petroleum product or a hazardous substance? **Contact:** MI Dept. of Environmental Quality, Storage Tank Division: 517/373-8168.
6. Y N Will the project involve liquefied petroleum gas storage tanks or container filling locations? **Contact:** MI Dept. of Environmental Quality, Storage Tank Division: 517/373-8168.
7. Y N Does the project involve the installation of a compressed natural gas dispensing station with storage? **Contact:** MI Dept. of Environmental Quality, Storage Tank Division: 517/373-8168.
8. Y N Does the project involve the generation of hazardous waste? **Contact:** MI Dept. of Environmental Quality, Waste Management Division, District Office: 517/625-5515.
9. Y N Will the project involve the on-site treatment, storage or disposal of hazardous waste? **Contact:** MI Dept. of Environmental Quality, Waste Management Division, Hazardous Waste Permit Unit: 517/373-9875.
10. Y N Will the project involve the transport of hazardous waste or non-hazardous liquid industrial waste? **Contact:** MI Dept. of Environmental Quality, Hazardous Waste Program Section: 517/373-9875.
11. Y N Will the project involve landfilling, transferring or processing solid non-hazardous wastes on-site? **Contact:** MI Dept. of Environmental Quality, Waste Management Division, District Office: 517/625-5515.

12. Y N Will the project involve the installation, construction, reconstruction, relocation, or alternation of any process or process equipment (including air pollution control equipment) which has the potential to emit air contaminants? **Contact:** MI Dept. of Environmental Quality, Air Quality Division, Permit Section: 517/373-7023.
13. Y N Will the project or facility involve the storage, mixing or distribution of pesticides or fertilizers in bulk quantities? **Contact:** MI Dept. of Agriculture, Pesticide and Plan Pest Management Division: 517/373-1087.
14. Y N Will the project involve any man-made change in the natural cover or topography of land, including cut and fill activities which may contribute to soil erosion and sedimentation? Will the earth change disturb an area of one acre or more, or occur within 500 feet of a lake or stream? If the answer to both of these questions is yes, a soil erosion and sedimentation control permit is required. **Contact:** Ingham County Drain Commissioner at 517/676-8395 for all communities in Ingham County. In addition, a permit may be required from the DEQ. **Contact:** MI Dept. of Environmental Quality, Land & Water Management Division, Soil Erosion & Sedimentation: 517/373-3178.
15. Y N Will the project involve dredging, filling, or construction in, across or under (1) a river, stream, creek, ditch, drain, lake, pond or swamp? (2) wetlands? (3) floodplain (area that may have or ever had either standing or flowing water)? **Contact:** MI Dept. of Environmental Quality, Land & Water Management Division, Permit Consolidation Unit: 517/373-9244.
16. Y N Will the project involve any dredging proposed within 500 feet of a lake, river, stream, creek or ditch? **Contact:** MI Dept. of Environmental Quality, Land & Water Management Division, Permit Consolidation Unit: 517/373-9244.
17. Y N Will an on-site wastewater treatment system or septic system be installed?

For subsurface sanitary sewage disposal in quantities of 10,000 gallons per day or less: Ingham County Health Dept., Environmental Health Division: 517/887-4312. For any subsurface discharge of sanitary sewage in quantities equal to or greater than 10,000 gallons per day – **Contact:** MI Dept. of Environmental Quality, Waste Management Division: 517/373-8148.

For subsurface disposal of sanitary sewage in quantities of 6,000 to 10,000 gallons per day: In addition to obtaining a construction permit from the Ingham County Health Department, submit a state wastewater discharge notification form. Flow monitoring and reporting are required – **Contact:** MI Dept. of Environmental Quality, Waste Management Division, Groundwater Permits Unit: 517/373-8148.

For industrial or commercial wastewater (other than sanitary sewage) in any quantity – **Contact:** MI Dept. of Environmental Quality, Waste Management Division, Groundwater Permits Unit: 517/373-8148.

18. Y N Will the project involve the construction of a water supply well or the extension of a water supply service from an existing water system? **Contact:** MI Dept. of Environmental Quality, Drinking Water Program, District Office: 517/625-5515; and Ingham County Health Dept., Environmental Health Division: 517/887-4312.
19. Y N Are there out-of-service wells, abandoned wells, or cisterns on the site (drinking water, irrigation, & monitoring wells)? **Contact:** Ingham County Health Dept., Environmental Health Division: 517/887-4312.
20. Y N Will the project involve a subdivision or site condominium project utilizing individual on-site subsurface disposal systems or individual wells? **Contact:** Ingham County Health Dept., Environmental Health Division: 517/887-4312.
21. Y N Will the project involve the on-site storage of sanitary sewage prior to transport and disposal off-site (pump and haul)? **Contact:** MI Dept. of Environmental Quality, Waste Management Division, Groundwater Program Section: 517/373-8148.
22. Y N Has the property or facility ever been subject to a remedial action, limited closure, or other environmental cleanup response under Part 201, Natural Resources and Environmental Protection Act (NREPA)? Is the property currently subject to a response action? Has a Baseline Environmental Assessment (BEA) been completed for the property? **Contact:** MI Dept. of Environmental Quality, Environmental Response Division: 517/373-9893 and/or MI Dept. of Environmental Quality, Storage Tank Division: 517/373-8168.

NOTE: The general telephone number for the Shiawassee DEQ District office (which covers Ingham, Eaton, and Clinton counties, among others) is 517/625-5515. The office is located at 10650 Bennett Drive, Morrice, MI 48857-9792. The fax number is 517/625-5000.



GRANGER

COLLECTING TOMORROW'S ENERGY

WASTE AND RECYCLING CONTAINER CORRAL DESIGN SPECIFICATIONS

WIDTH:	12-FOOT MINIMUM OPENING FOR ONE CONTAINER 18-FOOT MINIMUM OPENING FOR TWO CONTAINERS (NO CENTER POST) <i>Keep the two container width in mind if additional containers could be added in the future.</i>
HEIGHT:	6-FOOT MINIMUM (2-, 4- OR 6-YARD CONTAINERS) 7-FOOT MINIMUM (8-YARD CONTAINER)
DEPTH:	10 FEET (ALL CONTAINER SIZES) <i>Reinforced concrete slab in front of corral (12 feet wide, 6 inches deep, 10 feet long) is recommended, but not required.</i>
APPROACH:	45-FOOT STRAIGHTAWAY
CLEARANCE:	14-FOOT MINIMUM (TRUCK TRAVEL PATH) 24-FOOT MINIMUM (OVERHEAD AT CONTAINER SERVICE POINT)
GATES:	MUST SWING COMPLETELY OPEN AND HAVE 8 INCHES OF GROUND CLEARANCE WITH MECHANISM TO KEEP GATES OPEN FOR SERVICE

Note: Specifications are minimum requirements to service the container. Corrals that do not allow a 45-foot straightaway approach will require custom specifications.

Granger associates are available to assist with corral design to ensure easy, efficient service of your container(s).

PLEASE REFER TO CORRAL DIAGRAM ON THE OPPOSITE SIDE OF THIS PAGE.

CORRAL

PLACE CORRAL
POSTS OUTSIDE
OF WALL

MINIMUM
10 FEET

MINIMUM 12 FEET

REINFORCED CONCRETE SLAB
(12 FEET WIDE, 6 INCHES DEEP, 10 FEET LONG)
IS RECOMMENDED, BUT NOT REQUIRED.

CORRAL
GATE

CORRAL
GATE

ARMS

FRONT OF TRUCK

OVERHEAD CLEARANCE
MINIMUM 24 FEET
AT CONTAINER
SERVICE POINT

STRAIGHTAWAY
APPROACH
MINIMUM 45 FEET

MINIMUM 14 FEET ON
TRUCK TRAVEL PATH



GRANGER
COLLECTING TOMORROW'S ENERGY