



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

October 15, 2024

CONTRACT: DB00601
TIP NUMBER: BO-2402A
WBS ELEMENT: 50931.3.3
COUNTY: BEAUFORT, GREENE, LENOIR, AND PITT
ROUTE: VARIOUS
DESCRIPTION: TAP ADA COMPLIANT CURB RAMPS AT VARIOUS
LOCATIONS IN BEAUFORT, GREENE, LENOIR, AND PITT
COUNTIES

ADDENDUM 1

TO: PROSPECTIVE BIDDERS

Please note the following revisions to the plans.

- Revision of Page 27, Ramp 2323.

Please replace the Plans that were included in the advertisement with the attached Plans.

Please make sure to sign the addendum page in the proposal to acknowledge this addendum.

Sincerely,

DocuSigned by:
Mary Voelker Moore
714C11DCCEBC4C6...

Mary Voelker Moore, PE
Division Contract Engineer

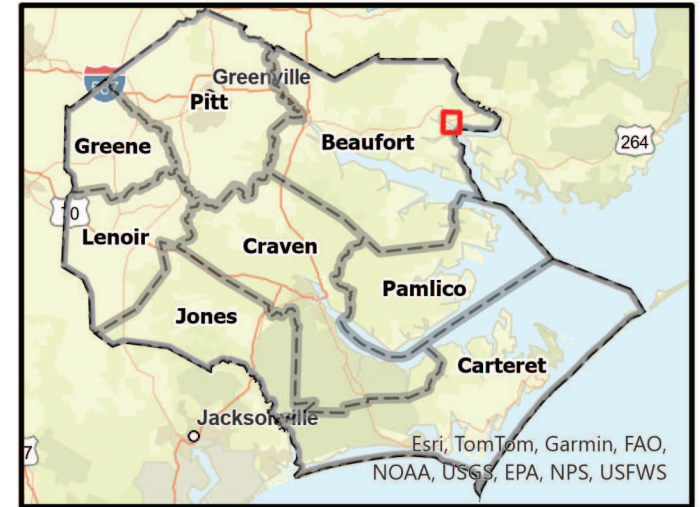
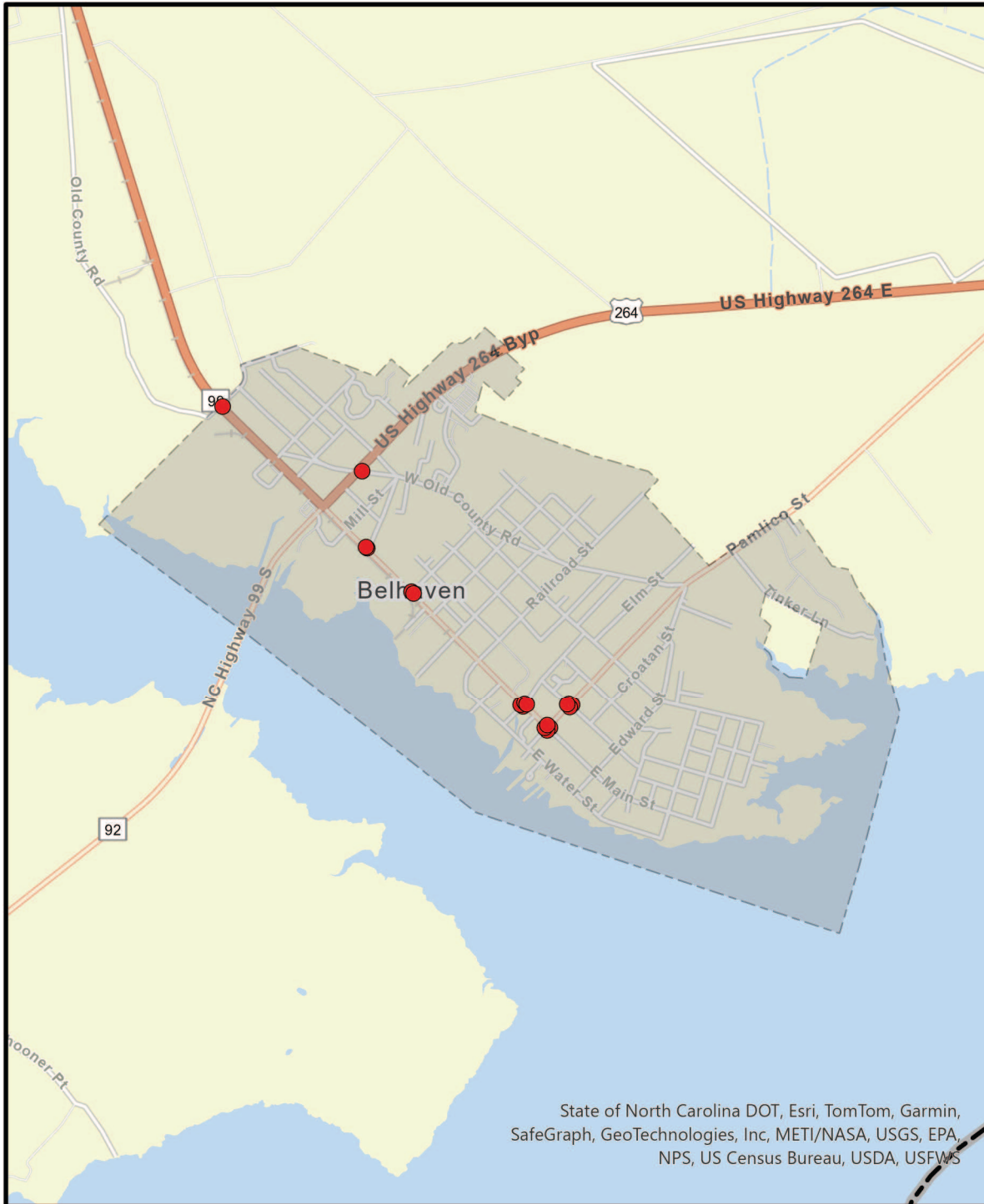
cc: Mr. Chris Smith
Mr. Jason Beasley
Mr. Michael Aman, PE

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
DIVISION 2
PROJECT DEVELOPMENT GROUP
GREENVILLE, NC 27834

Telephone: (252) 439-2828
Customer Service: 1-877-368-4968
Website: www.ncdot.gov




Location:
1037 W.H. SMITH BLVD.
GREENVILLE, NC 27834

Ms. Heather C. Lane, PE
Mr. Aaron Bullard, PE
Mr. Jordan Scott, PE



DIVISION 2 NON-COMPLIANT CURB RAMPS Beaufort County Belhaven

LEGEND

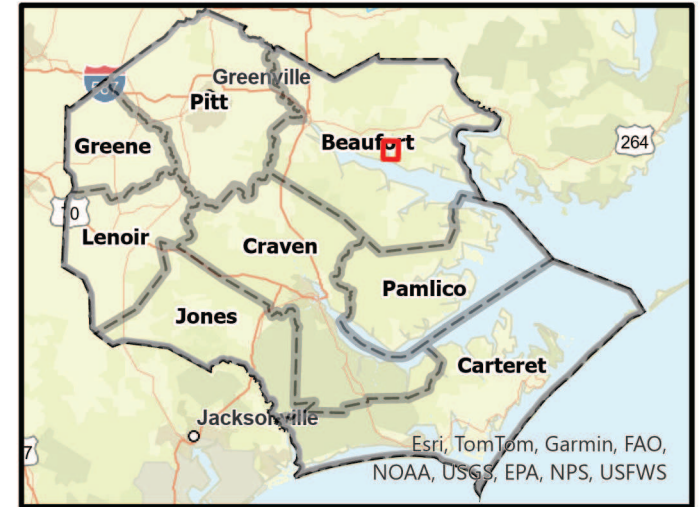
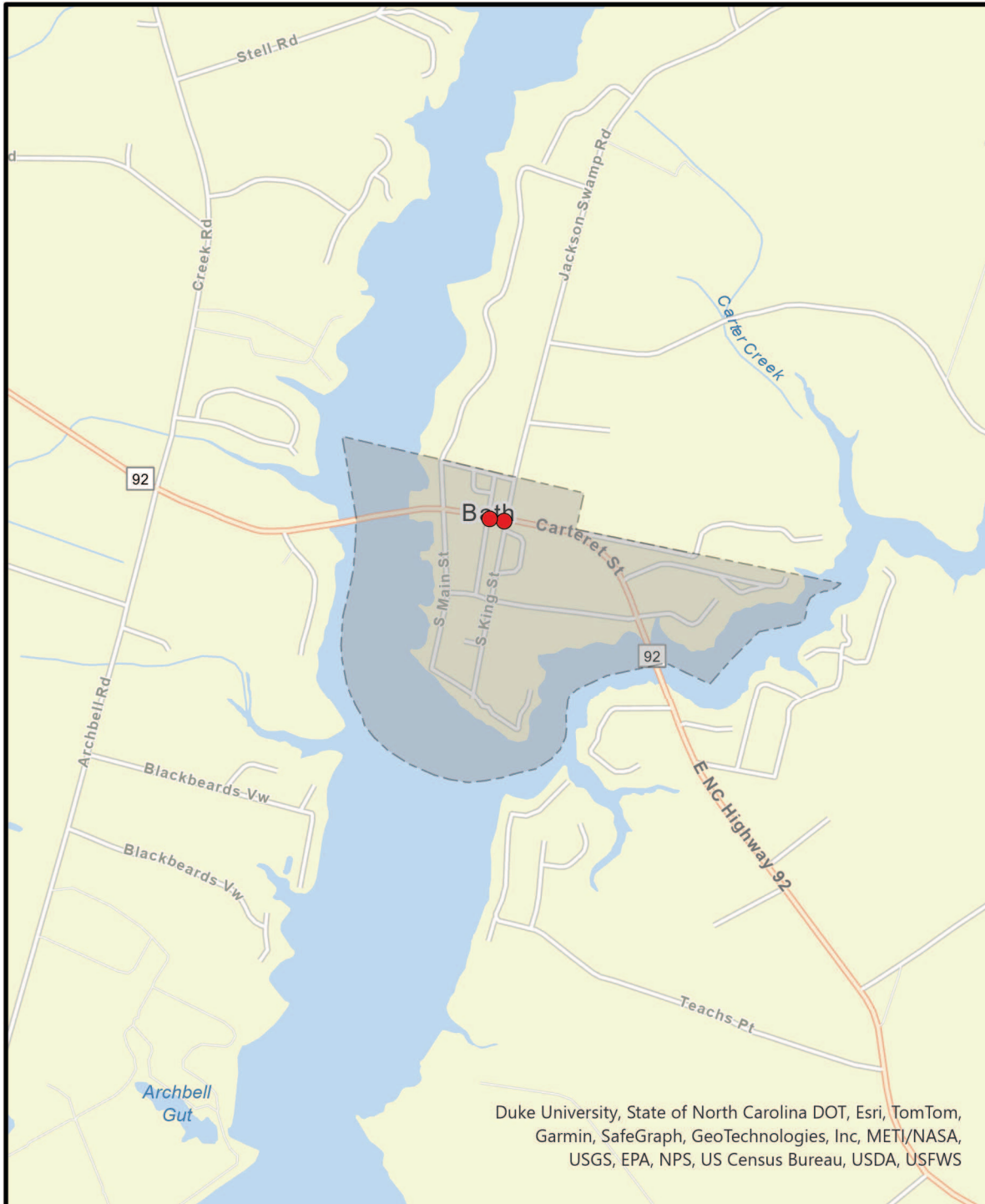
-  NCDOT Div 2 Municipal Boundaries
-  NCDOT Div 2 Boundary Line
-  Non-Compliant Curb Ramp



DIVISION OF HIGHWAYS - DIVISION 2




PREPARED BY:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROJECT DEVELOPMENT UNIT
1037 W.H. SMITH BLVD.; GREENVILLE, NC 27835



DIVISION 2 NON-COMPLIANT CURB RAMPS Beaufort County Bath

LEGEND

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-  Non-Compliant Curb Ramp



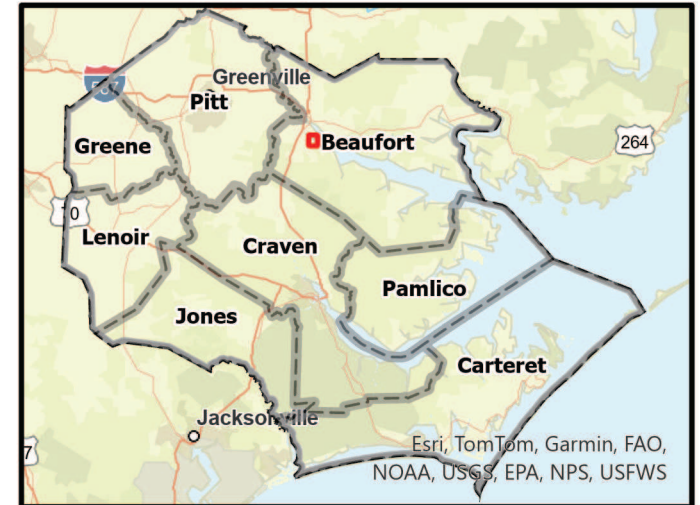
DIVISION OF HIGHWAYS - DIVISION 2

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Esri Community Maps Contributors, Duke University, State of North Carolina DOT, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS



DIVISION 2 NON-COMPLIANT CURB RAMPS Beaufort County Chocowinity

LEGEND

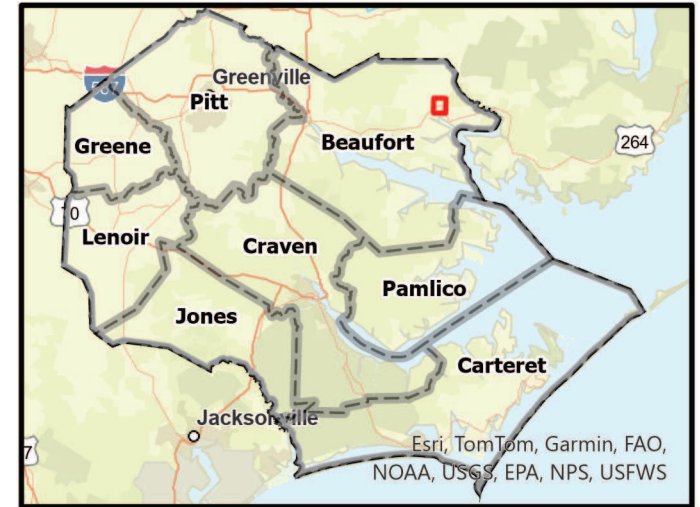
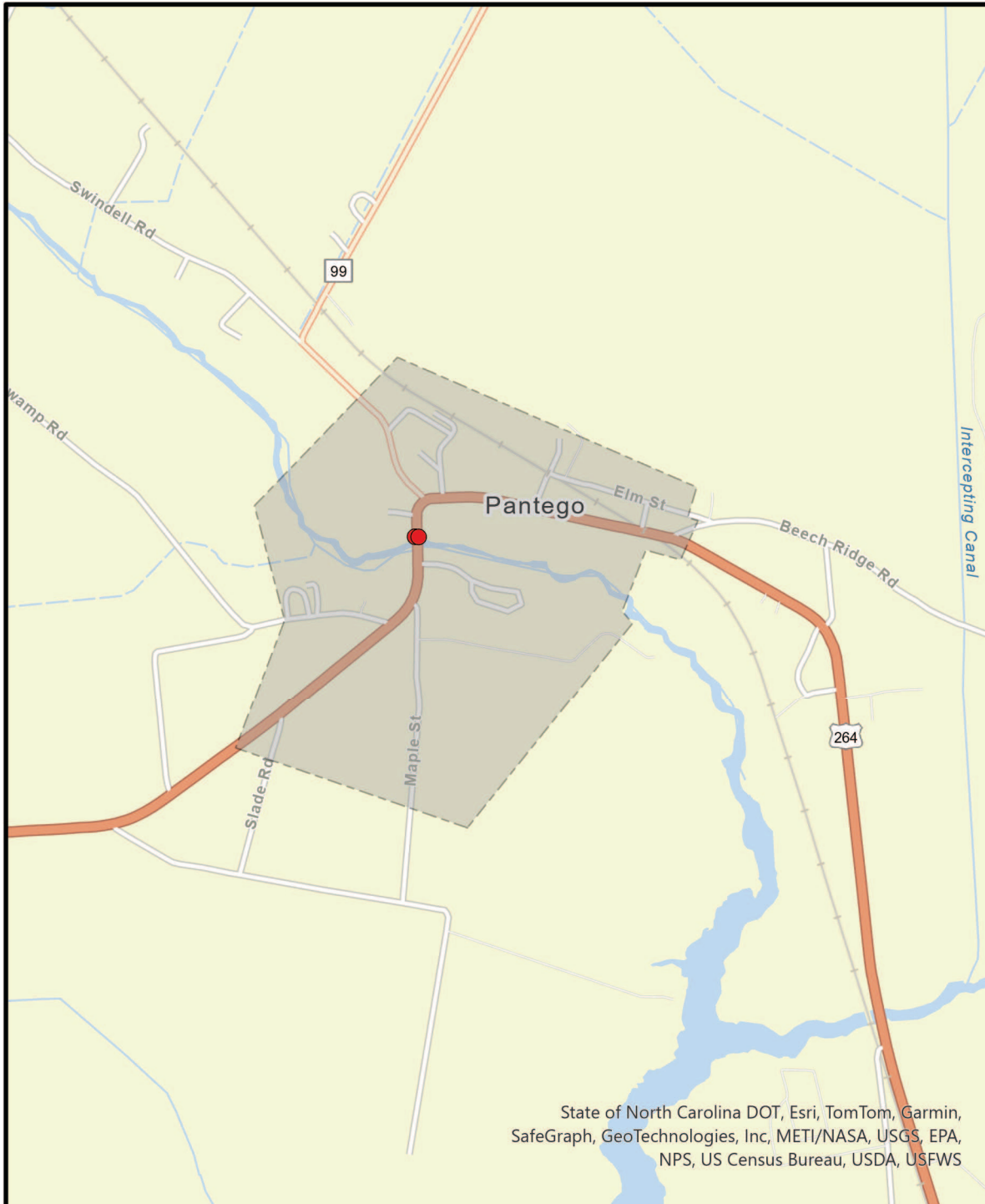
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DIVISION 2 NON-COMPLIANT CURB RAMPS Beaufort County Pantego

LEGEND

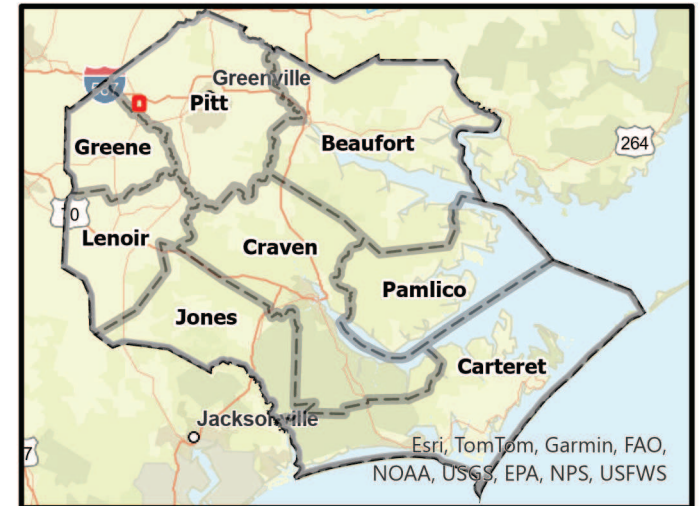
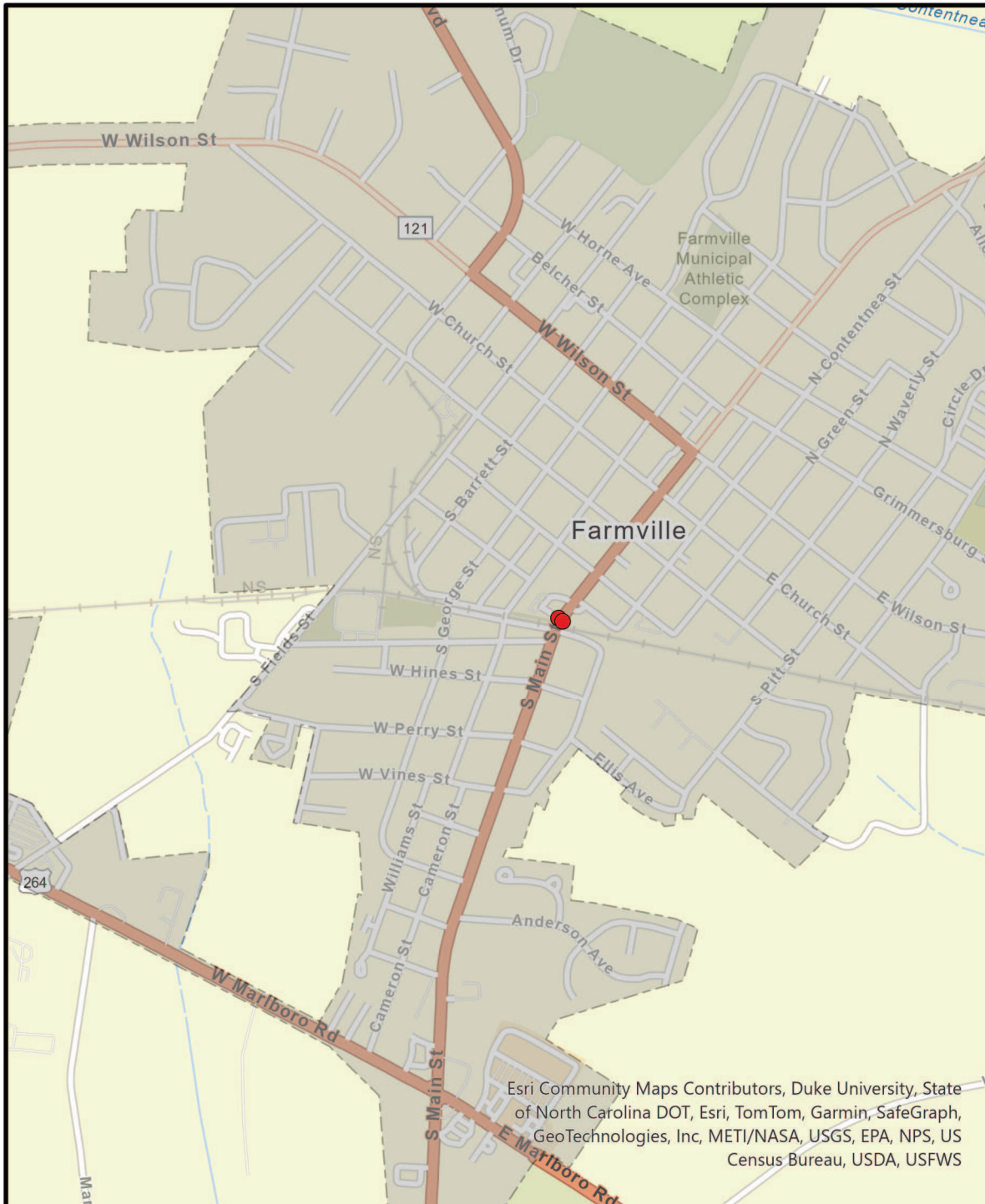
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DIVISION 2 NON-COMPLIANT CURB RAMPS Pitt County Farmville

LEGEND

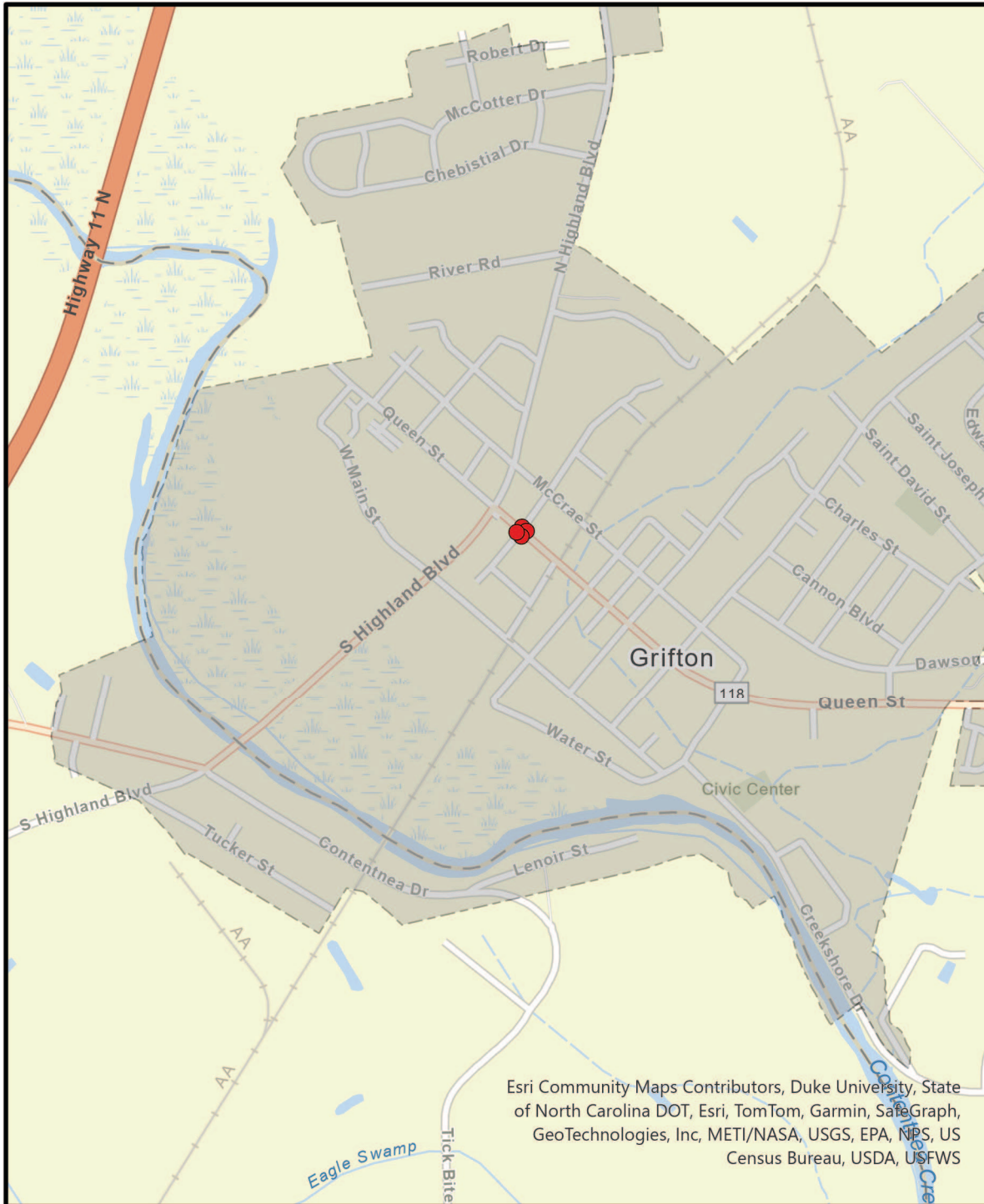
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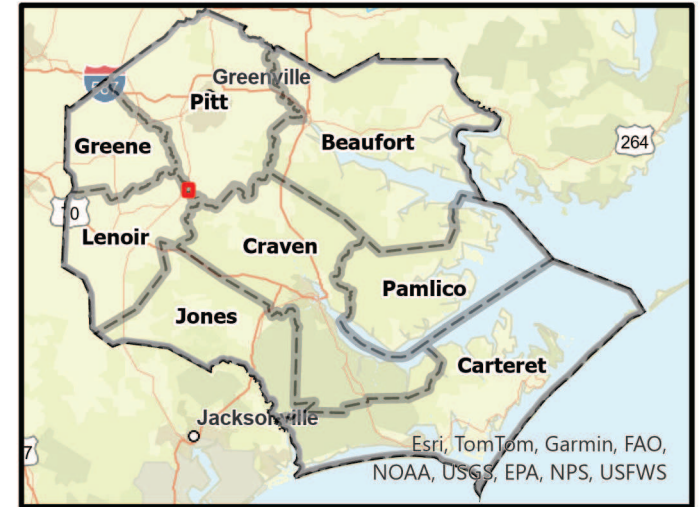
DIVISION OF HIGHWAYS - DIVISION 2

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DIVISION 2 NON-COMPLIANT CURB RAMPS Pitt County Griffon

LEGEND

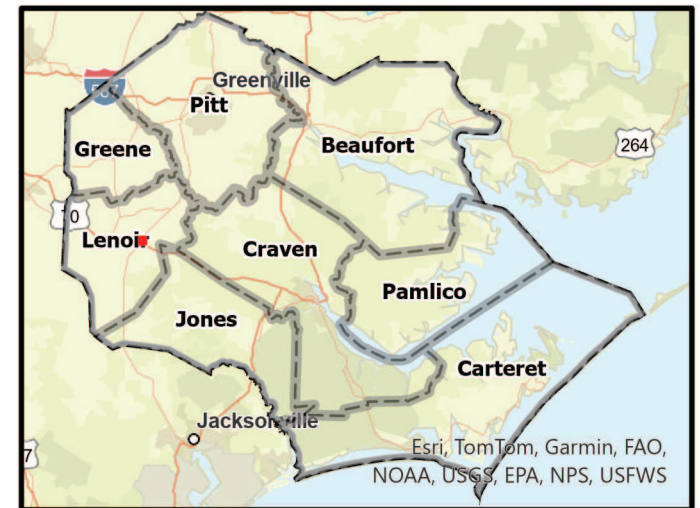
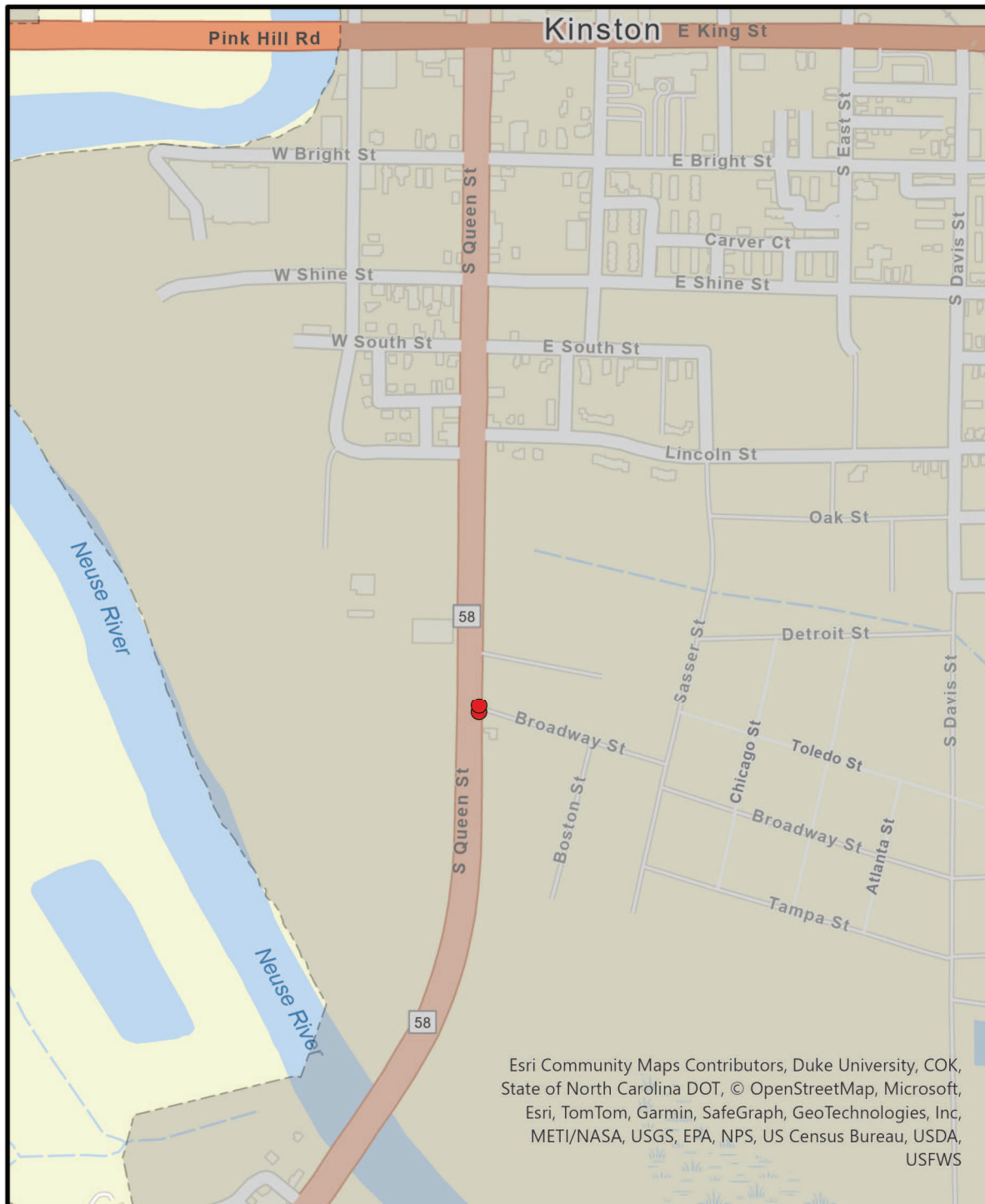
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DIVISION 2 NON-COMPLIANT CURB RAMPS Lenoir County Kinston

LEGEND

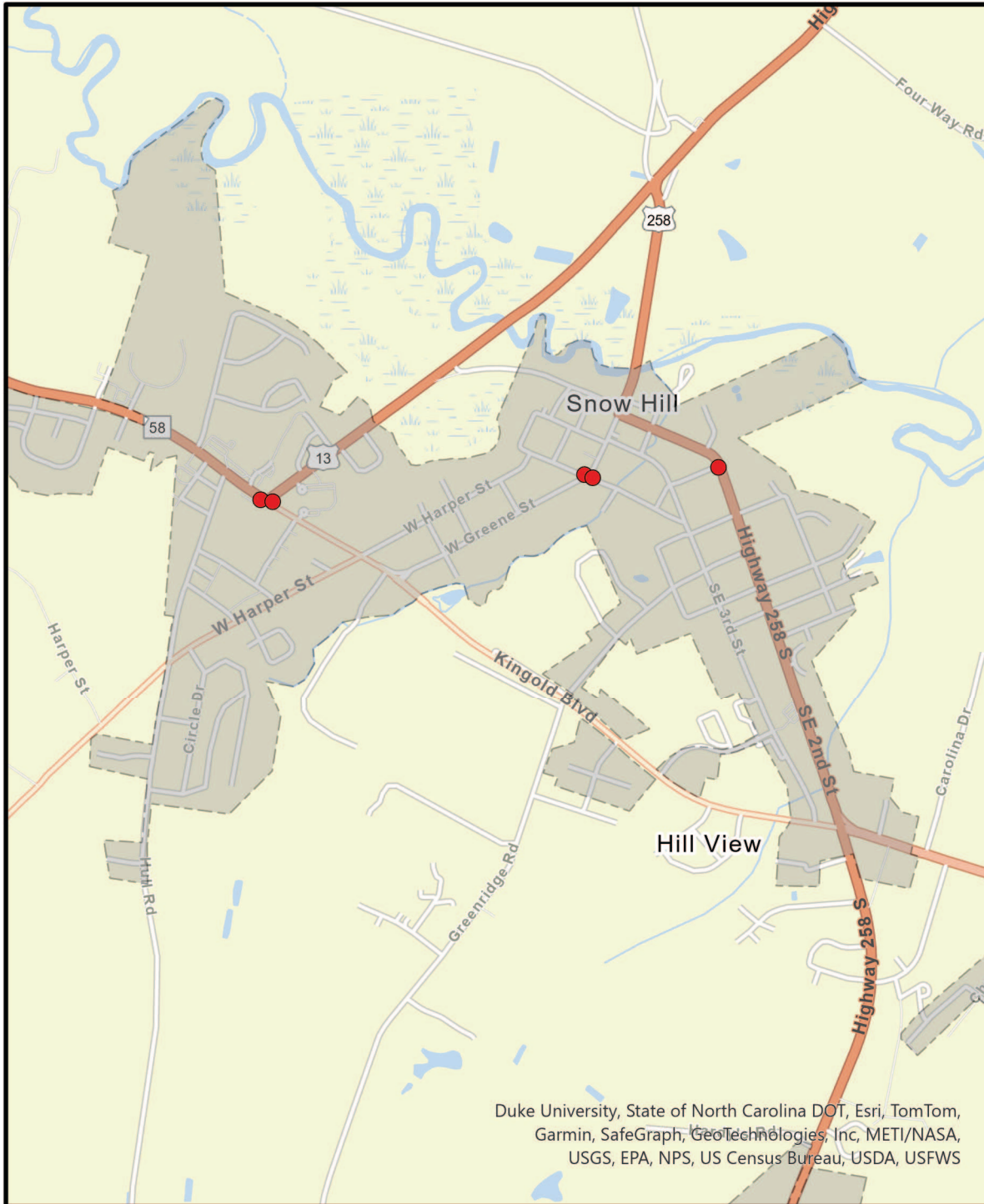
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-  NCDOT Div 2 Boundary Line
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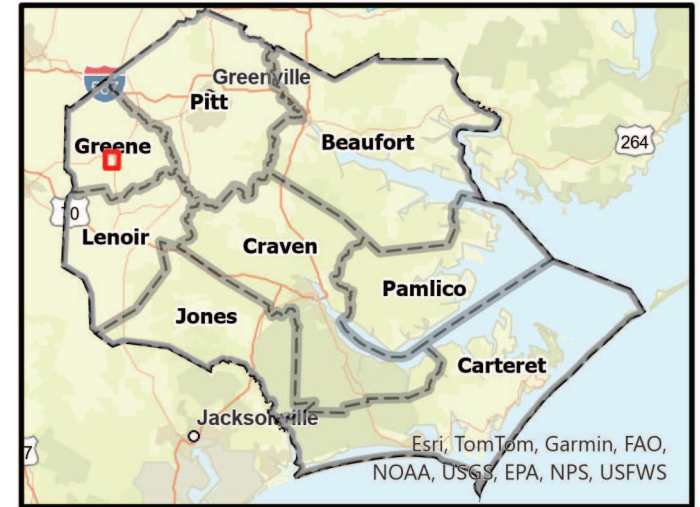
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DIVISION 2 NON-COMPLIANT CURB RAMPS Greene County Snow Hill

LEGEND

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-  Non-Compliant Curb Ramp



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1037 W.H. SMITH BLVD.; GREENVILLE, NC 27835



NORTH CAROLINA

Department of Transportation



Sidewalk Ramps Project

STIP Project: BO-2402A

FA Project No: 5093101

WBS 50931.3.3

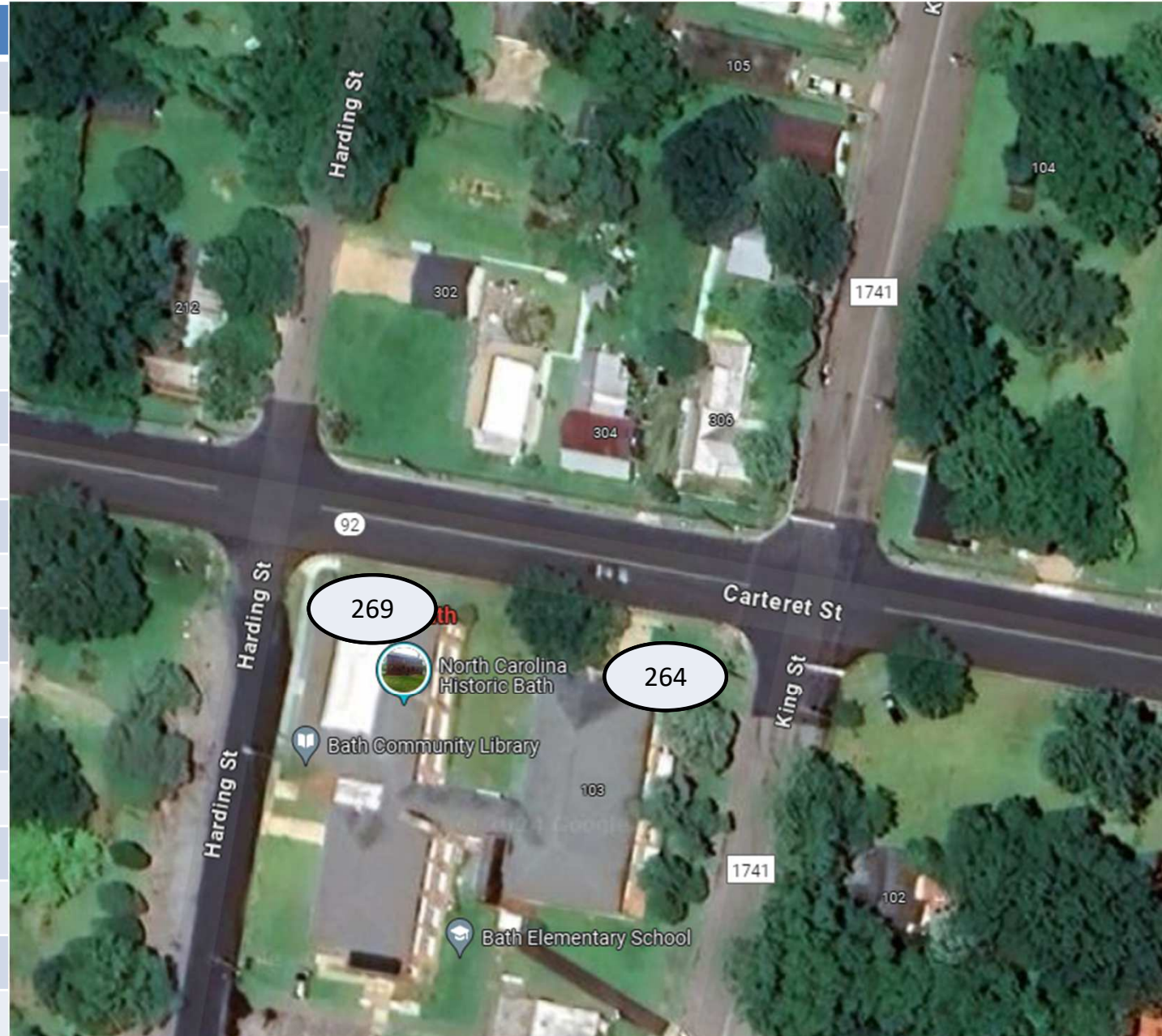
October 2024

Beaufort - Bath

STIP Project: BO-2402A

FA Project No.: 5093101

WBS: 50931.3.3

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NORTH CAROLINA

Department of Transportation



Sidewalk Ramps Project

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October 2024

Beaufort - Pantego

FA Project No.: 5093101

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NORTH CAROLINA

Department of Transportation



Sidewalk Ramps Project

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FA Project No: 5093101

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October 2024

Beaufort - Belhaven

STIP Project: BO-2402A

FA Project No.: 5093101

WBS: 50931.3.3

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STIP Project: BO-2402A

FA Project No.: 5093101

WBS: 50931.3.3

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FA Project No.: 5093101

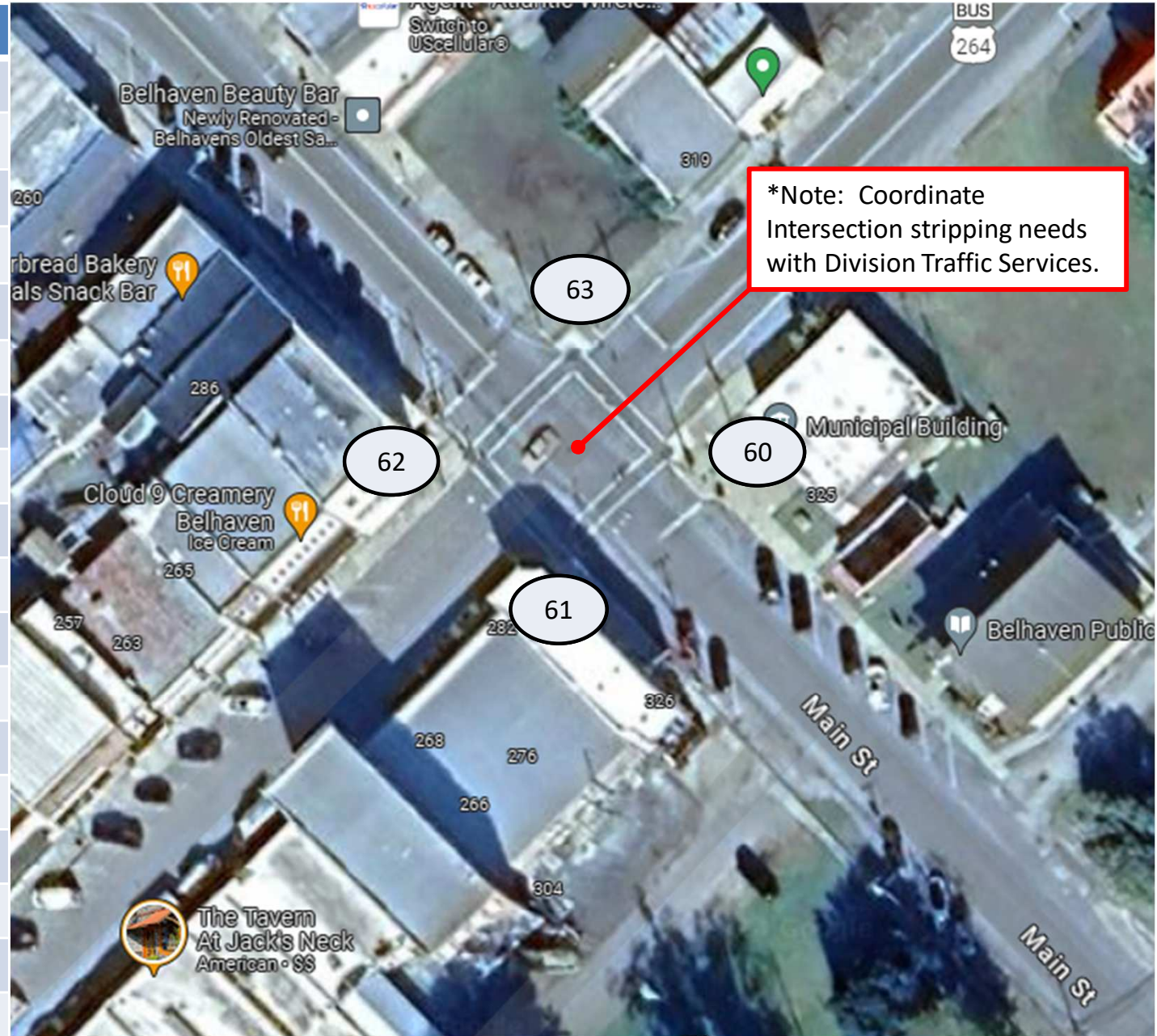
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FA Project No.: 5093101

WBS: 50931.3.3

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STIP Project: BO-2402A

FA Project No.: 5093101

WBS: 50931.3.3

[illegible]



NORTH CAROLINA

Department of Transportation



Sidewalk Ramps Project

STIP Project: BO-2402A

FA Project No: 5093101

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October 2024

Beaufort - Chocowinity

STIP Project: BO-2402A

FA Project No.: 5093101

WBS: 50931.3.3

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NORTH CAROLINA

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Sidewalk Ramps Project

STIP Project: BO-2402A

FA Project No: 5093101

WBS 50931.3.3

October 2024

Greene-Snow Hill

STIP Project: BO-2402A

FA Project No.: 5093101

WBS: 50931.3.3

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STIP Project: BO-2402A

FA Project No.: 5093101

WBS: 50931.3.3

[illegible]



NORTH CAROLINA

Department of Transportation



Sidewalk Ramps Project

STIP Project: BO-2402A

FA Project No: 5093101

WBS 50931.3.3

October 2024

Lenoir - Kinston

FA Project No.: 5093101

WBS: 50931.3.3

[illegible]



NORTH CAROLINA

Department of Transportation



Sidewalk Ramps Project

STIP Project: BO-2402A

FA Project No: 5093101

WBS 50931.3.3

October 2024

Pitt-Farmville

STIP Project: BO-2402A

FA Project No.: 5093101

WBS: 50931.3.3

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NORTH CAROLINA

Department of Transportation



Sidewalk Ramps Project

STIP Project: BO-2402A

FA Project No: 5093101

WBS 50931.3.3

October 2024

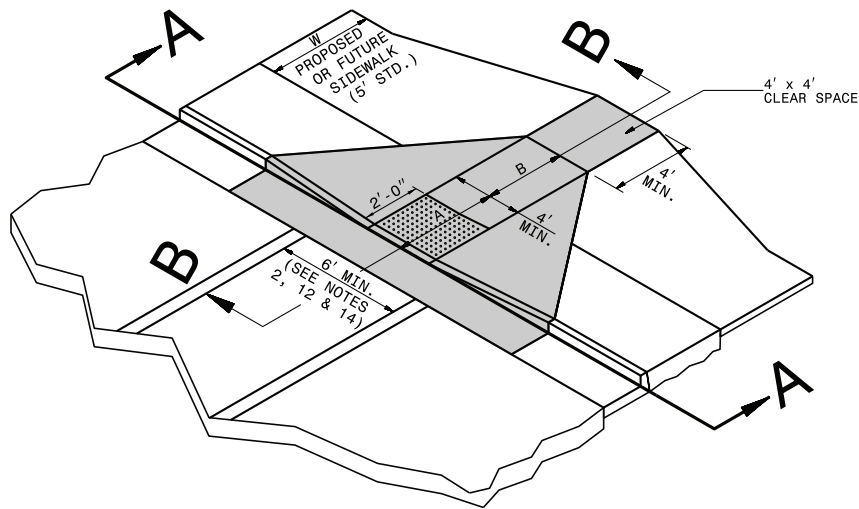
Pitt-Grifton

STIP Project: BO-2402A

FA Project No.: 5093101

WBS: 50931.3.3

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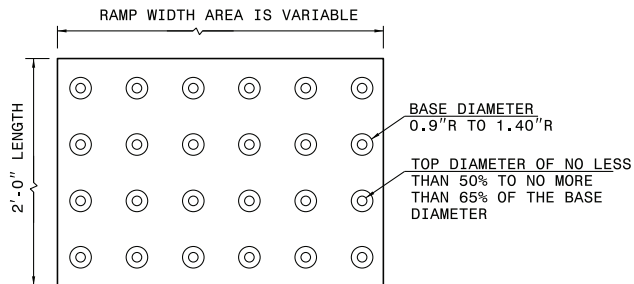
ISOMETRIC VIEW

PAY LIMITS FOR CURB RAMP

NOTES:

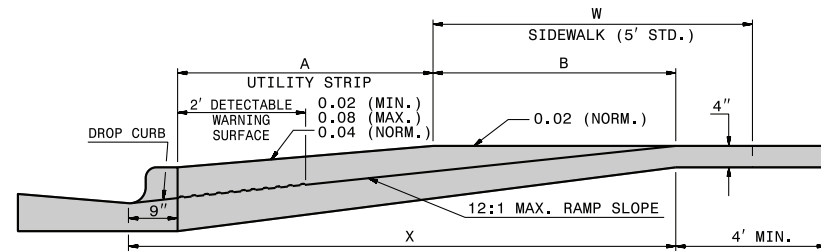
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

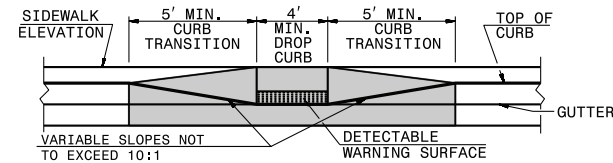


W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0'*
6'	0.0'	6.8'	6.8'	6.0'**
7'	0.0'	7.8'	7.3'	6.5'**
8'	0.0'	8.8'	7.3'	6.5'**
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

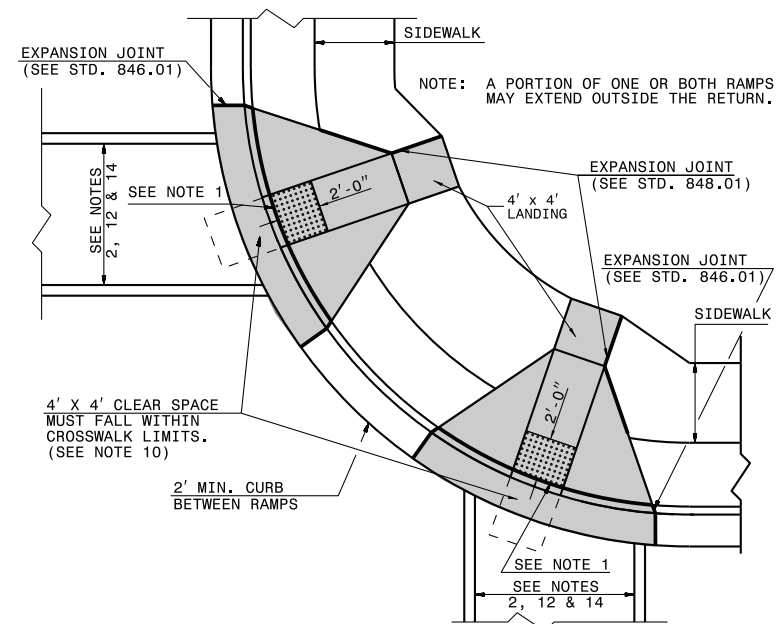
$B = X - (A + 9")$
 B = DISTANCE FROM FRONT EDGE OF SIDEWALK
 TO BACK POINT OF 12:1 (8.33%) SLOPE.
 * BACK OF SIDEWALK DROP REQUIRED FOR ALL
 SIDEWALK SLOPES.
 ** BACK OF SIDEWALK DROP REQUIRED FOR
 SIDEWALK SLOPES 0.04.



SECTION B-B



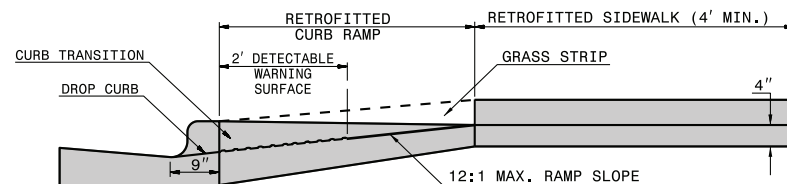
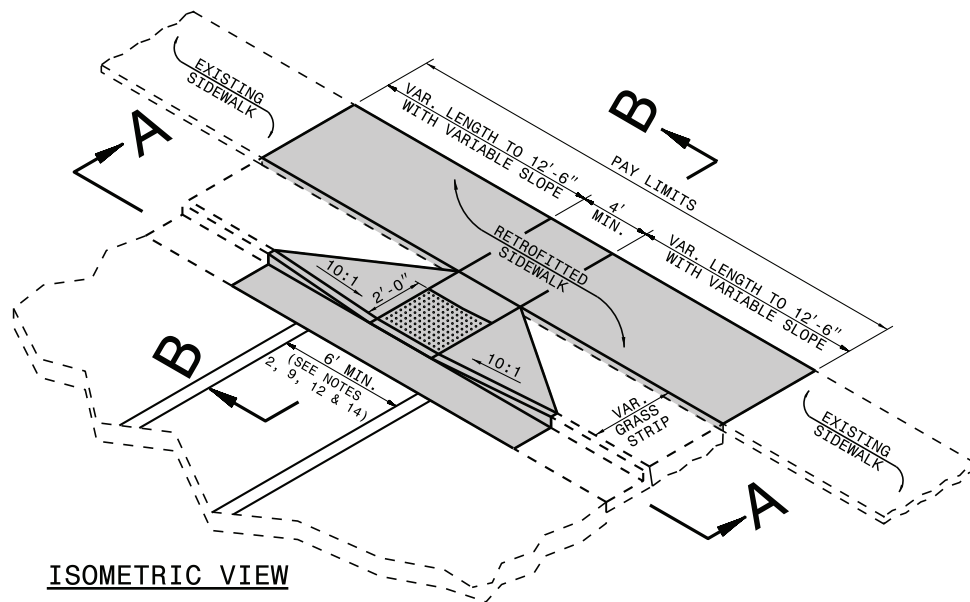
SECTION A-A



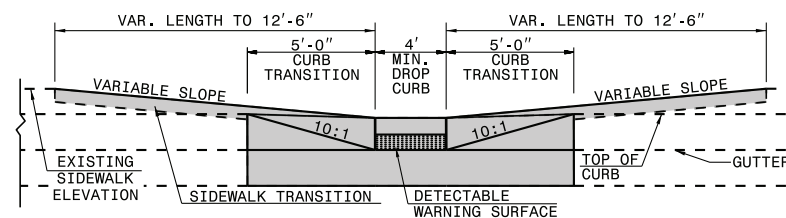
PLAN VIEW

DUAL RAMPS
 ANY RADII
 (4' MIN. FLOOR WIDTH)

DETECTABLE WARNING SURFACE



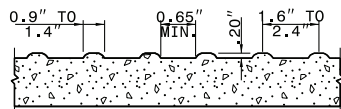
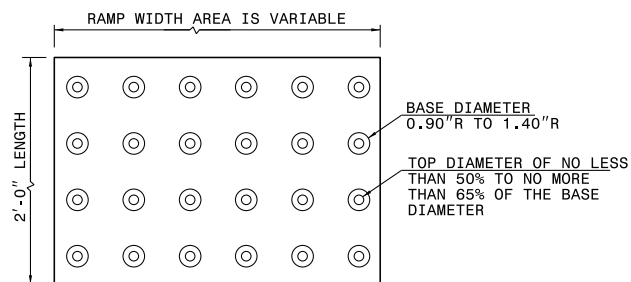
SECTION B-B



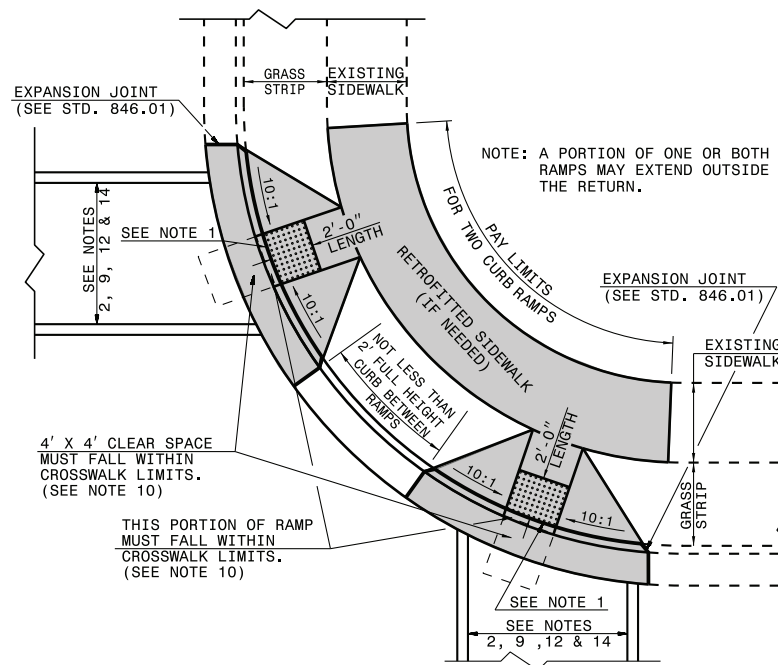
SECTION A-A

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



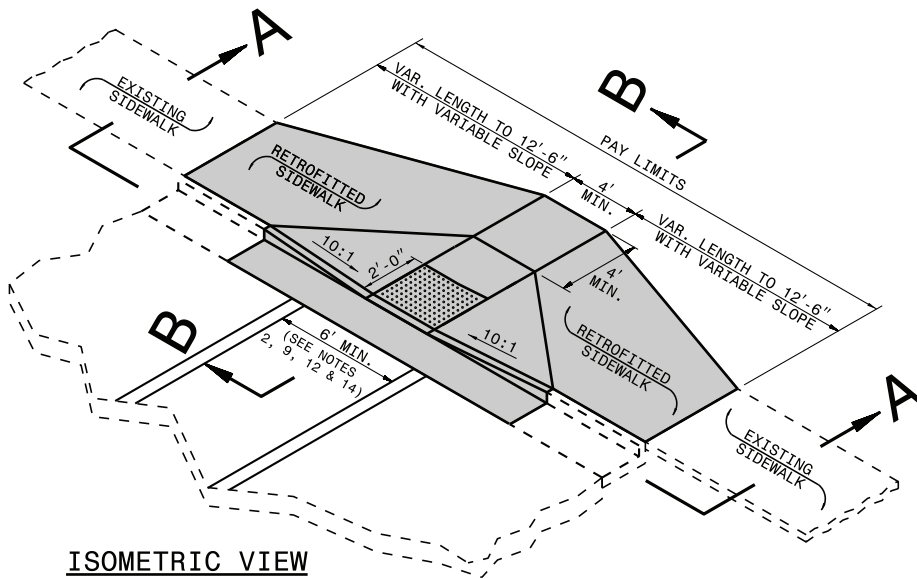
DETECTABLE WARNING SURFACE



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

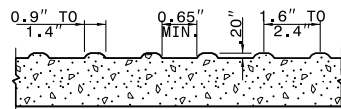
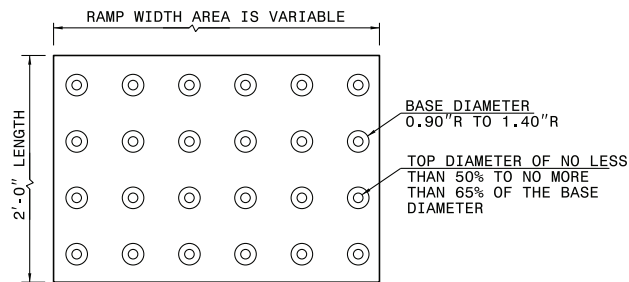
 PAY LIMITS OF CURB RAMP




ISOMETRIC VIEW

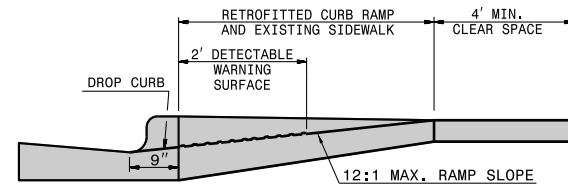
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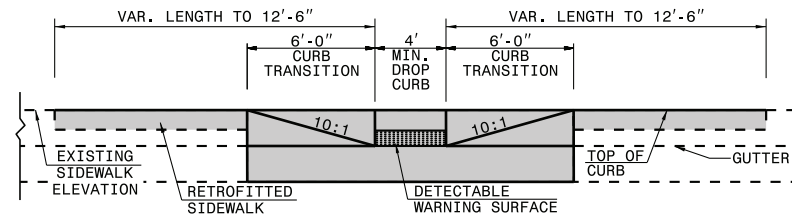


DETECTABLE WARNING SURFACE

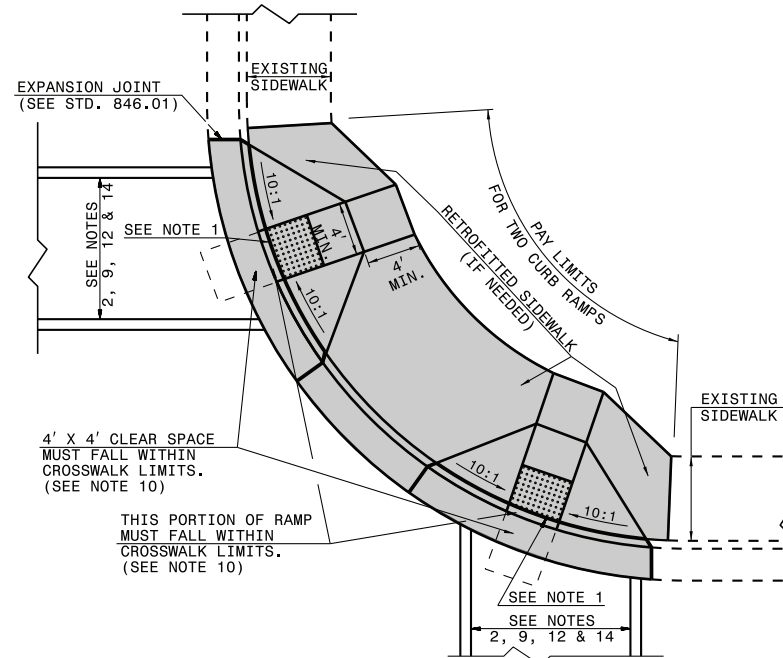
 PAY LIMITS OF CURB RAMP



SECTION B-B

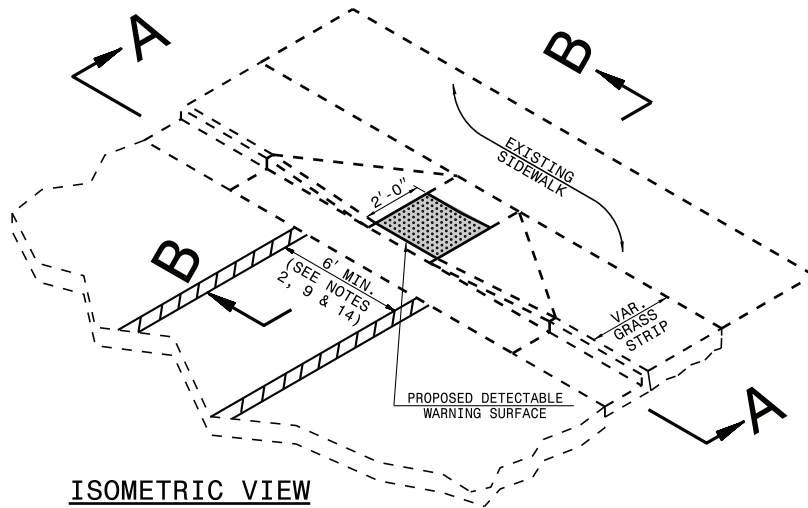


SECTION A-A



PLAN VIEW

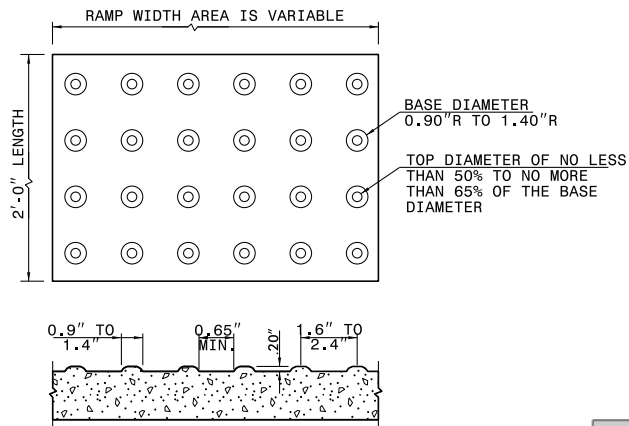
DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)




ISOMETRIC VIEW

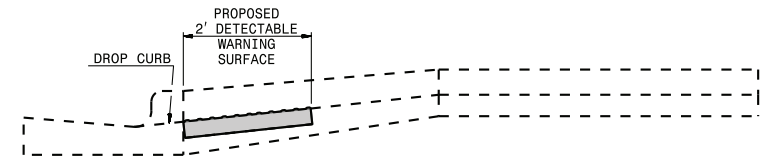
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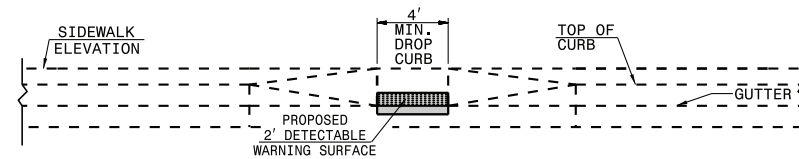


DETECTABLE WARNING SURFACE

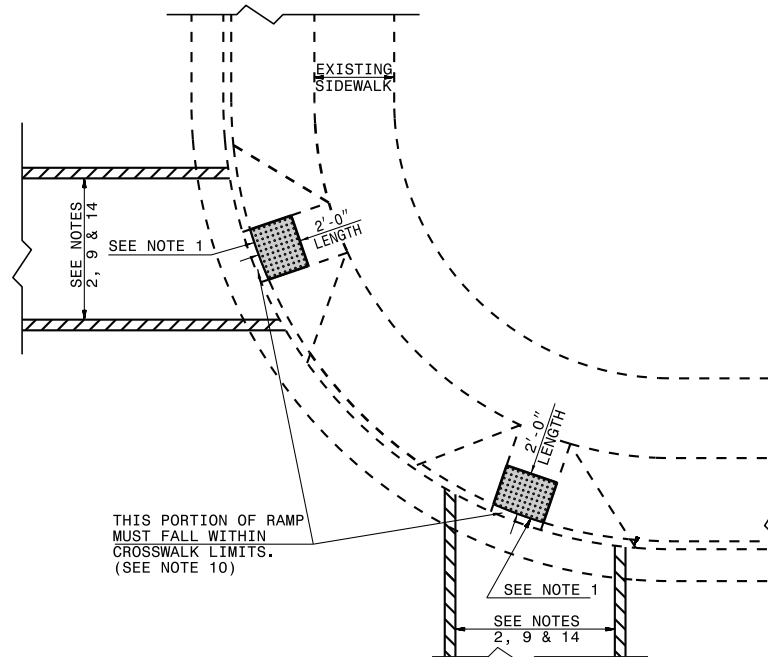
 PAY LIMITS OF RETROFIT CURB RAMP



SECTION B-B

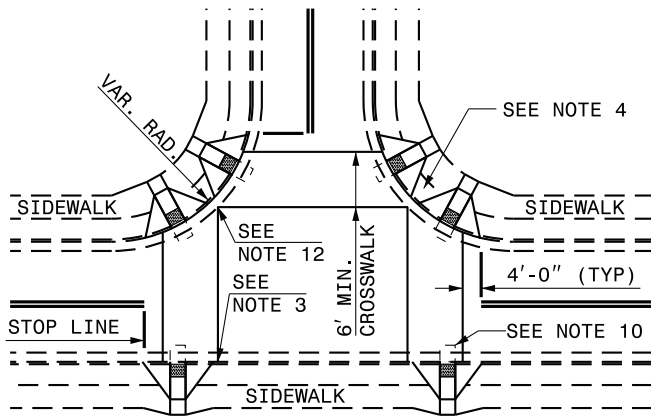


SECTION A-A

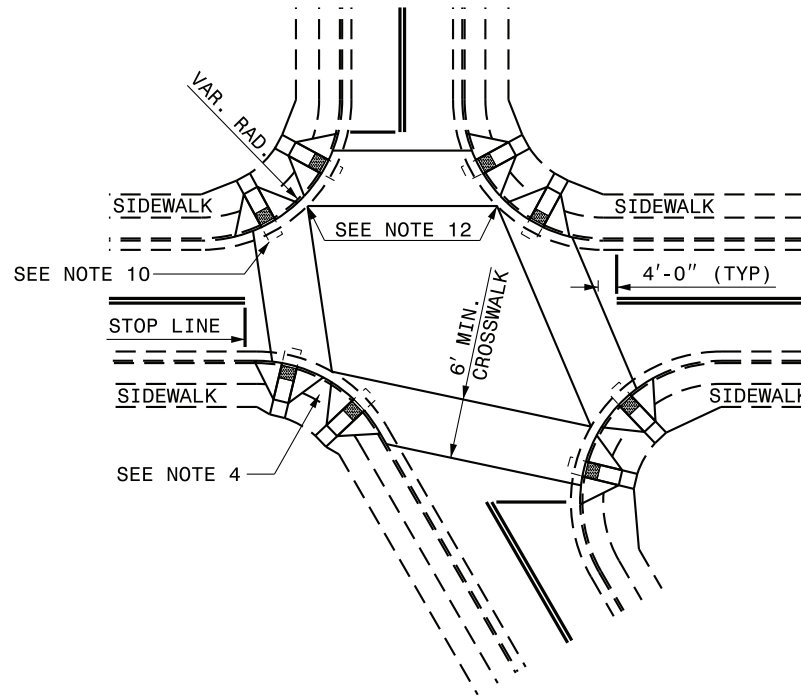


PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)





DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS,
PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS

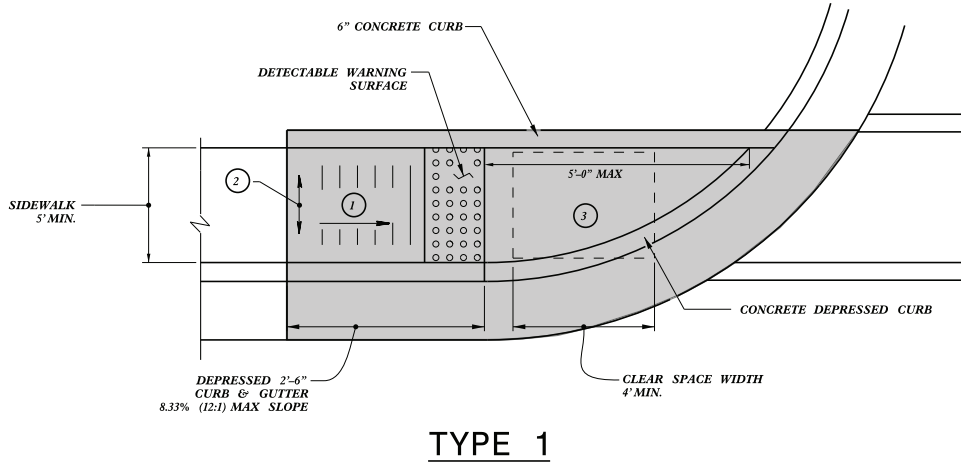


DETAIL SHOWING TYPICAL LOCATION OF CURB
RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES

ROADWAY
PLAN SYMBOL
CR
FOR PROPOSED
CURB RAMP

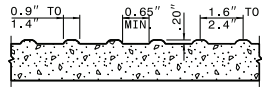
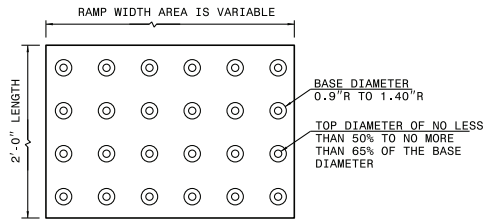
 PROPOSED CURB RAMP W/ CLEAR SPACE
 PROPOSED OR FUTURE SIDEWALK

ALLOWABLE LOCATIONS
DUAL RAMP RADII.....ANY

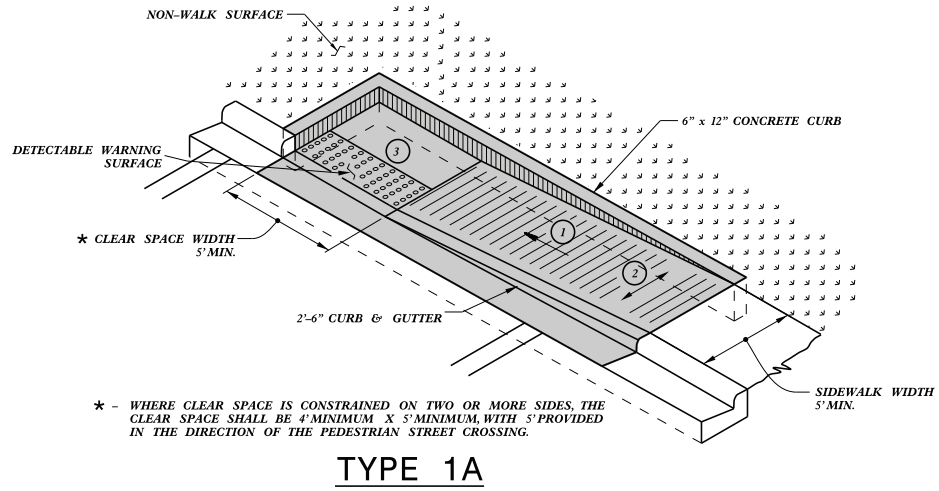
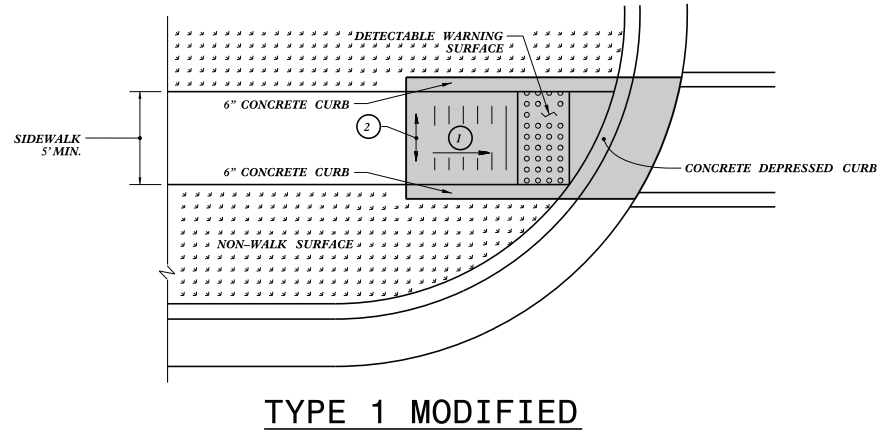



- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

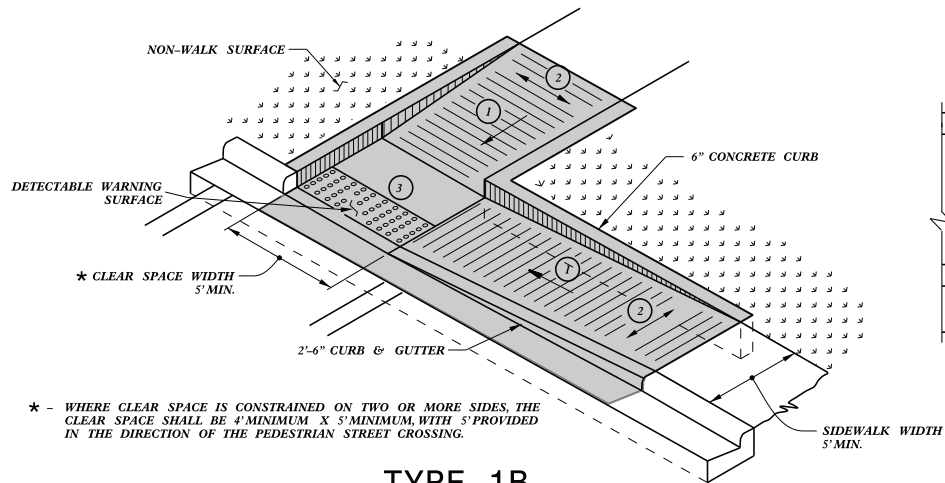
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DETECTABLE WARNING SURFACE



 PAY LIMITS FOR 1 CURB RAMP



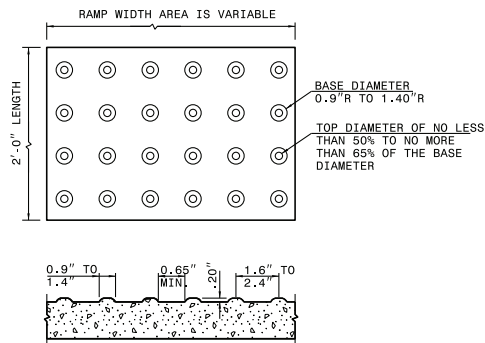
★ - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

TYPE 1B

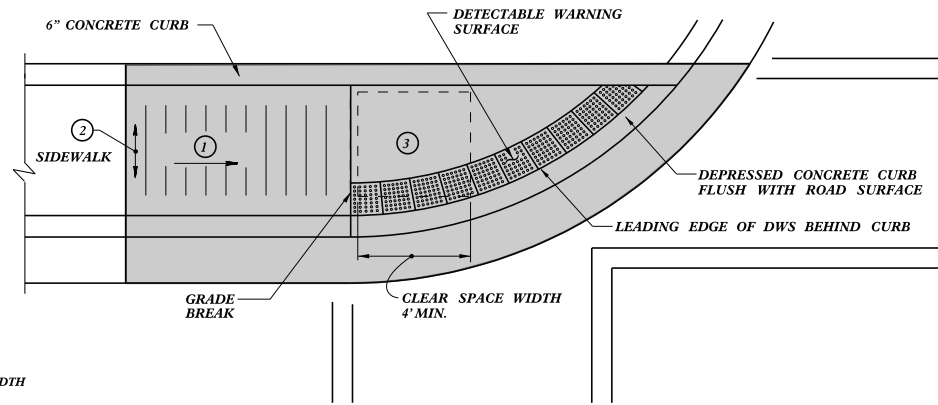
- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

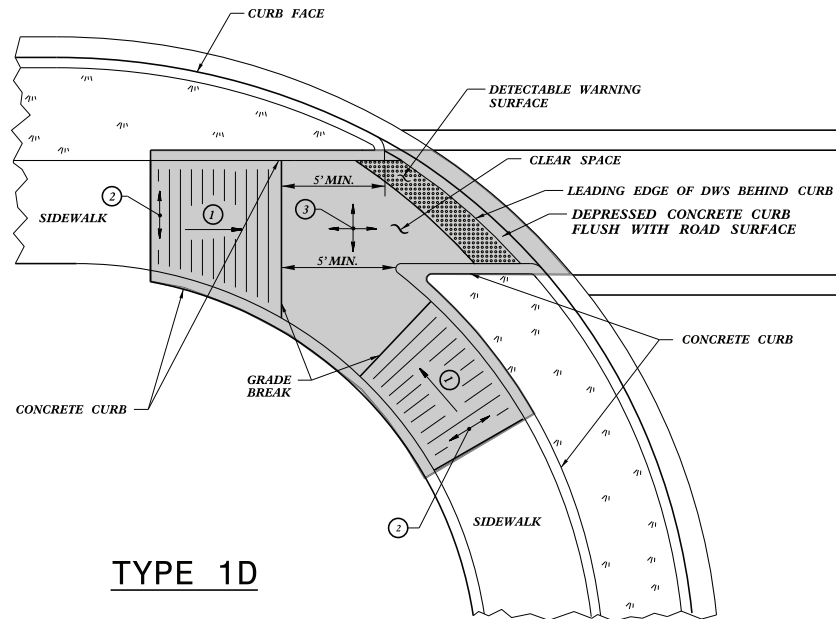
DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



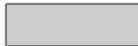
DETECTABLE WARNING SURFACE



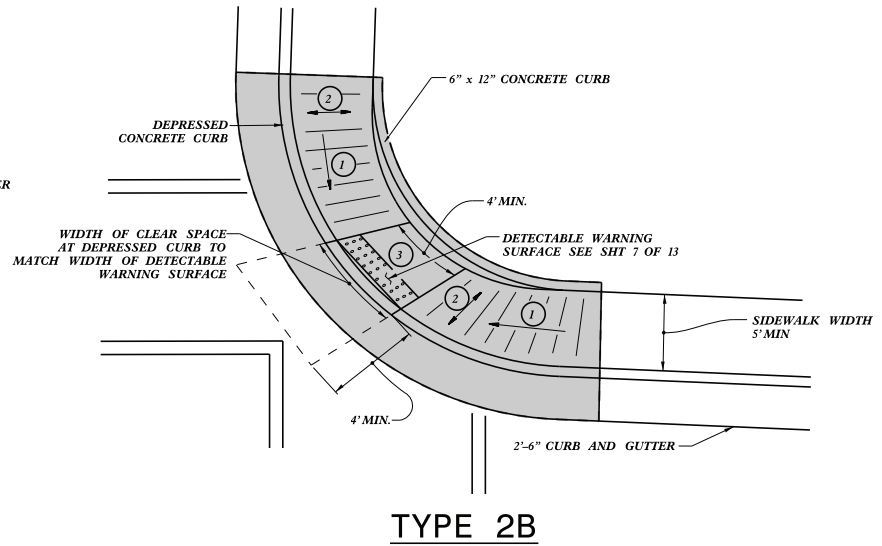
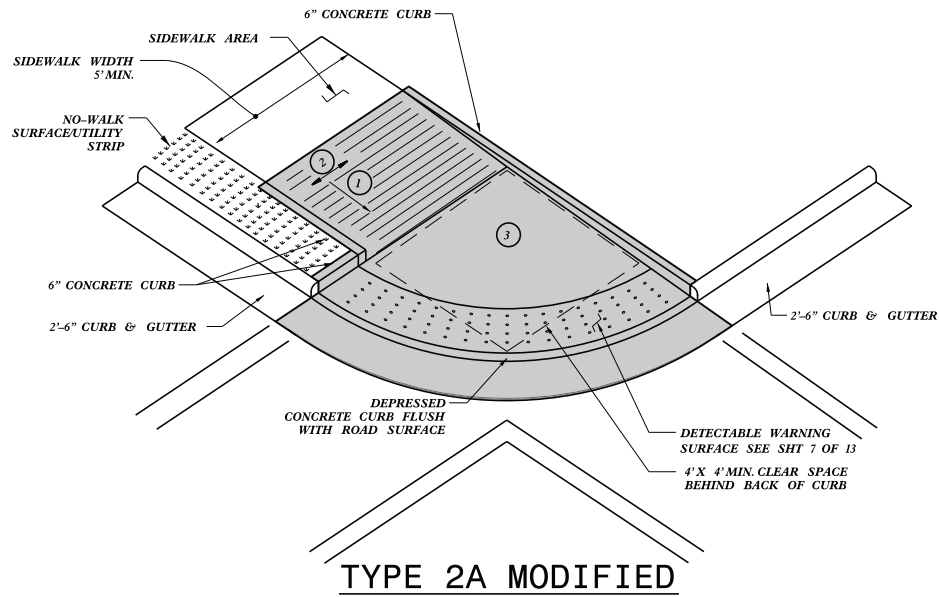
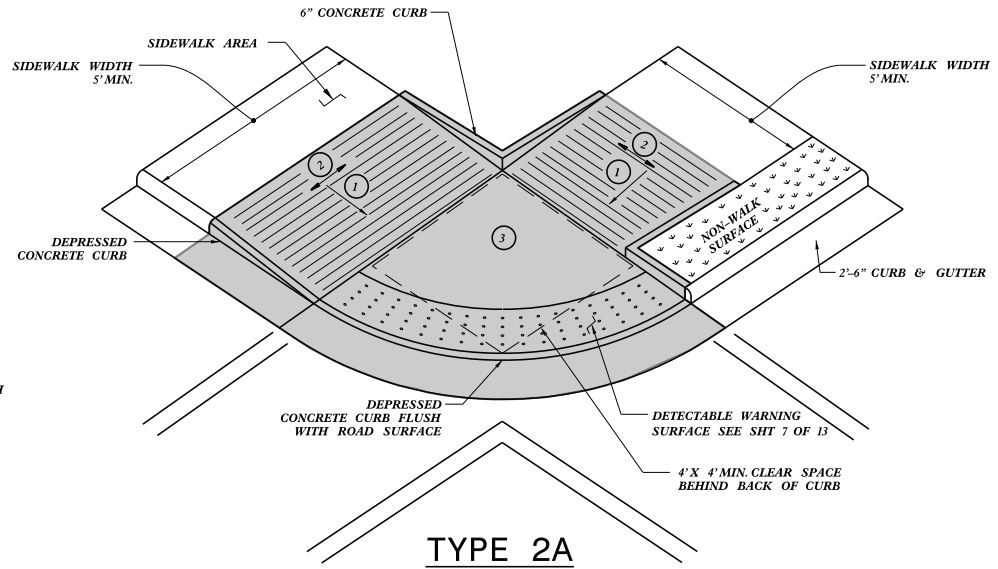
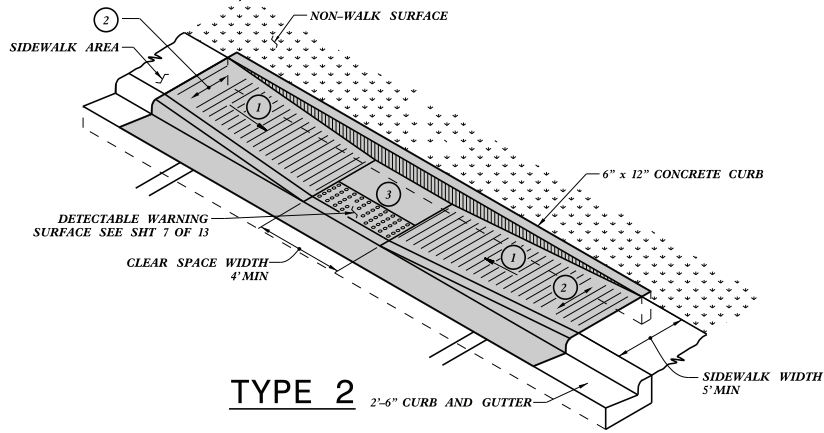
TYPE 1C




TYPE 1D



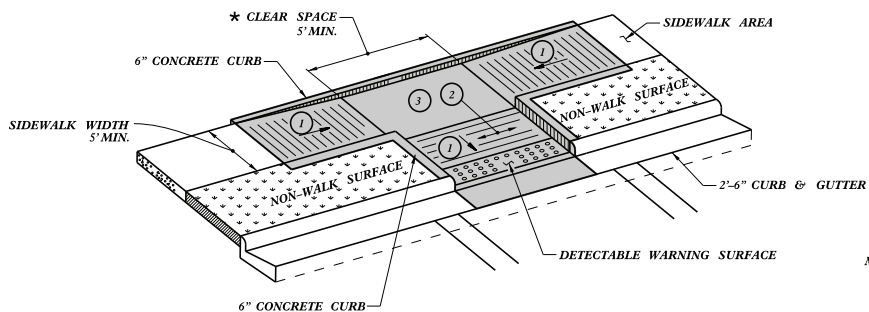
PAY LIMITS FOR 1 CURB RAMP



- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

 PAY LIMITS FOR 1 CURB RAMP

* - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

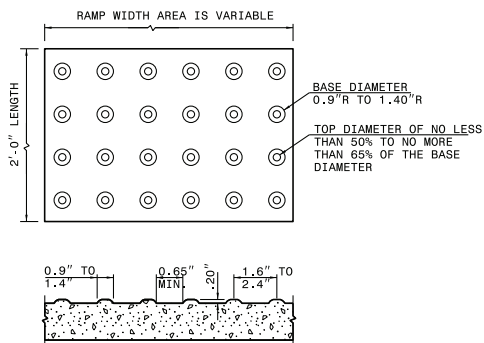


TYPE 3

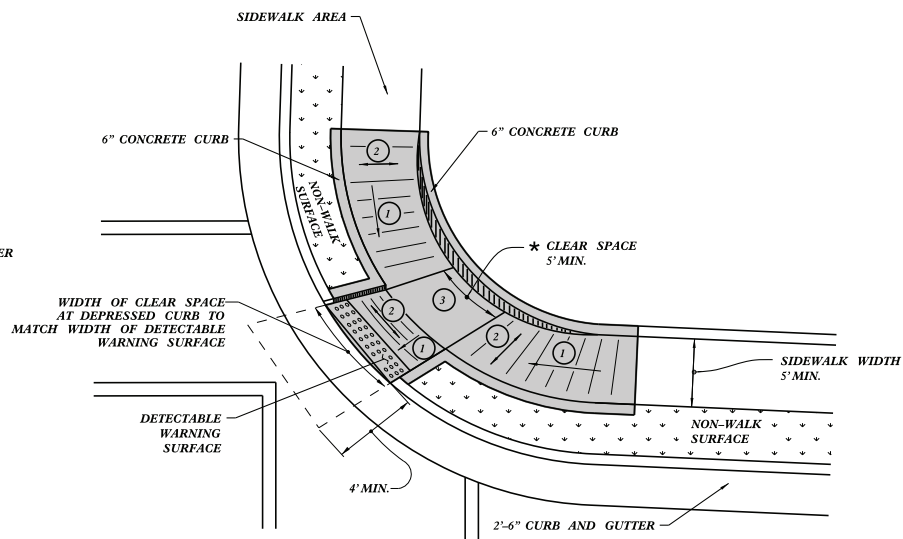
NOTES:

DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.




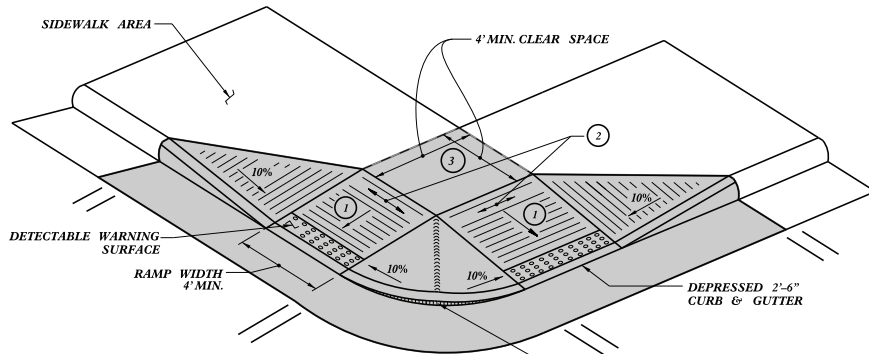
DETECTABLE WARNING SURFACE



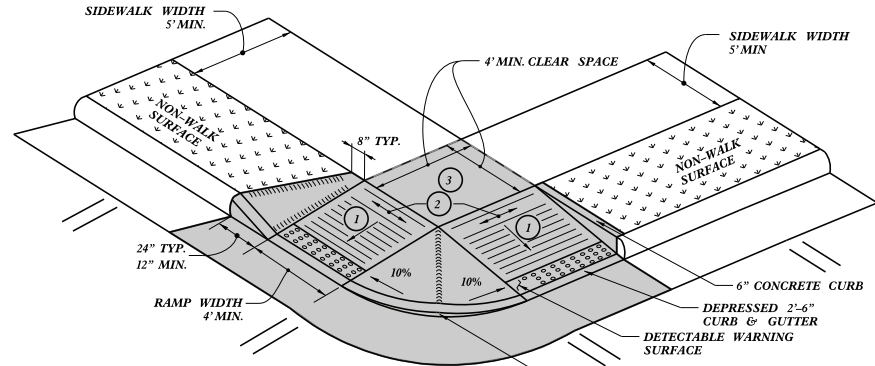
**TYPE 3 MODIFIED
INSTALLATION IN A RADIUS**

- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

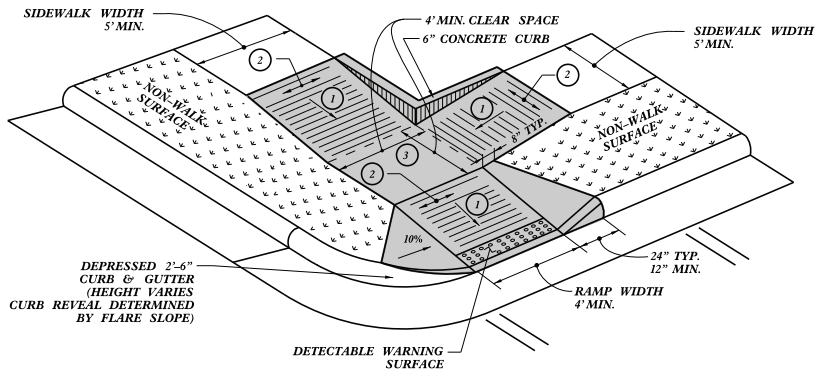
 PAY LIMITS FOR 1 CURB RAMP



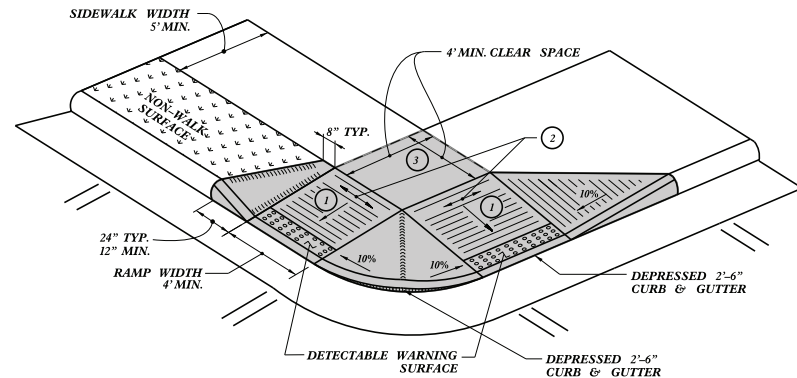
TYPE 4



TYPE 4A

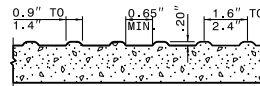
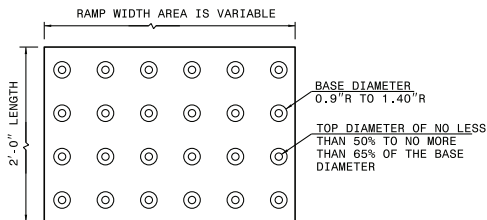


TYPE 4B



TYPE 4C

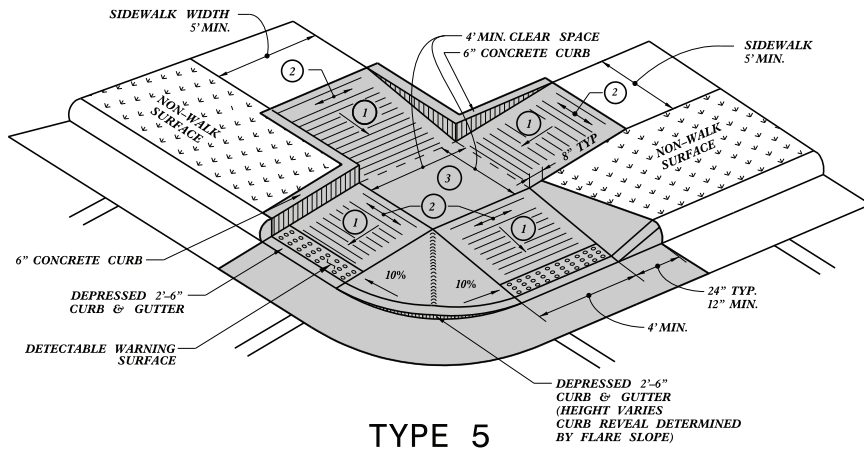
NOTES:
 DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

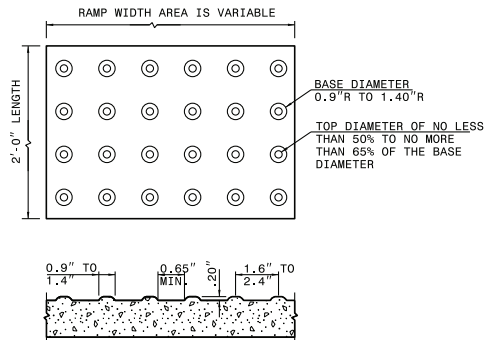
PAY LIMITS FOR 1 OR 2 CURB RAMPS
 (CALCULATE BASED ON NUMBER OF SETS
 OF DETECTABLE WARNING SURFACES)

DETECTABLE WARNING SURFACE

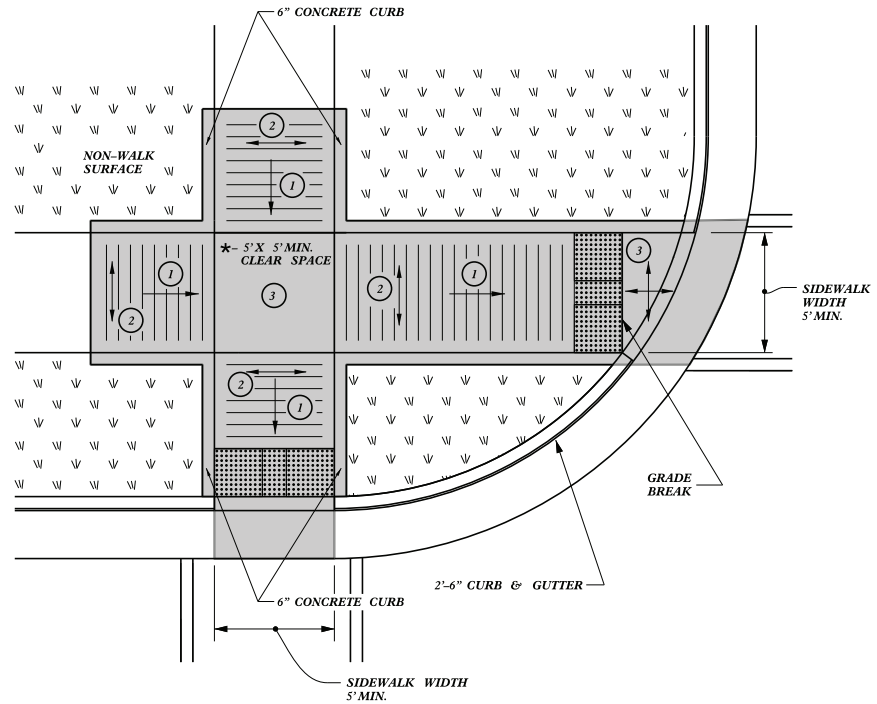


TYPE 5

NOTES:
 DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE

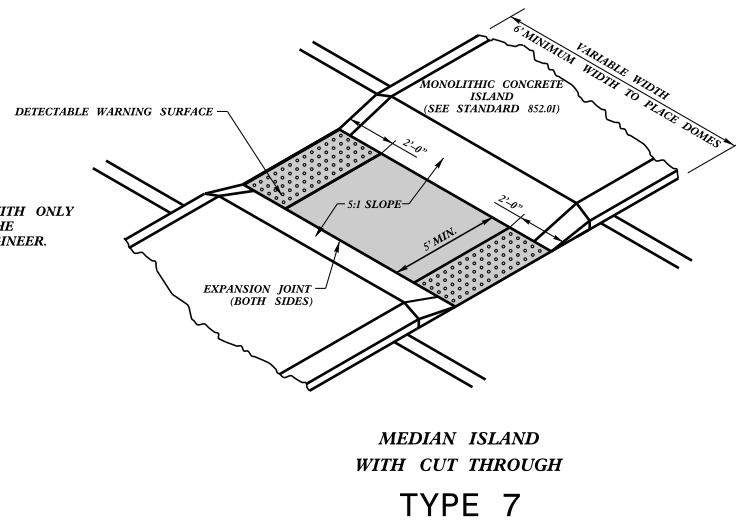
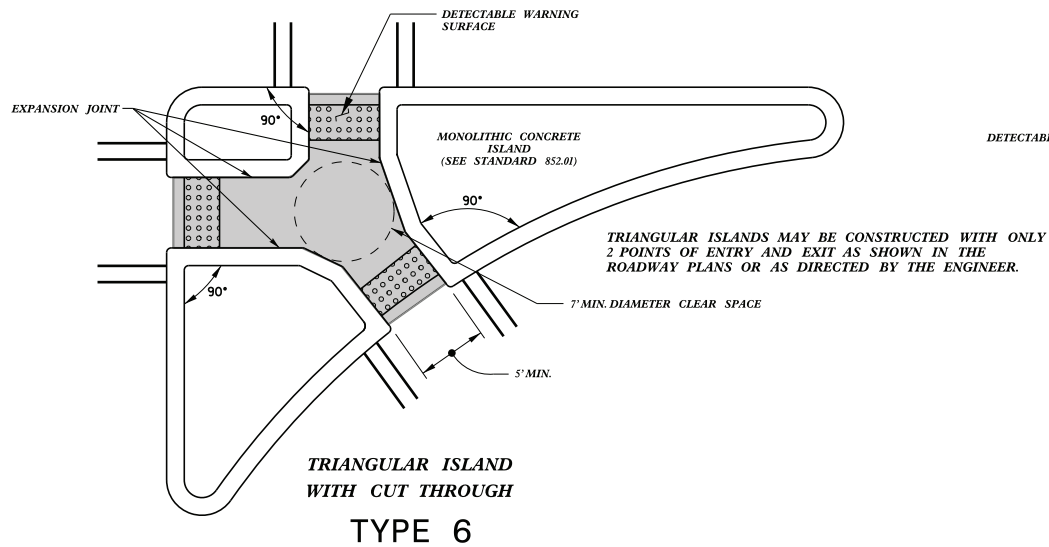


* - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

TYPE 5A

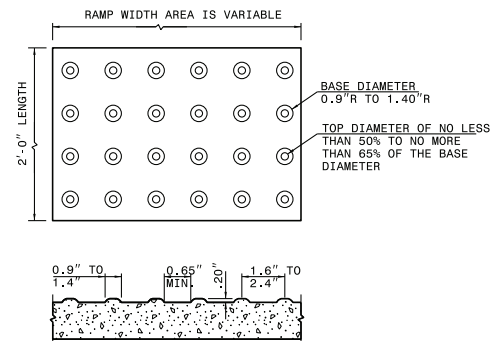
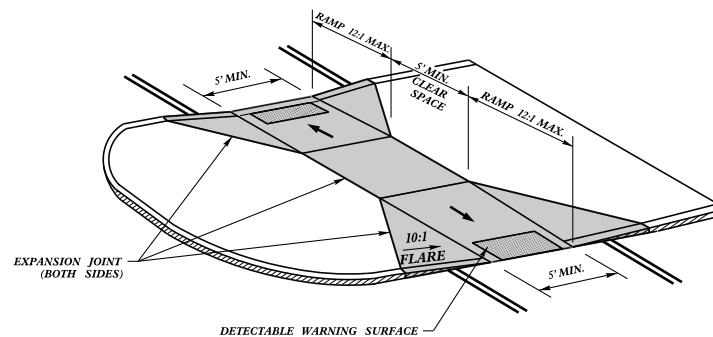
- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

PAY LIMITS FOR 1 OR 2 CURB RAMPS
 (CALCULATE BASED ON NUMBER OF SETS OF DETECTABLE WARNING SURFACES)



PAY LIMITS FOR 2 OR 3 CURB RAMPS
(CALCULATE BASED ON NUMBER OF
SETS OF DETECTABLE WARNING SURFACES)

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



NOTES:

- 1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
- 2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.
- 3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
- 4. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.
- 5. REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
- 6. TERMINATE PARKING A MINIMUM OF 20' FROM THE BACK OF PEDESTRIAN CROSSWALK.
- 7. CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.
- 8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.
- 9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
- 10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.
- 11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.
- 12. CONSTRUCT CLEAR SPACES FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT CLEAR SPACES FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. IF CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
- 13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGH THE ISLAND.
- 14. SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'x5' CLEAR SPACE AT THE TOP OF RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.
- 15. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, WHERE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE, OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
- 16. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01.
- 17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
- 18. DETECTABLE WARNING SURFACES WILL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
- 19. DETECTABLE WARNING SURFACES WILL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
CURB RAMP
NOTES

SHEET 13 OF 13
848.06