

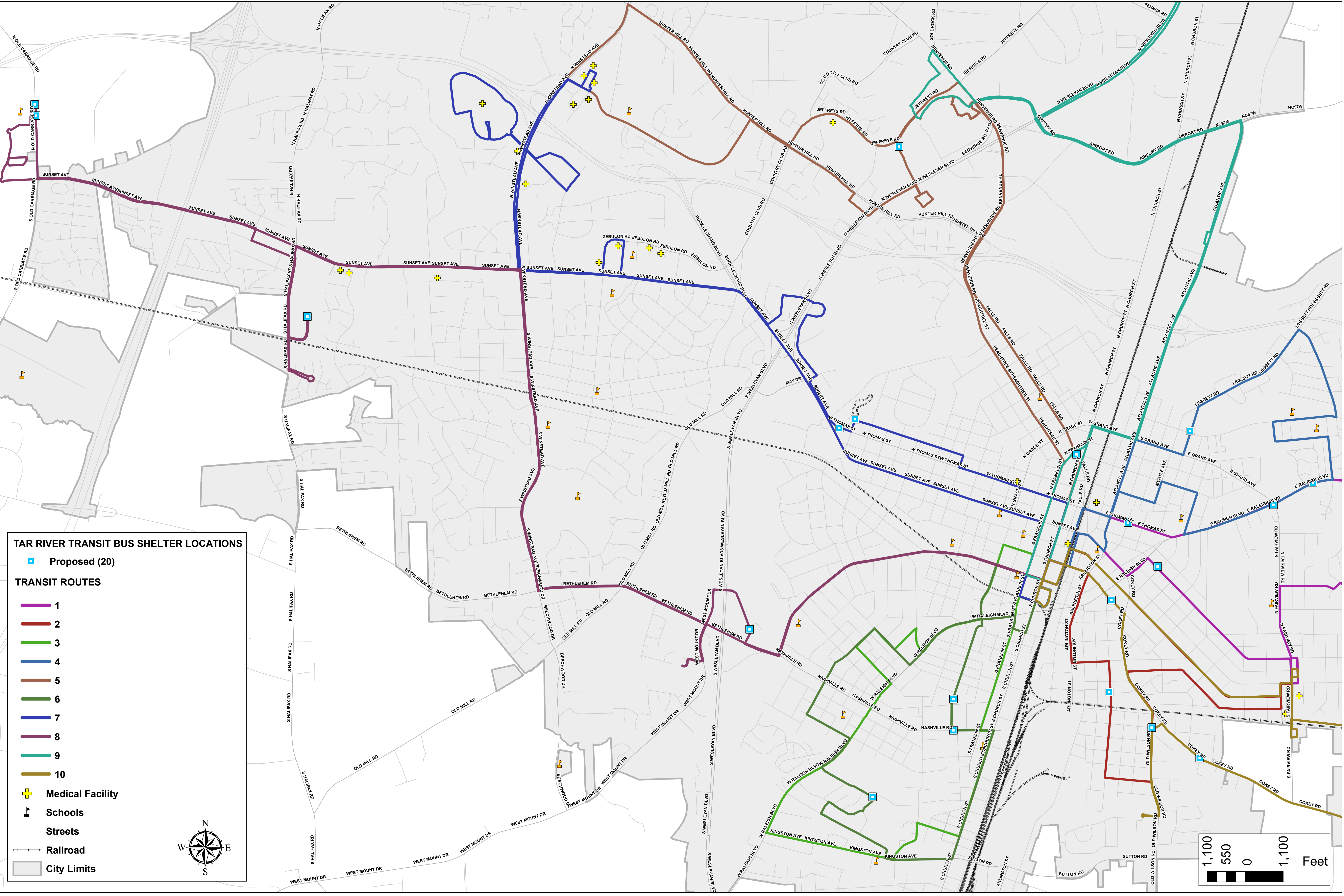
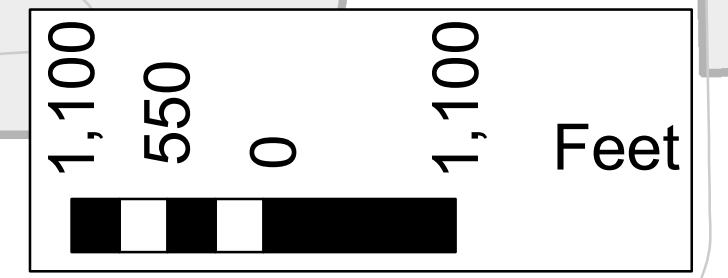
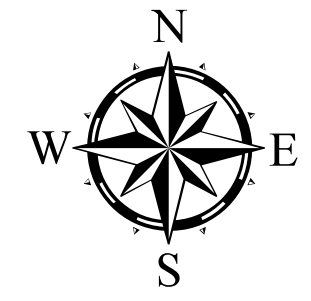
TAR RIVER TRANSIT BUS SHELTER LOCATIONS

- Proposed (20)

TRANSIT ROUTES

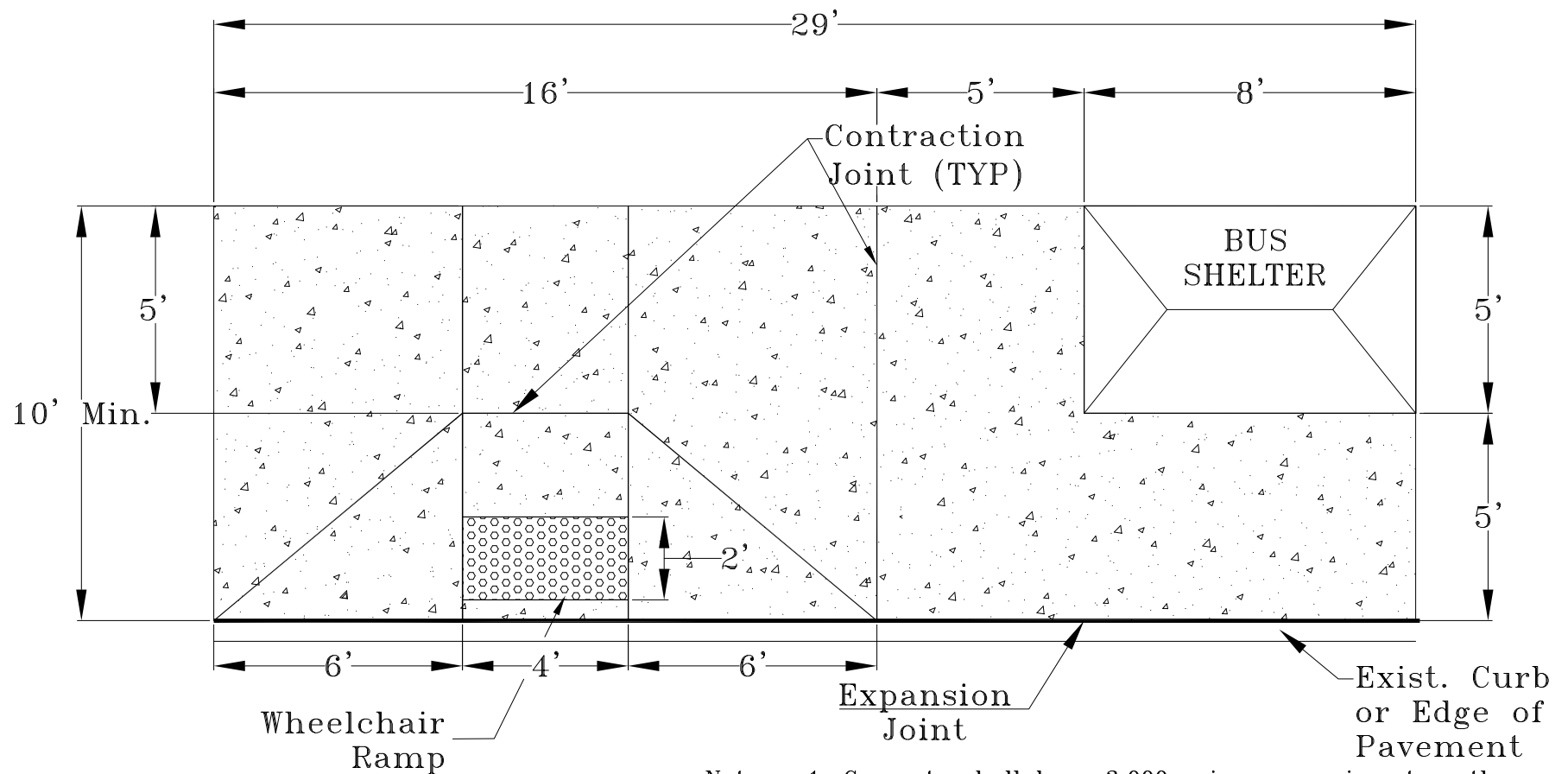
- 1
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- 10

- + Medical Facility
- ▤ Schools
- Streets
- Railroad
- ▭ City Limits



2021 Tar River Transit Proposed Shelter Locations

SHELTER	ROUTE_NUMB	ROUTE_NAME	ID	LOCATION	NDDOT	sidewalk	Adj_City_Prop	Comment
Proposed	1	Meadowbrook	295	Pinehurst @ E Raleigh	Y	Y	N	(blank)
			297	E Thomas @ Lexington	Y	Y	N	(blank)
			477	E Raleigh Blvd @ Sycamore	Y	Y	N	(blank)
	2	Oakwood	35	Old Wilson @ Rex (NB)	Y	Y	Y	(blank)
			81	Branch @ Short	N	Y	N	(blank)
			203	Park @ E Virginia	N	Y	N	(blank)
	4	Hillsdale	499	E Raleigh @ Fairview/Grande (EB)	Y	Y	N	(blank)
			121	Falls @ Franklin-Northbound	Y	Y	Y	(blank)
	5	Golden East	340	Sutters Creek @ Jeffereys	N	Y	N	will need encroachment into parking lot
			144	S Grace @ Paul	N	Y	N	(blank)
	6	Ravenwood	195	Nashville @ S Grace	Y	Y	N	(blank)
			239	Ravenwood @ Recreation-Eastbound	N	Y	N	(blank)
			44	W Thomas @ Bryant	Y	Y	Y	(blank)
	7	Sunset	133	Gay @ Bryant	N	N	Y	(blank)
			46	Harbour West @ (Shopping Center)	N	N	N	(blank)
			181	Mcintyre Ln Northbound	N	N	N	(blank)
	8	NCC & Little Easonburg	443	Old Carriage (Nash Community College #1 B&I Center)-North	Y	Y	N	(blank)
			444	Nash Community College #2 Cont. Ed. Bldg)-Southbound	N	N	N	(blank)
			409	Cokey @ Parrish-Southbound	Y	Y	N	Pad installed
	10	Rocky Mount East	463	Marigold @ Branch (Post Office)-Southbound	Y	N	Y	(blank)
Grand Total								



- Notes:
1. Concrete shall have 3,000 psi compressive strength.
 2. Concrete thickness shall be 6".
 3. Refer to Std. Details 2.21-2.23 for construction of wheelchair ramp.
 4. Where shown on plans, specified by Engineer, or existing subgrade must be removed due to soft, wet, frozen or yielding subgrade being encountered, #57 or #67 clean, washed stone bedding shall be provided, or CABC where shown on plans.

Scale: 1"=4'

CONCRETE BUS SHELTER PAD- No Existing Sidewalk

REVISIONS		
NO	DATE	DESCRIPTION

CITY OF ROCKY MOUNT
DEPT. OF ENGINEERING

APPROVED

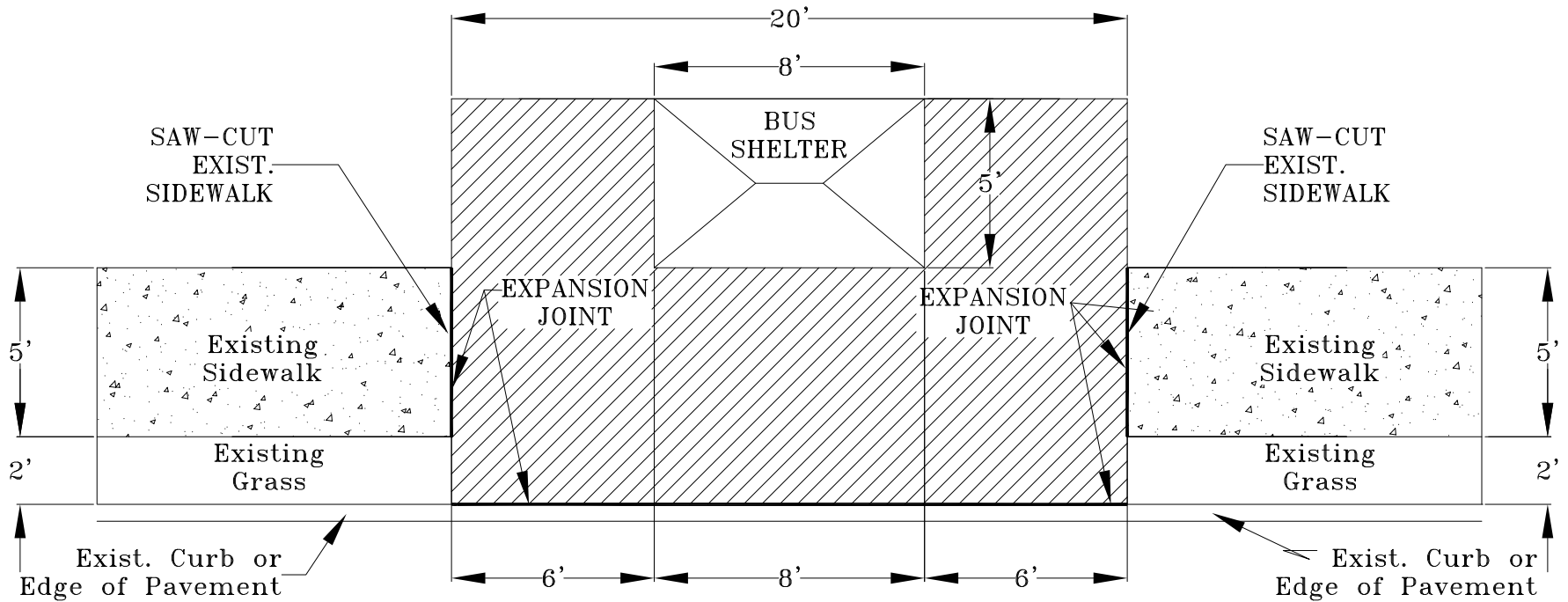
DATE
2-4-11

STD. NO.

1.20

REVISION

-



- Notes:
1. Concrete shall have 6,000 Min. psi compressive strength.
 2. Concrete thickness shall be 6".
 3. Wheelchair Ramps intersections shall meet current ADA requirement retrofit as needed per CRM std. 2.21/2
 4. Where shown on plans, specified by Engineer, or existing subgrade must be removed due to soft, wet, frozen or yielding subgrade being encountered, #57 or #67 clean, washed stone bedding shall be provided, or CABC where shown on plans.

Scale: 1" = 5'

CONCRETE BUS SHELTER PAD- Existing Sidewalk

CITY OF ROCKY MOUNT
DEPT. OF ENGINEERING

APPROVED

STD. NO.

1.21

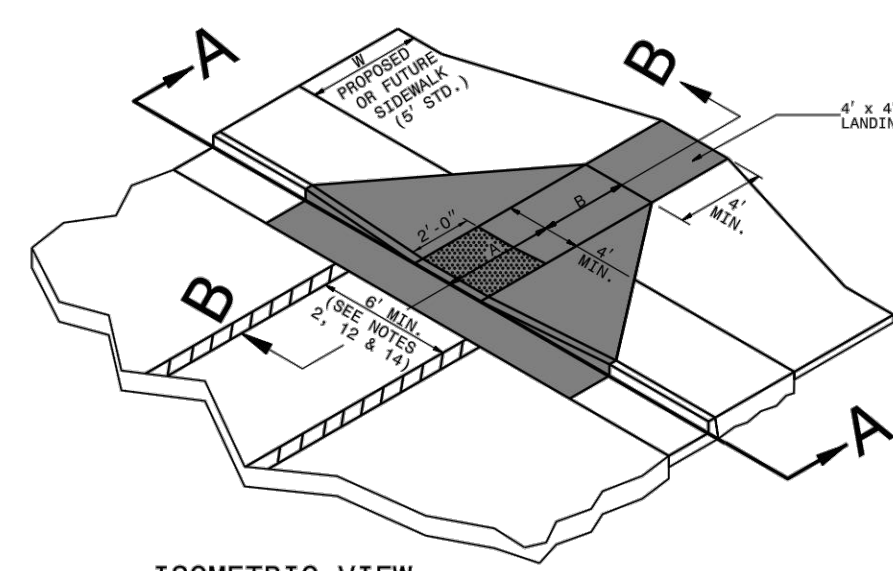
DATE

REVISION

2-4-11

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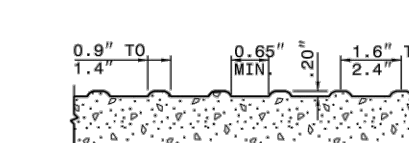
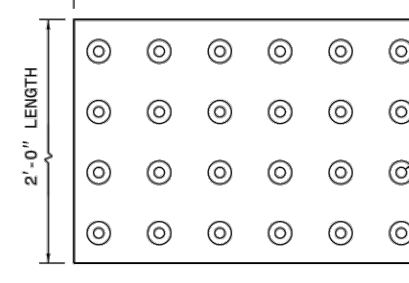
REVISIONS		
NO	DATE	DESCRIPTION



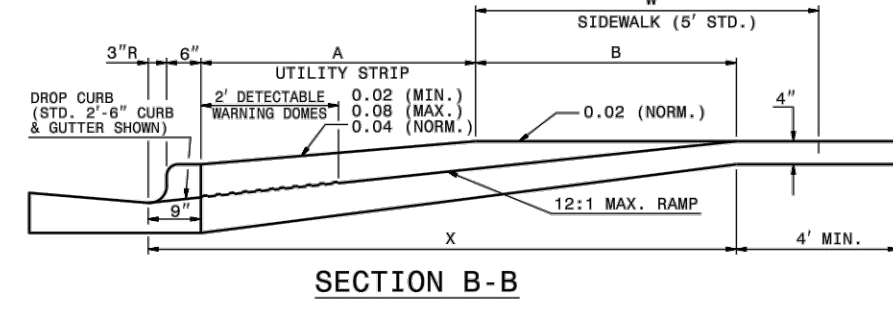
ISOMETRIC VIEW

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

RAMP WIDTH AREA IS VARIABLE



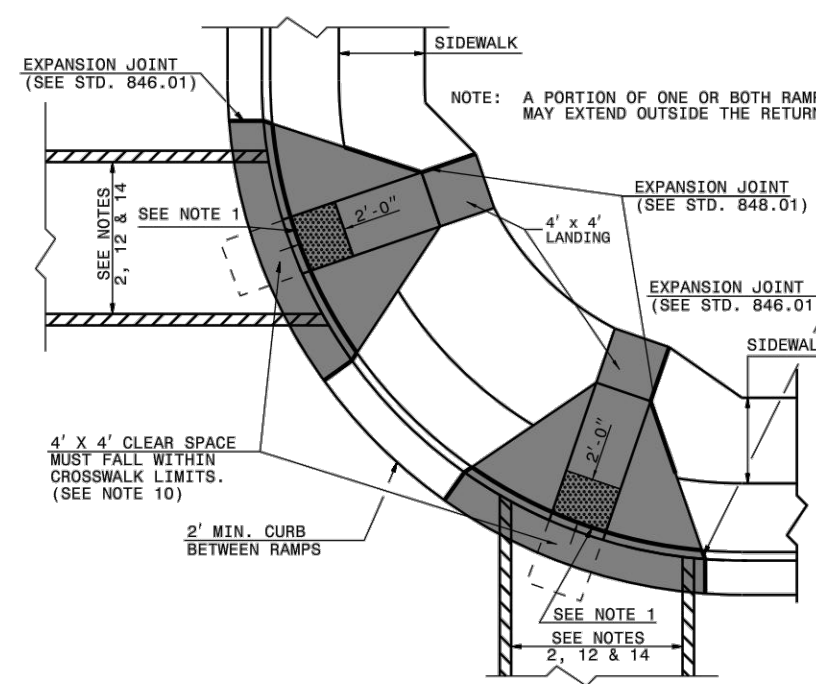
DETECTABLE WARNING DOMES



SECTION B-B



SECTION A-A



PLAN VIEW

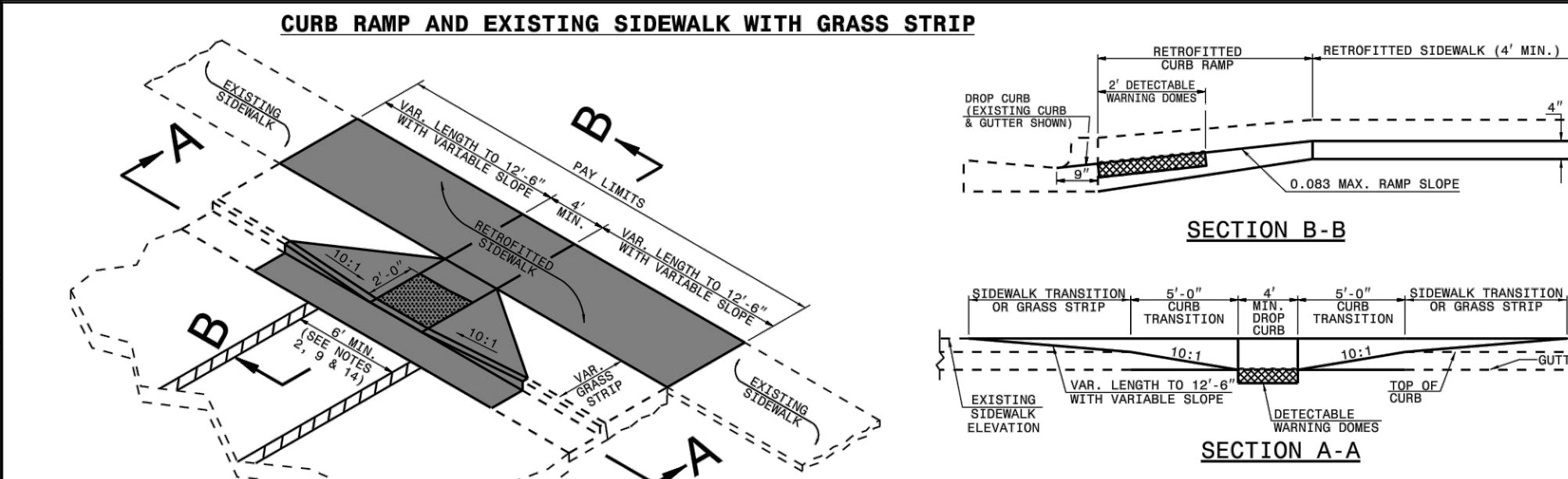
W	A	W/A(10')	X	B
5'	0.0'	5.0'	5.0'	5.0'
6'	0.0'	6.0'	6.0'	6.0'
7'	0.0'	7.0'	7.0'	6.5'
8'	0.0'	8.0'	7.5'	6.5'
9'	2.0'	7.0'	7.8'	5.0'
9'	2.0'	8.0'	8.11'	4.8'
9'	3.0'	6.0'	6.3'	4.4'
9'	4.0'	5.0'	5.6'	3.9'
9'	4.5'	4.5'	4.5'	3.4'
9'	5.0'	4.0'	4.0'	3.1'

- B = X - (A+9')
- B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8:20) SLOPE.
- * BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
- ** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04.

1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR CURB RAMP PROPOSED CURB AND GUTTER

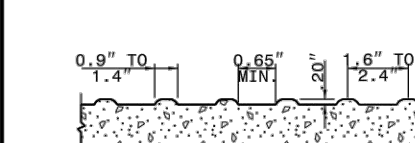
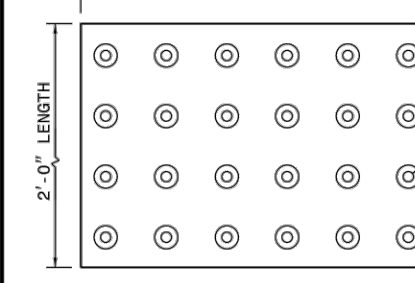
SHEET 1 OF 3 848.05



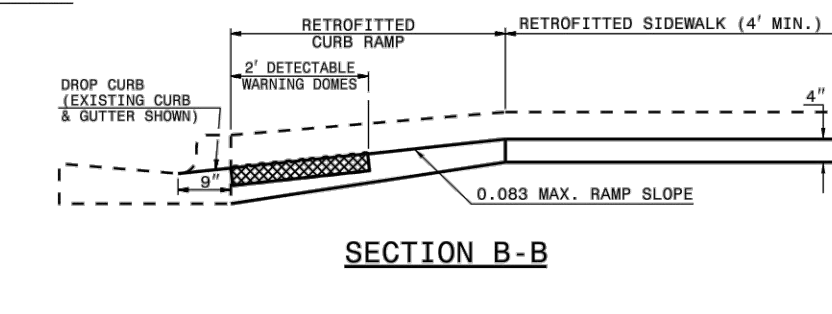
ISOMETRIC VIEW

PAY LIMITS OF CURB RAMP

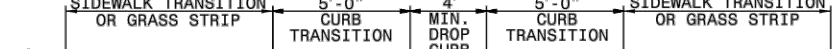
RAMP WIDTH AREA IS VARIABLE



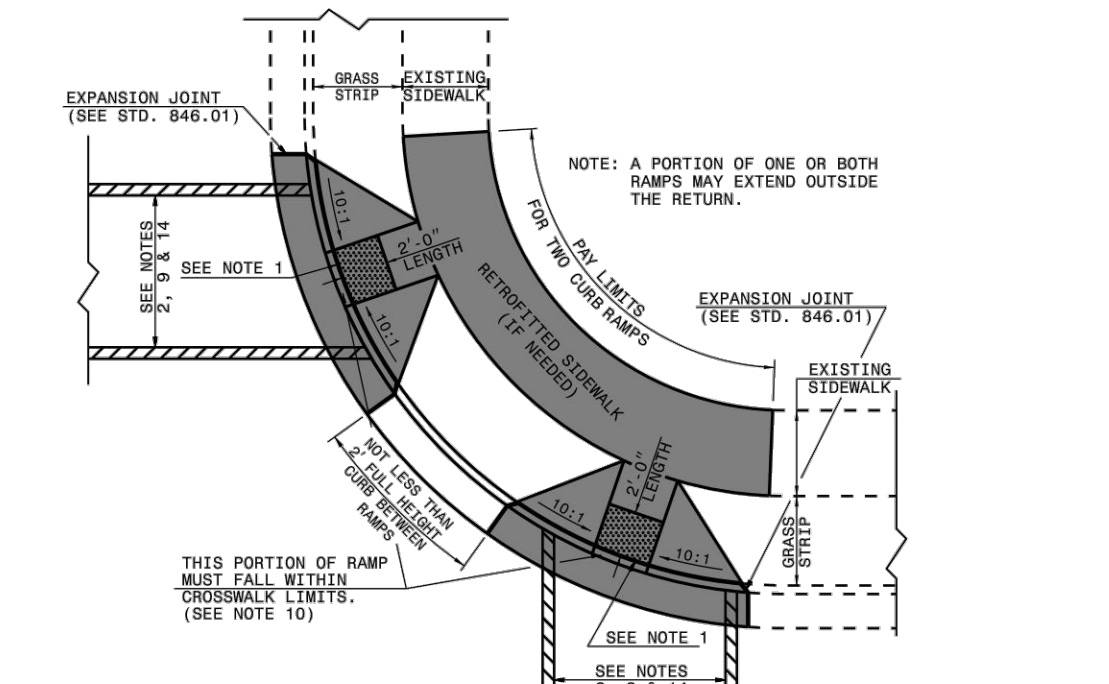
DETECTABLE WARNING DOMES



SECTION B-B



SECTION A-A



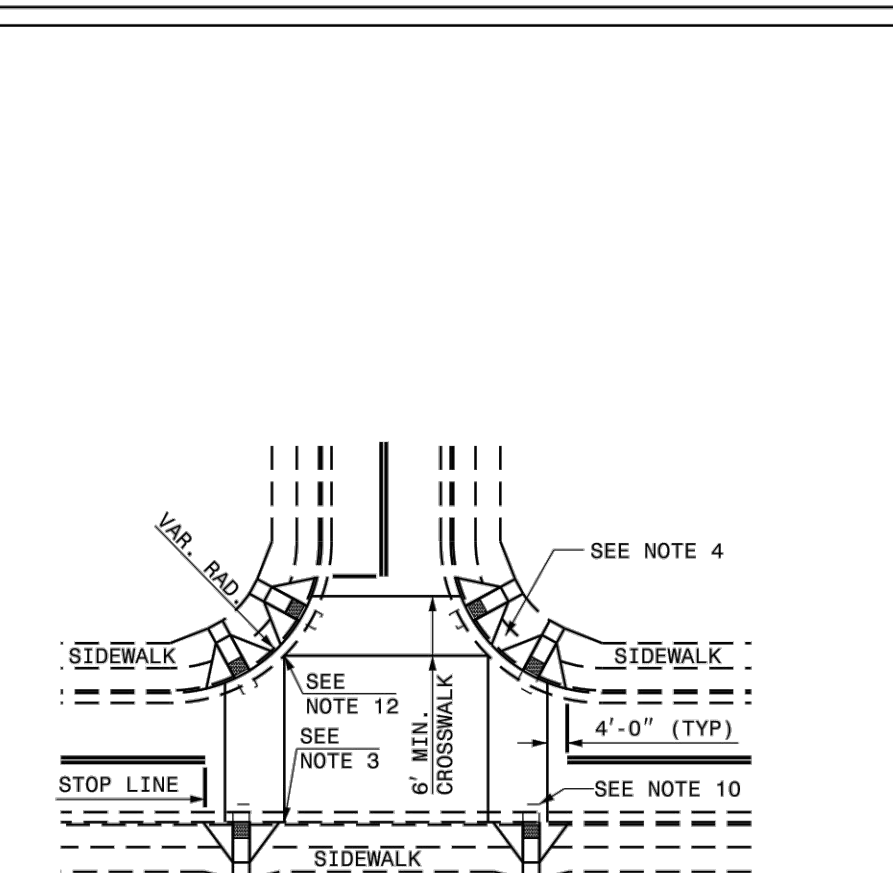
PLAN VIEW

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

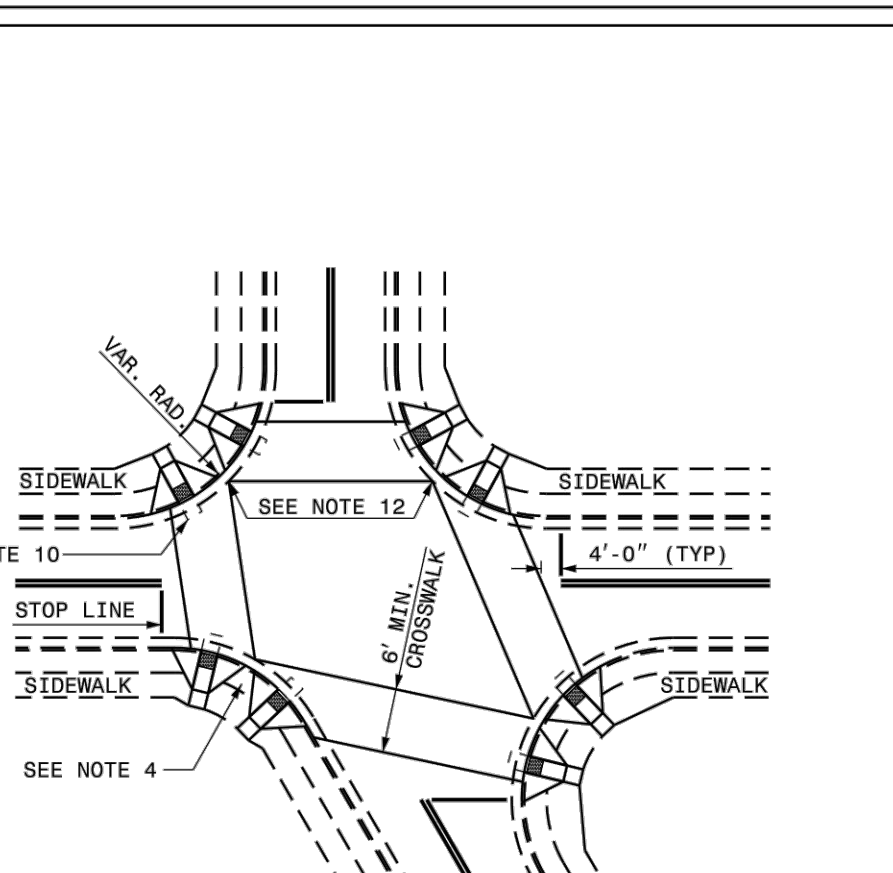
1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR CURB RAMP EXISTING CURB AND GUTTER

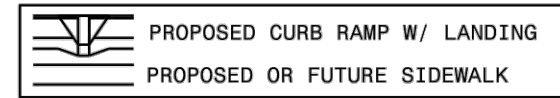
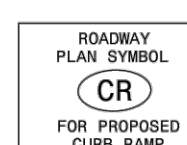
SHEET 1 OF 5 848.06



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

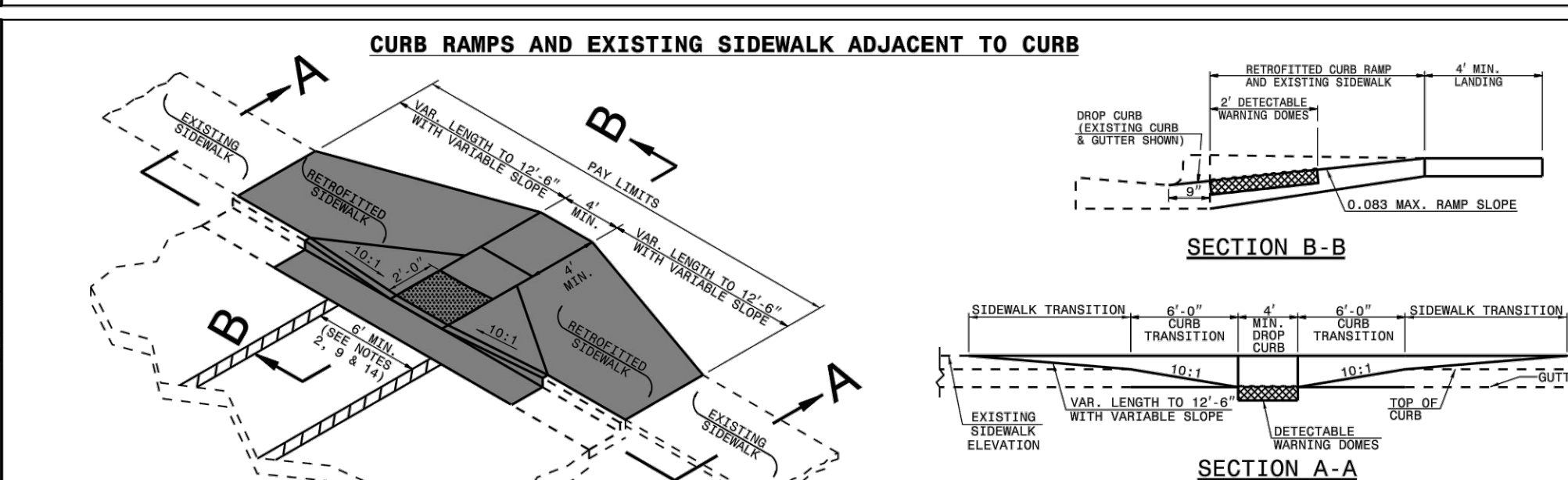


ALLOWABLE LOCATIONS
DUAL RAMP RADII.....ANY

1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR CURB RAMP PROPOSED CURB AND GUTTER

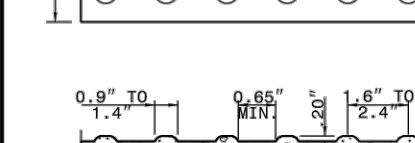
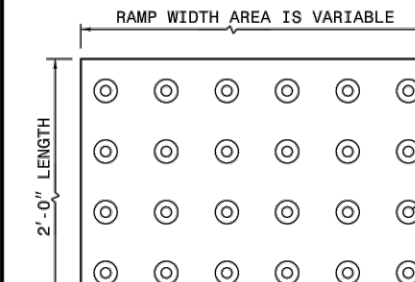
SHEET 2 OF 3 848.05



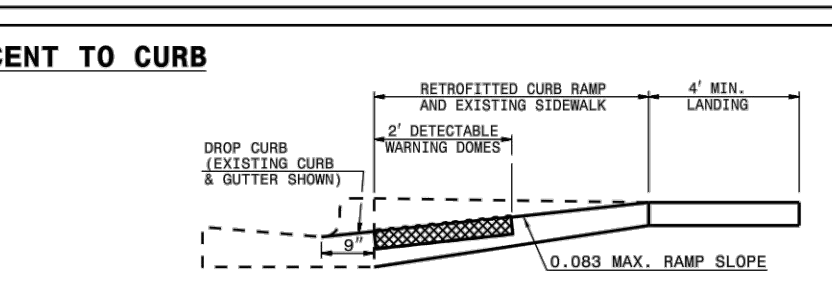
ISOMETRIC VIEW

PAY LIMITS OF CURB RAMP

RAMP WIDTH AREA IS VARIABLE



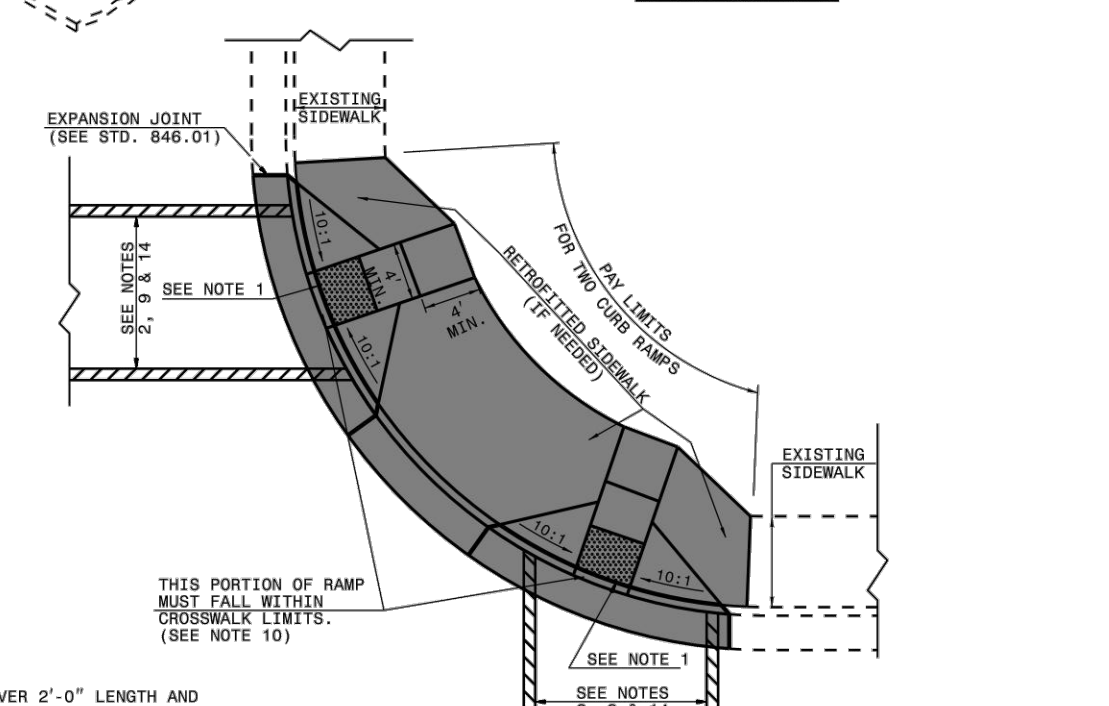
DETECTABLE WARNING DOMES



SECTION B-B



SECTION A-A



PLAN VIEW

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

1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR CURB RAMP EXISTING CURB AND GUTTER

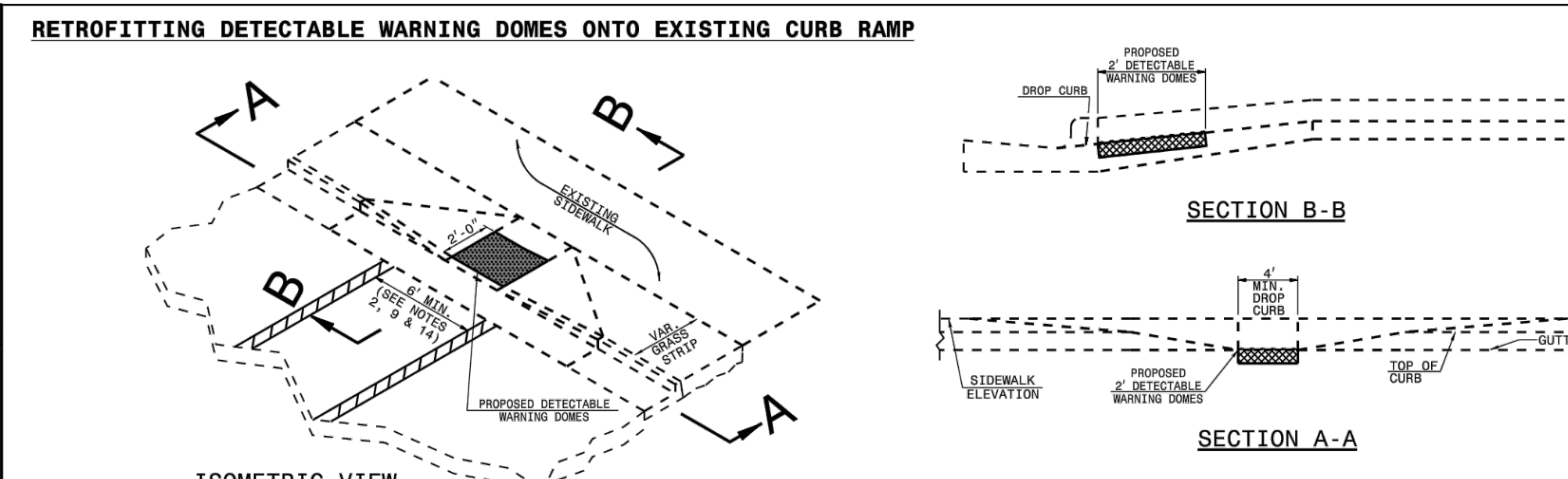
SHEET 2 OF 5 848.06

- 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' BACK OF A 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 LANDINGS FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
 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' LANDING AT THE TOP OF A 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. 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. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.

1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR CURB RAMPS NOTES

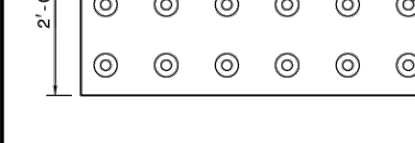
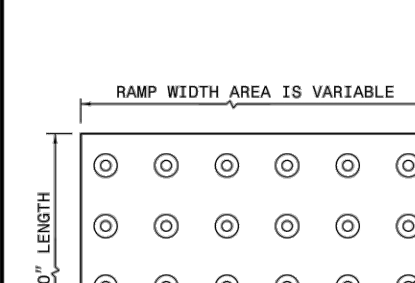
SHEET 3 OF 3 848.05



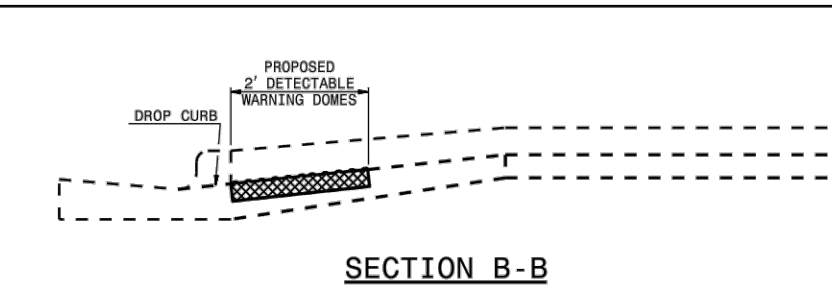
ISOMETRIC VIEW

PAY LIMITS OF RETROFIT CURB RAMP

RAMP WIDTH AREA IS VARIABLE



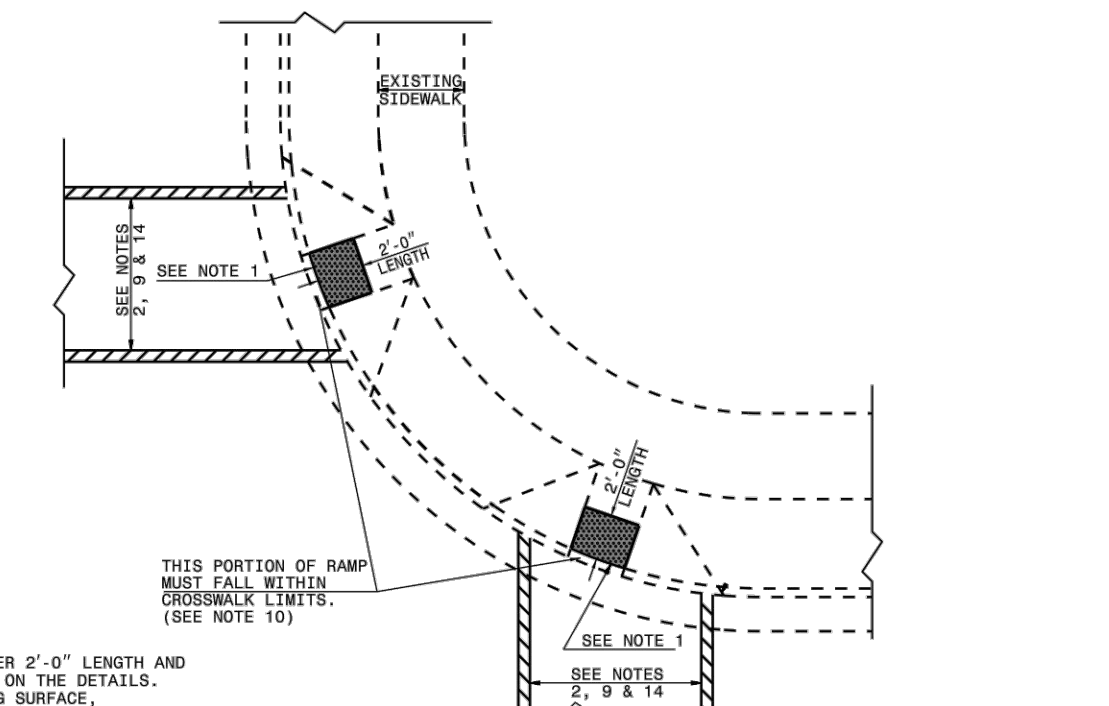
DETECTABLE WARNING DOMES



SECTION B-B



SECTION A-A



PLAN VIEW

- NOTES:
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1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR CURB RAMP EXISTING CURB AND GUTTER

SHEET 3 OF 5 848.06

Request for Proposal #: 320-210521CH
FY22 TRT Bus Shelter Construction
CITY OF ROCKY MOUNT

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

ROADWAY STANDARD DRAWING FOR CURB RAMP EXISTING CURB AND GUTTER

SHEET 1 OF 5 848.06

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

ROADWAY STANDARD DRAWING FOR CURB RAMP EXISTING CURB AND GUTTER

SHEET 2 OF 5 848.06

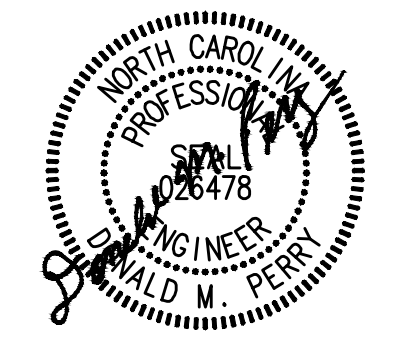
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR CURB RAMPS NOTES

SHEET 3 OF 3 848.05

SHEET TITLE: SIDEWALK CURB RAMP DETAILS
PROJECT #:
CAD FILE:
DATE: 6-17-2021
SURVEYED BY: EHC / GR
DESIGNED BY: REP
DRAWN BY: REP
CHECKED BY: SJY / DMP
SCALE: AS NOTED
DRAWING #:
SHEET NUMBER: 1 OF 2 SHEET

D-1



6-17-2021
REVISIONS

Request for Proposal #:
320-210521CH
FY22 TRT Bus Shelter
Construction
CITY OF ROCKY MOUNT

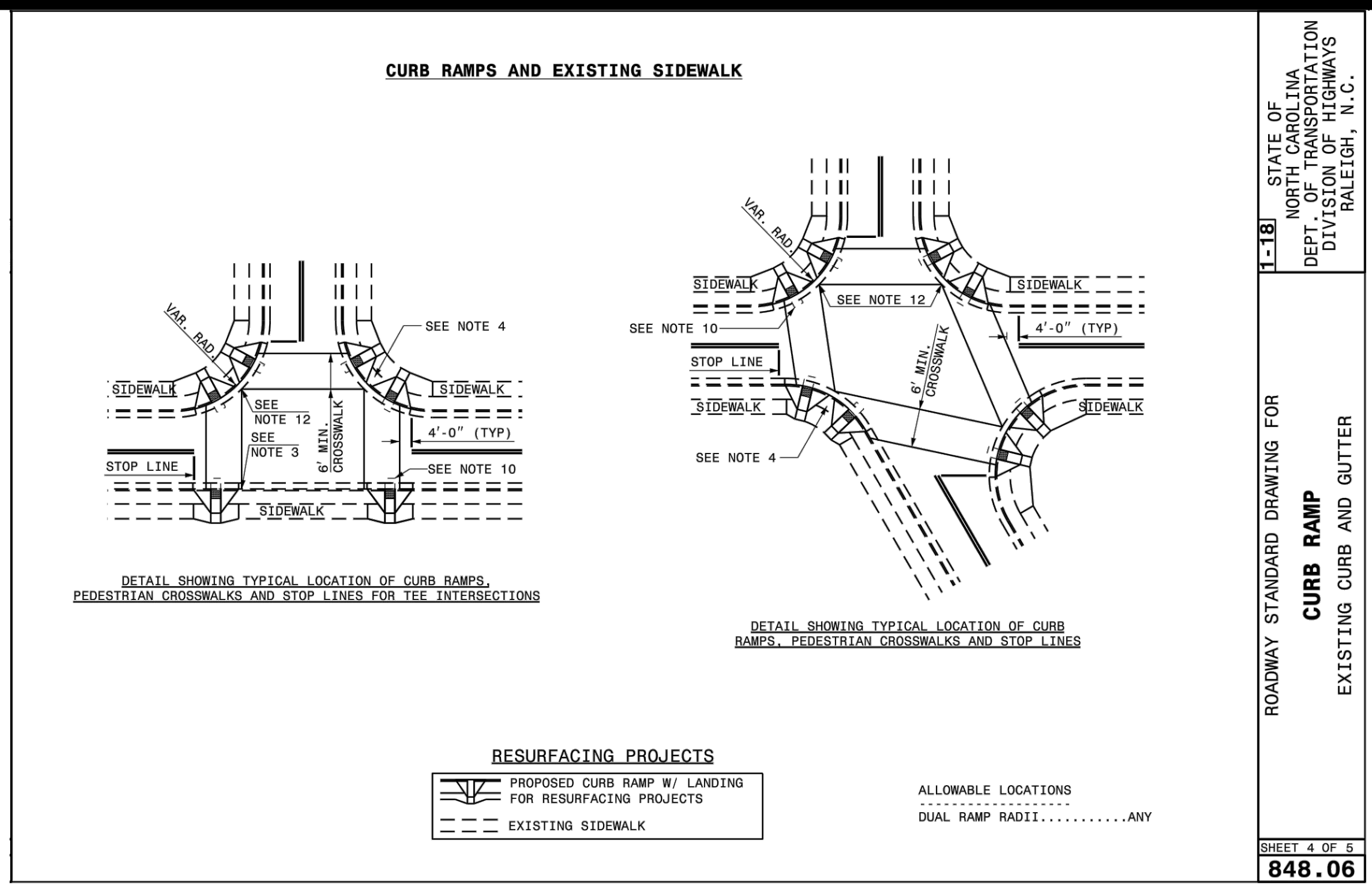


SHEET TITLE:
SIDEWALK CURB
RAMP DETAILS

PROJECT #:
CAD FILE:
DATE: 6-17-2021
SURVEYED BY: EHC / GR
DESIGNED BY: REP
DRAWN BY: REP
CHECKED BY: SJY / DMP
SCALE: AS NOTED
DRAWING #:

SHEET NUMBER: 2 OF 2
SHEET

D-2



CURB RAMP AND EXISTING SIDEWALK

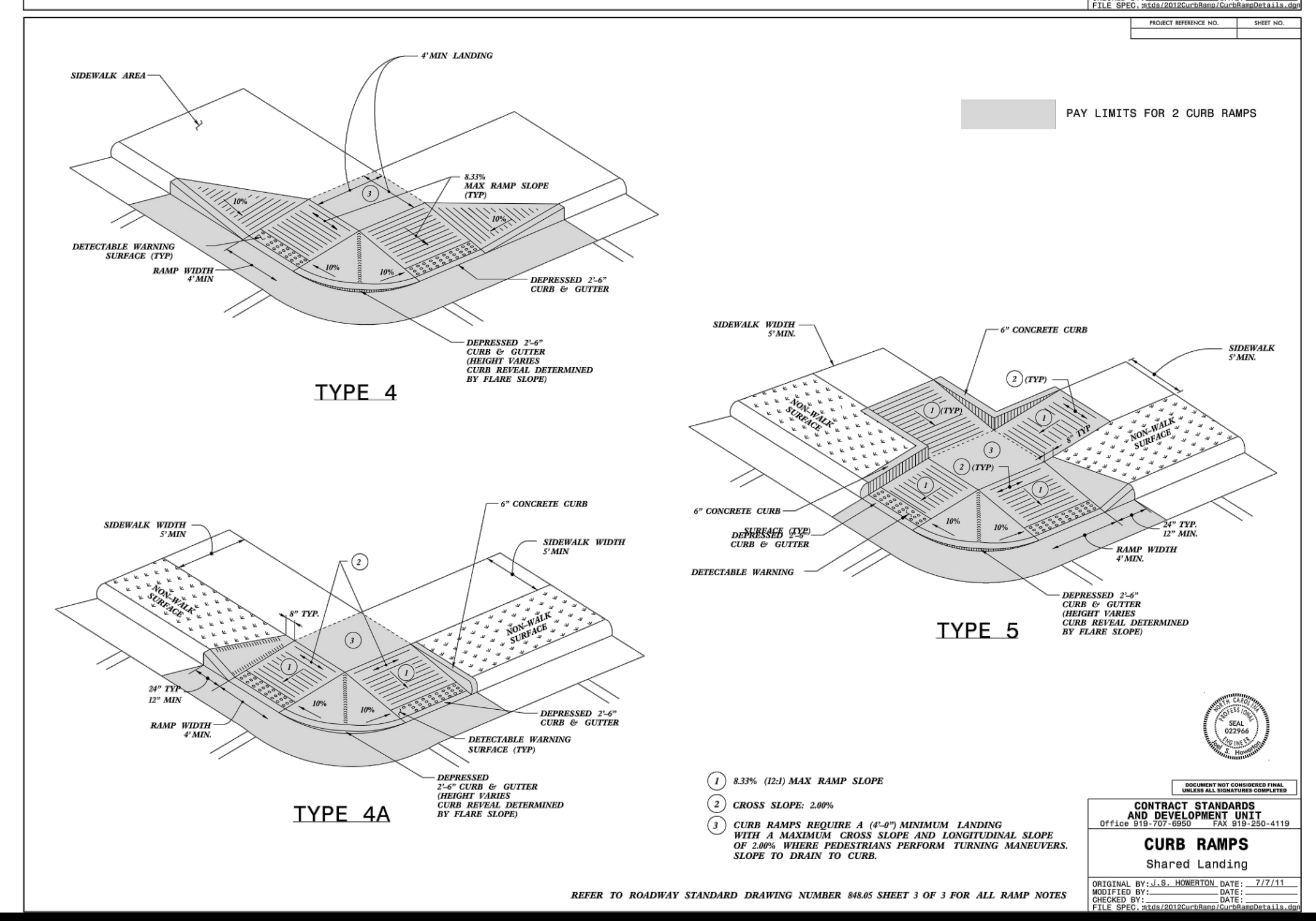
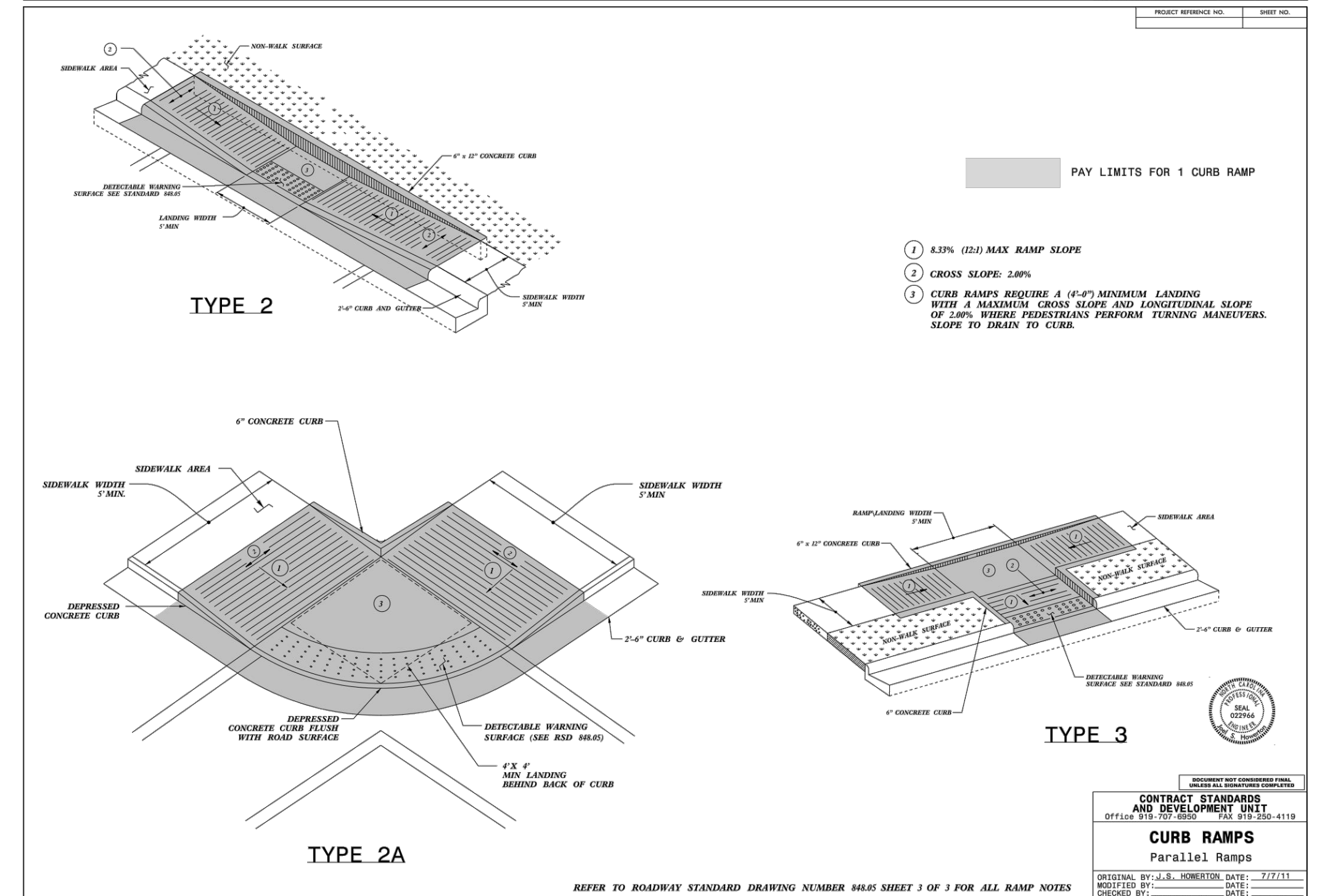
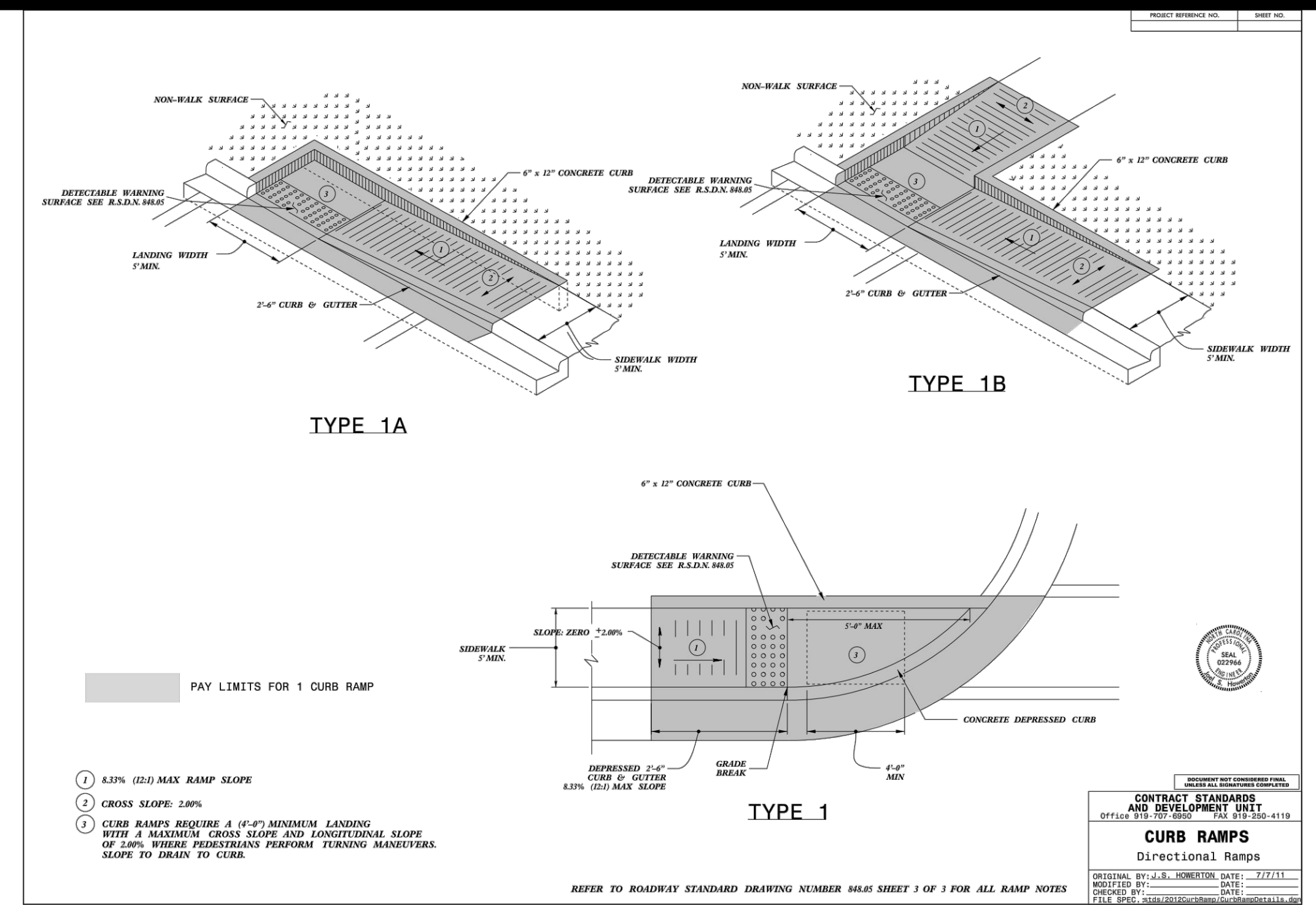
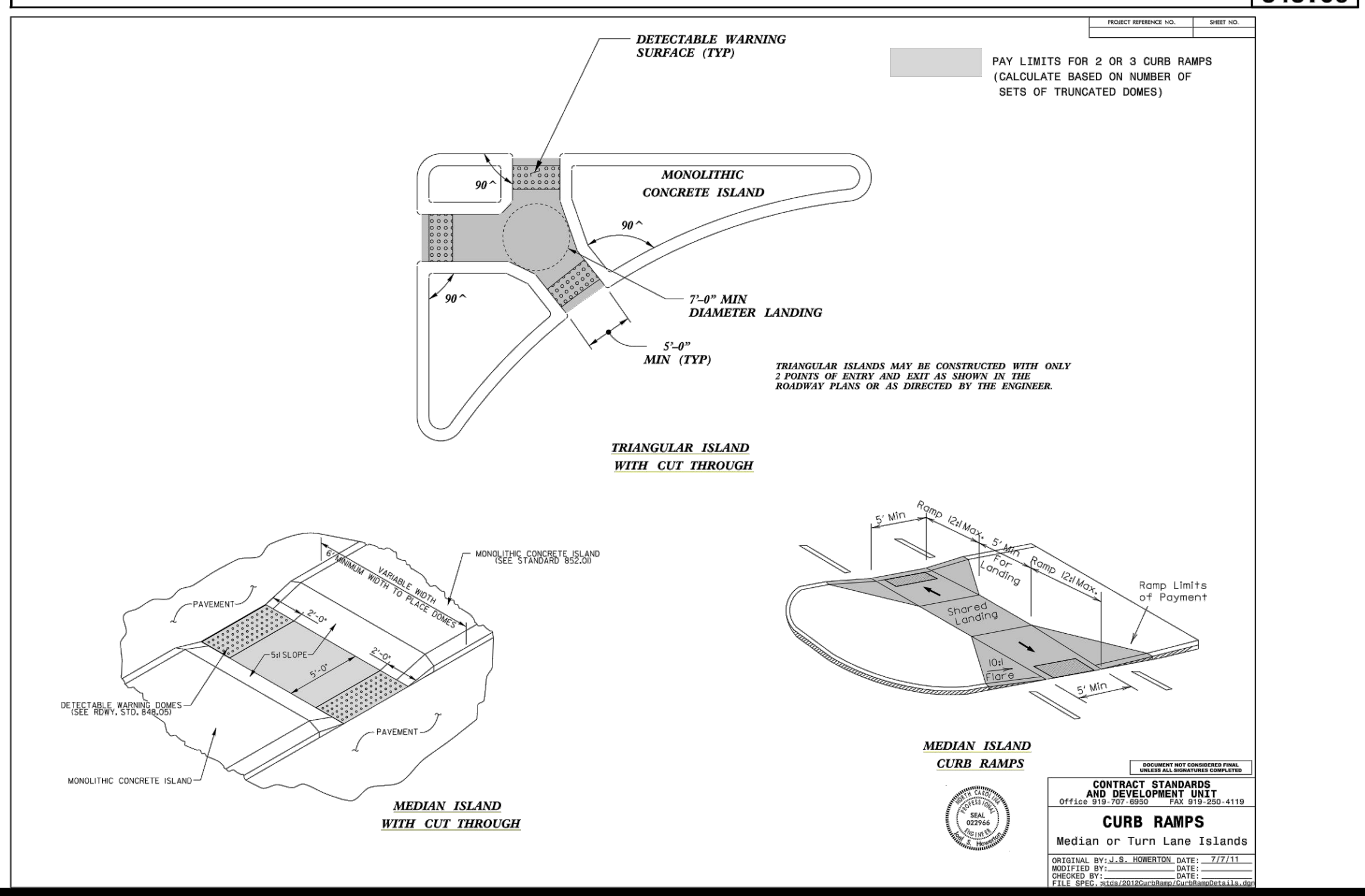
NOTES:

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

ROADWAY STANDARD DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

SHEET 6 OF 6
848.06



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BRASCO INTERNATIONAL, INC.

INSTALLATION GUIDELINES

Thank you for your order with Brasco International, Inc. Attached to these Guidelines are engineering instructions specific to your order. Please review all pages in full before proceeding with your installation.

Storage:

- It is important that products stored outside be fully tarped. Wooden crates, cardboard boxes and identifying labels are not weatherproof and will deteriorate in the elements.
- If your order includes solar lighting, be cautious when handling batteries as they are capable of generating hazardous short-circuit currents. Remove all jewelry (bracelets, metal watches, rings) before attempting to handle or disassemble batteries.
- Batteries should be stored indoors at a recommended 68 degrees Fahrenheit for max. shelf life.
- Batteries should be installed no later than 3 months of delivery or battery warranties will be void.

Cleaning

- Do not use anything abrasive (steel wool, abrasive brushes) to clean any surface. Anodized surfaces are prone to marring from abrasives. Painted surfaces will dull as a result, and glass and plastic may scratch and break down.
- Over cleaning or excessive rubbing can do more harm than good.
- To prevent marring, make sure cleaning sponges, clothes, etc. are free of grit or dirt.
- Strong solvents can cause damage to the finished surfaces of both anodized and powder coated aluminum. Always clean a test surface in an inconspicuous area first.
- Avoid temperature extremes as heat can accelerate chemical reactions and may evaporate water from cleaning solutions. Extremely low temperatures may result in poor cleaning results.
- Solar panels need to be regularly cleaned to ensure maximum performance. Clean as needed with water and a soft cloth or sponge using a mild non-abrasive soap, and rinse well.

COMMON TOOLS NEEDED FOR INSTALLTION

<input type="checkbox"/> Drill Motor	<input type="checkbox"/> Cordless Drill	<input type="checkbox"/> Rivet Gun
<input type="checkbox"/> 1/4" Drill Bit	<input type="checkbox"/> Air Compressor	<input type="checkbox"/> Tape Measure
<input type="checkbox"/> #11 Drill Bit	<input type="checkbox"/> Steel Hammer	<input type="checkbox"/> Torque Wrench
<input type="checkbox"/> 8" Long 1/2" Masonry Drill Bits	<input type="checkbox"/> Dead Blow Hammer or Mallet	<input type="checkbox"/> 60" Bar Clamps
<input type="checkbox"/> 5/8" and 3/4" Socket and Wrench	<input type="checkbox"/> Bubble Level, Line / String Level	<input type="checkbox"/> Generator or Other Power Source
<input type="checkbox"/> HD Drill Motor or Hammer Drill	<input type="checkbox"/> Min. 6ft. Step Ladder	<input type="checkbox"/> Shop Vac or Broom for Clean Up

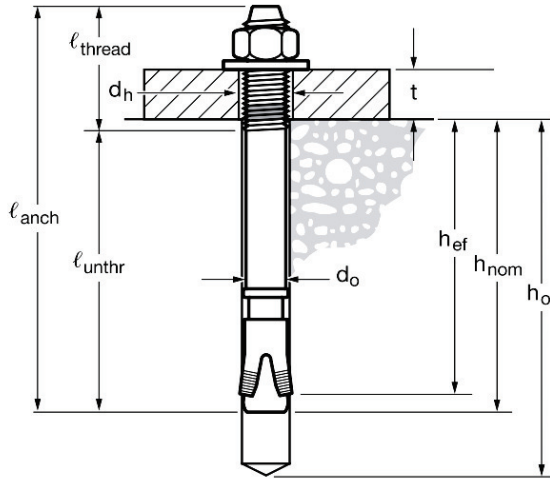
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Expansion Anchor Guidelines

Expansion Anchor Installed



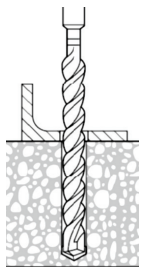
Expansion Anchor Technical Reference Chart

Setting information	Symbol	Units	Nominal anchor diameter d_o																				
			3/8			1/2			5/8			3/4											
Nominal bit diameter	d_{bit}	in.	3/8			1/2			5/8			3/4											
Minimum nominal embedment	h_{nom}	in. (mm)	2-5/16 (59)			2-3/8 (60)			3-5/8 (91)			3-9/16 (91)			4-7/16 (113)			4-5/16 (110)			5-9/16 (142)		
Effective minimum embedment	h_{ef}	in. (mm)	2 (51)			2 (51)			3-1/4 (83)			3-1/8 (79)			4 (102)			3-3/4 (95)			4-3/4 (121)		
Min. hole depth	h_o	in. (mm)	2-5/8 (67)			2-5/8 (67)			4 (102)			3-3/4 (95)			4-3/4 (121)			4-5/8 (117)			5-3/4 (146)		
Min. thickness of fixture ¹	t_{min}	in. (mm)	1/8 (3)			1/8 (3)			n/a			1/8 (3)			n/a			1/8 (3)			n/a		
Max. thickness of fixture	t_{max}	in. (mm)	2-1/4 (57)			4 (101)			2-3/4 (70)			5-5/8 (143)			4-3/4 (121)			4-5/8 (117)			3-5/8 (92)		
Installation torque	T_{inst}	ft-lb (Nm)	25 (34)			40 (54)			60 (81)			110 (149)			110 (149)			110 (149)			110 (149)		
Fixture hole diameter	d_h	in. (mm)	7/16 (11.1)			9/16 (14.3)			11/16 (17.5)			13/16 (20.6)			13/16 (20.6)			13/16 (20.6)			13/16 (20.6)		
Available anchor lengths	l_{anch}	in. (mm)	3 (76)	3-3/4 (95)	5 (127)	3-3/4 (95)	4-1/2 (114)	5-1/2 (140)	7 (178)	4-3/4 (121)	6 (152)	8-1/2 (216)	10 (254)	5-1/2 (140)	8 (203)	10 (254)							
Threaded length including dog point	l_{thread}	in. (mm)	7/8 (22)	1-5/8 (41)	2-7/8 (73)	1-5/8 (41)	2-3/8 (60)	3-3/8 (86)	4-7/8 (178)	1-1/2 (38)	2-3/4 (70)	5-1/4 (133)	6-3/4 (171)	1-1/2 (38)	4 (102)	6 (152)							
Unthreaded length	l_{unthr}	in. (mm)	2-1/8 (54)			2-1/8 (54)			3-1/4 (83)			4 (102)											

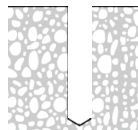
1. Minimum thickness of fixture is a concern only when the anchor is installed at the minimum nominal embedment. When KWIK Bolt TZ anchors are installed at this embedment, the anchor threading ends near the surface of the concrete. If the fixture is sufficiently thin, it could be possible to run the nut to the bottom of the threading during application of the installation torque. If fixtures are thin, it is recommended that embedment be increased accordingly.

Anchoring Expansion Anchors into Concrete

Step 1. Prepping the Concrete:

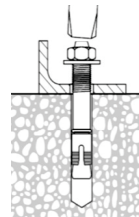


Using anchor boot as a template, mark hole locations and move anchor boot out of the way. Drill a hole the same diameter as the expansion anchor to a minimum depth of 1/2" deeper than the anchor will penetrate to allow debris to fall during installation



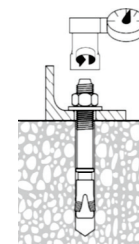
Step 2. Prepping the Hole:

Clean debris from holes using a wire brush, vacuum, or compressed air.



Step 3. Anchor Installation:

Replace the anchor boot and align with holes in the concrete. Make sure the nut on the expansion anchor is threaded to the top of the threaded rod to prevent damage to the threads. Insert the expansion anchor through the base plate and into the hole in the concrete. Hit the expansion anchor with sharp blows until the washers are snug against the base plates.



Step 4. Securing the Anchor Boot:

Tighten the nut to the recommended installation torque.



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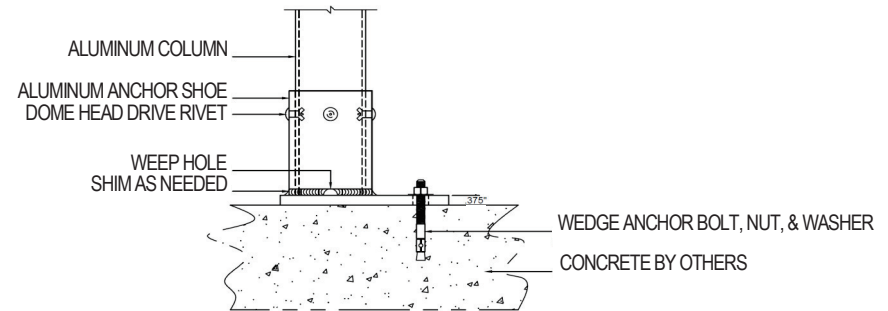
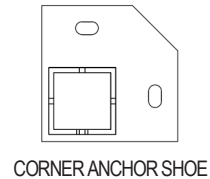
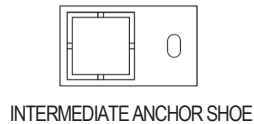
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Standard Brasco Anchoring Guidelines

1. Locating proper column locations is critical. Care must be taken to keep columns plumb and walls square to each other.
2. Shelter should be sloped slightly to the rear for proper drainage. Approximately 1/4 inch slope per ft. from front to rear of shelter is recommended. Columns should be shimmed as necessary.
3. Anchors to be installed in conjunction with manufacturers recommendations only. (See Expansion Anchor technical chart)
4. Anchors need to be installed a minimum of 6 inches from the edge of the concrete pad. See [Brasco's General Concrete Pad Recommendations](#) for reference.

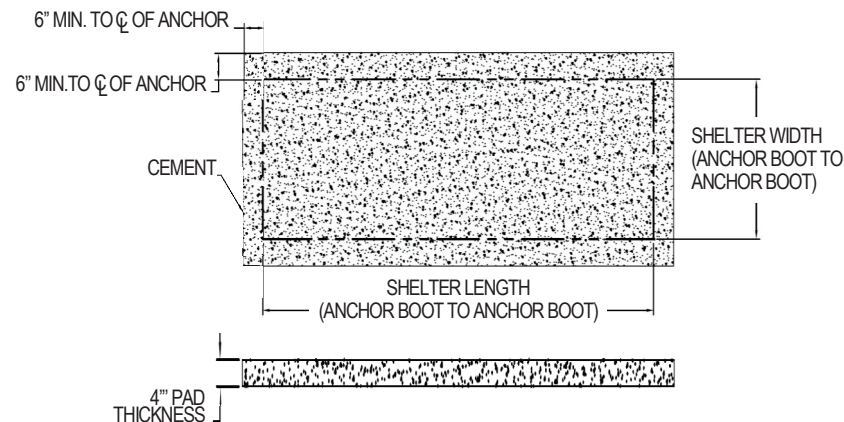
Anchoring System Overview



General Concrete Pad Recommendations

PLEASE NOTE: These recommendations are to serve as a reference only. Brasco is not liable for concrete installation instructions unless structural concrete calculations are included with an order. Consult your local building codes for specific concrete pad requirements.

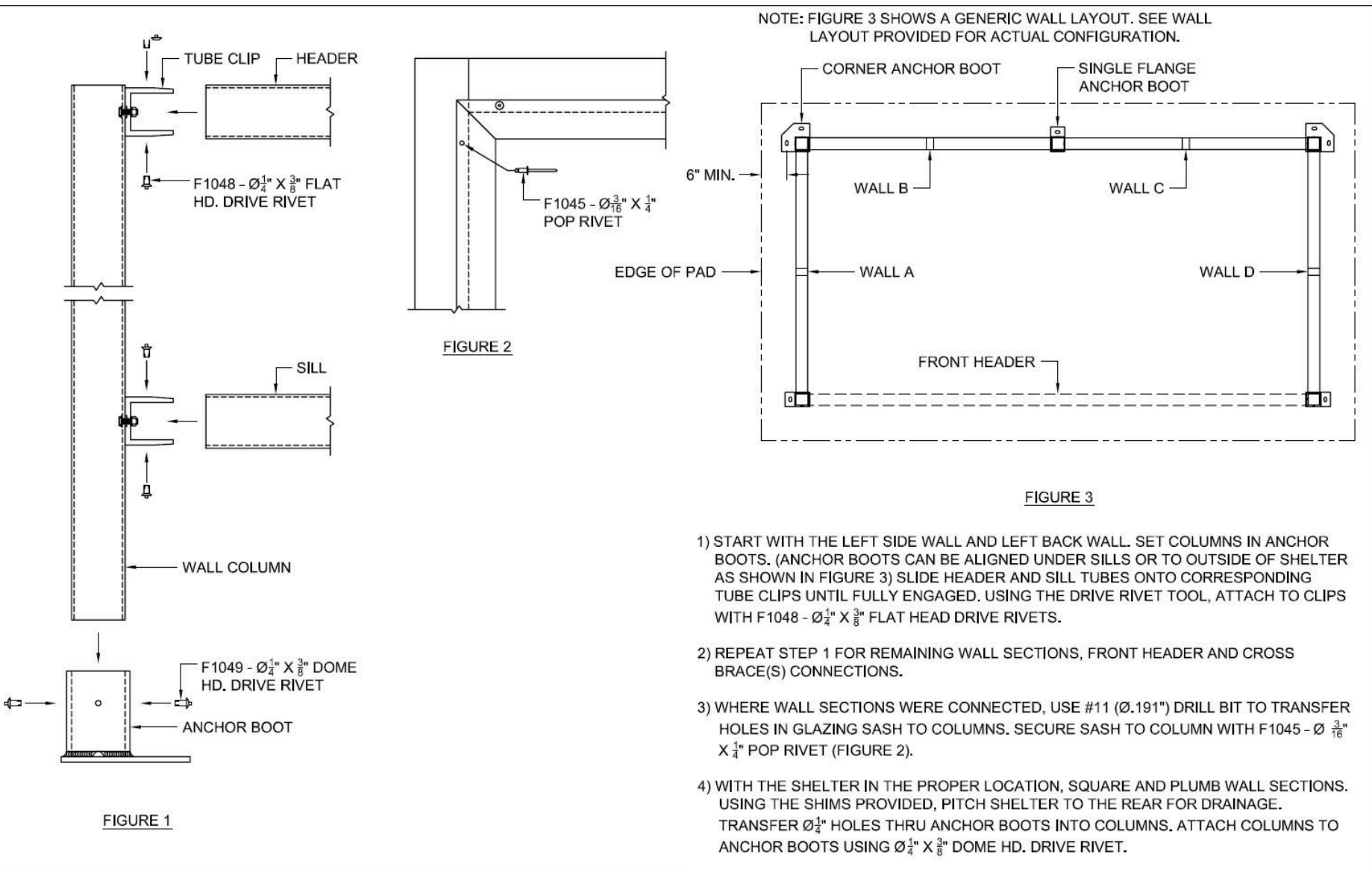
RECOMMENDATION: Brasco recommends a minimum of 4 inch thick, 3000 PSI concrete pad. The concrete pad should allow a minimum of 6 inches around the shelter perimeter to prevent concrete breakage when anchoring to the pad. Concrete may or may not require additional reinforcement. If concrete calculations are required for installation or permitting purposes, please contact your Brasco account manager for a quote.



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- 1) START WITH THE LEFT SIDE WALL AND LEFT BACK WALL. SET COLUMNS IN ANCHOR BOOTS. (ANCHOR BOOTS CAN BE ALIGNED UNDER SILLS OR TO OUTSIDE OF SHELTER AS SHOWN IN FIGURE 3) SLIDE HEADER AND SILL TUBES ONTO CORRESPONDING TUBE CLIPS UNTIL FULLY ENGAGED. USING THE DRIVE RIVET TOOL, ATTACH TO CLIPS WITH F1048 - $\varnothing \frac{1}{4}$ " X $\frac{3}{8}$ " FLAT HD. DRIVE RIVETS.
- 2) REPEAT STEP 1 FOR REMAINING WALL SECTIONS, FRONT HEADER AND CROSS BRACE(S) CONNECTIONS.
- 3) WHERE WALL SECTIONS WERE CONNECTED, USE #11 ($\varnothing .191$ ") DRILL BIT TO TRANSFER HOLES IN GLAZING SASH TO COLUMNS. SECURE SASH TO COLUMN WITH F1045 - $\varnothing \frac{3}{16}$ " X $\frac{1}{4}$ " POP RIVET (FIGURE 2).
- 4) WITH THE SHELTER IN THE PROPER LOCATION, SQUARE AND PLUMB WALL SECTIONS. USING THE SHIMS PROVIDED, PITCH SHELTER TO THE REAR FOR DRAINAGE. TRANSFER $\varnothing \frac{1}{4}$ " HOLES THRU ANCHOR BOOTS INTO COLUMNS. ATTACH COLUMNS TO ANCHOR BOOTS USING $\varnothing \frac{1}{4}$ " X $\frac{3}{8}$ " DOME HD. DRIVE RIVET.
- 5) DRILL A $\varnothing \frac{3}{8}$ " HOLE 4" DP. MINIMUM IN CONCRETE FOR F1022 - WEDGE ANCHORS. CLEAN DUST AND DEBRIS FROM HOLES. TAP WEDGE ANCHORS INTO HOLES LEAVING $\frac{1}{2}$ " MIN. EXPOSED ABOVE BOOT FLANGE. APPLY FLAT WASHER, LOCK WASHER AND NUT ONTO ANCHOR AND TIGHTEN SECURELY.



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SIGNED: _____ DATE: _____

CUSTOMER:	INSTALLATION INSTRUCTIONS	ENGINEER:	SJT
PROJECT:	SLIMLINE STYLE TRANSIT SHELTER	DATE:	11-10-11
MODEL:	SLIMLINE SERIES	CHECKER:	BDH
JOB #		DATE:	11-18-11
		SHEET #:	2

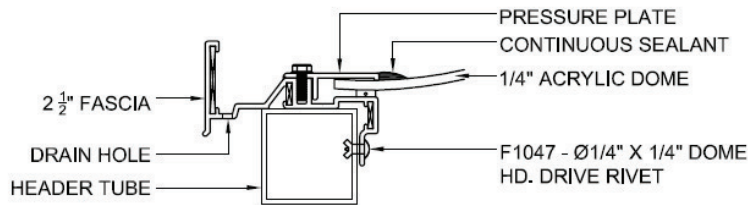


FIGURE 4

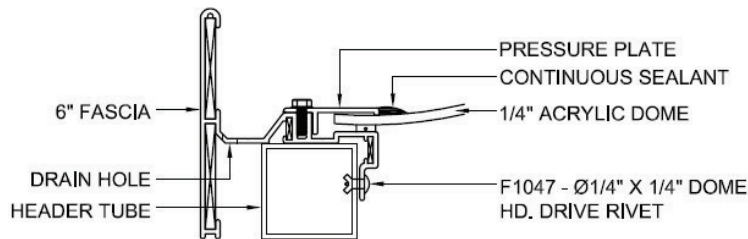


FIGURE 5

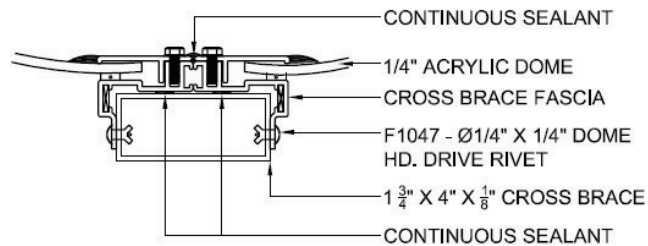


FIGURE 6

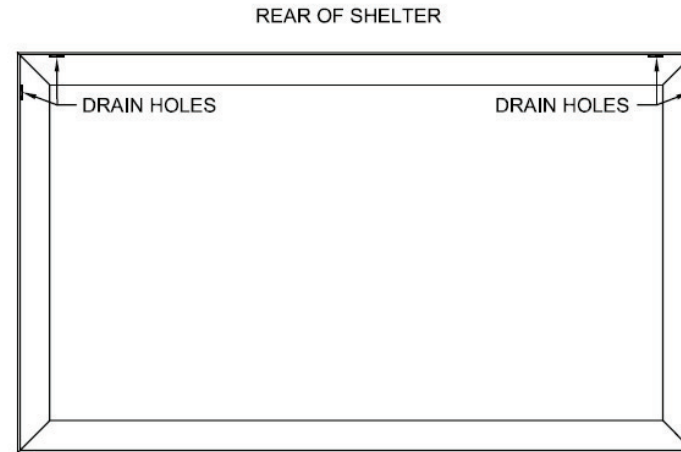


FIGURE 7

6) MAKE SURE TOP OF HEADER BEAMS ARE CLEAN AND CLEAR OF DEBRIS. WITH DRAIN HOLES TO REAR OF SHELTER SET THE ROOF MODULE ONTO SHELTER WALL SECTIONS (FIGURE 7).

6A) FIGURE 6 SHOWS ATTACHMENT FOR MULTIPLE DOME ROOFS. ON MULTI-DOME ROOFS RUN TWO CONTINUOUS $\frac{1}{4}$ " BEADS OF SILICONE ALONG CROSS BRACE AS SHOWN. AFTER ROOFS ARE INSTALLED RUN A CONTINUOUS BEAD OF SILICONE ALONG ABUTMENT OF DOME ROOF MODULES.

7) TRANSFER MOUNTING HOLES IN FASCIA ALIGNMENT LIP TO HEADERS WITH $\frac{1}{4}$ " DRILL BIT.

8) ATTACH ROOF MODULE AROUND ENTIRE PERIMETER WITH F1047 - $\frac{1}{4}$ " X $\frac{1}{4}$ " DOME HD. DRIVE RIVETS.



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		DATE:	11-18-11
MODEL:	SLIMLINE SERIES	JOB #	
		SHEET #:	3

TRT Bus Shelter Construction 2021: Location Pictures

1, Meadowbrook, ID 295, Pinehurst @ E Raleigh



1, Meadowbrook, ID 297, E Thomas @ Lexington



1, Meadowbrook, ID 477, E Raleigh Blvd @ Sycamore



2, Oakwood, ID 35, Old Wilson @ Rex (NB)



2, Oakwood, ID 81, Branch @ Short



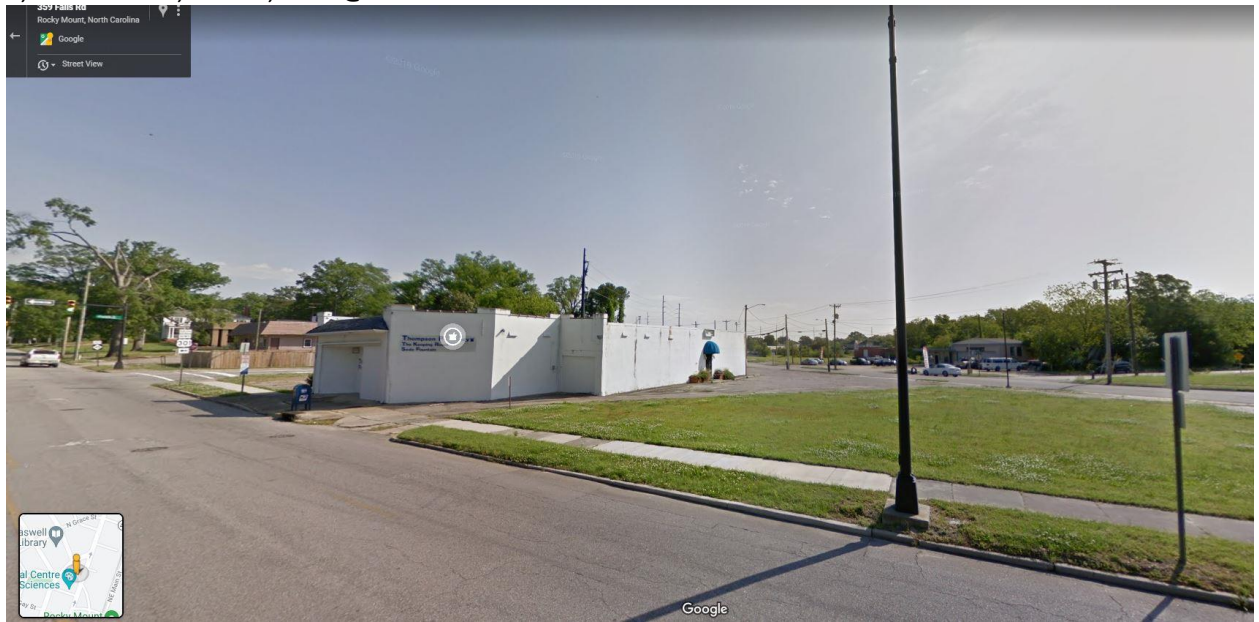
4, Hillsdale, ID 203, Park @ E Virginia



4, Hillsdale, ID 499, E Raleigh @ Fairview/Grande (EB)



5, Golden East, ID 121, Falls @ Franklin-Northbound



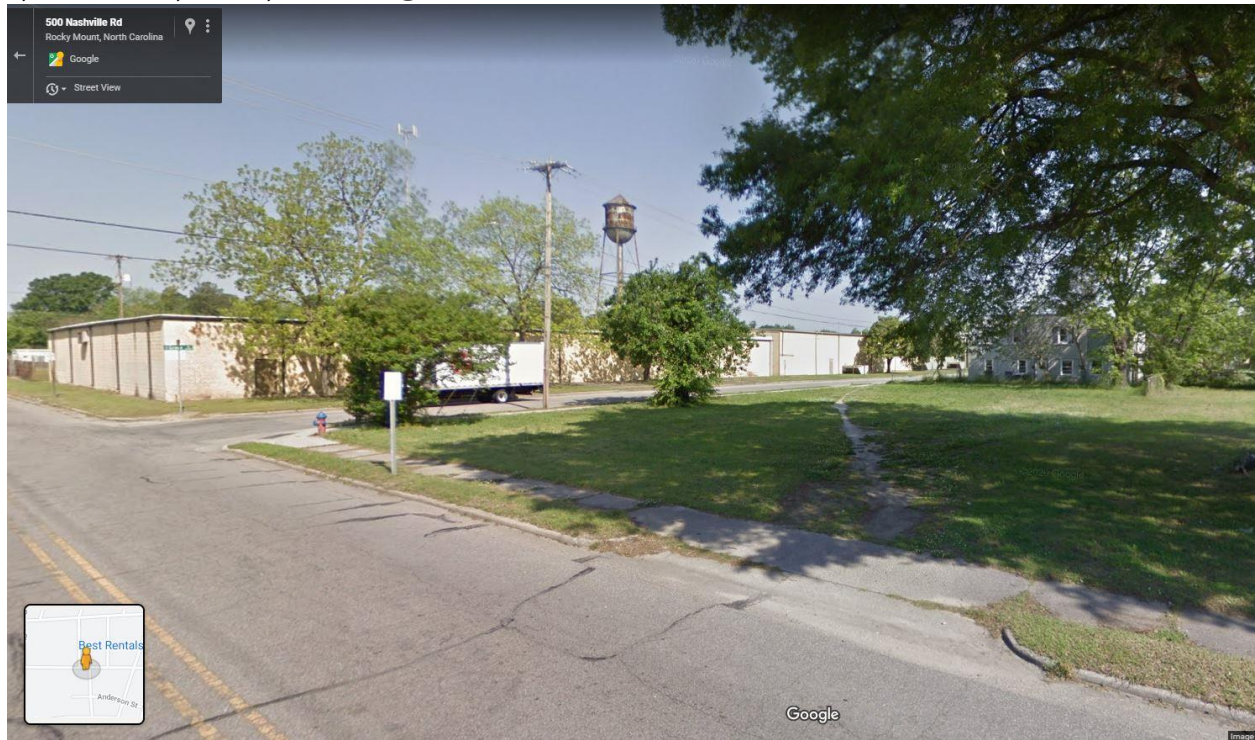
5, Golden East, ID 340, Sutters Creek @ Jeffereys



6, Ravenwood, ID 144, S Grace @ Paul



6, Ravenwood, ID 195, Nashville @ S Grace



6, Ravenwood, ID 239, Ravenwood @ Recreation-Eastbound



7, Sunset, ID 44, W Thomas @ Bryant



7, Sunset, ID 133, Gay @ Bryant



8, NCC & Little Easonburg, ID 46, Harbour West @ (Shopping Center)



8, NCC & Little Easonburg, ID 181, McIntyre Ln Northbound



8, NCC & Little Easonburg, ID 443, Old Carriage (Nash Community College #1 B&I Center)-Northbound



8, NCC & Little Easonburg, ID 444, Nash Community College #2 Cont. Ed. Bldg)-Southbound



10, Rocky Mount East, ID 409, Cokey @ Parrish-Southbound



10, Rocky Mount East, ID 463, Marigold @ Branch (Post Office)-Southbound

