



NORTH CAROLINA

Department of Transportation



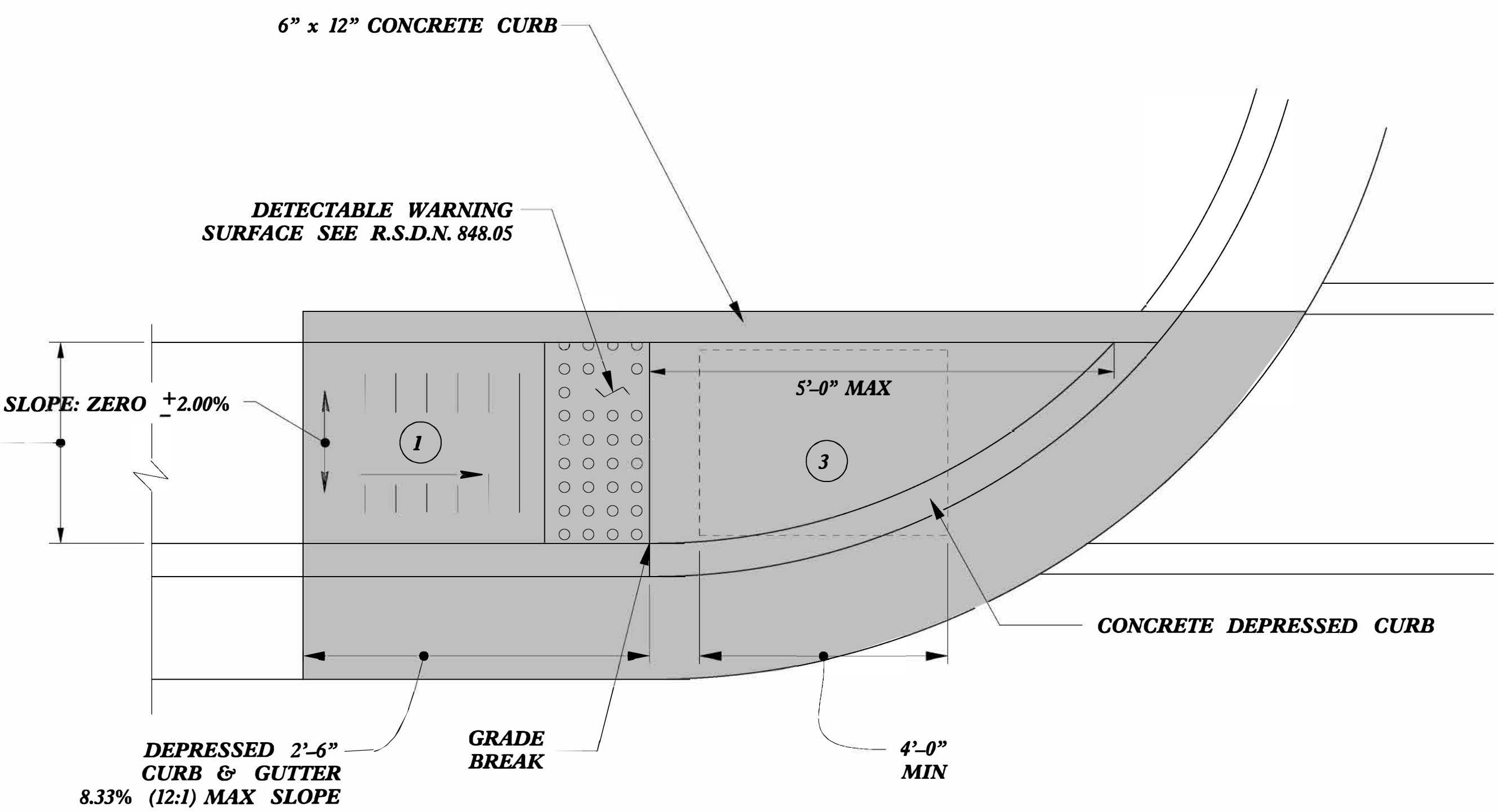
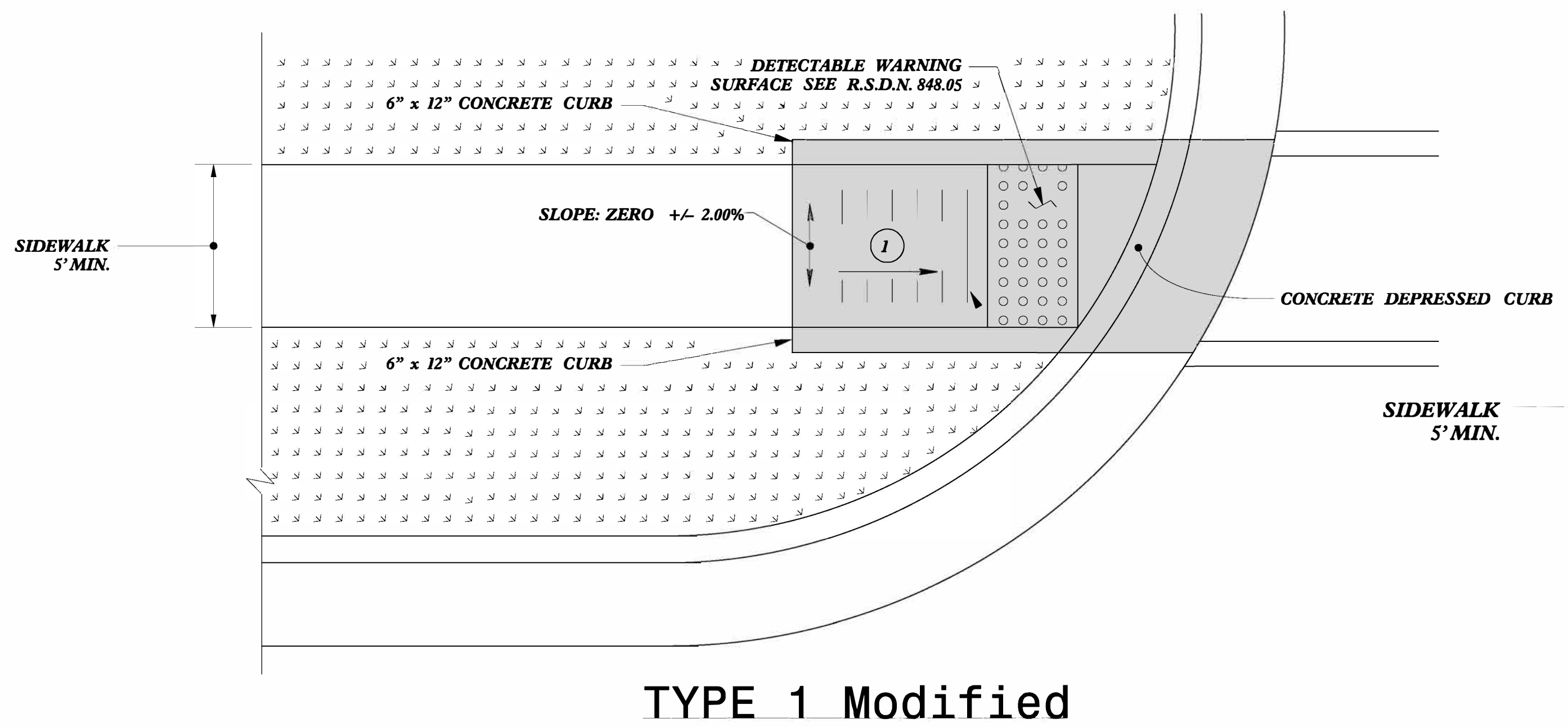
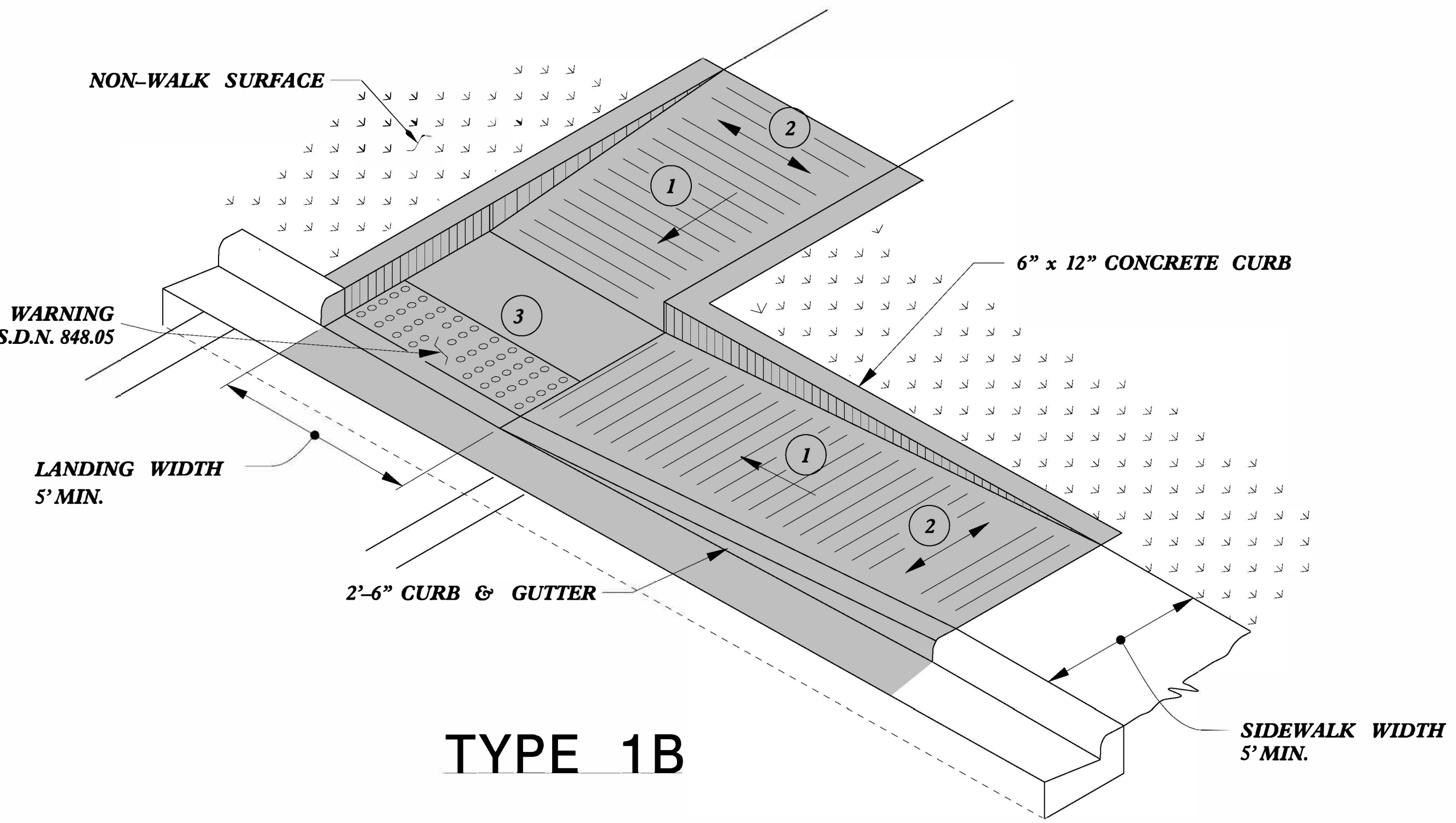
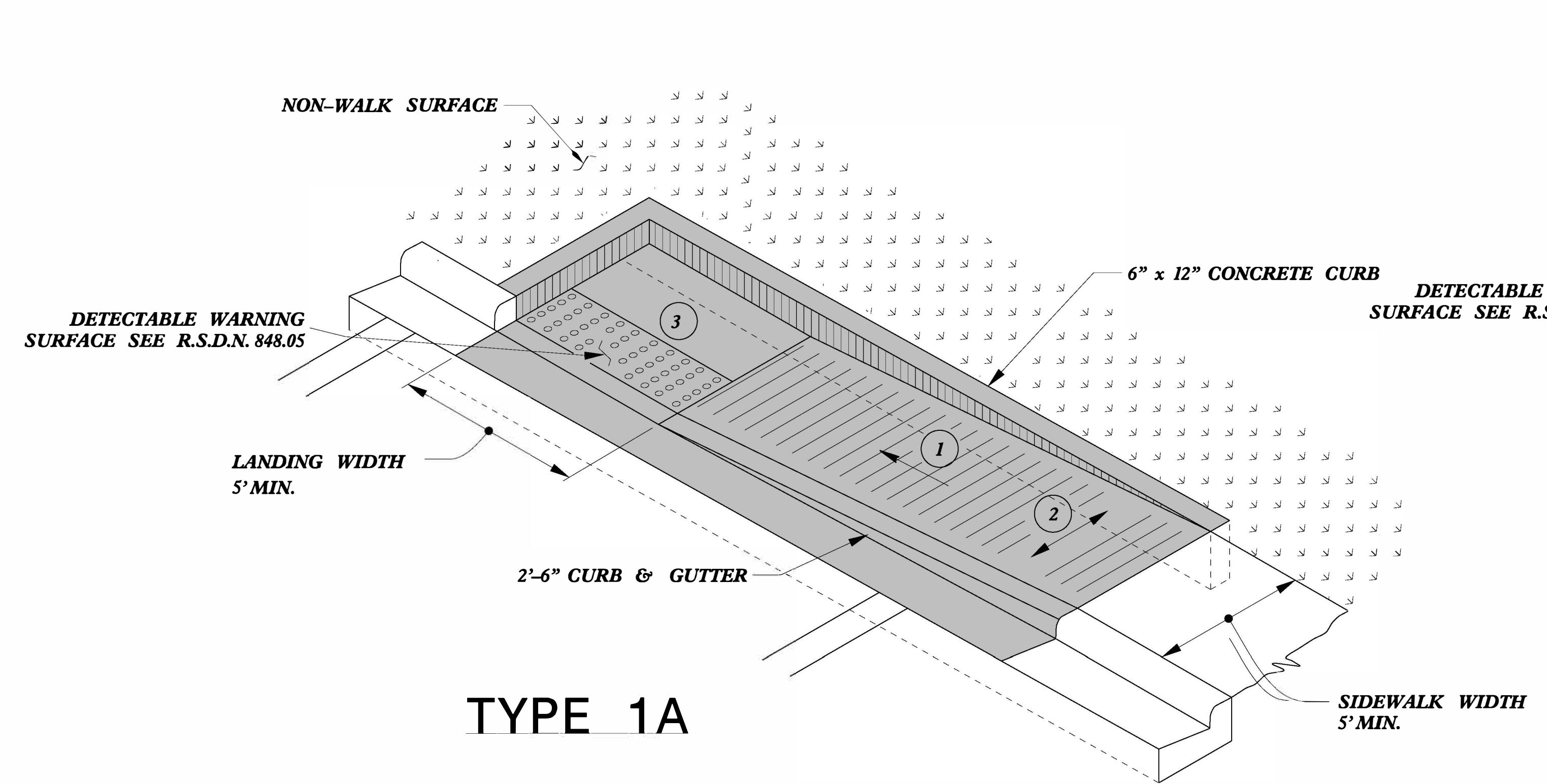
R-57820A Sidewalk Ramps Project

Casey Whitley, PE, PLS

2023

City of Kinston

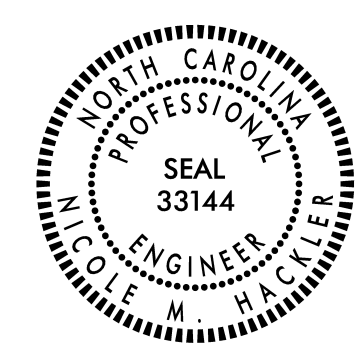
5/14/99



- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

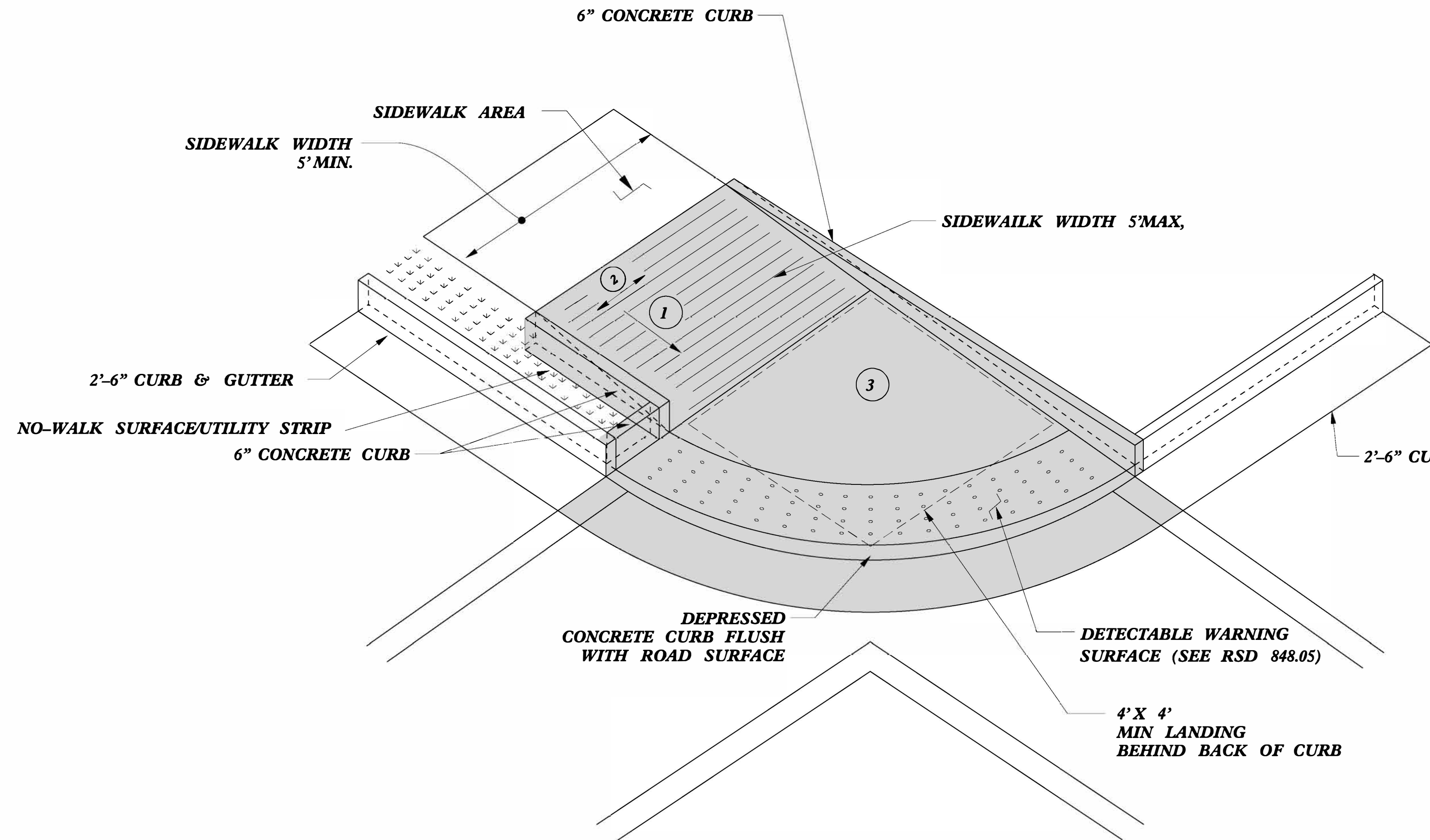
CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS
Directional Ramps

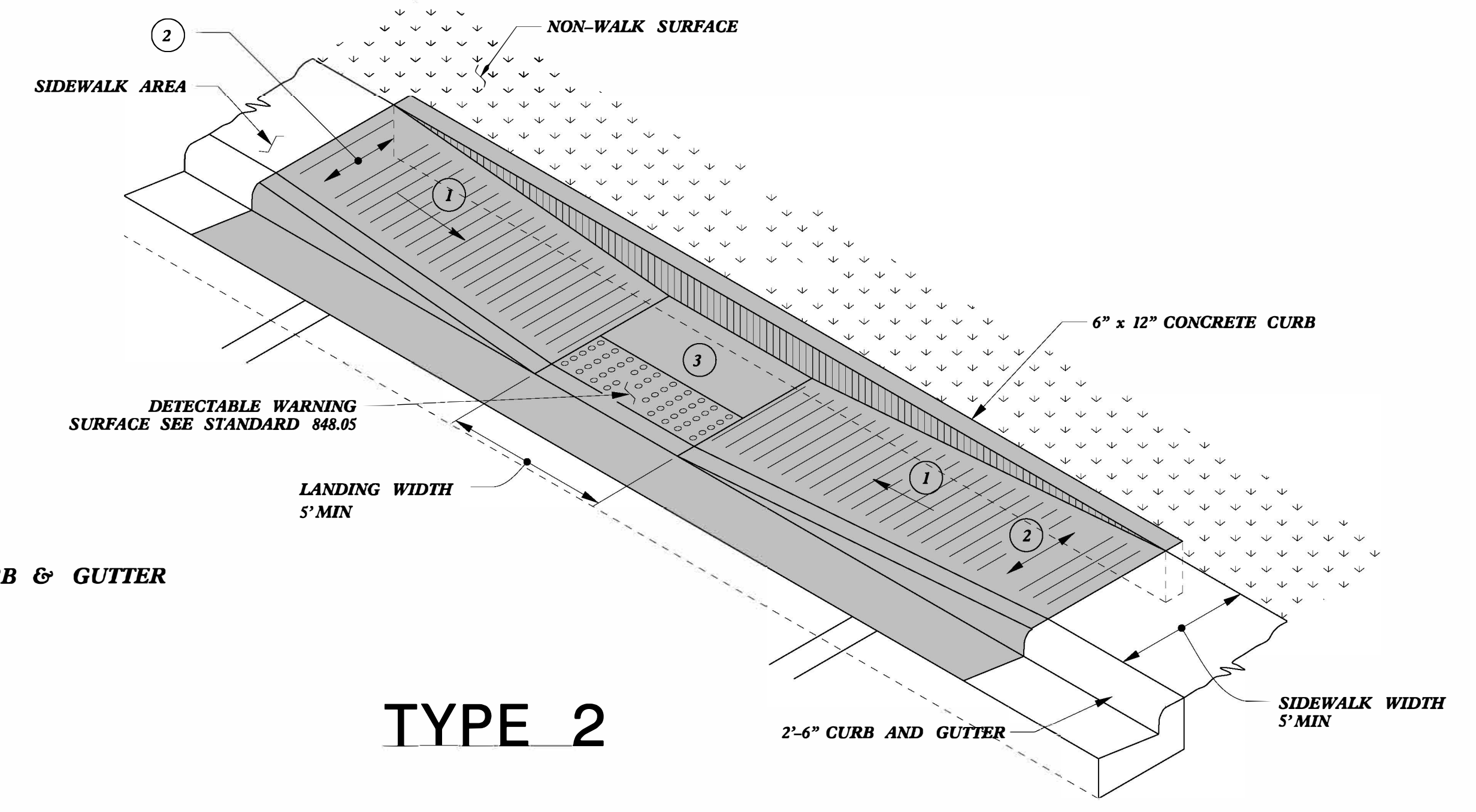
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 MODIFIED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
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 PLOT DATE: 7/7/11 10:00 AM

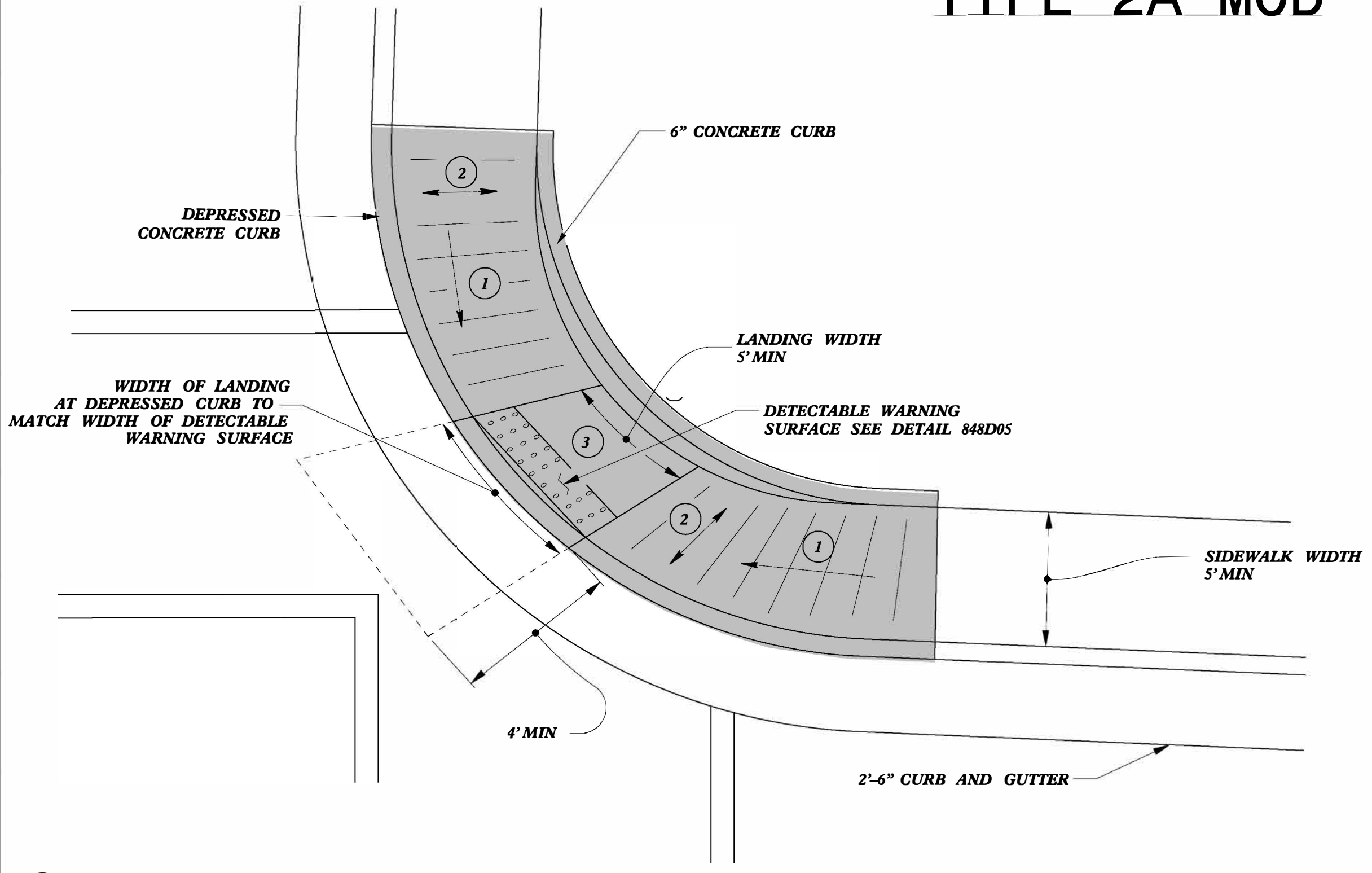
5/14/99



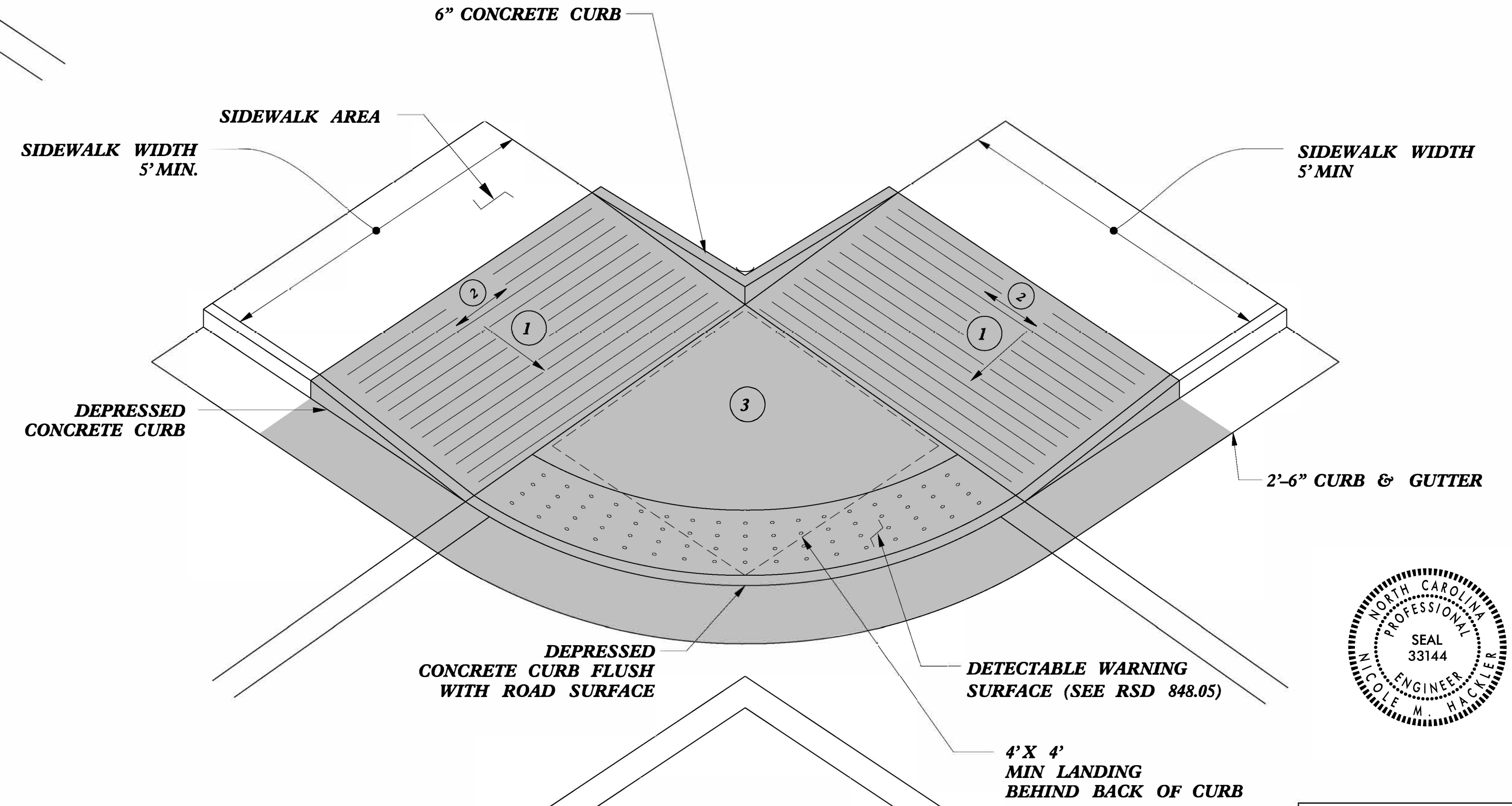
TYPE 2A MOD



TYPE 2



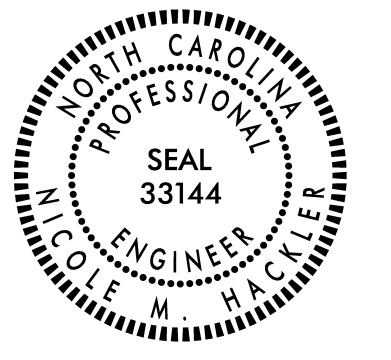
TYPE 2B



TYPE 2A

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

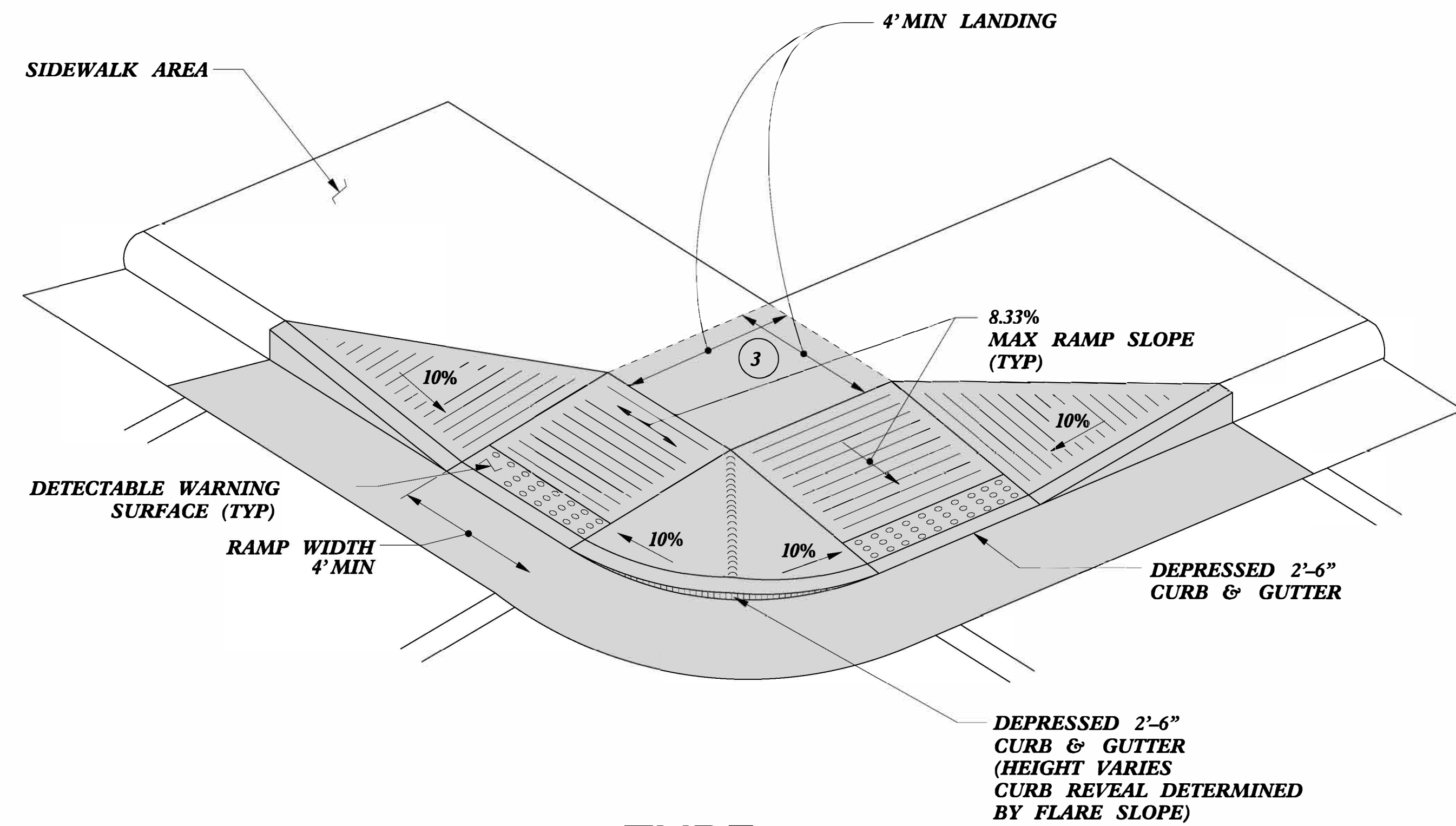


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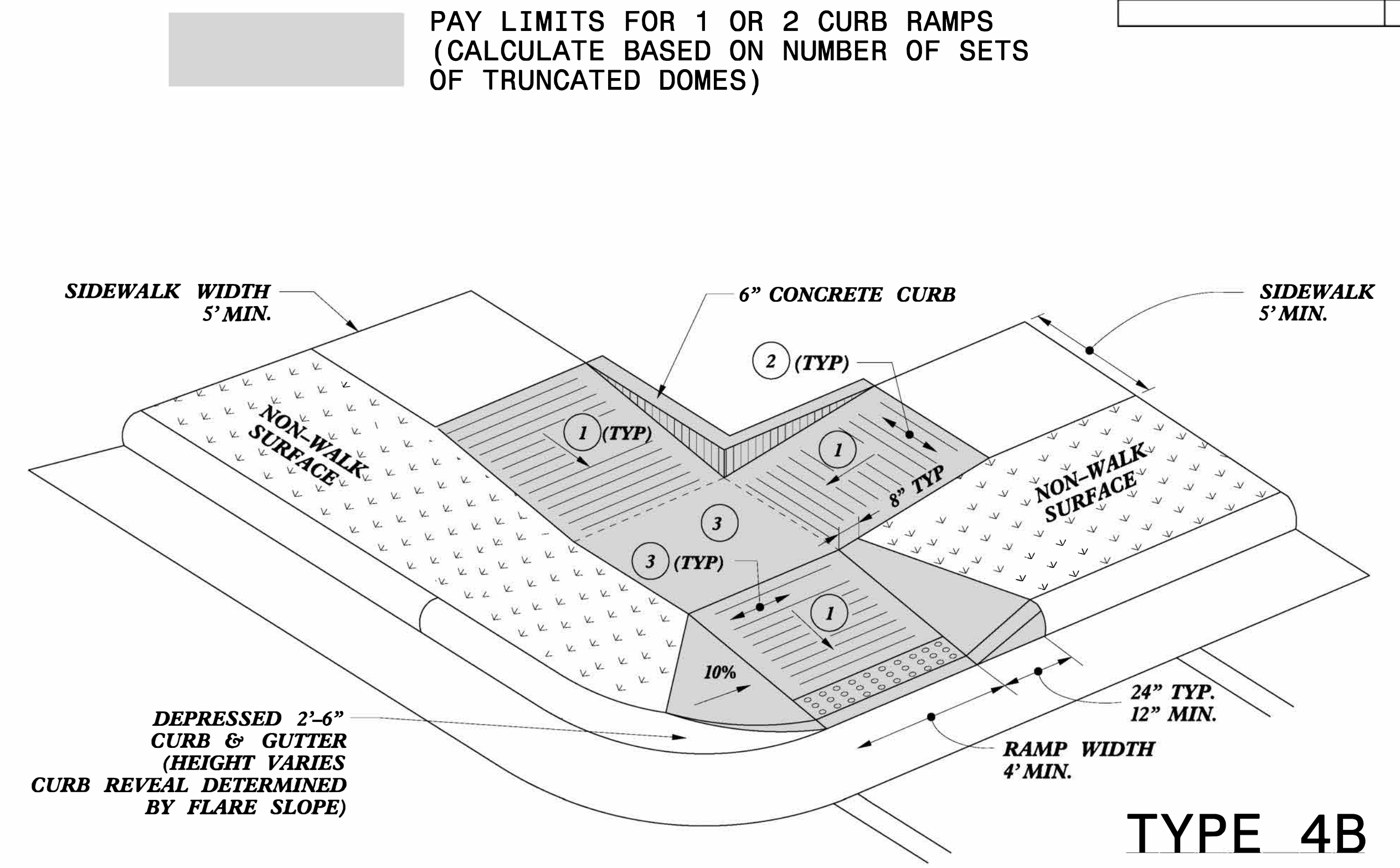
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. :stds/2012CurbRamp/CurbRampDetails.dgn	

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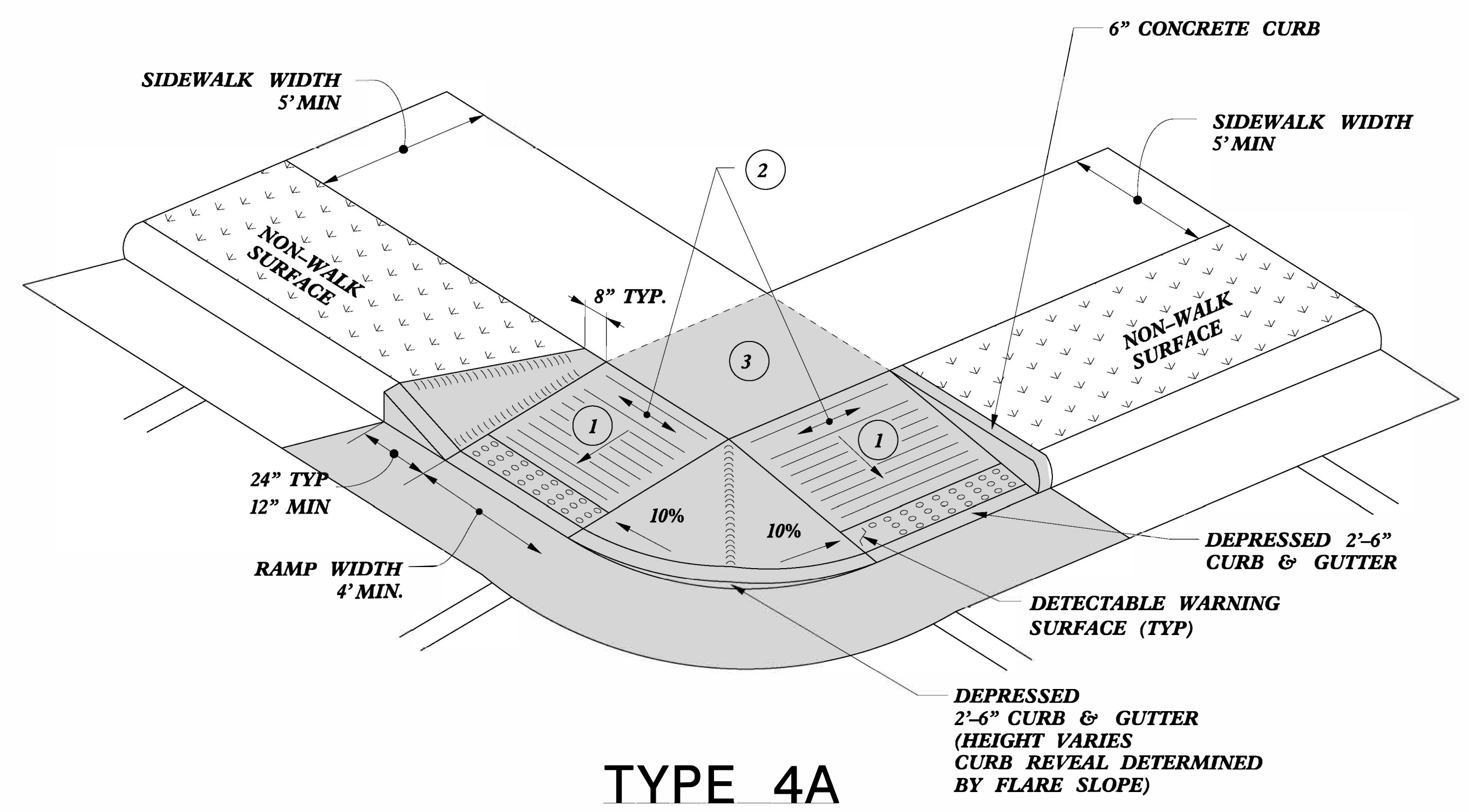
5/14/99



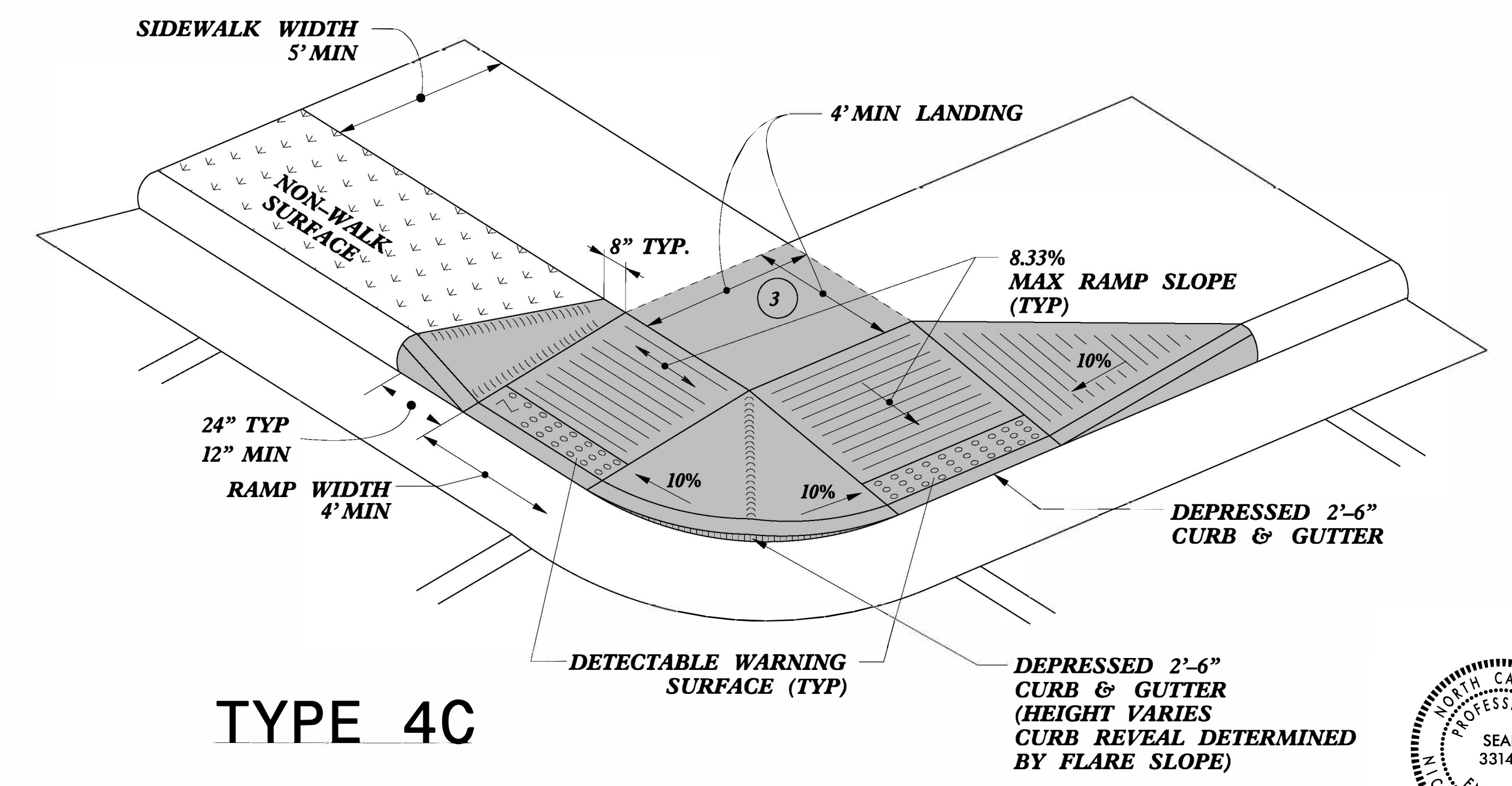
TYPE 4



TYPE 4B



TYPE 4A



TYPE 4C

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT
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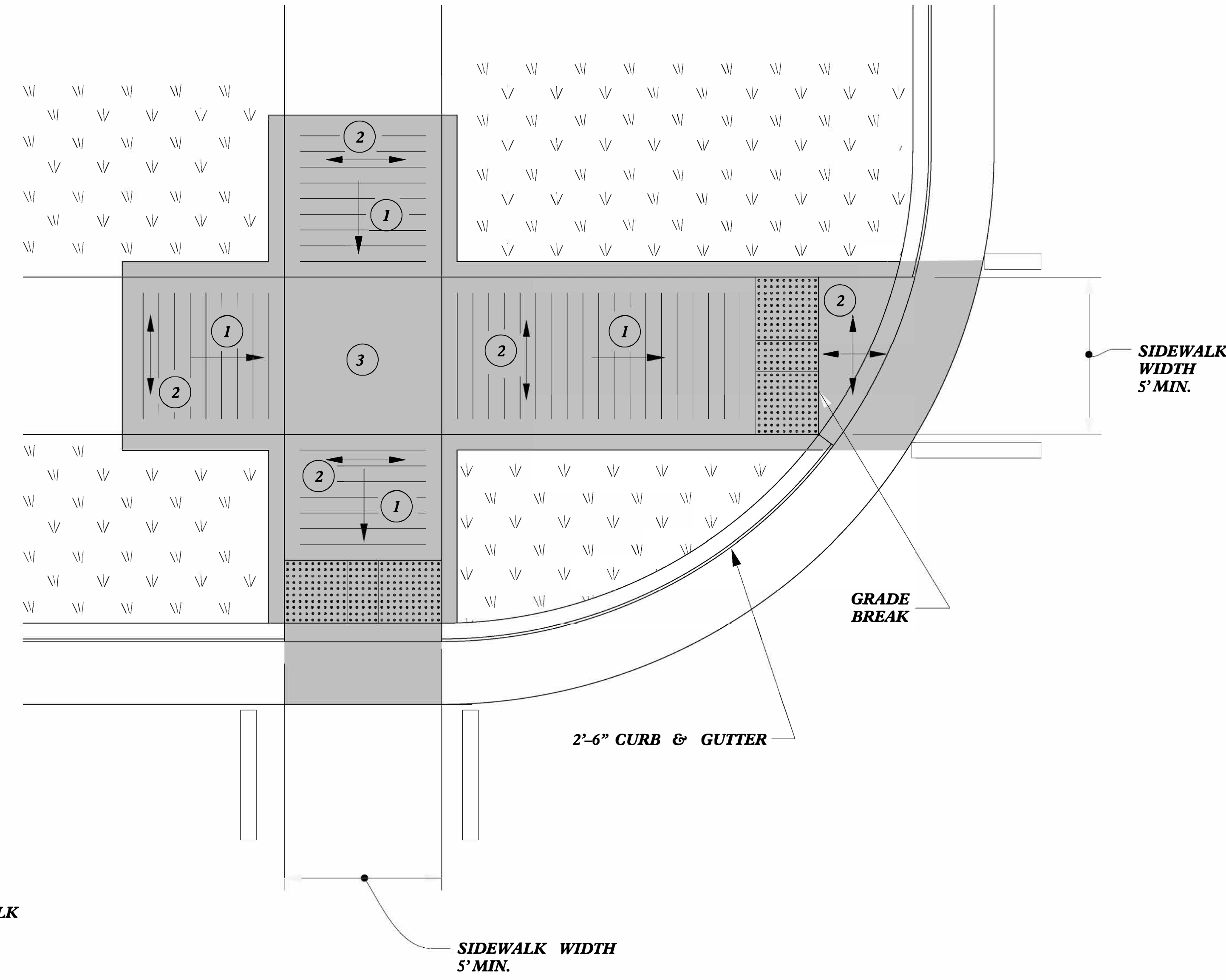
CURB RAMPS

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
 MODIFIED BY: DATE:
 CHECKED BY: DATE:
 FILE SPEC. stds/2012CurbRamp/CurbRampDetails.dgn

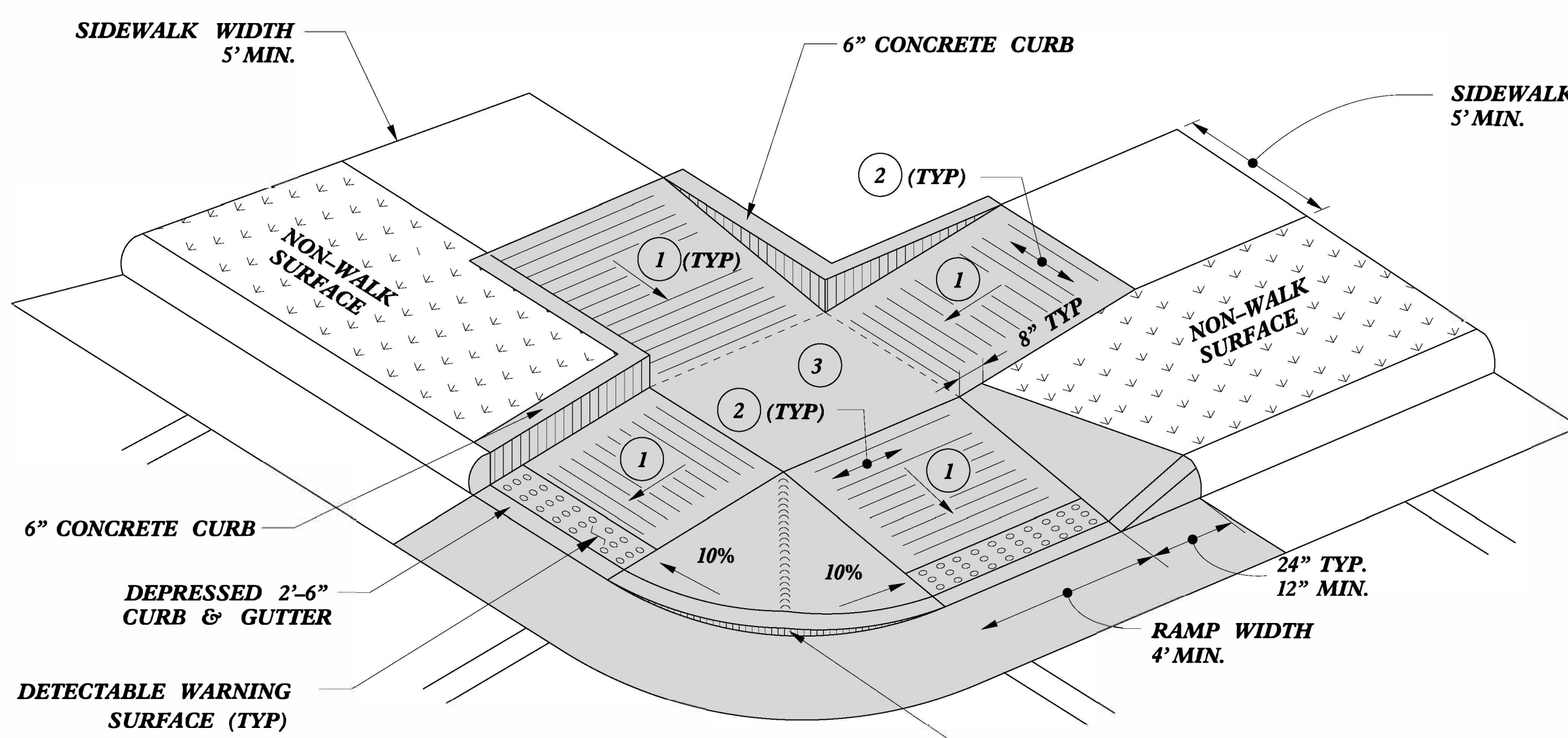
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99

PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS
OF TRUNCATED DOMES)

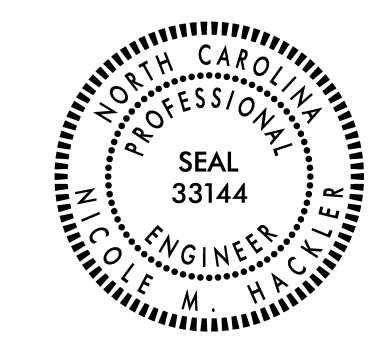


TYPE 5A



TYPE 5

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

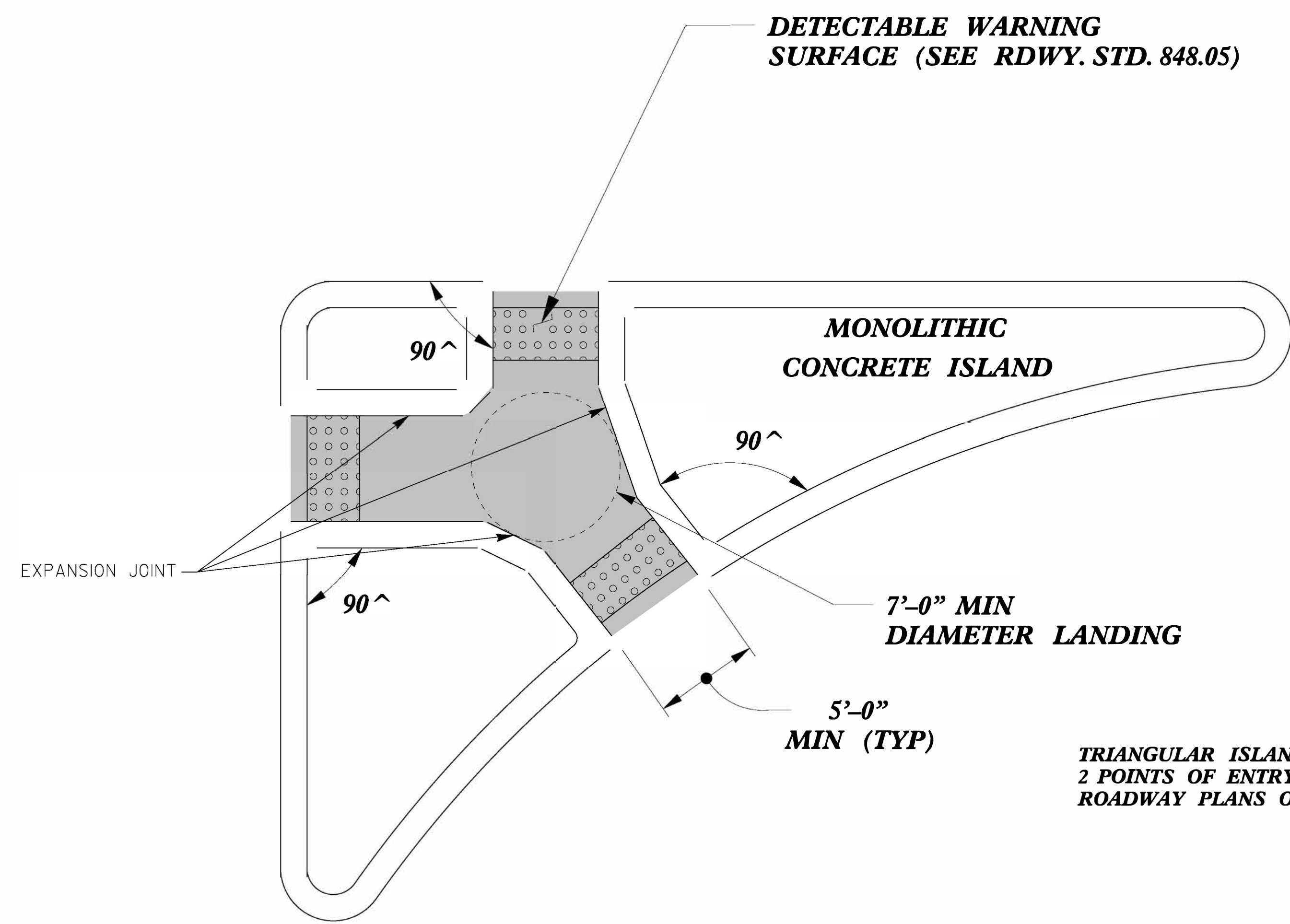
CURB RAMPS

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
 MODIFIED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99
 \$\$\$\$\$\$SYTIME\$\$\$\$\$\$
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 \$\$\$\$\$\$SUGERRIVE\$\$\$\$\$\$

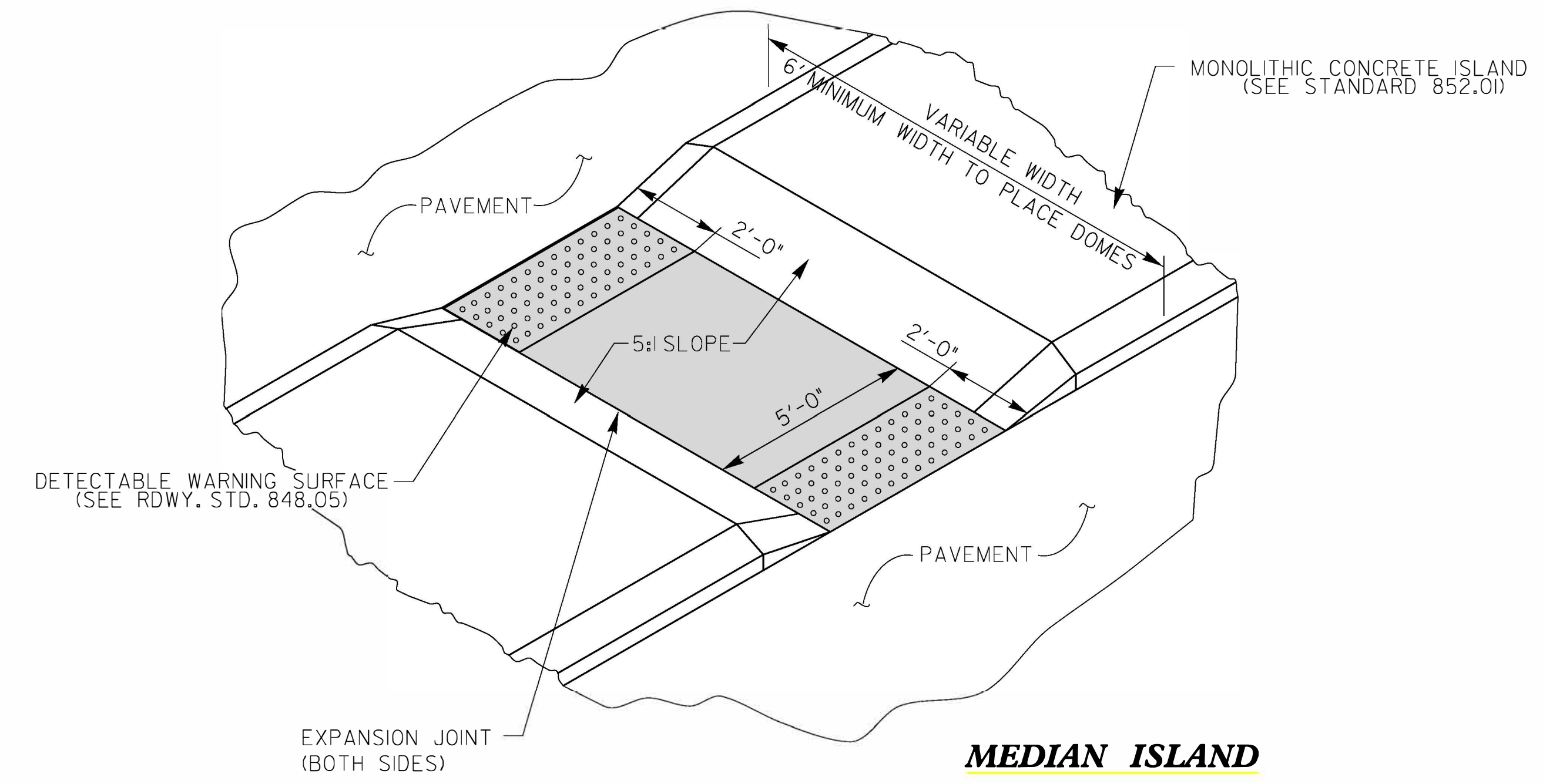
5/14/99



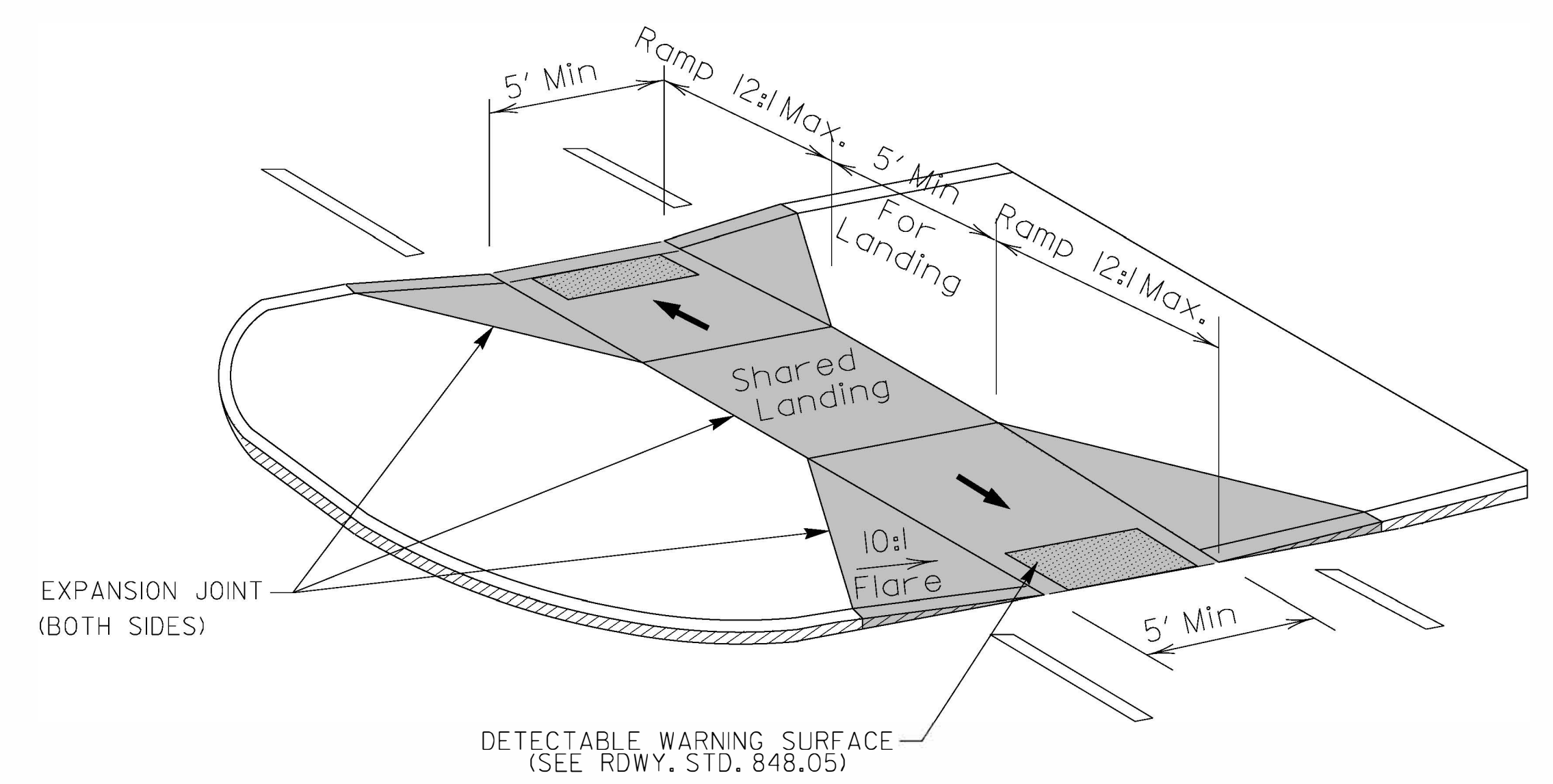
PAY LIMITS FOR 2 OR 3 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS OF TRUNCATED DOMES)

TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

TRIANGULAR ISLAND WITH CUT THROUGH
TYPE 6



MEDIAN ISLAND WITH CUT THROUGH
TYPE 7



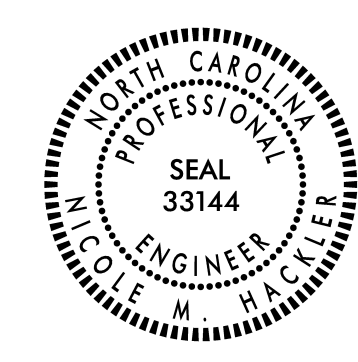
MEDIAN ISLAND CURB RAMPS
TYPE 8

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

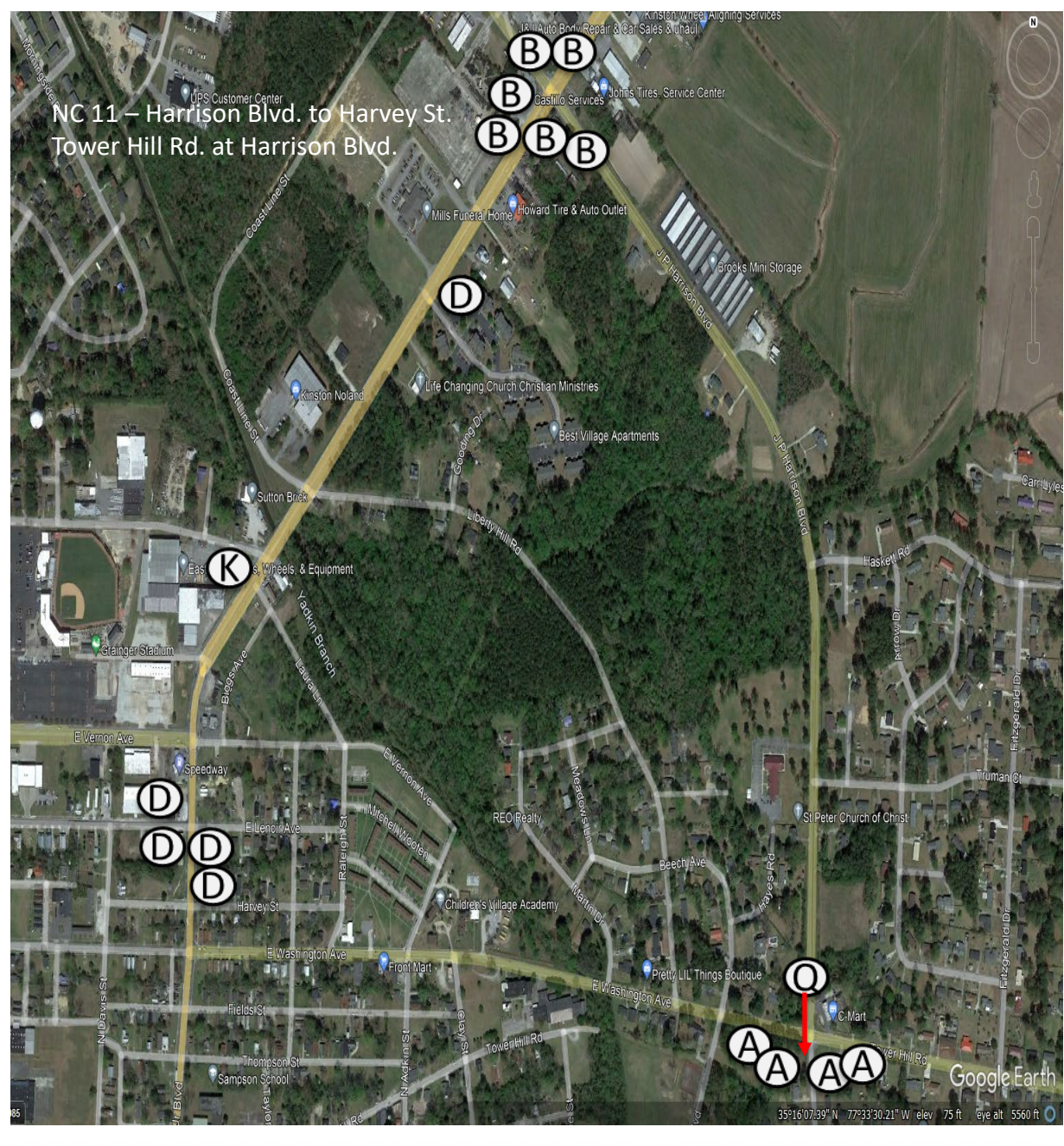
CURB RAMPS
Median or Turn Lane Islands

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn

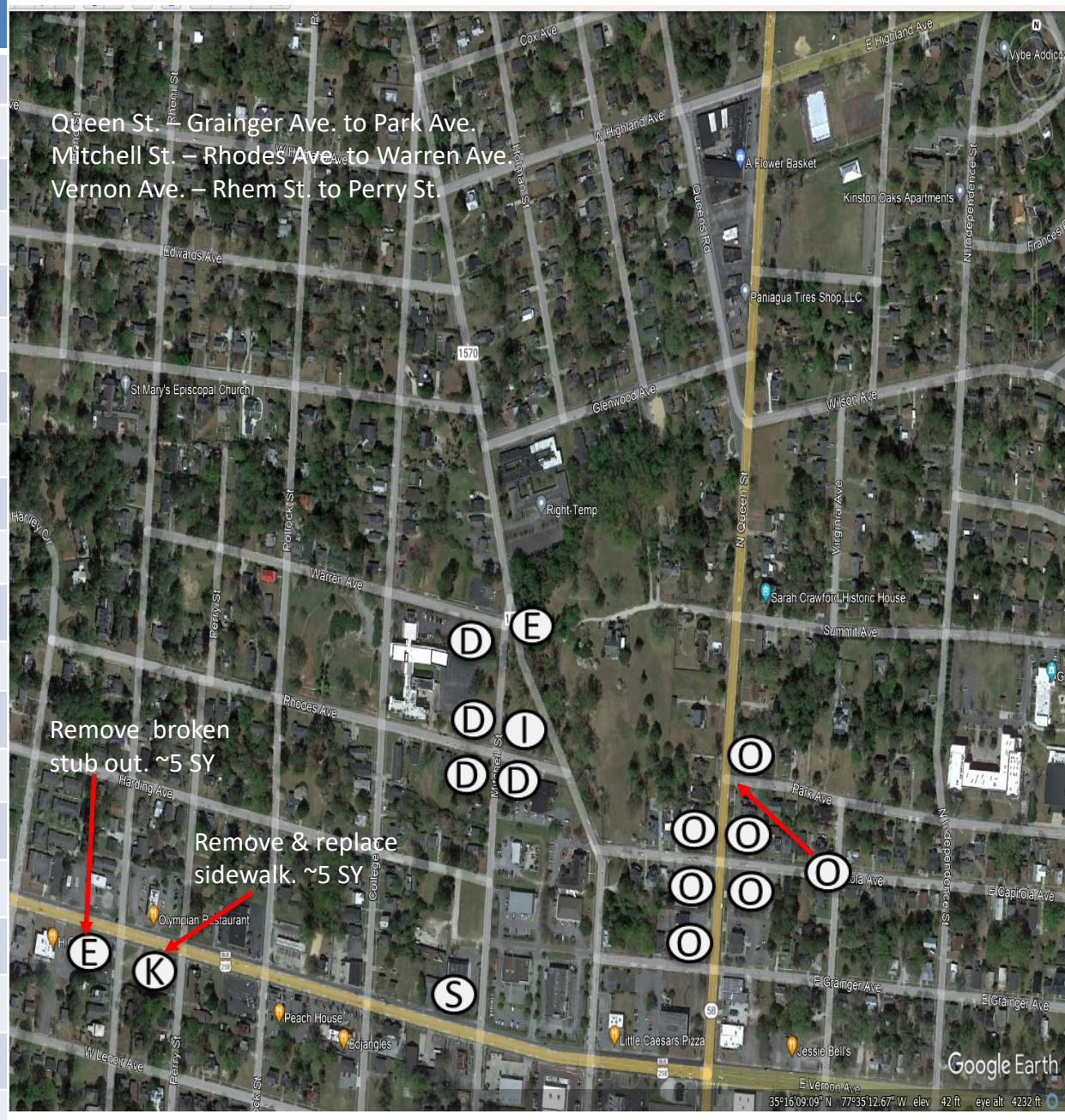


SYTIME
SUGERNAVE

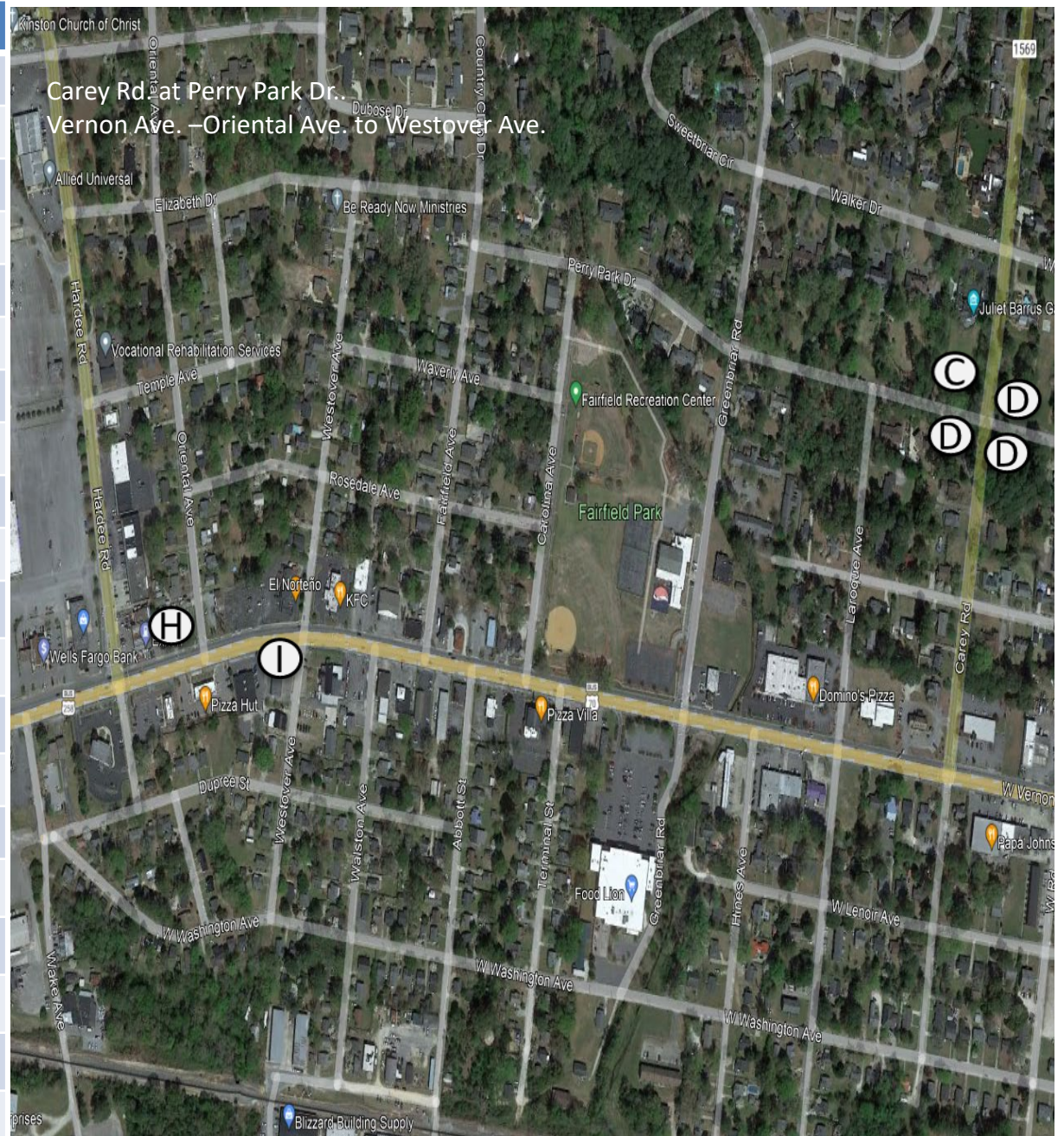
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B	Detectable Warning Domes Only	(B)
C	Type 1	(C)
D	Type 1 Modified	(D)
E	Type 1A	(E)
F	Type 1B	(F)
G	Type 2	(G)
H	Type 2A	(H)
I	Type 2A Modified	(I)
J	Type 3	(J)
K	Type 3 Modified	(K)
L	Type 4	(L)
M	Type 4A	(M)
N	Type 5	(N)
O	Type 5A	(O)
P	Type 6	(P)
Q	Type 7	(Q)
R	Type 8	(R)
S	Connect Sidewalk in front of Advance Auto (Approx. 9'x4')	(S)
T	Special Detail 1	(T)
U	Special Detail 2	(U)



A	Standard Wheelchair Ramp 848.05	(A)
B	Detectable Warning Domes Only	(B)
C	Type 1	(C)
D	Type 1 Modified	(D)
E	Type 1A	(E)
F	Type 1B	(F)
G	Type 2	(G)
H	Type 2A	(H)
I	Type 2A Modified	(I)
J	Type 3	(J)
K	Type 3 Modified	(K)
L	Type 4	(L)
M	Type 4A	(M)
N	Type 5	(N)
O	Type 5A	(O)
P	Type 6	(P)
Q	Type 7	(Q)
R	Type 8	(R)
S	Connect Sidewalk in front of Advance Auto (Approx. 9'x4')	(S)
T	Special Detail 1	(T)
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B	Detectable Warning Domes Only	(B)
C	Type 1	(C)
D	Type 1 Modified	(D)
E	Type 1A	(E)
F	Type 1B	(F)
G	Type 2	(G)
H	Type 2A	(H)
I	Type 2A Modified	(I)
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L	Type 4	(L)
M	Type 4A	(M)
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Q	Type 7	(Q)
R	Type 8	(R)
S	Connect Sidewalk in front of Advance Auto (Approx. 9'x4')	(S)
T	Special Detail 1	(T)
U	Special Detail 2	(U)



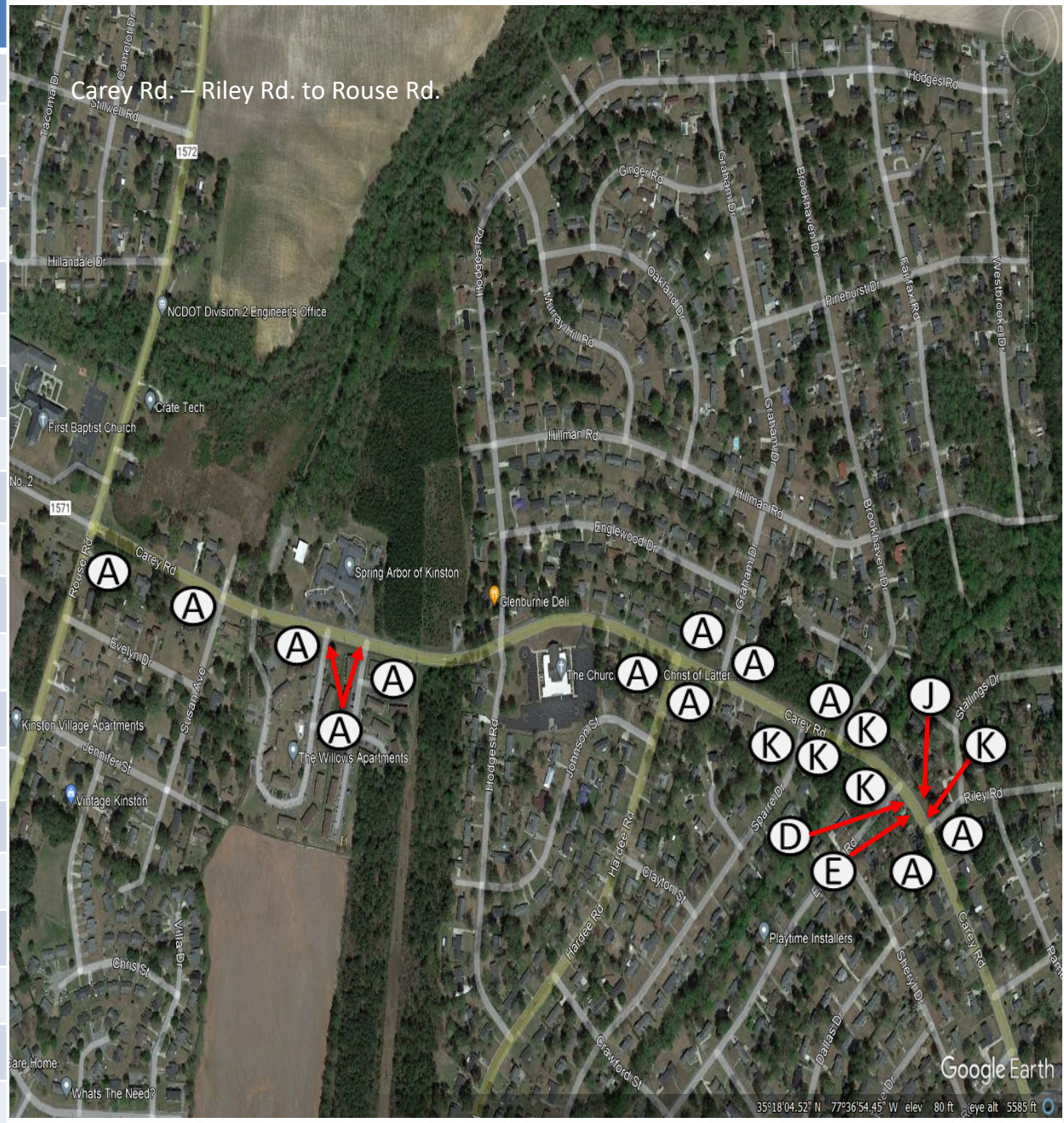
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B	Detectable Warning Domes Only	(B)
C	Type 1	(C)
D	Type 1 Modified	(D)
E	Type 1A	(E)
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G	Type 2	(G)
H	Type 2A	(H)
I	Type 2A Modified	(I)
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L	Type 4	(L)
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N	Type 5	(N)
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Q	Type 7	(Q)
R	Type 8	(R)
S	Connect Sidewalk in front of Advance Auto (Approx. 9'x4')	(S)
T	Special Detail 1	(T)
U	Special Detail 2	(U)



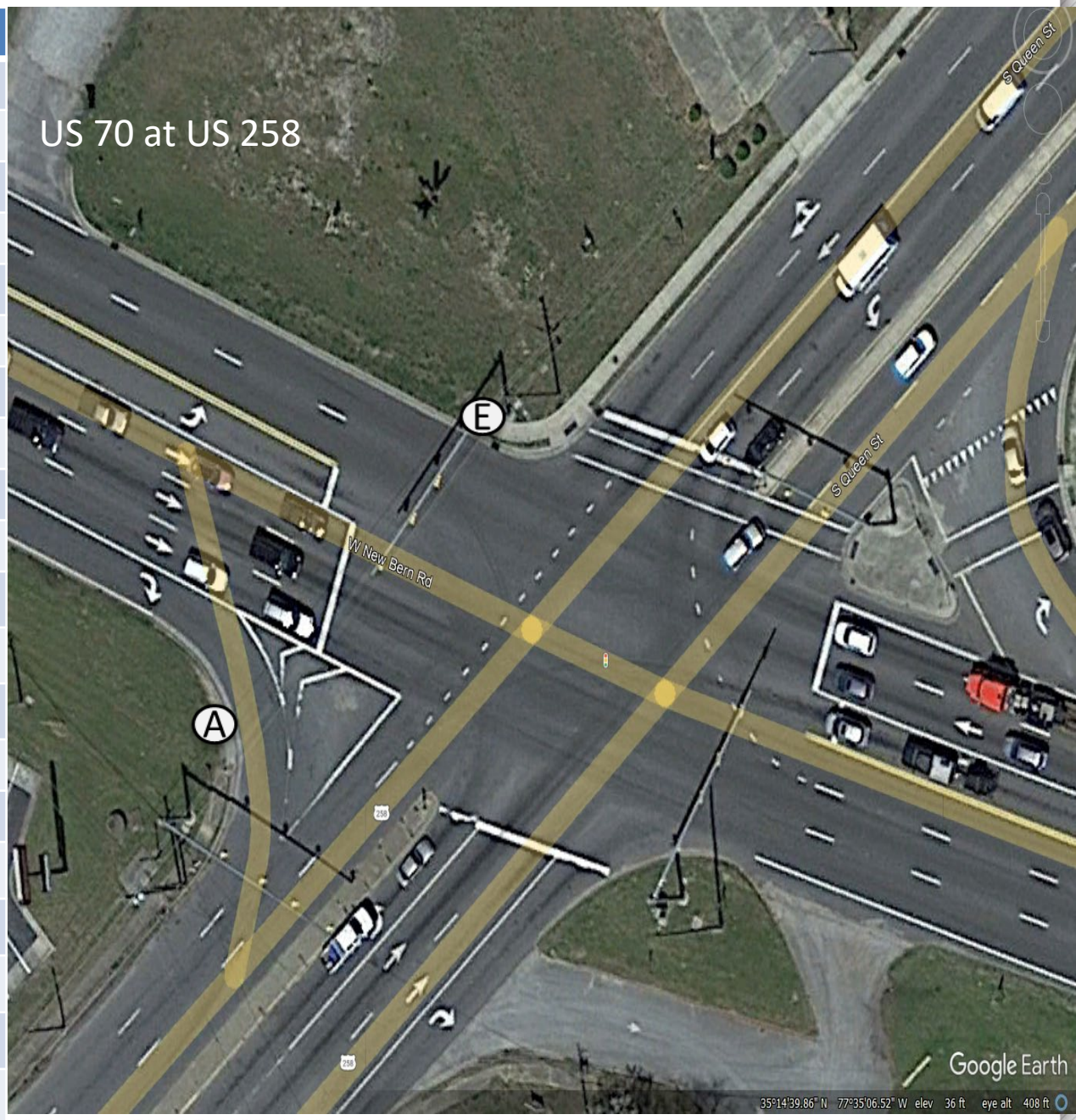
A	Standard Wheelchair Ramp 848.05	(A)
B	Detectable Warning Domes Only	(B)
C	Type 1	(C)
D	Type 1 Modified	(D)
E	Type 1A	(E)
F	Type 1B	(F)
G	Type 2	(G)
H	Type 2A	(H)
I	Type 2A Modified	(I)
J	Type 3	(J)
K	Type 3 Modified	(K)
L	Type 4	(L)
M	Type 4A	(M)
N	Type 5	(N)
O	Type 5A	(O)
P	Type 6	(P)
Q	Type 7	(Q)
R	Type 8	(R)
S	Connect Sidewalk in front of Advance Auto (Approx. 9'x4')	(S)
T	Special Detail 1	(T)
U	Special Detail 2	(U)

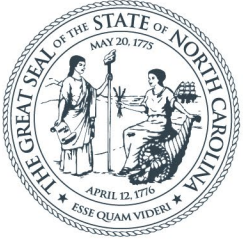


A	Standard Wheelchair Ramp 848.05	(A)
B	Detectable Warning Domes Only	(B)
C	Type 1	(C)
D	Type 1 Modified	(D)
E	Type 1A	(E)
F	Type 1B	(F)
G	Type 2	(G)
H	Type 2A	(H)
I	Type 2A Modified	(I)
J	Type 3	(J)
K	Type 3 Modified	(K)
L	Type 4	(L)
M	Type 4A	(M)
N	Type 5	(N)
O	Type 5A	(O)
P	Type 6	(P)
Q	Type 7	(Q)
R	Type 8	(R)
S	Connect Sidewalk in front of Advance Auto (Approx. 9'x4')	(S)
T	Special Detail 1	(T)
U	Special Detail 2	(U)



A	Standard Wheelchair Ramp 848.05	(A)
B	Detectable Warning Domes Only	(B)
C	Type 1	(C)
D	Type 1 Modified	(D)
E	Type 1A	(E)
F	Type 1B	(F)
G	Type 2	(G)
H	Type 2A	(H)
I	Type 2A Modified	(I)
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K	Type 3 Modified	(K)
L	Type 4	(L)
M	Type 4A	(M)
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P	Type 6	(P)
Q	Type 7	(Q)
R	Type 8	(R)
S	Connect Sidewalk in front of Advance Auto (Approx. 9'x4')	(S)
T	Special Detail 1	(T)
U	Special Detail 2	(U)





NORTH CAROLINA

Department of Transportation



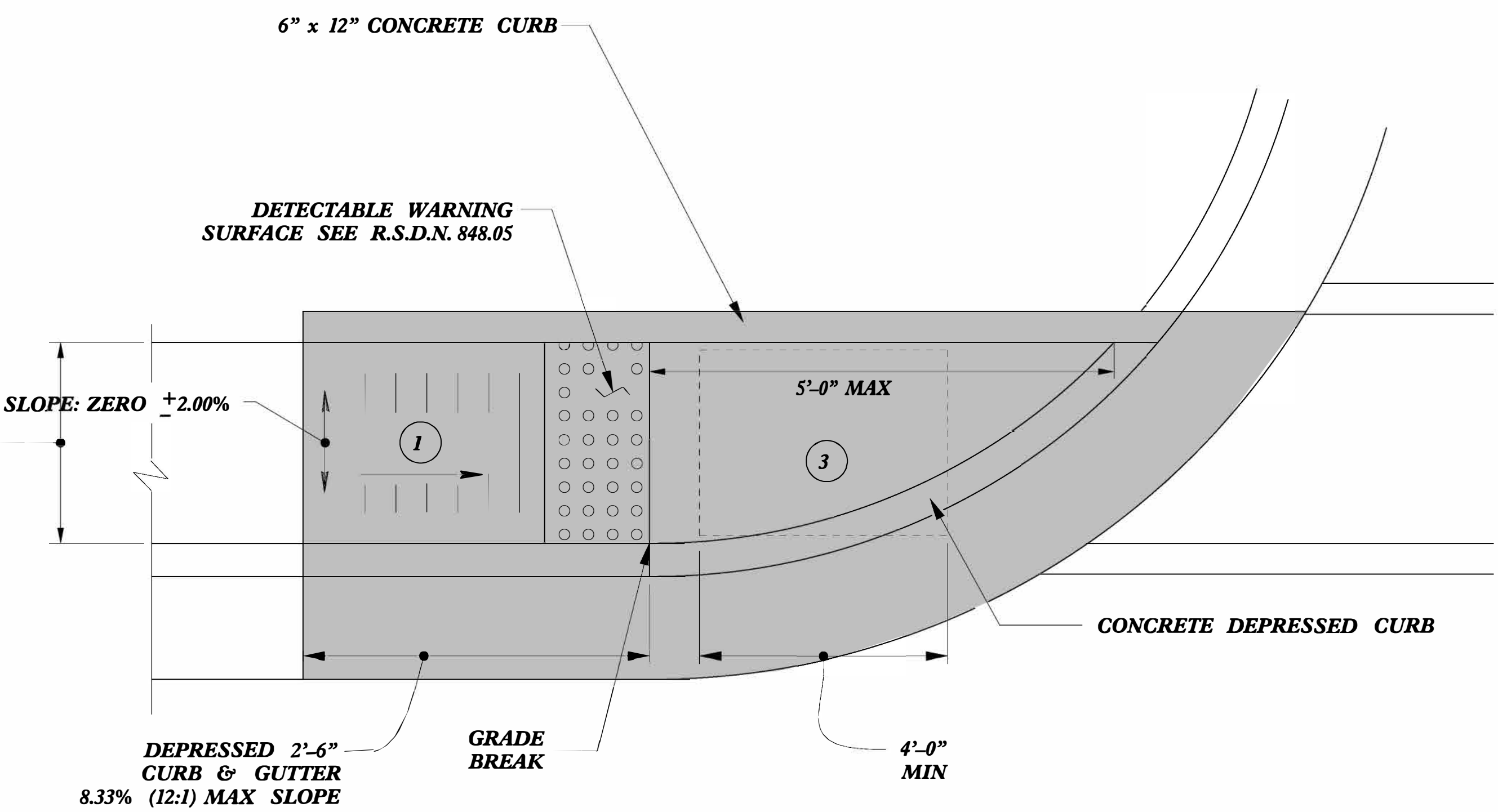
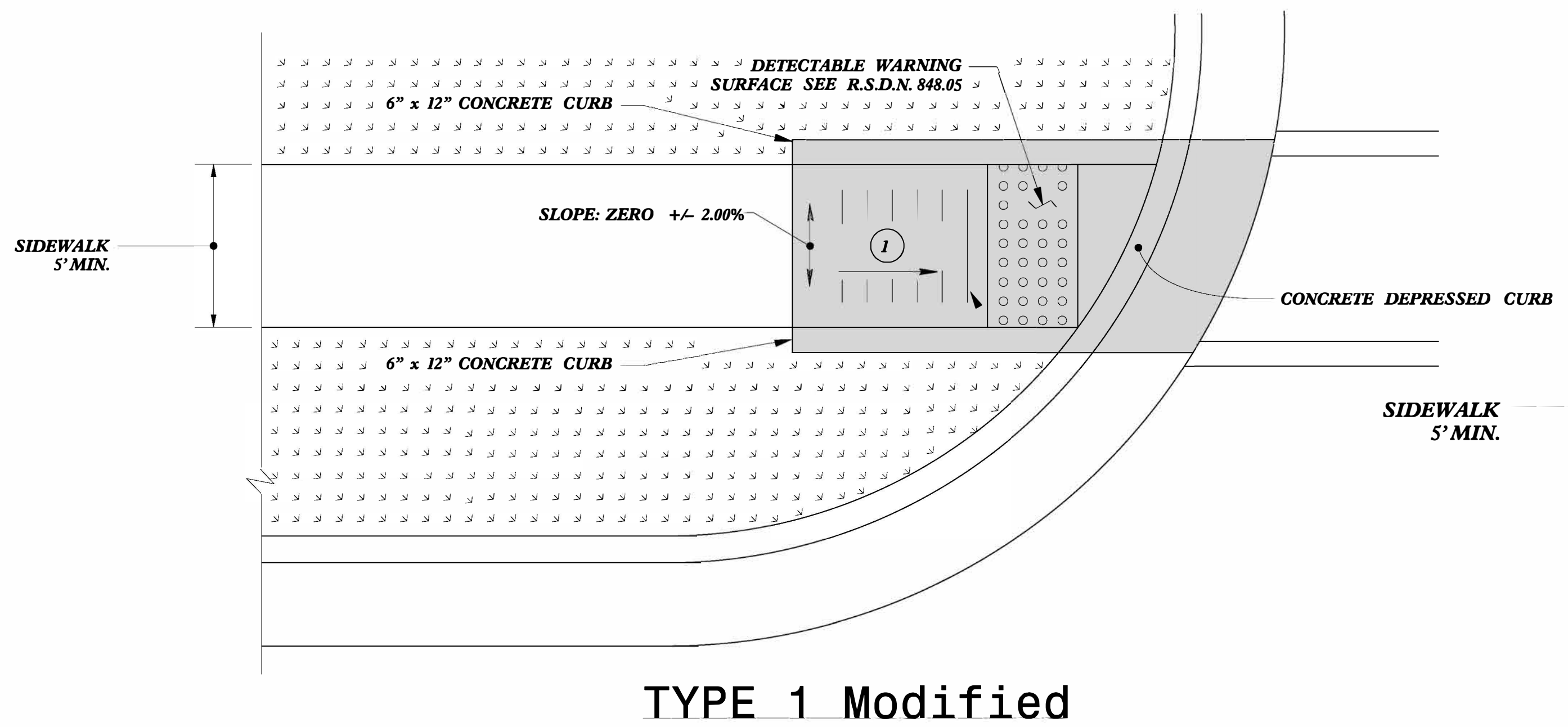
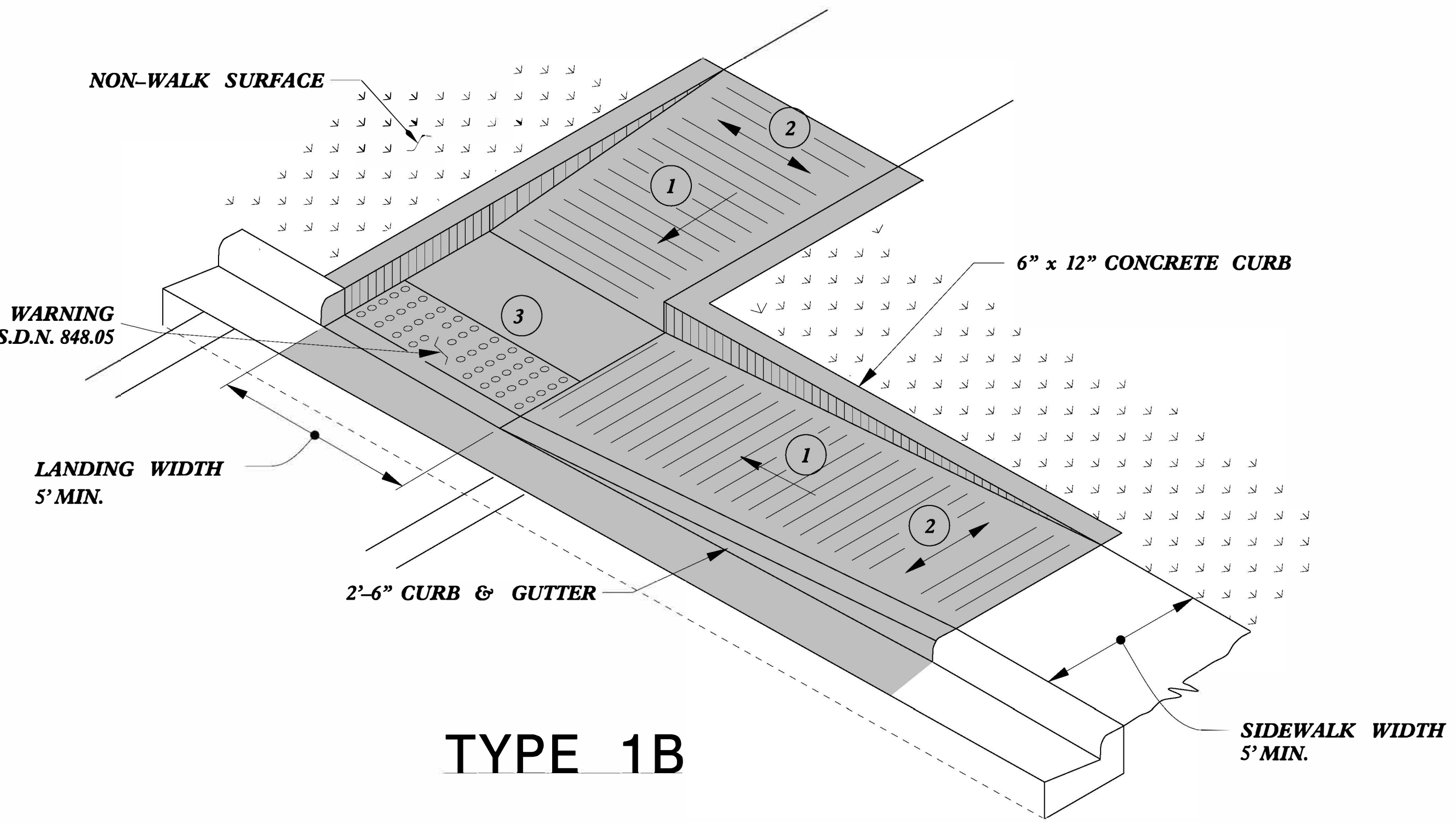
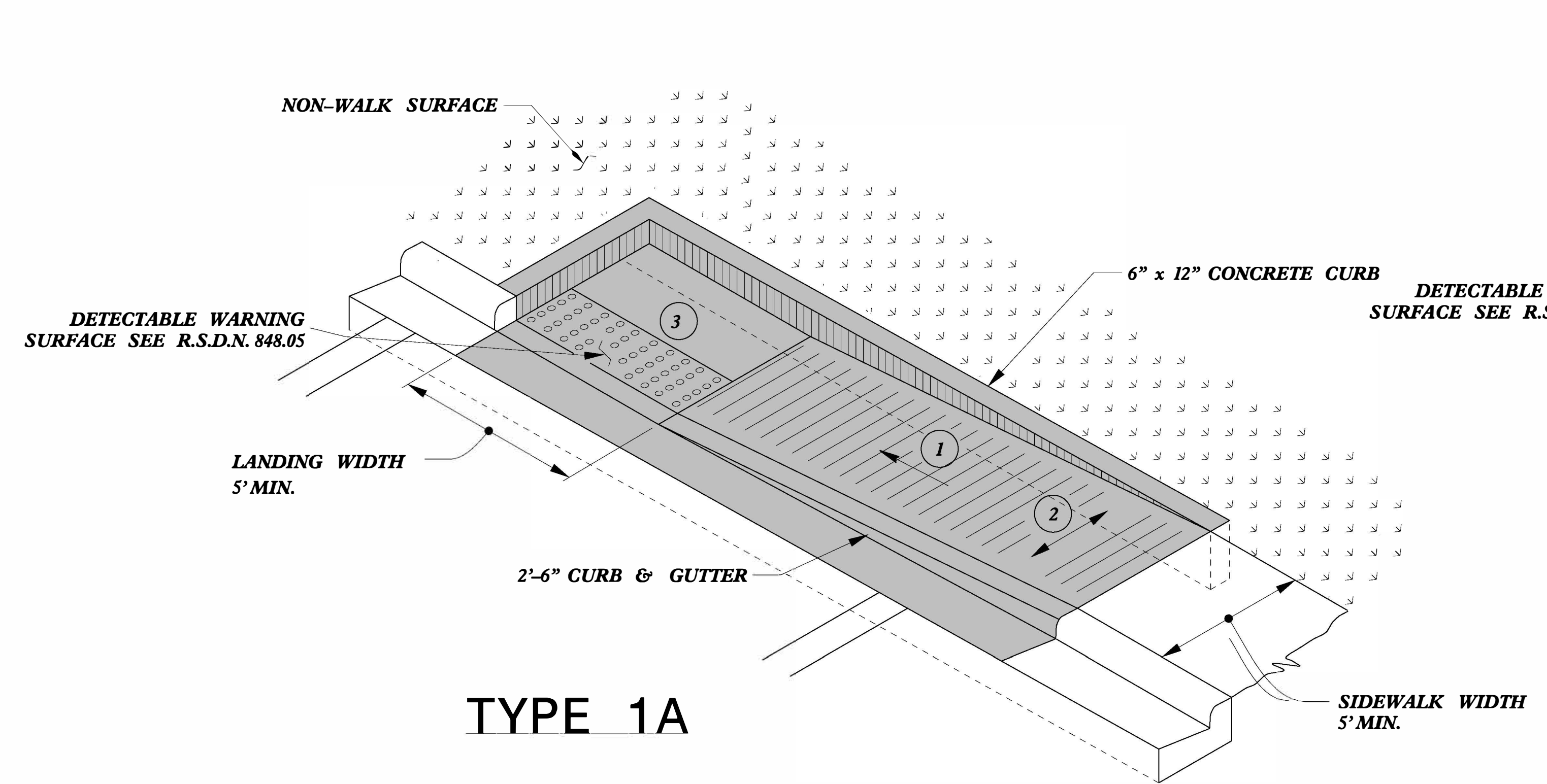
R-57820B Sidewalk Ramps Project

Casey Whitley, PE, PLS

2023

Town of La Grange

5/14/99

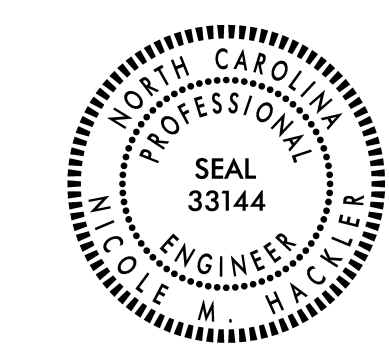


- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



PAY LIMITS FOR 1 CURB RAMP

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

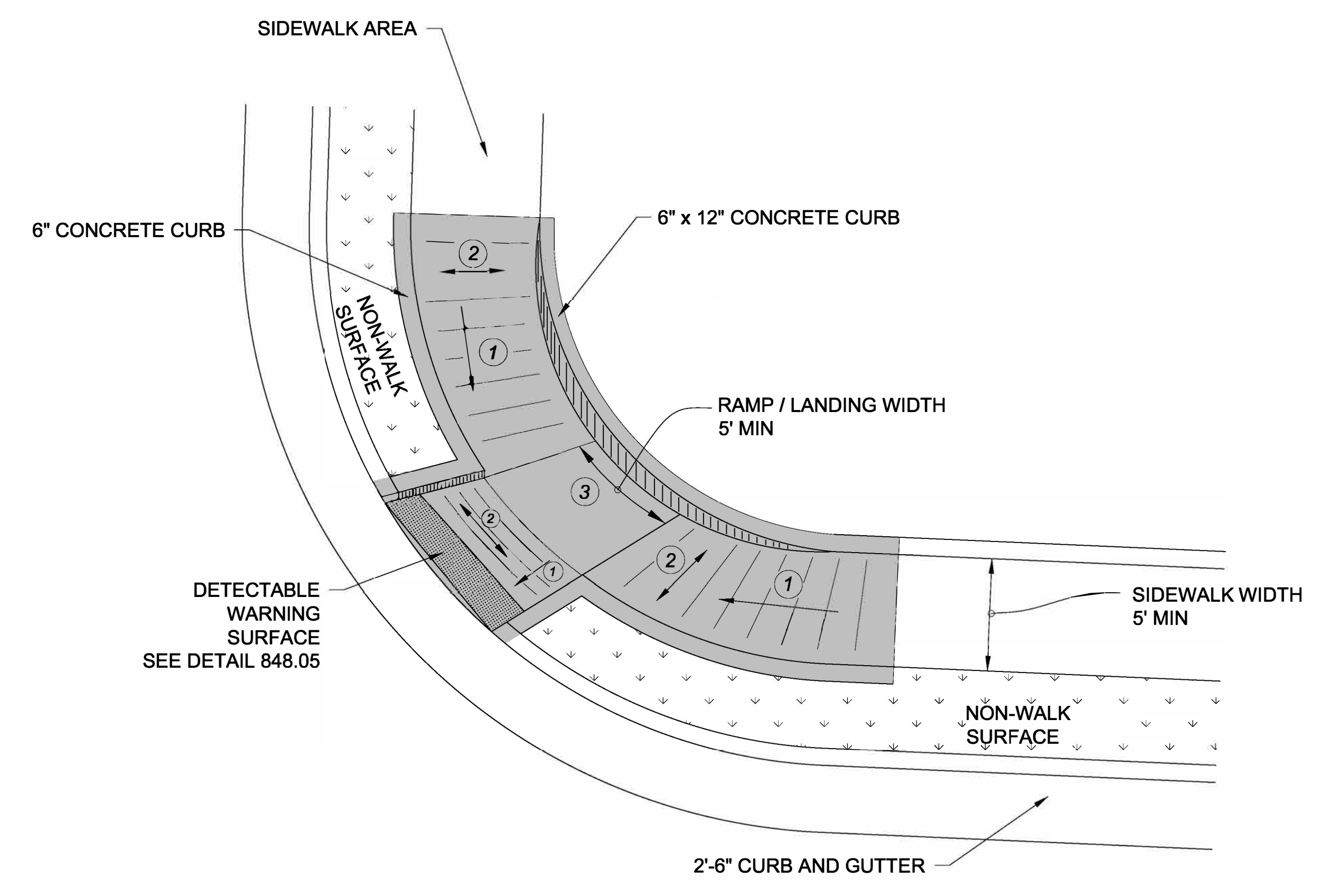


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

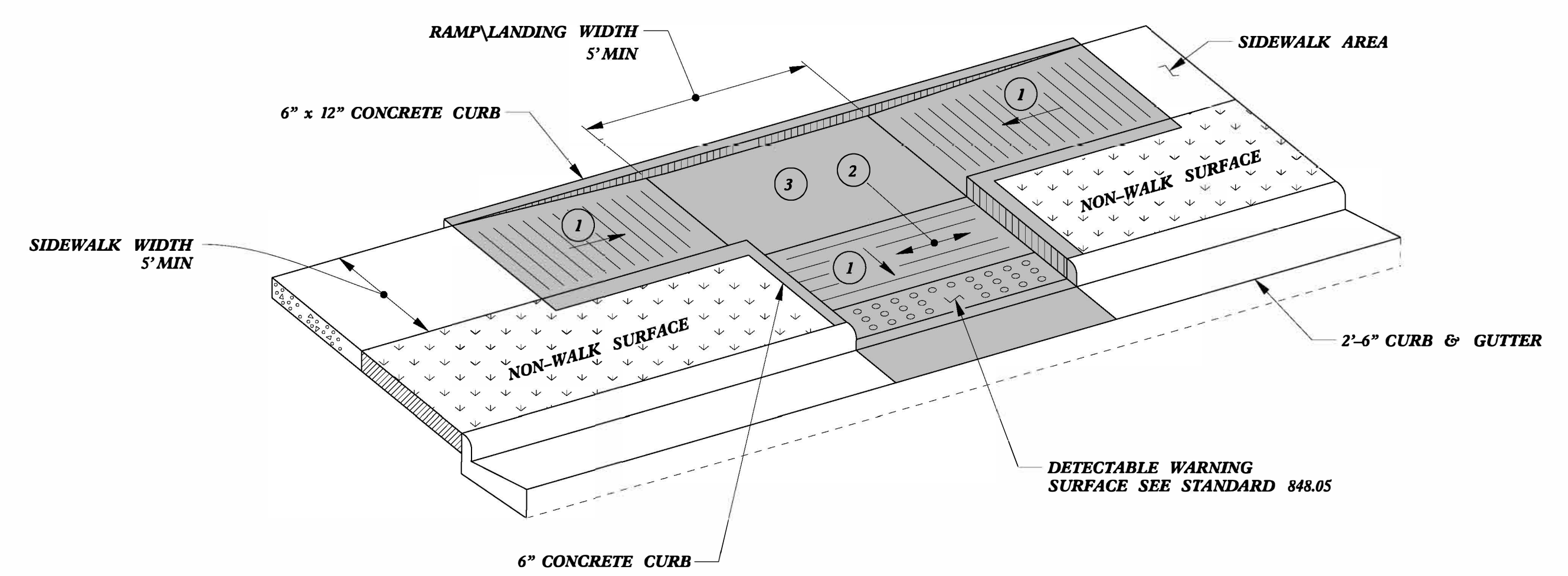
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Directional Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. :stds/2012CurbRamp/CurbRampDetails.dgn	

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 USER: JSH
 DATE: 7/7/11 10:58 AM

PAY LIMITS FOR 1 CURB RAMP



**TYPE 3 MODIFIED
INSTALLATION IN A RADIUS**



TYPE 3

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

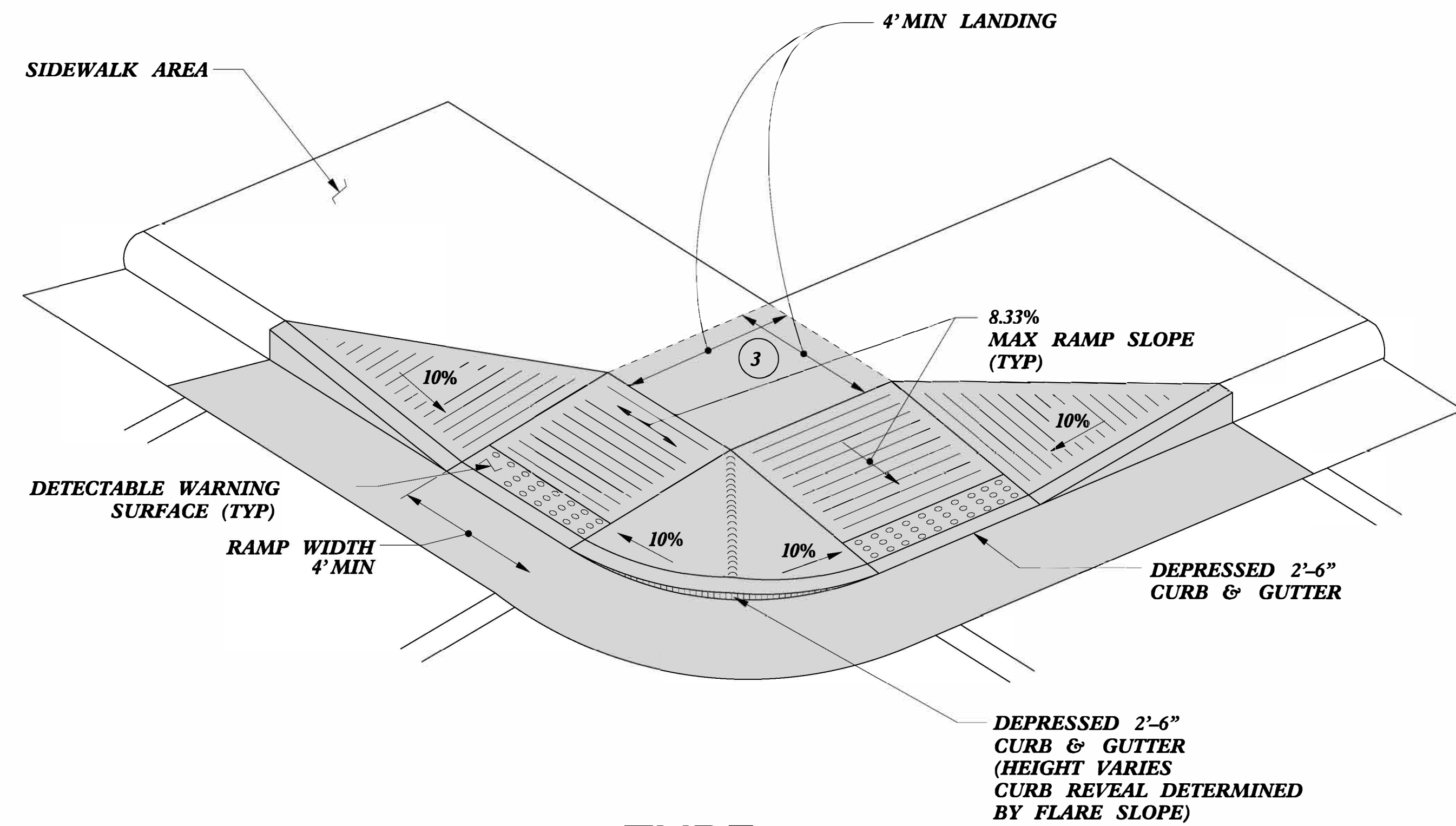


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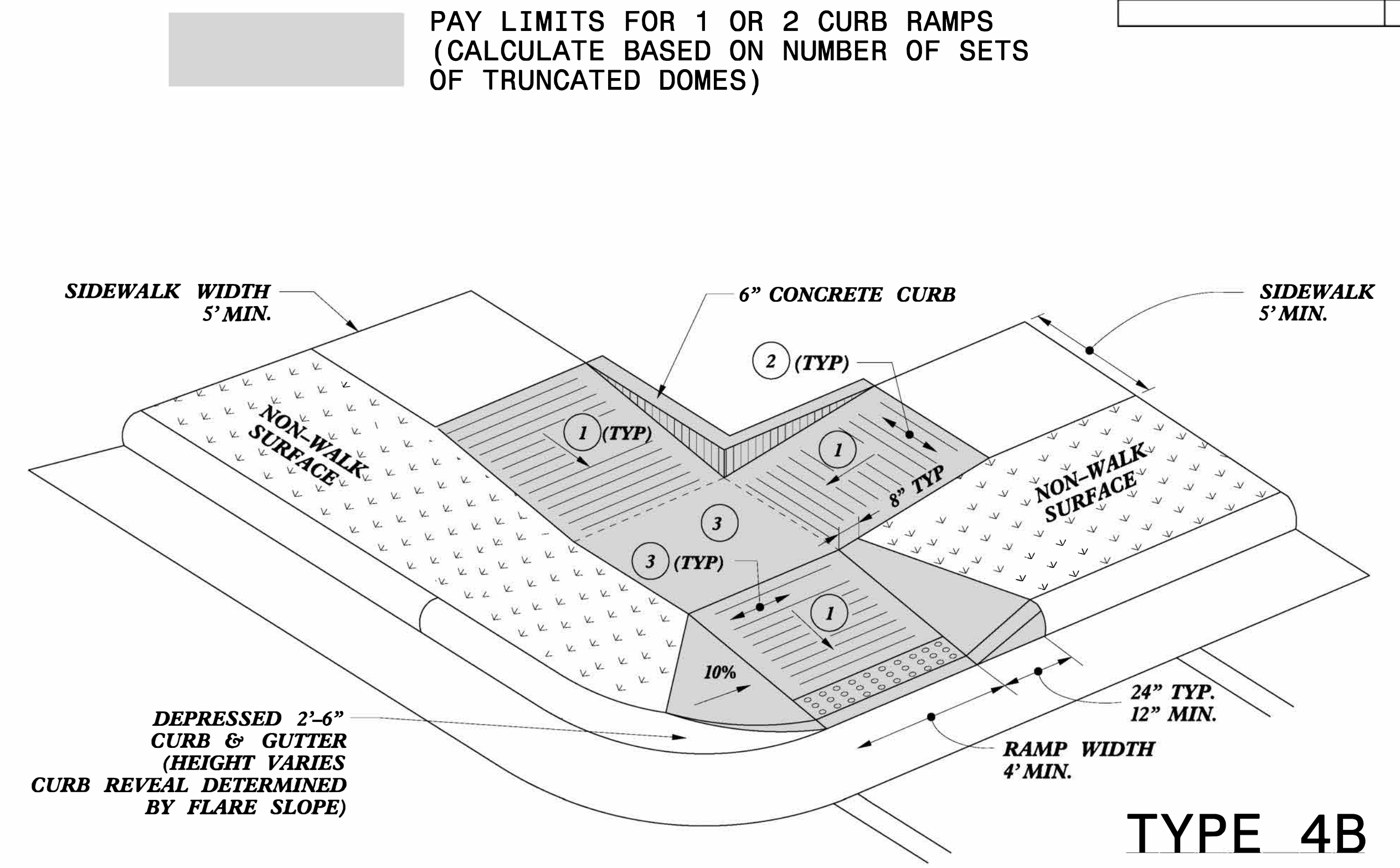
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. :stds/2012CurbRamp/CurbRampDetails.dgn	

5/14/99
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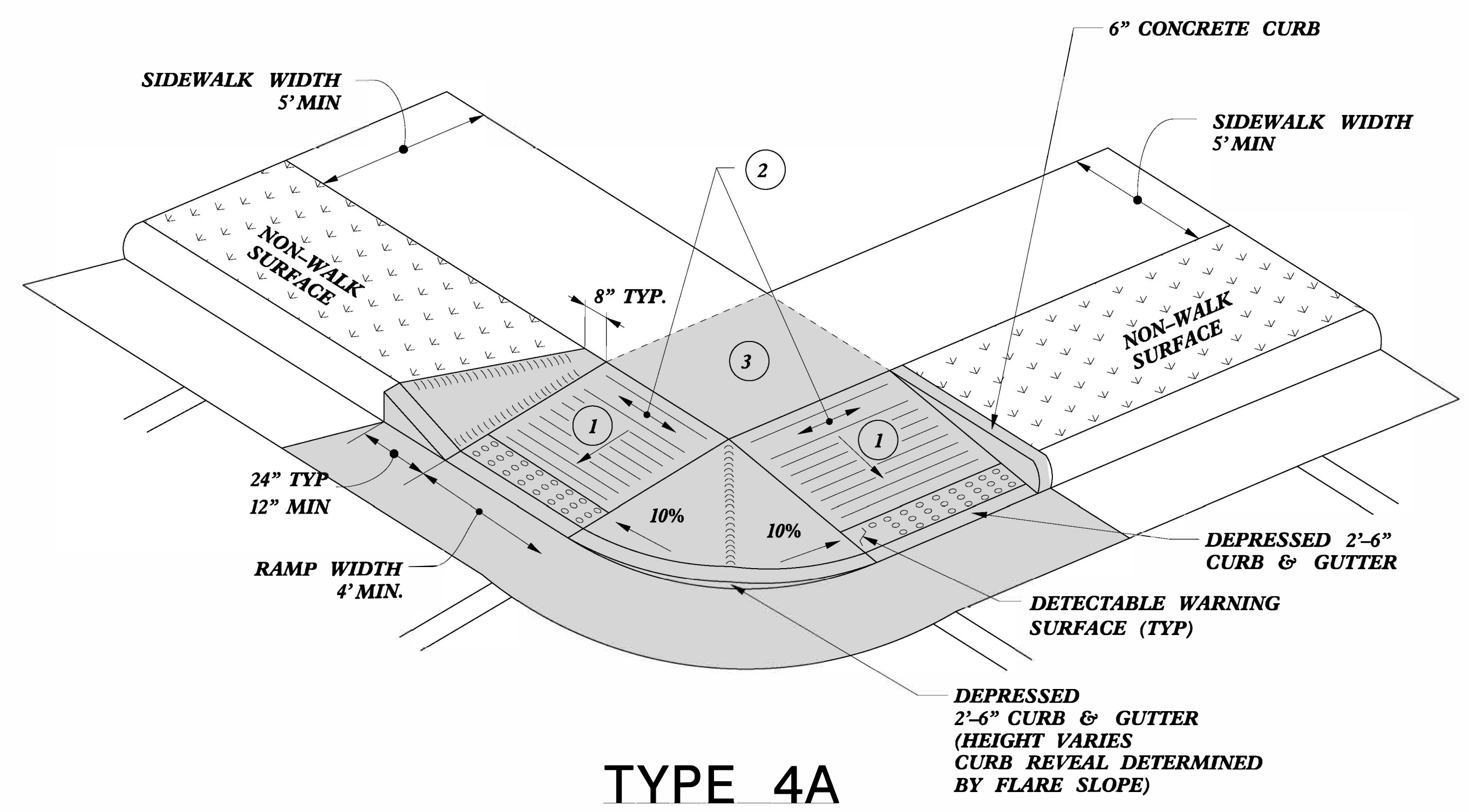
5/14/99



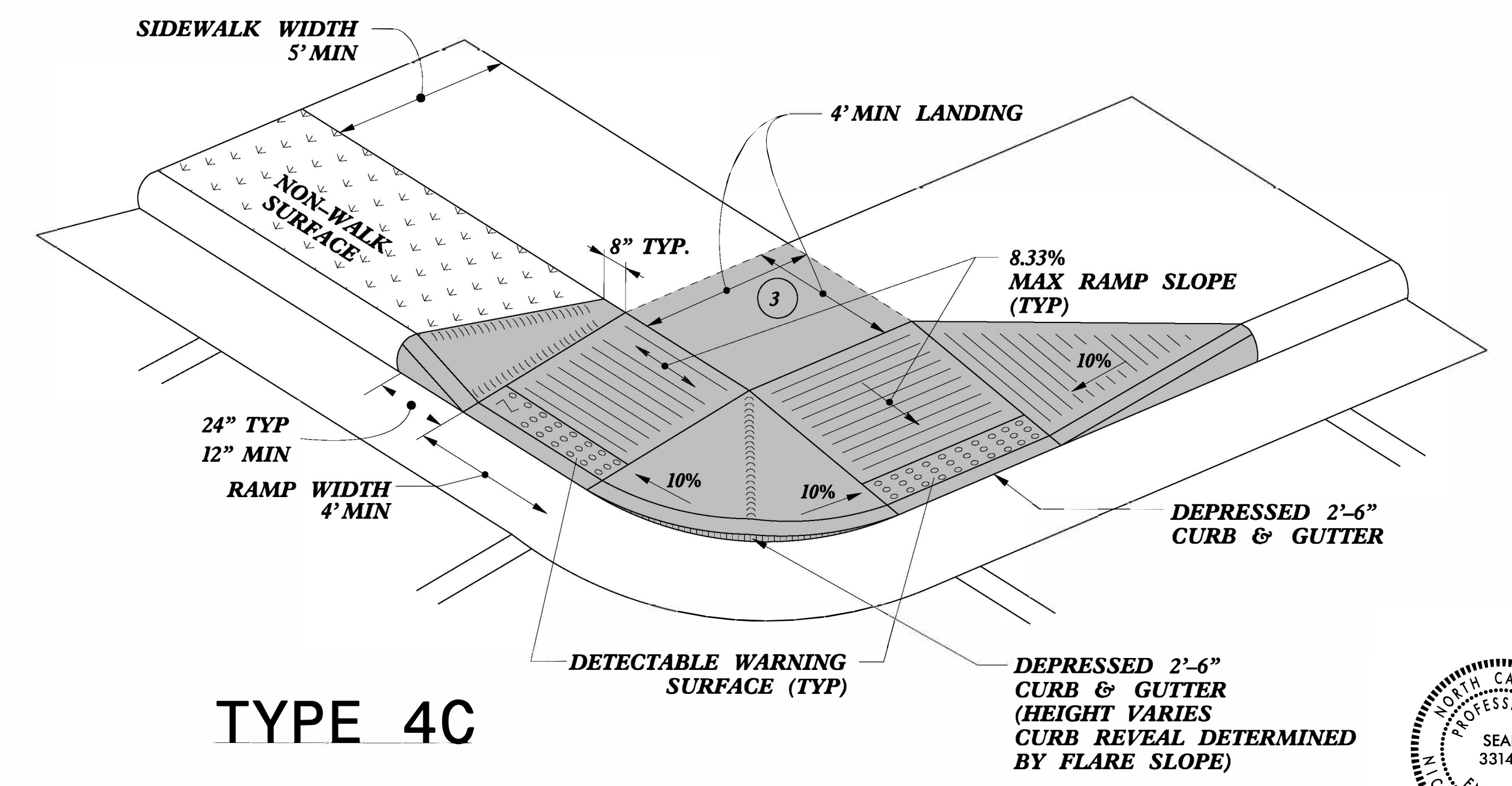
TYPE 4



TYPE 4B



TYPE 4A



TYPE 4C

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



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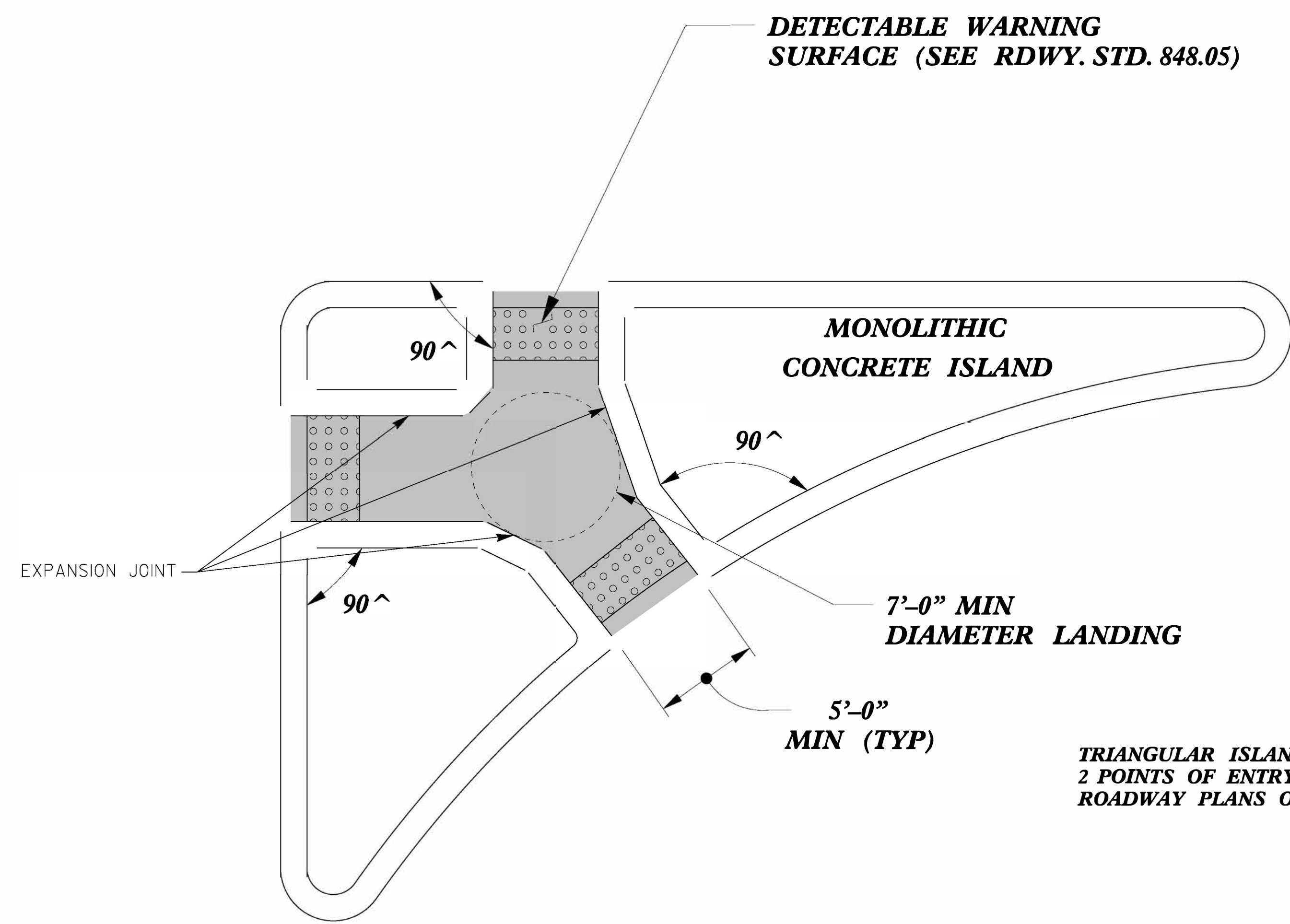
CURB RAMPS

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
 MODIFIED BY: DATE:
 CHECKED BY: DATE:
 FILE SPEC. stds/2012CurbRamp/CurbRampDetails.dgn

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99

5/14/99



DETECTABLE WARNING SURFACE (SEE RDWY. STD. 848.05)

PAY LIMITS FOR 2 OR 3 CURB RAMPS (CALCULATE BASED ON NUMBER OF SETS OF TRUNCATED DOMES)

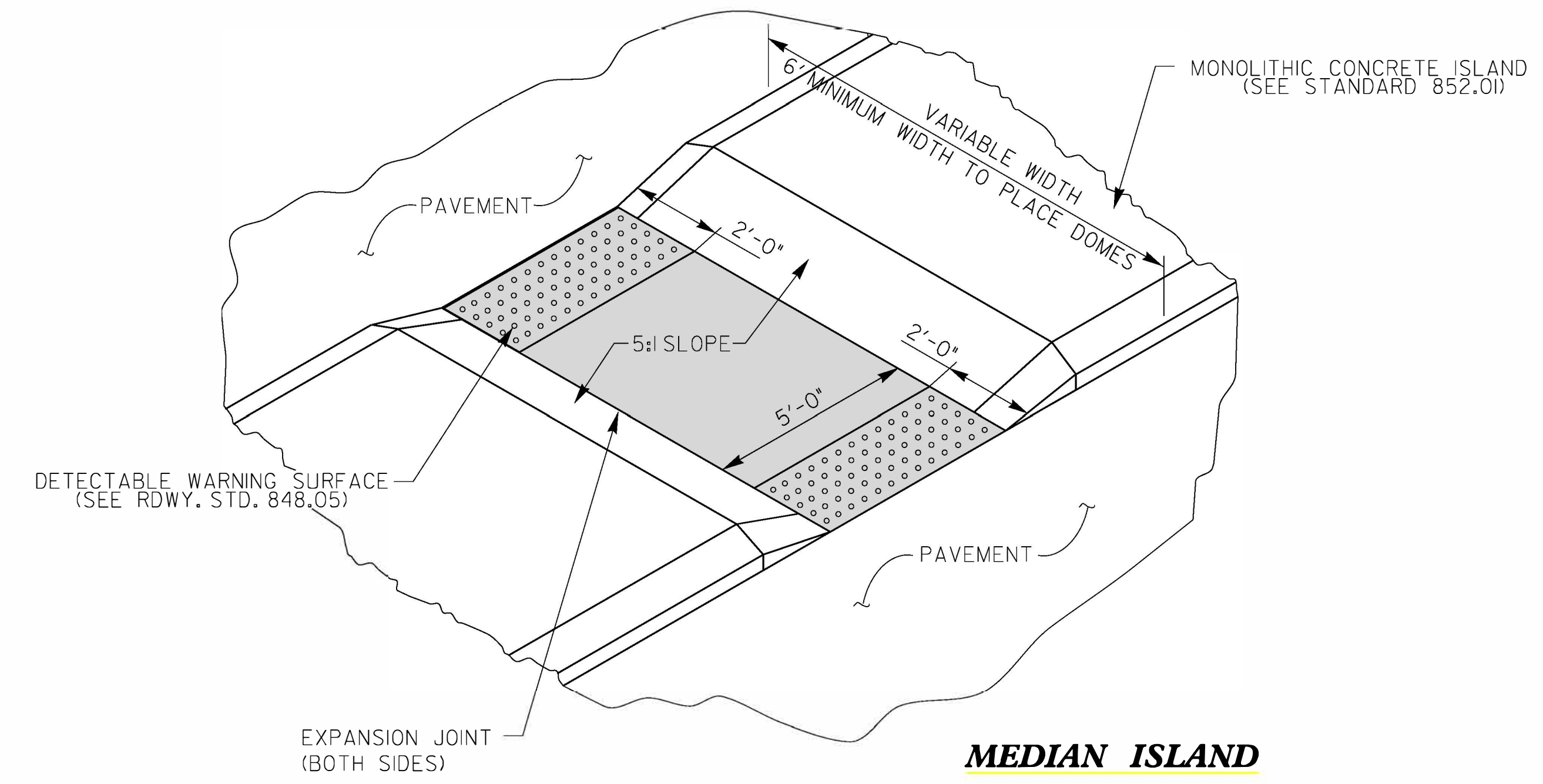
MONOLITHIC CONCRETE ISLAND

7'-0" MIN DIAMETER LANDING

5'-0" MIN (TYP)

TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

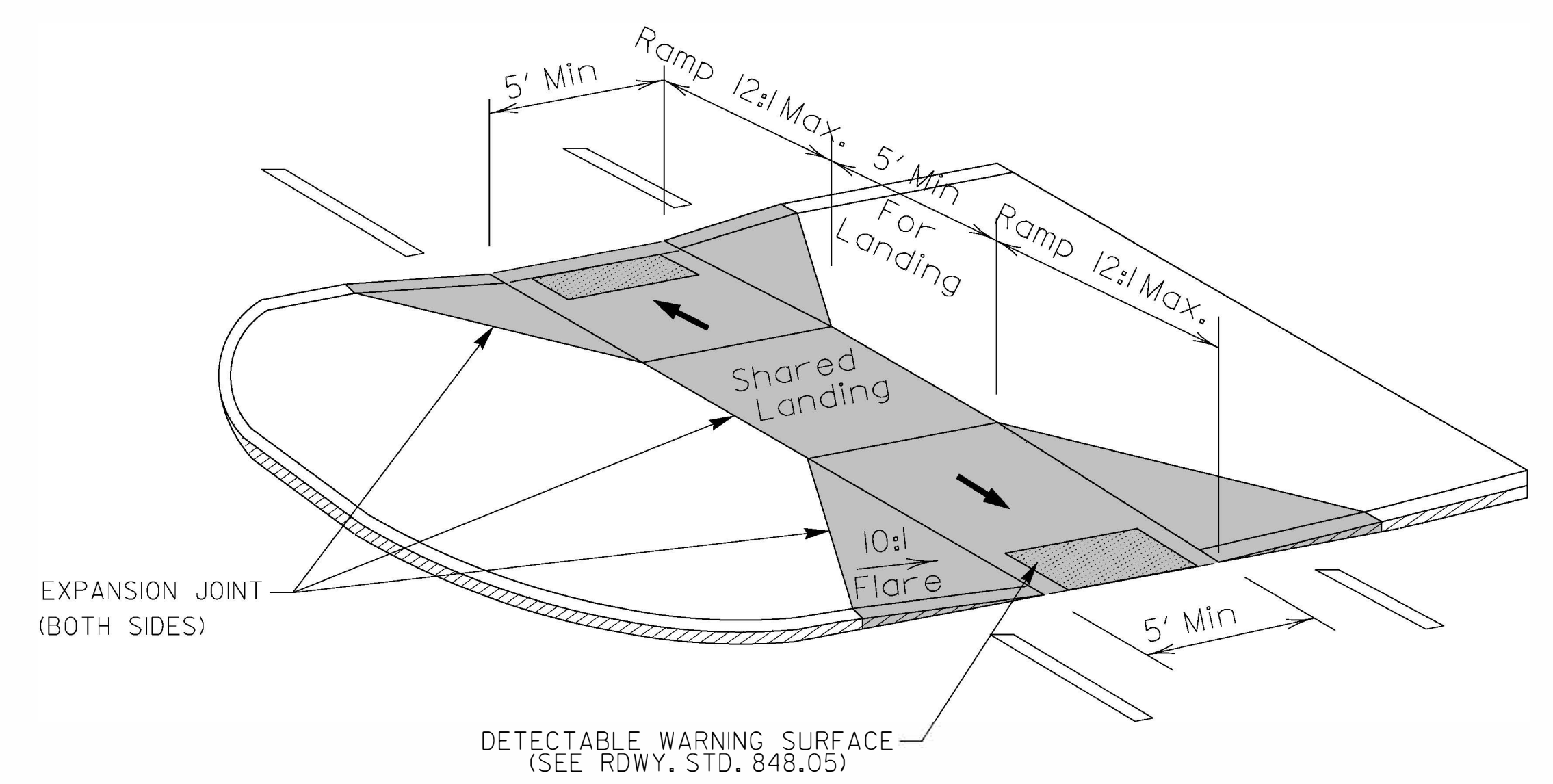
TRIANGULAR ISLAND WITH CUT THROUGH TYPE 6



DETECTABLE WARNING SURFACE (SEE RDWY. STD. 848.05)

MONOLITHIC CONCRETE ISLAND (SEE STANDARD 852.01)

MEDIAN ISLAND WITH CUT THROUGH TYPE 7



TYPE 8

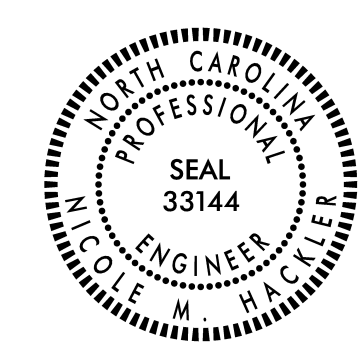
MEDIAN ISLAND CURB RAMPS

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Office 919-707-6950 FAX 919-250-4119

CURB RAMPS
Median or Turn Lane Islands

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn



SYTIME 6666
SUGERNAVE 6666

Special Detail A

Place a Type 1B ramp here to carry pedestrian traffic north

Force Pedestrian Traffic this way

Extend Curb approx. 4 feet

A	Standard Wheelchair Ramp 848.05	(A)
B	Detectable Warning Domes Only	(B)
C	Type 1	(C)
D	Type 1 Modified	(D)
E	Type 1B	(E)
F	Type 2	(F)
G	Type 2A	(G)
H	Type 3	(H)
I	Type 3 Modified	(I)
J	Type 4	(J)
K	Type 5	(K)
L	Median Island curb ramps	(L)
M	Median island with Cut through	(M)
N	Triangular island with Cut through	(N)
O	Special Detail A	(O)
P	Special Detail B	(P)



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P	Special Detail B	(P)

