

## **REVISED STANDARD DRAWING #H-1011**

Construction Advisory Council Meeting

January 27, 2021



https://www.nycpedramps.info

#### PRESENTATION CONTENTS

- Highlights
- General Notes
- Case Side Treatments
- Corner Cases
- Midblock Cases
- Island Cases
- Temporary Cases
- Miscellaneous Details & Examples
- D.W.S.

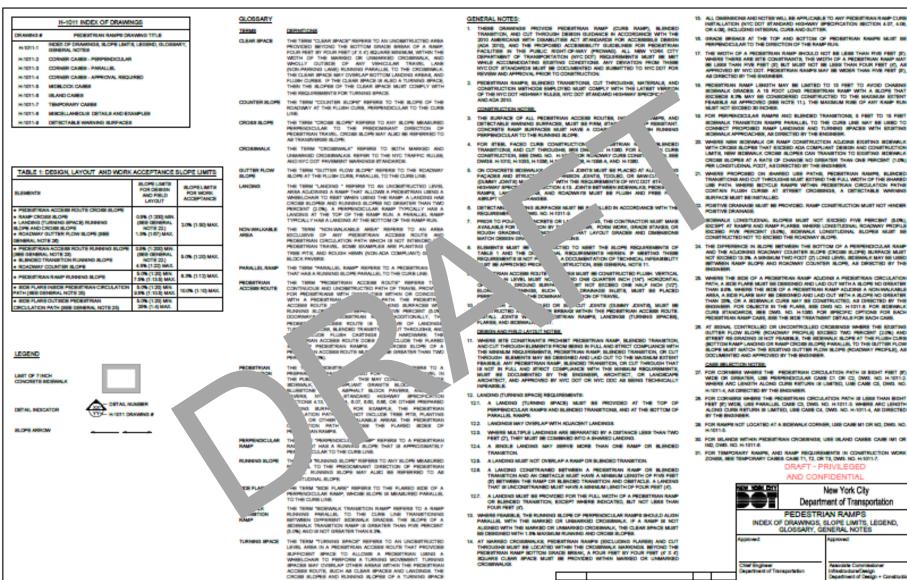


#### H-1011: PEDESTRIAN RAMP OVERVIEW

- In compliance with ADA 2010 and PROWAG 2011
- New standard cases:
  - Five corner cases: C1, C2, C3, C4, and C5
  - Two midblock cases: M1, M2
  - Two island/median cases: IM1, IM2
  - Three temporary cases: T1, T2, T3
- Detectable Warning Surface (D.W.S.) requirements
- Curb type varies
- Steel faced curb at ramps now in new standard detail H-1060
- Sidewalk Curb also in new standard detail H-1060
- New side treatment options

CHECKED BY:

HWANTER



MUST BE NO GREATER THAN TWO PERCENT QUINC

Drawing # H-1011-1

DESCRIPTION.

DATE

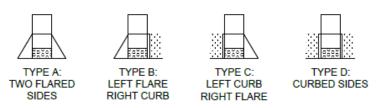
#### H-1011 GENERAL NOTES

- Slope Limits
- Glossary
- General Notes
  - Construction Notes
  - Design and Field Layout Notes
  - Case Selection Notes
  - Including: technical infeasibilities, construction inspection

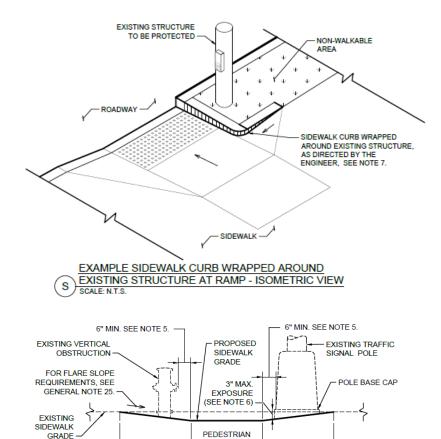
TABLE 1: DESIGN, LAYOUT AND WORK ACCEPTANCE SLOPE LIMITS		
ELEMENTS	SLOPE LIMITS FOR DESIGN AND FIELD LAYOUT	SLOPE LIMITS FOR WORK ACCEPTANCE
PEDESTRIAN ACCESS ROUTE CROSS SLOPE     RAMP CROSS SLOPE     LANDING (TURNING SPACE) RUNNING     SLOPE AND CROSS SLOPE     ROADWAY GUTTER FLOW SLOPE (SEE GENERAL NOTE 26)	0.5% (1. 00) MIN. (SEE GEVERAL NOTE 2) 1.5% (1:67) MAX.	2.0% (1:50) MAX.
PEDESTRIAN ACCESS ROUTE PUNNING SLUPE (SEE GENERAL NOTE 23)     BLENDED TRANSITION JUNN NG LOPE     ROADWAY COUNTER & OPE	0.5% (1:200) MIN. (SEE GENERAL NOTE 22.) 4.5% (1:22) MAX.	5.0% (1:20) MAX.
PEDESTRIAN RAMP RUNI NO SLOPE	5.0% (1:20) MIN. 7.5% (1:13.5) MAX.	8.3% (1:12) MAX.
SIDE FLARE INSIDE PEDESTRIAN CIRCULATION PATH (SEE GENERAL NOTE 25)	5.0% (1:20) MIN. 9.5% (1:10.5) MAX.	10.0% (1:10) MAX.
SIDE FLARE OUTSIDE PEDESTRIAN CIRCULATION PATH (SEE GENERAL NOTE 25)	5.0% (1:20) MIN. 25% (1:4) MAX.	

#### SIDE TREATMENT OPTIONS

- Shown for most cases
- Where side adjoins pedestrian circulation path - 9.5% Max side flare
- Where side adjoins nonwalkable area – 25% max side flare or sidewalk curb
- As directed by the engineer



CASE C1 AND C2 SIDE TREATMENT OPTIONS SCALE: N.T.S.



OBJECTS IN FLARE - ELEVATION VIEW SCALE: N.T.S.

RAMP

**FLARE** 

**FLARE** 



### **SIDE TREATMENT OPTIONS - EXAMPLES**

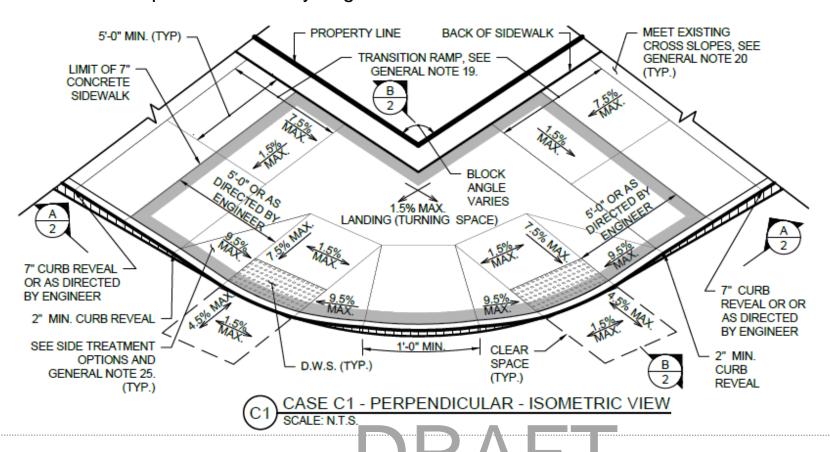






#### **CASE C1 - PERPENDICULAR**

- Evolved from previous Case I and Case III
- Pedestrian circulation path (PCP) 8 feet wide or greater
- Transition ramps as directed by engineer



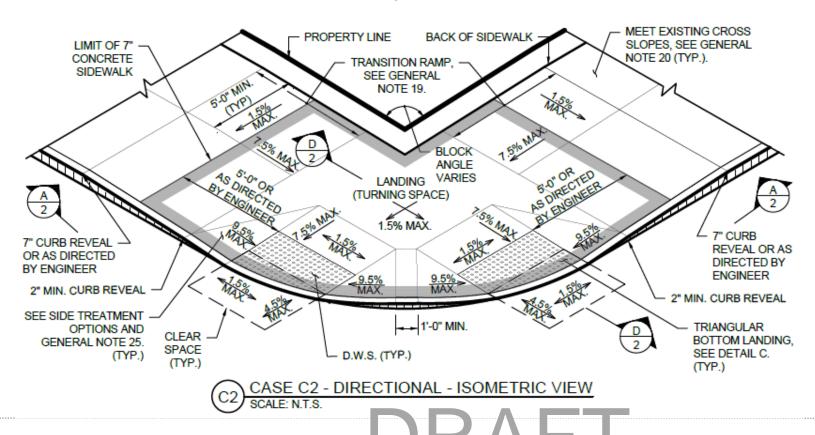
#### **CASE C1 – PERPENDICULAR - EXAMPLES**





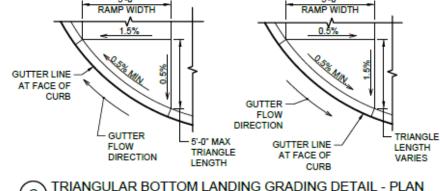
#### **CASE C2 – DIRECTIONAL**

- Similar to case C1, ramp alignment skewed from curb
- Bottom grade break must be perpendicular to ramp run
- Pedestrian circulation path 8'-0" wide or greater
- Transition ramps where directed by engineer

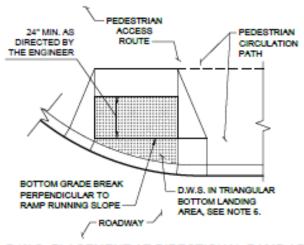


#### **CASE C2 – DIRECTIONAL**

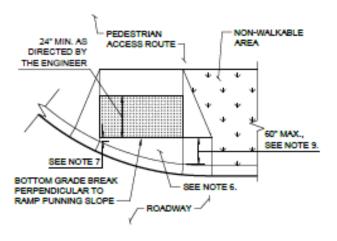
- Standard grading options provided
- D.W.S. as directed by engineer, typically required in triangular bottom landing
- Designer of record responsible for grading detail



TRIANGULAR BOTTOM LANDING GRADING DETAIL - PLAN SCALE: N.T.S.



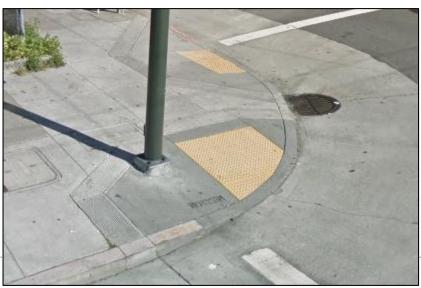
D.W.S. PLACEMENT AT DIRECTIONAL RAMP ADJACENT
TO PEDESTRIAN CIRCULATION PATH. - PLAN DETAIL
SCALE: N.T.S.



D.W.S. PLACEMENT AT DIRECTIONAL RAMP
ADJACENT TO NON-WALKABLE AREA - PLAN DETAIL
SCALE: N.T.S.

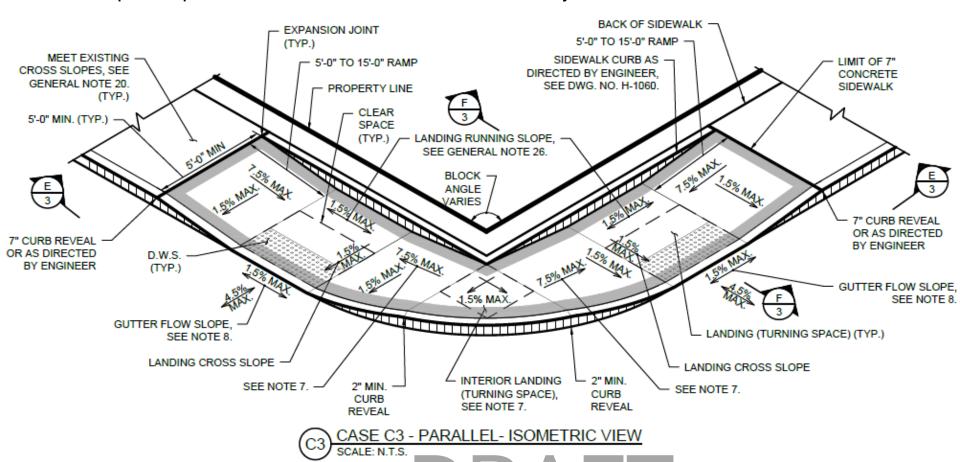
### **CASE C2 – DIRECTIONAL - EXAMPLES**





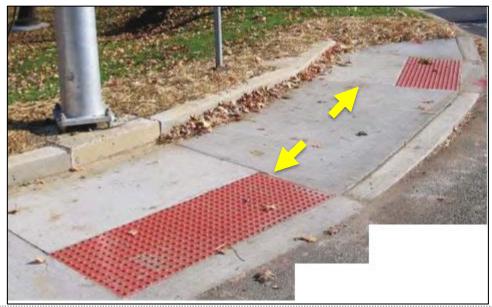
#### **CASE C3 - PARALLEL**

- Pedestrian circulation path less than 8'-0" wide
- Ramps are parallel to curb line, no need to score any flares



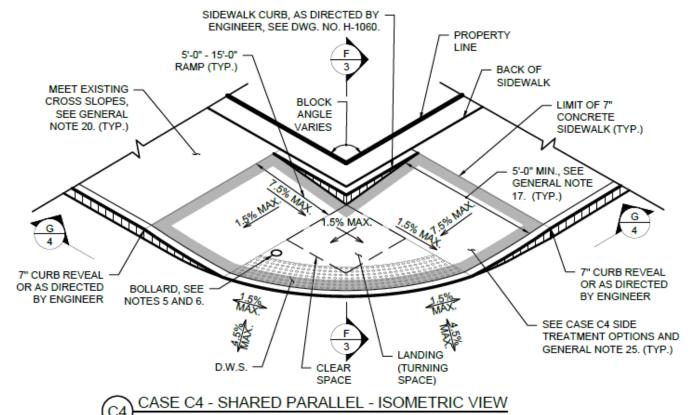
#### **CASE C3 – PARALLEL - EXAMPLES**





#### CASE C4 – SHARED PARALLEL

- Two parallel ramps with shared landing.
- Pedestrian circulation paths less than 8'-0" wide
- Requires DOT approval



#### **CASE C4 – SHARED PARALLEL - EXAMPLES**



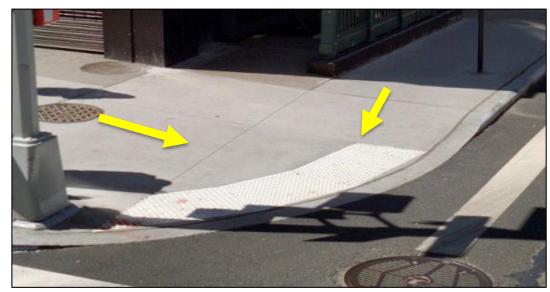






**CURBED SIDES** APPROACH

RIGHT RAMP RIGHT CURB CASE C4 SIDE TREATMENT OPTIONS SCALE: N.T.S.

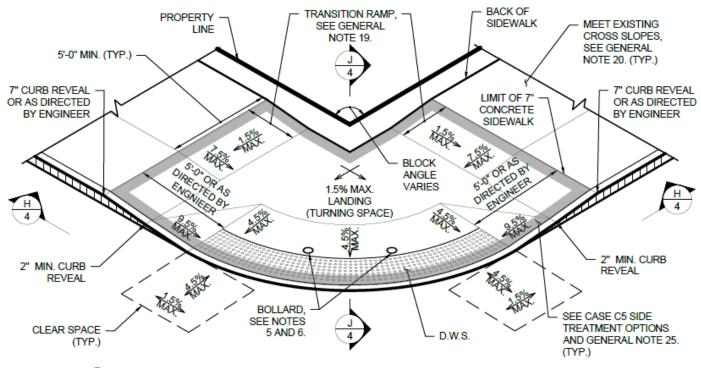




#### **CASE C5 – BLENDED TRANSITION**

- Replaces old Case II (Apex)
- Pedestrian circulation paths 8'-0" or greater
- 4.5% Max running slope (field layout)

- Minimum 8'-0" Wide
- Radial D.W.S.
- Requires DOT approval



CASE C5 - BLENDED TRANSITION - ISOMETRIC VIEW SCALE: N.T.S.

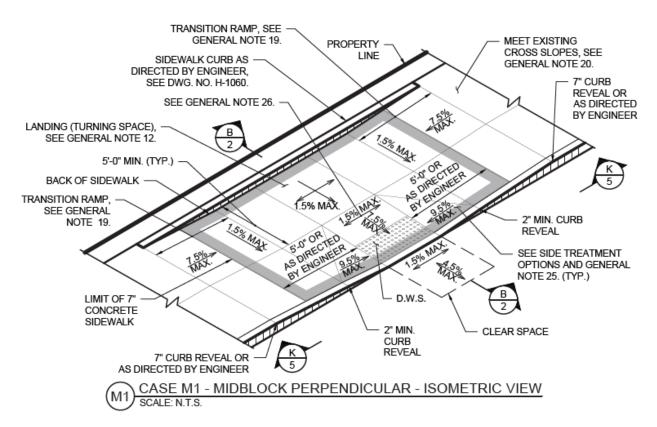
#### PERPENDICULAR CASES: C5 - EXAMPLE





#### CASE M1 – MIDBLOCK PERPENDICULAR

- New case, same concept as Case C1 Perpendicular
- Pedestrian circulation paths 8'-0" wide or greater



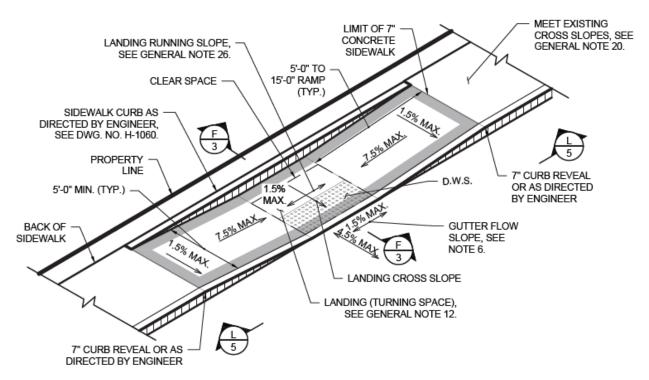
#### CASE M1 – MIDBLOCK PERPENDICULAR - EXAMPLES





#### **CASE M2 – MIDBLOCK PARALLEL**

- New case, same concept as Case C3 Parallel
- Pedestrian circulation paths less than 8'-0" wide



CASE M2 - MIDBLOCK PARALLEL - ISOMETRIC VIEW SCALE: N.T.S.

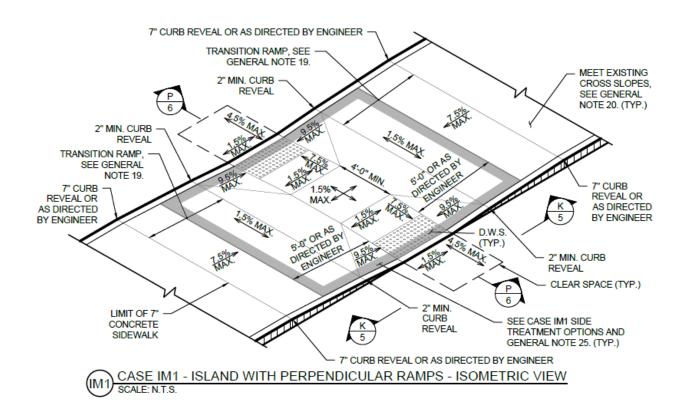
#### **CASE M2 – MIDBLOCK PARALLEL - EXAMPLES**





#### CASE IM1 – ISLAND WITH PERPENDICULAR RAMPS

Island widths less than 16'-0" require DOT Approval



# CASE IM1 – ISLAND WITH PERPENDICULAR RAMPS - EXAMPLE

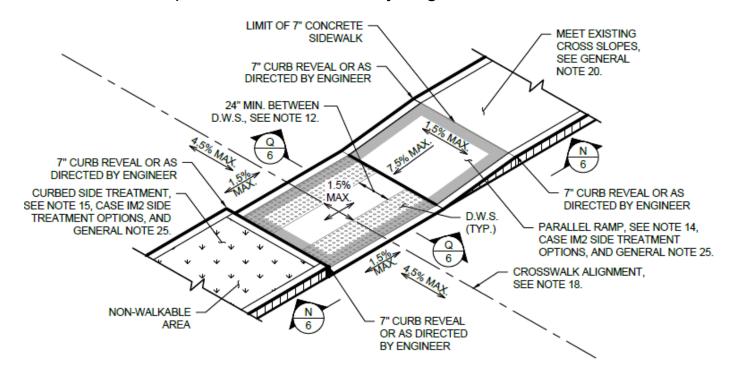


#### **CASE IM2 – ISLAND CUT THROUGH**

- Supersedes grading and geometry in H-1003
- Standardizes cut through width from TRF-02

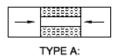
TABLE 2: CUT THROUGH WIDTHS			
CROSSWALK WIDTH	LESS THAN 14 FEET	14 FEET OR GREATER	
CUT THROUGH WIDTH	8 FEET	10 FEET	

• DWS must have 24" separation, as directed by engineer



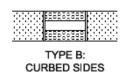


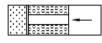
#### **CASE IM2 – ISLAND CUT THROUGH - EXAMPLES**



TWO PARALLEL

RAMPS





TYPE C: ONE PARALLEL RAMP, ONE CURB

CASE IM2 SIDE TREATMENT OPTIONS
SCALE: NTS



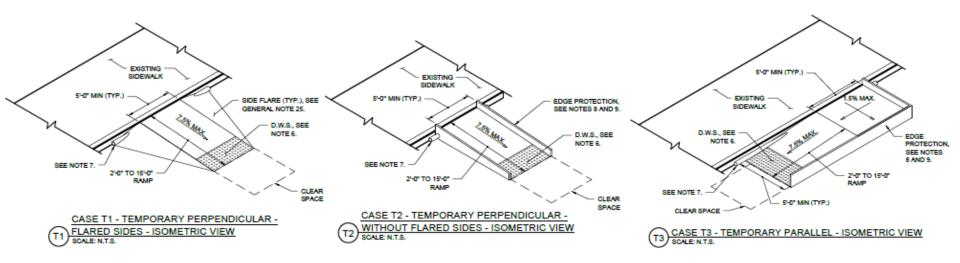


TYPE C

TYPE B

#### CASE T1, T2, T3 – TEMPORARY RAMPS

- Not a substitute for M.P.T. plans
- Drainage flow must be maintained, may require drainage pipe
- Material not specified; must be firm, stable, slip resistant, and fixed to ground



#### CASE T1, T2, T3 – TEMPORARY RAMPS - EXAMPLES

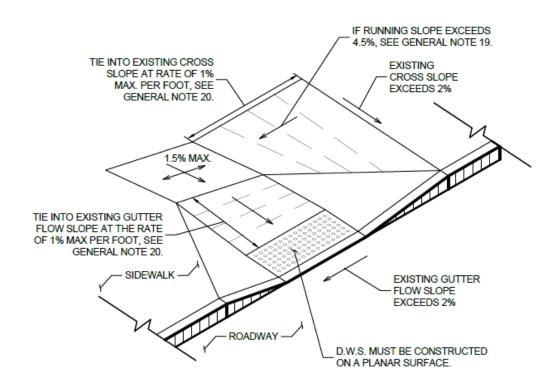






#### **MEETING NON-COMPLIANT SLOPES**

Guidance detail provided on sheet 8

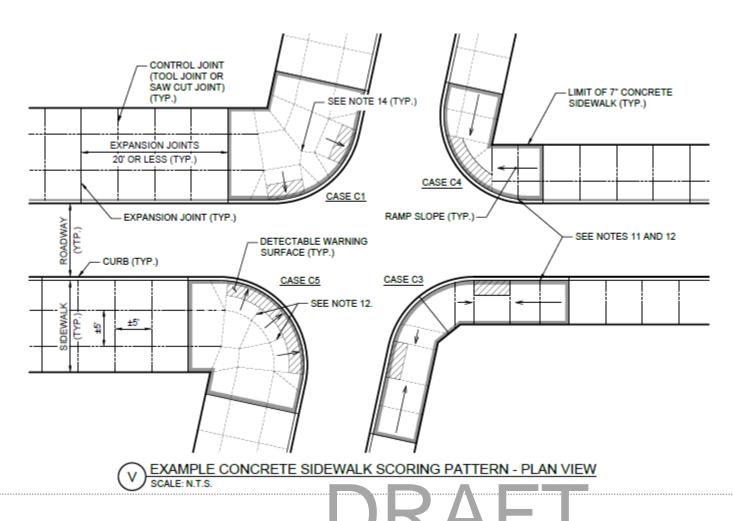


R MEETING NON-COMPLIANT SLOPES - ISOMETRIC VIEW SCALE: N.T.S.



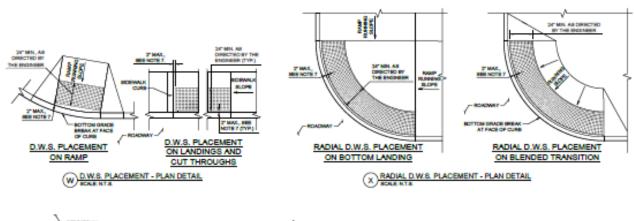
#### SAMPLE SCORING PATTERNS

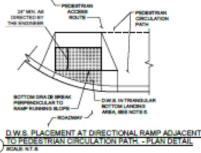
Additional guidance provided on sheet 8

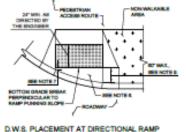


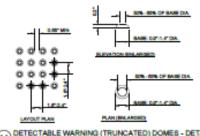
#### DETECTABLE WARNING SURFACES

- Must meet requirements of sheet 9
- Radial D.W.S. is introduced
- Requirements for D.W.S. adjacent to curb, 2" max offset
- D.W.S. must be installed per manufacturer's recommendations.









DETECTABLE WARNING (TRUNCATED) DOMES - DETAIL

FOR INDEX OF DRAWNOR, SLOPE LIMITS, LEGEND, GLOBBARY, GENERAL NOTES

#### DETECTABLE WARNING BURFACE OLW 8 I NOTES.

- DWR MUST SE INSTALLED AT ALL FLUSH CLIRS LOCATIONS, WHERE THE REGISTRIAN CRECLATION PATH CRESISES A READWAY RALWAY OR TRAFFIC
- GWIR MUST BE INSTALLED ACROSS THE FULL WOTH OF FLUISH CLIRR, INCLUDING FULL RAMP WOTH, FULL BOTTOM LANDING WOTH, FULL BLENDED TRANSITION WOTH, AND FULL OUT THROUGH WOTH INHERS APPLICABLES.
- 4. DWR MUST BE INSTALLED ACROSS THE RULL WIDTH OF THE PEDESTRIAN CIRCLEATION PATH, AT ANY BYOF YIRLD CONTROLLED, OR BRINALISED OR CIWIR MUST NOT BE INSTALLED AT UNCONTROLLED CREWWAYS.
- DRECTION OF PEDESTRIAN TRAVEL D.W.S. MUST BE INSTALLED OR OMITTED AT ISLAND AND MEDIAN CUT THROUGHS IN ACCORDANCE WITH NOTE 12 ON DWG. NO. H 1011 & AR DIRECTED BY THE ENGINEER
- 8. TO MAINTAIN DISTRICTABILITY AT DIRECTIONAL RAMPS, D.W.S. GAPS MEJST NOT BOOT SETWINN PROBREMS CIRCULATION PATHS AND PLISH CURR. WHEN THE SIDE RARE ADDRESS A PROBREMS CIRCULATION PATH, DWS. BLUET SE INSTALLED IN THE TRANSLILAR BOTTOM LANCING AREA OF DIRECTIONAL RAMPS. WHEN THE RIDE FLARE ACLIGINE A NON-IMALKABLE AREA, D.W.R. INVT BE OMITTED IN THE TRIANGULAR ROTTON LANDING AREA OF DIRECTIONAL RAW
- WHERE PROPOSED AT THE BACK OF CURB, D.W.R. MUST BE INSTALLED WITH A TWO NOH (7) MAXIMUM OFFIRST FROM THE REPARRION JOINT OR TOOLSD RADIUS.
- DWS. MUST 66 INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES AS DIRECTED BY THE BYGINER, D.W.S. MAY 66 CUT OR TRIMMED TO MEET THE REQUIREMENTS OF THIS DETAIL, AS DIRECTED AND APPROVED BY THE ENGINEER
- INCHES THE DWY. MUST BE INSTALLED IN THE SCITCIN LANDING AREA
- 10. THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE THE QUANTITY OF TRUNCATED
- 11. OWA MUST PROVIDE COLOR CONTRAST WITH THE ADJONAG ROBHALK FOR OW & REQUIREMENTS INCLIDING COLOR CONTRAST, SEE NYC OCT STANDARD HOMBRY RPECIFICATION ITEM NO. 413 OR.
- 12. ON SLOPES OF FIVE PERCENT (IN) OR GREATER, TRUNCATED DOMES MUST SE AUGNED WITH THE LOWER GRADE BREAK OF THE RAMP, ON SLOPES LESS THAN FIVE PERCENT (RIS, TRUNCATED DOMES DO NOT NEED TO BE ALIGNED WITH THE LOWER GRADE BREAK OF THE RAMP.
- 13. DWIS MUST BE PROVIDED AT RAUROAD CROSSING IN ACCORDANCE WITH NEW YORK STATE AND FEDERAL RALADAD ADMINISTRATION REQUIREMENTS, D.W.S. LAYOUT AT RALACAC CHOISENGS MUST BE SUBMITTED TO MYSDOT FOR REVIEW AND APPROVAL PRIOR TO ITS CONSTRUCTION.
- MARPING, ANY CROSS SLOPE TRANSPICAS MARPING WITHIN A RAWP OF TURNING SPACE MUST BE EXCLUSIVE OF THE DWIS, AT A MAXIMUM RATE OF ONE
- 15. PRE-PARRICATED RADIAL DIVIS MAY BE USED FOR RADIAL DIVIS PLACEMEN WHERE PROCUREMENT OF PRE-FARRICATED RADAL DWS. IS NOT FEARBLE RECTINIDULAR THE ARRAYS MAY BE USED TO PROVIDE RADIAL DWIR PLACEMENT AS DIRECTED BY THE ENGINEER, WHERE LIBED, RADIAL DIWIS, OF ANY TYPE MUST INSET ALL APPLICABLE REQUIREMENTS ON THIS BHEST, INCLUDING DOME SPACING.
- 16. DETECTABLE WARRING (TRUNCATED) DOMES MUST MIST THE REQUIREMENTS OF
- WHERE AN EXISTING UTILITY CARTING IS LOCATED WITHIN THE PROPOSED DOCATION OF A DWIS. THE CONTRACTOR MAY OUT THE DWIS TO ACCOMPOSITE

#### **THANK YOU**

**Questions?** 









