

**This electronic collection of documents is provided  
for the convenience of the user  
and is Not a Certified Document –**

**The documents contained herein were originally issued  
and sealed by the individuals whose names and license  
numbers appear on each page, on the dates appearing  
with their signature on that page.**

**This file or an individual page  
shall not be considered a certified document.**

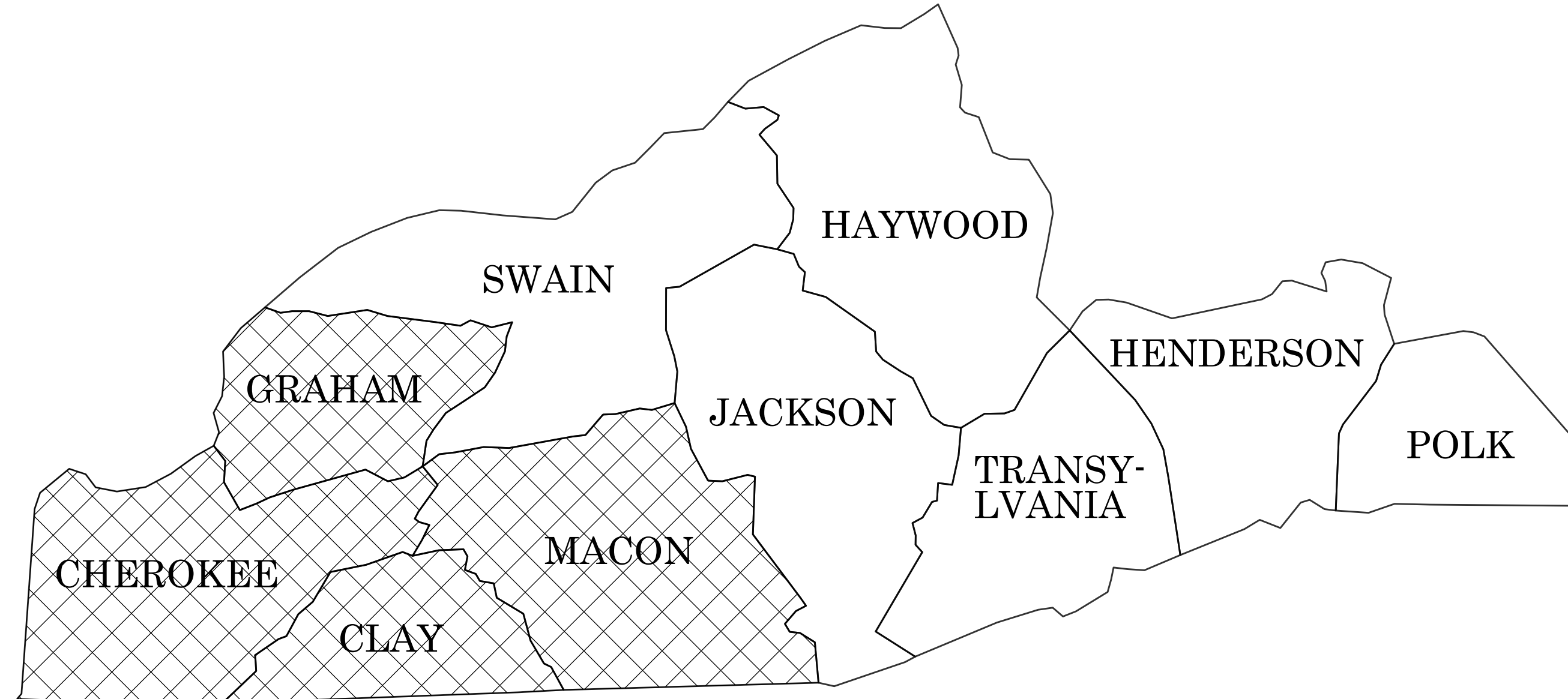
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## DIVISION 14

LOCATION: *VARIOUS LOCATIONS ACROSS  
DISTRICT 3 IN DIVISION 14*

TYPE OF WORK: *IDIQ ON-CALL CONCRETE INSTALLATION,  
REPAIR & MAINTENANCE SERVICES*

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DN12183354	1	16
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
GMR14.CHE.1P			
GMR14.CHE.2P			
GMR14.CLA.1P			
GMR14.CLA.2U			
GMR14.GRA.1P			
GMR14.CLA.2P			
GMR14.MAC.1P			
GMR14.MAC.2P			



CONTRACT: DN12183354

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
253 WEBSTER RD., SYLVA NC, 28779

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
N/A

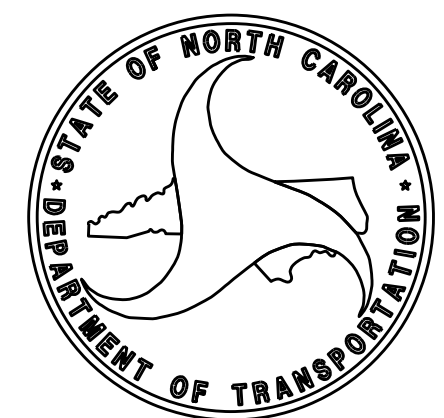
LETTING DATE:  
AUGUST 12, 2025

**JESSE A. RUSSELL, P.E.**  
PROJECT ENGINEER

**JAMES HOLLINGSWORTH**  
PROJECT DESIGN ENGINEER

ROADWAY DESIGN ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS AND STANDARD DRAWINGS
2B-1	CONCRETE WASHOUT STRUCTURE
2D-1 thru 2D-13	TRANSITION DETAILS

GENERAL NOTES: 2024 SPECIFICATIONS

DISPOSAL OF ALL CONCRETE MATERIALS NOT COVERED BY THE 2024 STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, IS CONSIDERED INCIDENTAL TO ALL OTHER PAY ITEMS IN THE CONTRACT

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO. TITLE

DIVISION 3 - PIPE CULVERTS

- 300.01 Method of Pipe Installation
- 310.10 Driveway Pipe Construction

DIVISION 8 - INCIDENTALS

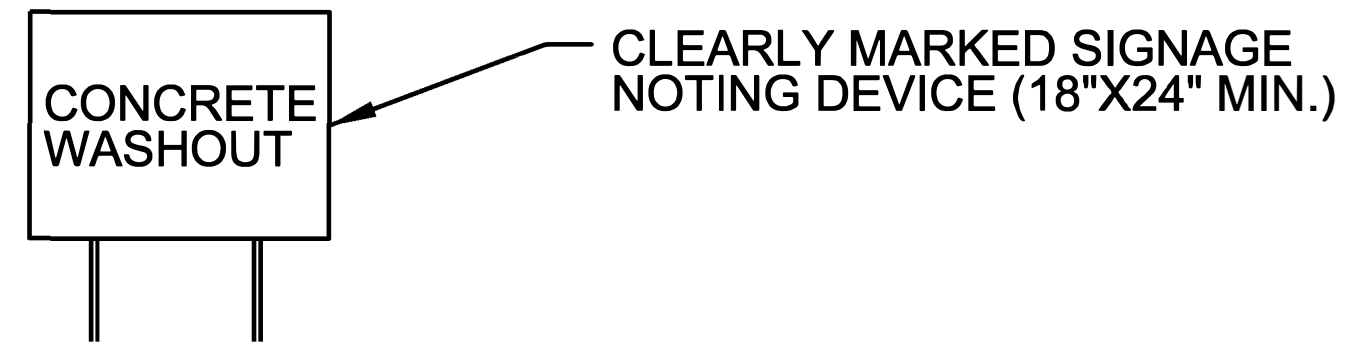
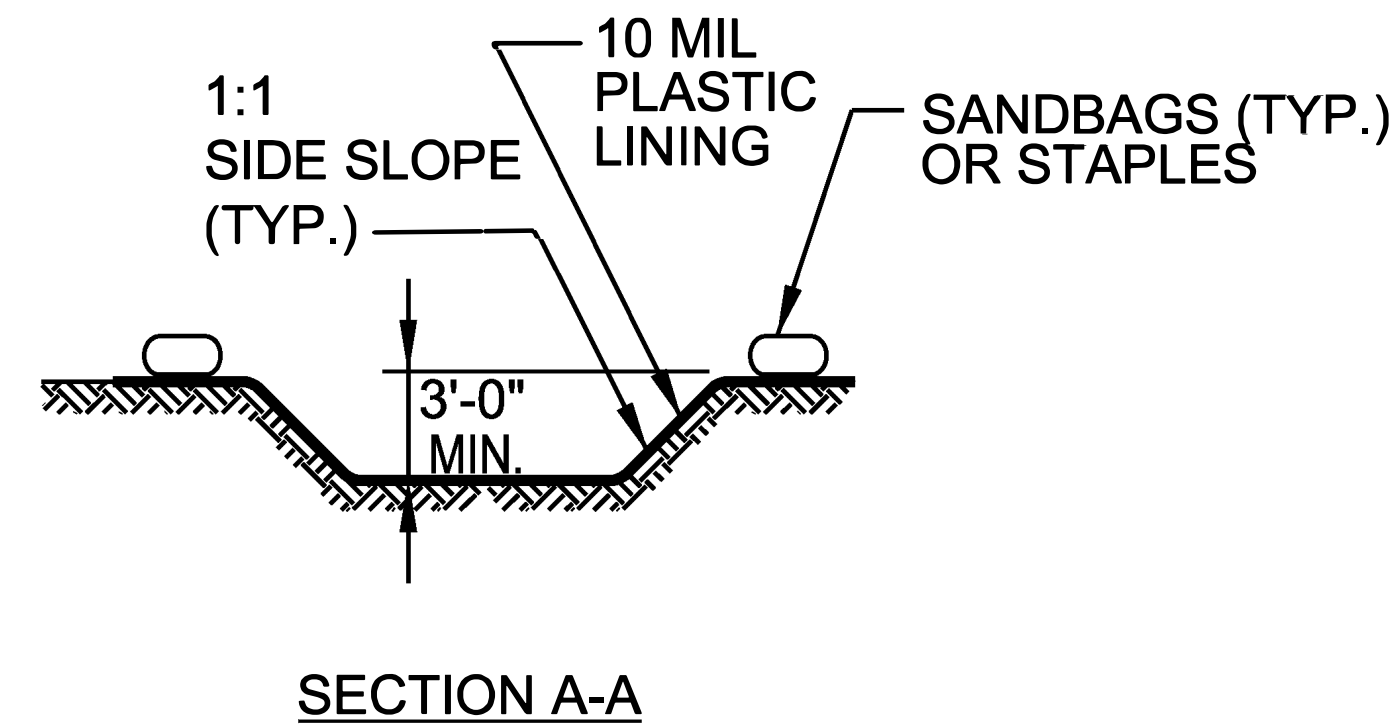
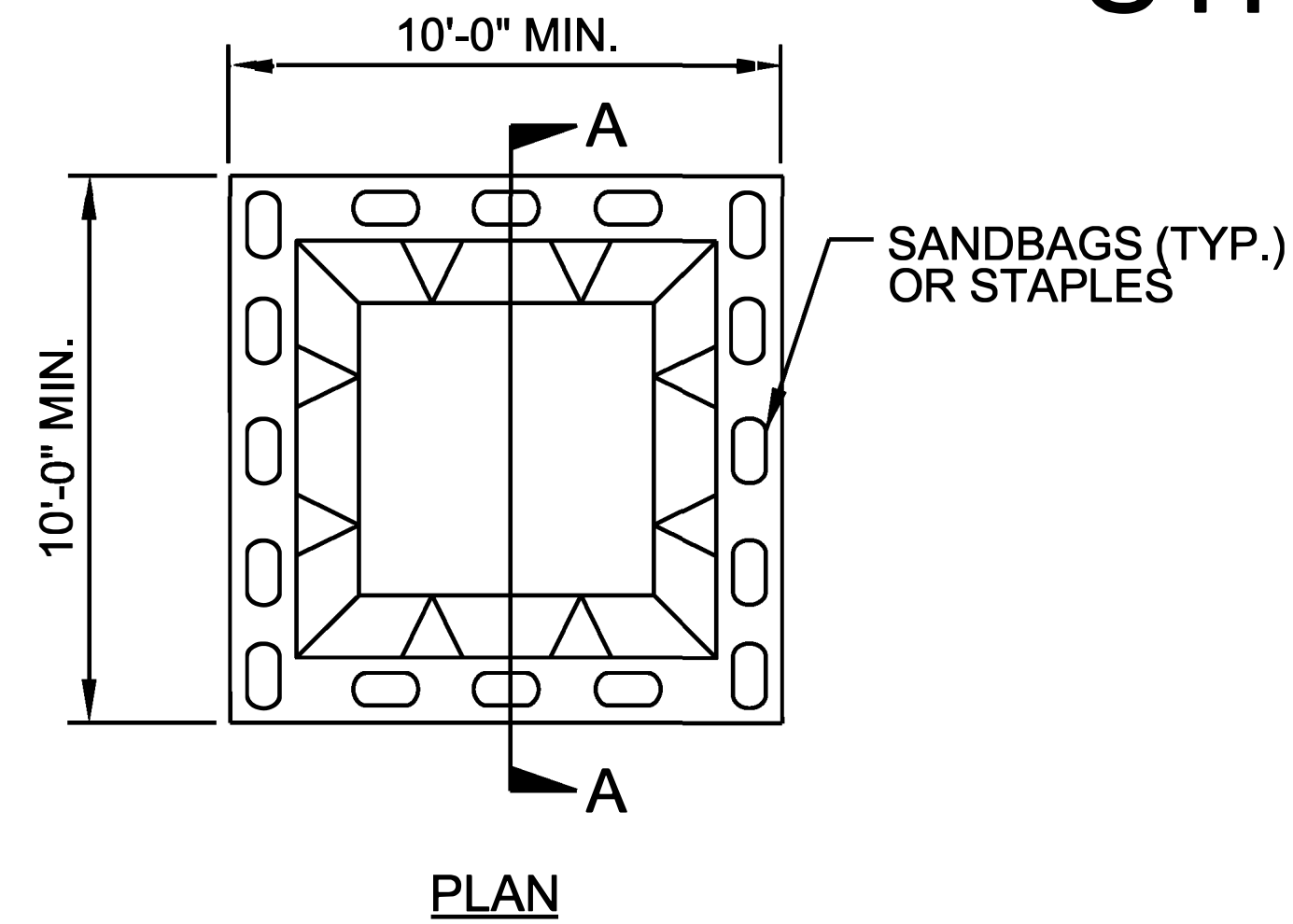
- 846.01 Concrete Curb, Gutter and Curb & Gutter
- 848.01 Concrete Sidewalk
- 848.02 Driveway Turnout - Radius Type
- 848.03 Driveway Turnout - Drop Curb Type
- 848.04 Street Turnout
- 848.06 Curb Ramp - Existing Curb & Gutter
- 850.01 Concrete Paved Ditches
- 852.01 Concrete Islands
- 852.02 Concrete Mountable Median - for Use with Rigid or Flexible Pavement
- 852.10 Median Construction - with Curb and Gutter

DIVISION 11 - WORK ZONE TRAFFIC CONTROL

- 1101.01 WORK ZONE WARNING SIGNS
- 1101.02 TEMPORARY LANE CLOSURES
- 1101.03 TEMPORARY ROAD CLOSURES
- 1101.04 TEMPORARY SHOULDER CLOSURES
- 1101.05 WORK ZONE VEHICLE ACCESSES
- 1101.06 WARNING SIGNS FOR BLASTING ZONES
- 1101.11 TRAFFIC CONTROL DESIGN TABLES
- 1110.01 STATIONARY WORK ZONE SIGNS
- 1110.02 PORTABLE WORK ZONE SIGNS
- 1115.01 FLASHING ARROW BOARDS
- 1130.01 DRUMS
- 1135.01 CONES
- 1145.01 BARRICADES
- 1150.01 FLAGGING DEVICES
- 1160.01 TEMPORARY CRASH CUSHION
- 1165.01 TRUCK MOUNTED ATTENUATOR
- 1170.01 PORTABLE CONCRETE BARRIER
- 1180.01 SKINNY - DRUMS

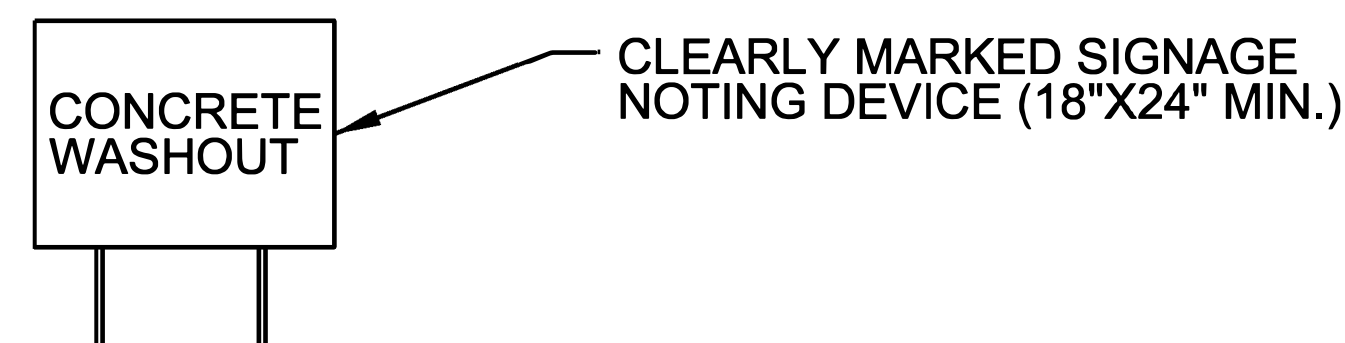
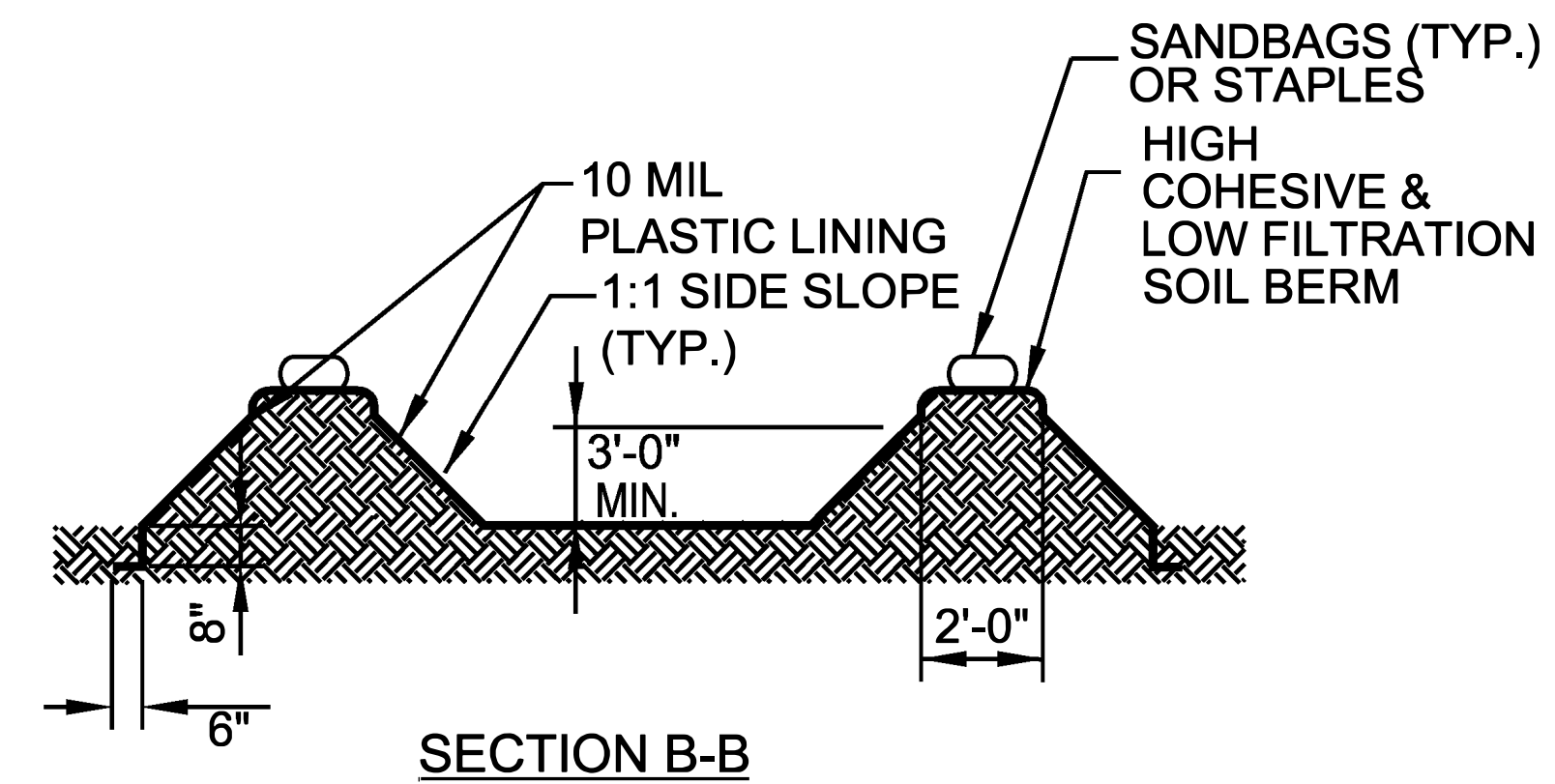
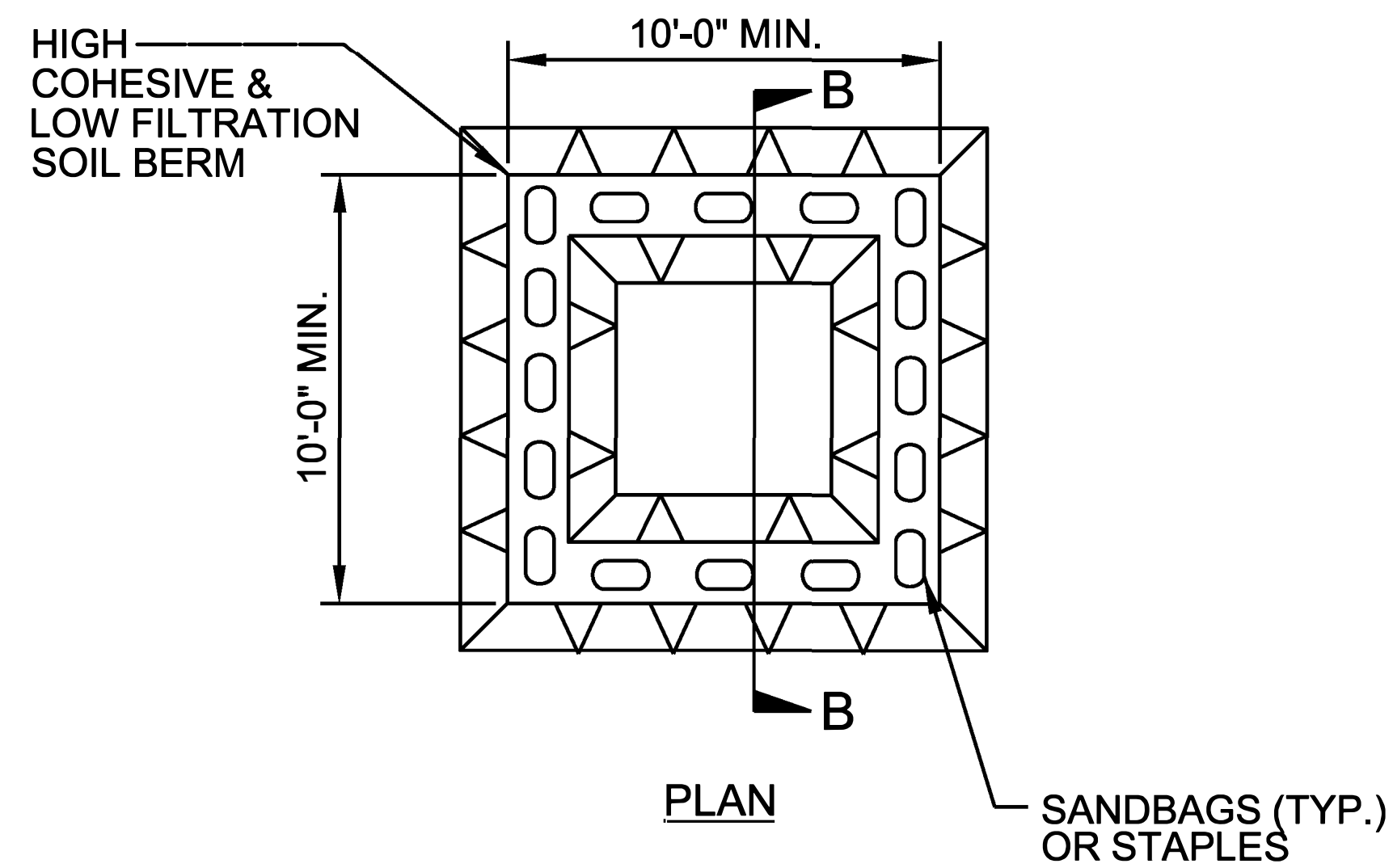
PROJECT REFERENCE NO. <i>DN12183354</i>	SHEET NO. 2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



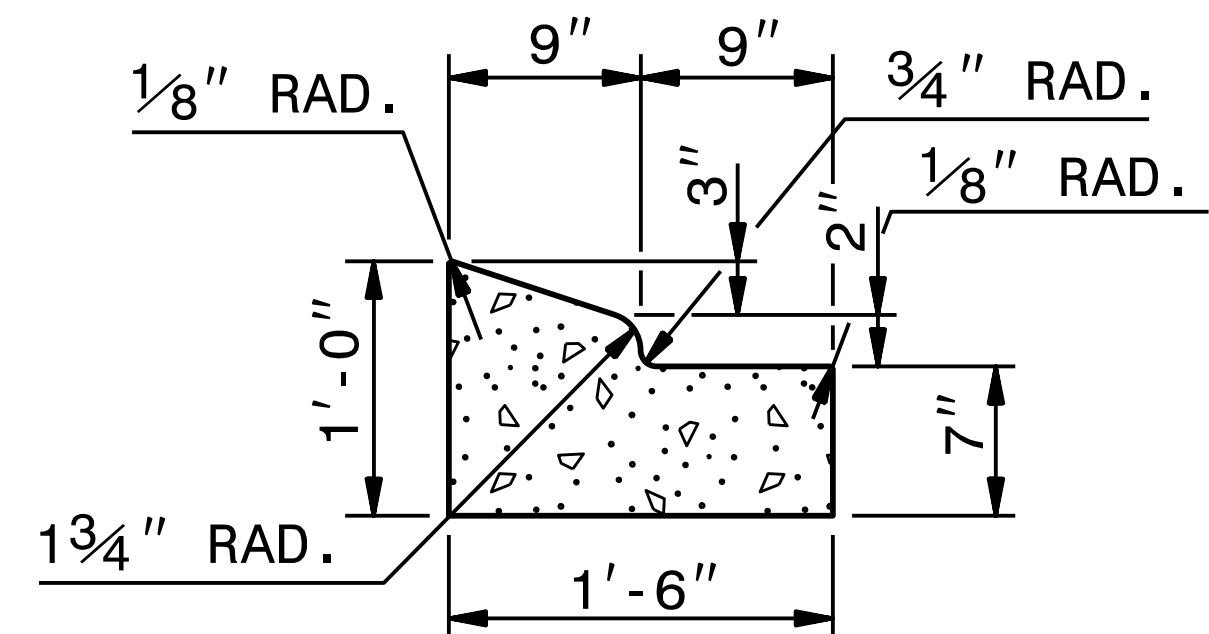
**BELOW GRADE WASHOUT STRUCTURE**  
NOT TO SCALE

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

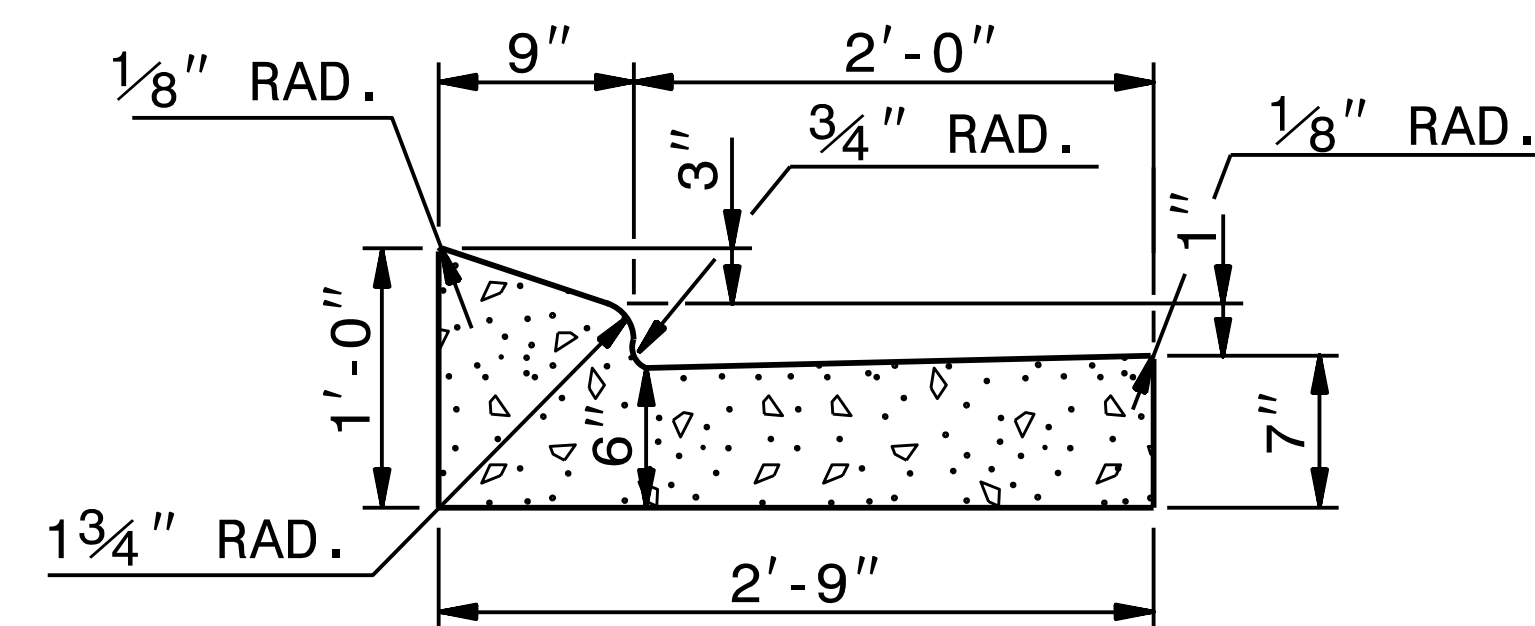


**ABOVE GRADE WASHOUT STRUCTURE**  
NOT TO SCALE

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

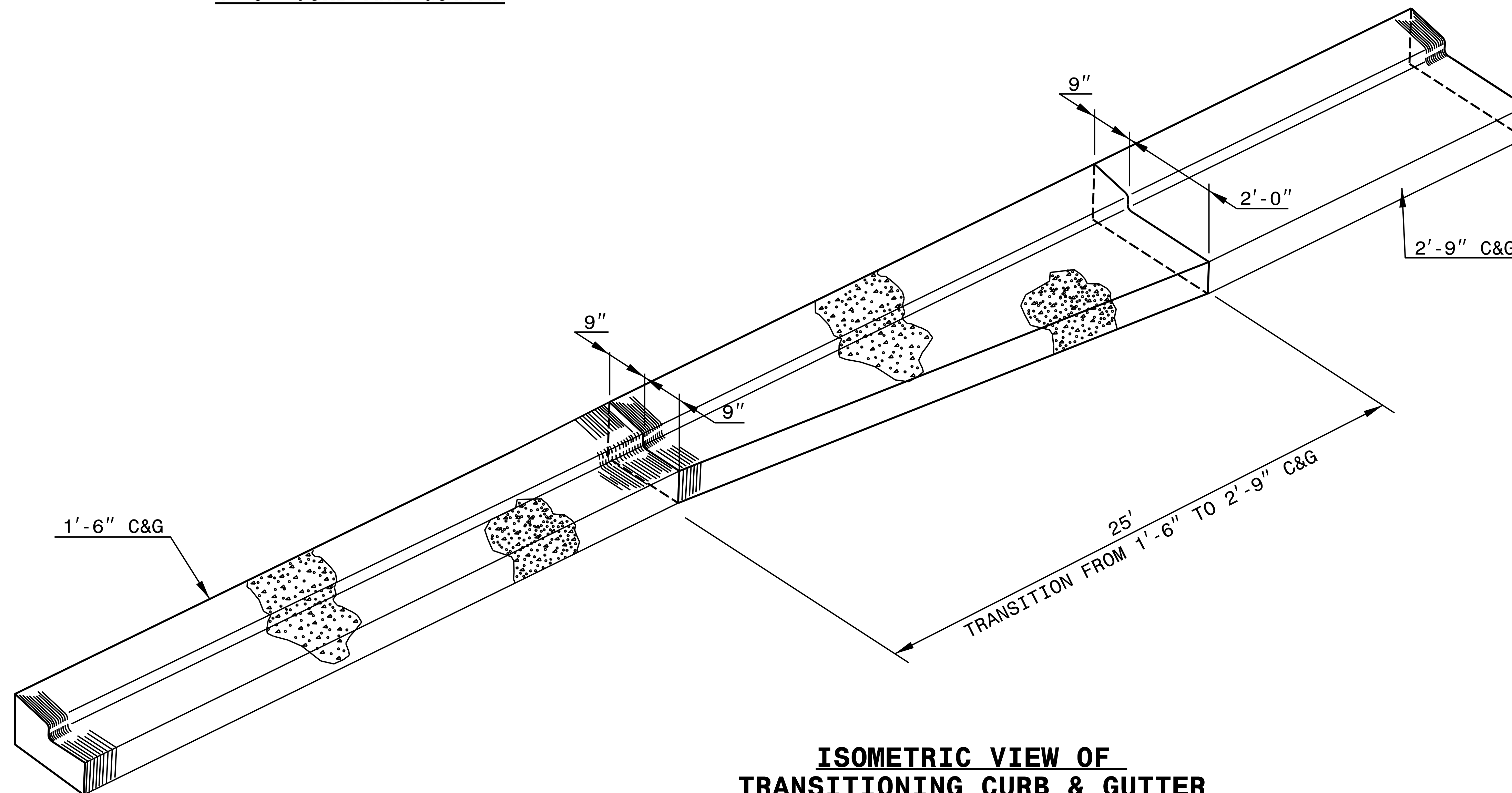


**1'-6" CURB AND GUTTER**

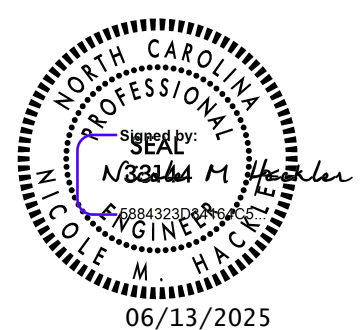


**2'-9" CURB AND GUTTER**

NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.  
SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.



**ISOMETRIC VIEW OF  
TRANSITIONING CURB & GUTTER**

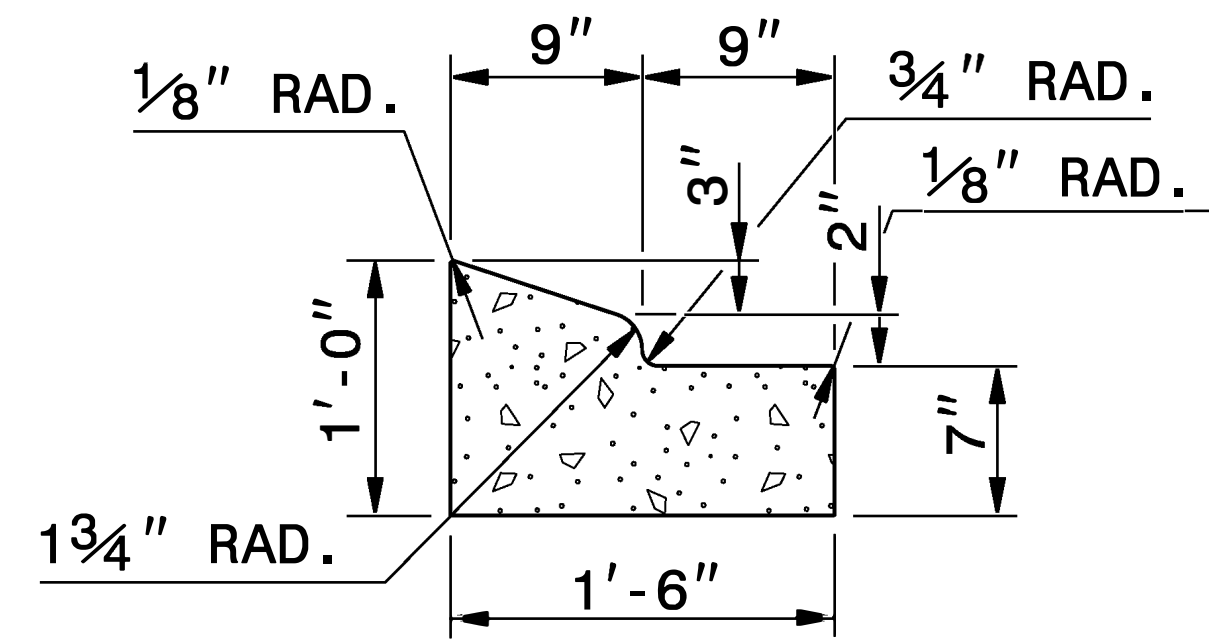


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

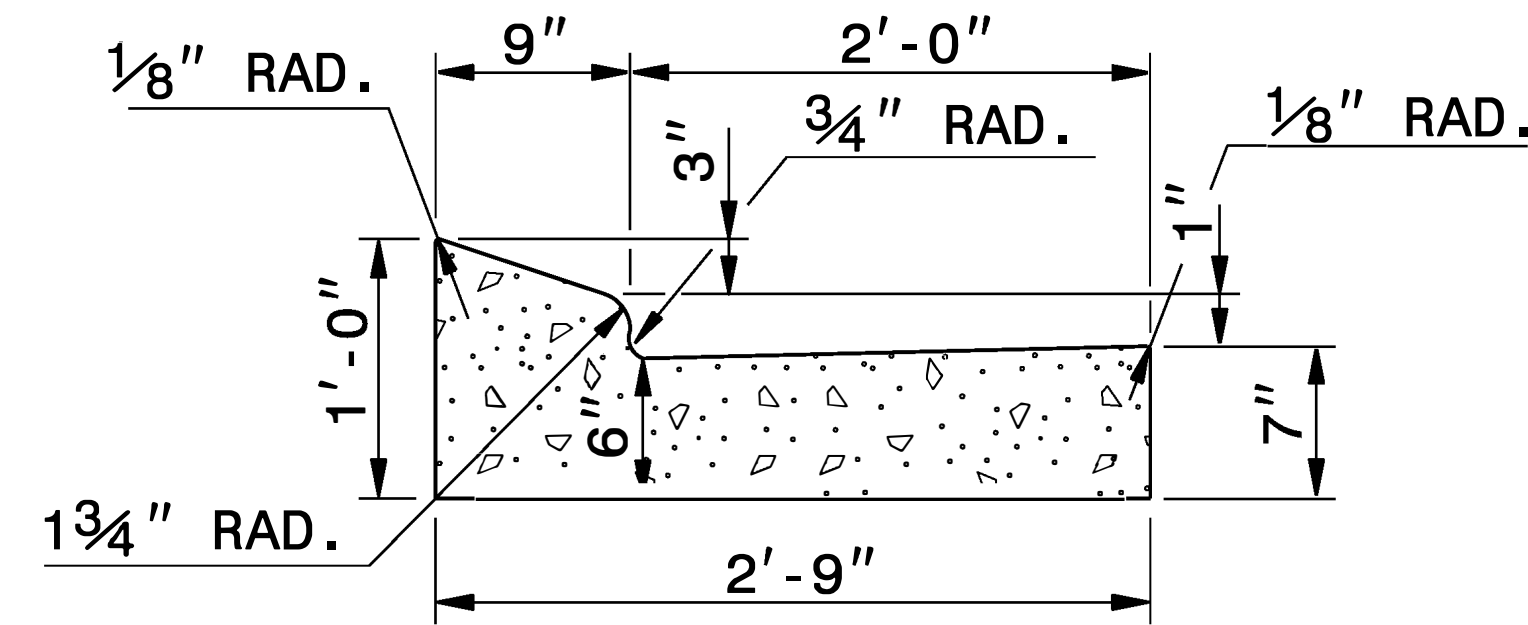
CONTRACT STANDARDS  
AND DEVELOPMENT UNIT  
Office 919-707-6950 FAX 919-250-4119

**DETAIL OF 1'-6"  
TO 2'-9" CURB & GUTTER  
TRANSITION SECTION**

ORIGINAL BY: T.S. SPELL DATE: NOV. 26, 2001  
MODIFIED BY: T.S. SPELL DATE: JAN. 23, 2007  
CHECKED BY: DATE:  
FILE SPEC.: DS174:/usr/details/stand/cattransit.dgn



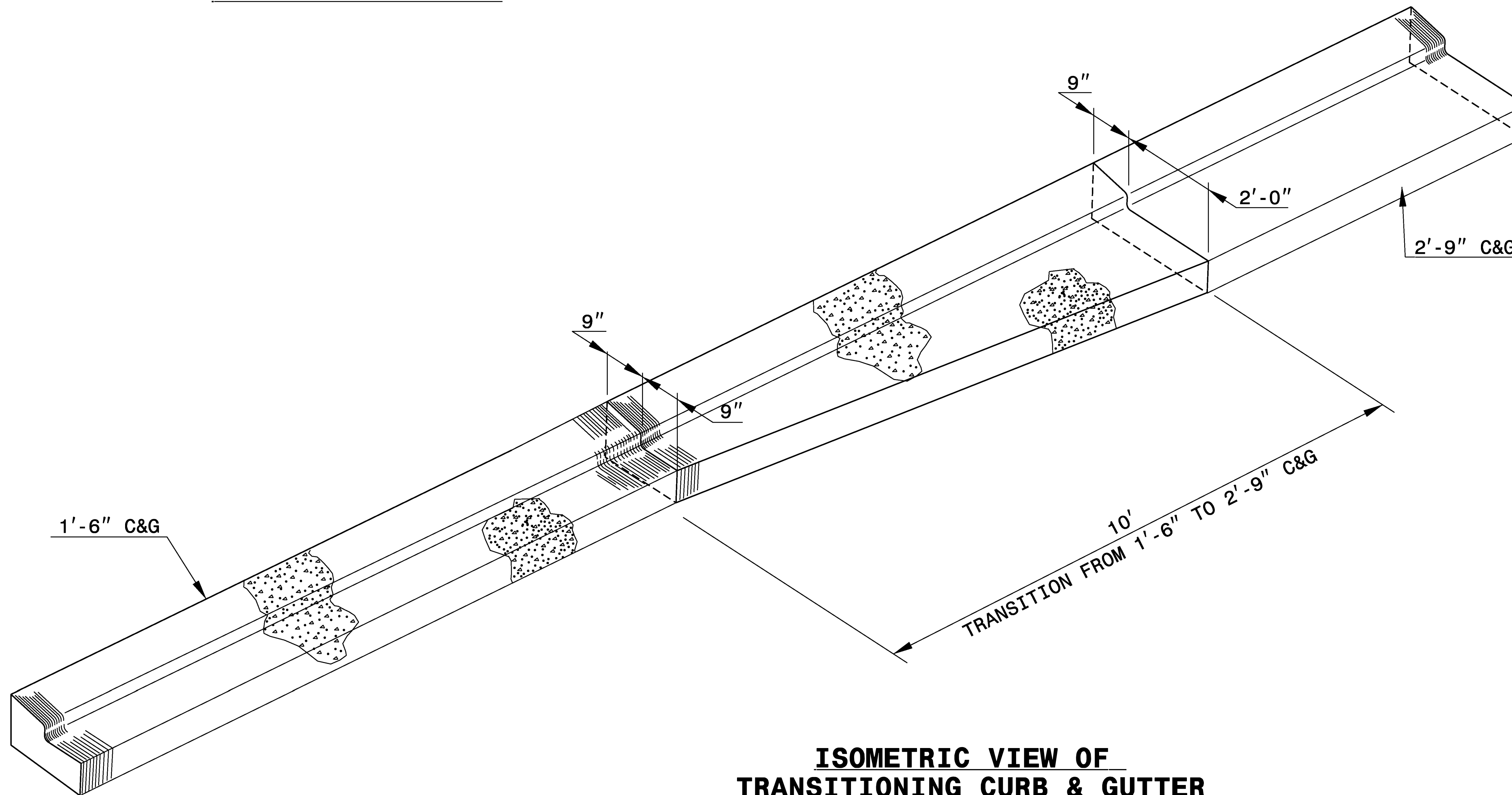
**1'-6" CURB AND GUTTER**



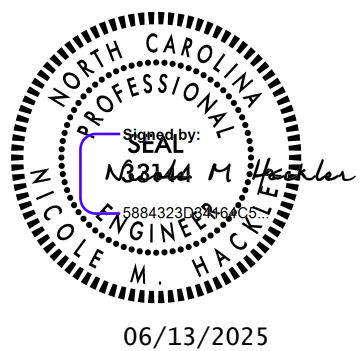
**2'-9" CURB AND GUTTER**

NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.

SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.



**ISOMETRIC VIEW OF  
TRANSITIONING CURB & GUTTER**



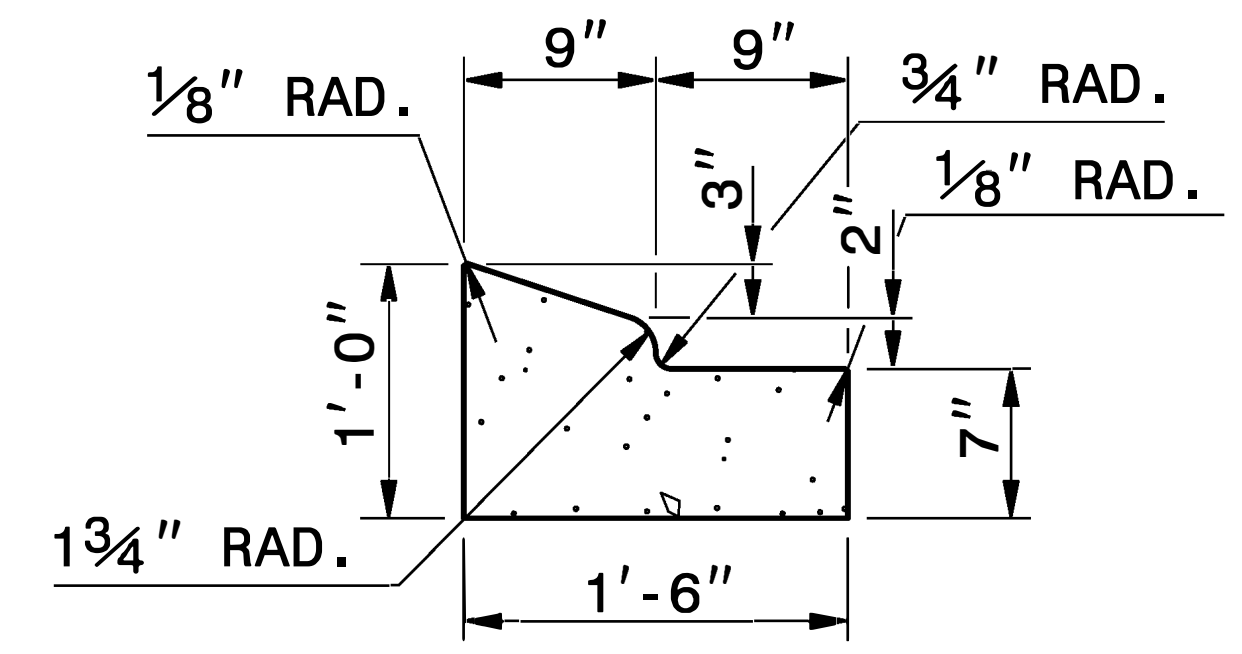
06/13/2025

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

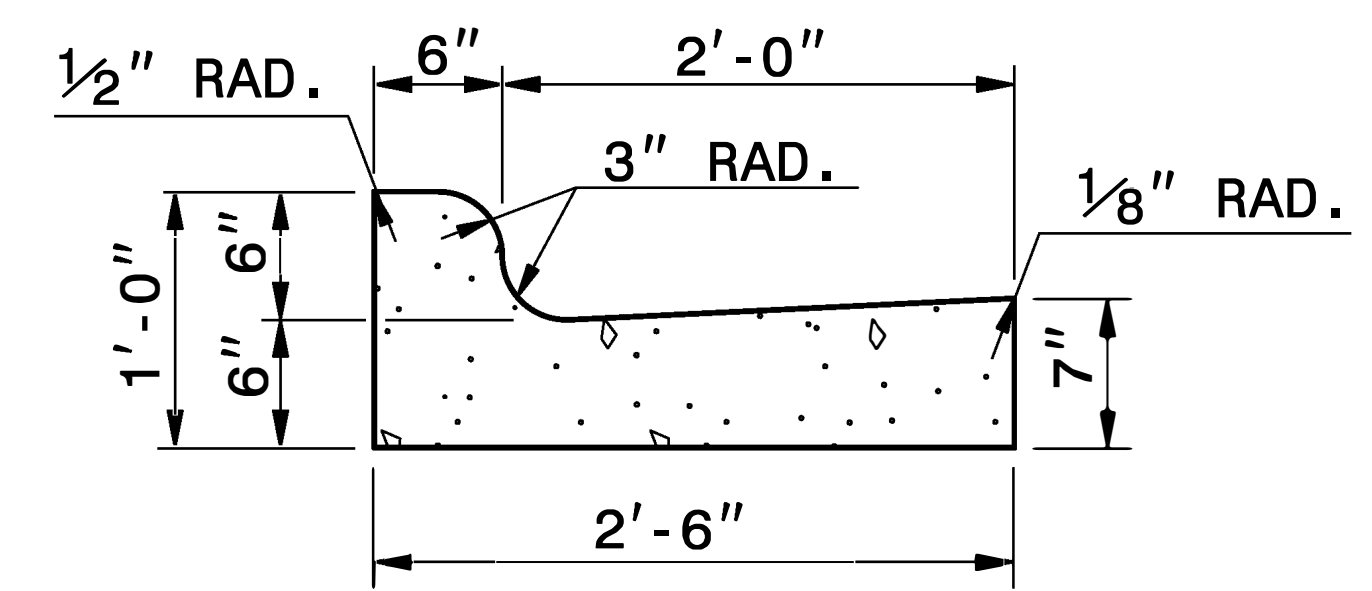
**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**DETAIL OF 1'-6"  
TO 2'-9" CURB & GUTTER  
TRANSITION SECTION**

ORIGINAL BY: T.S. SPELL DATE: NOV. 26, 2001  
 MODIFIED BY: T.S. SPELL DATE: JAN. 23, 2007  
 CHECKED BY: DATE:  
 FILE SPEC.: DS174:\usr\details\stand\catransit.dgn

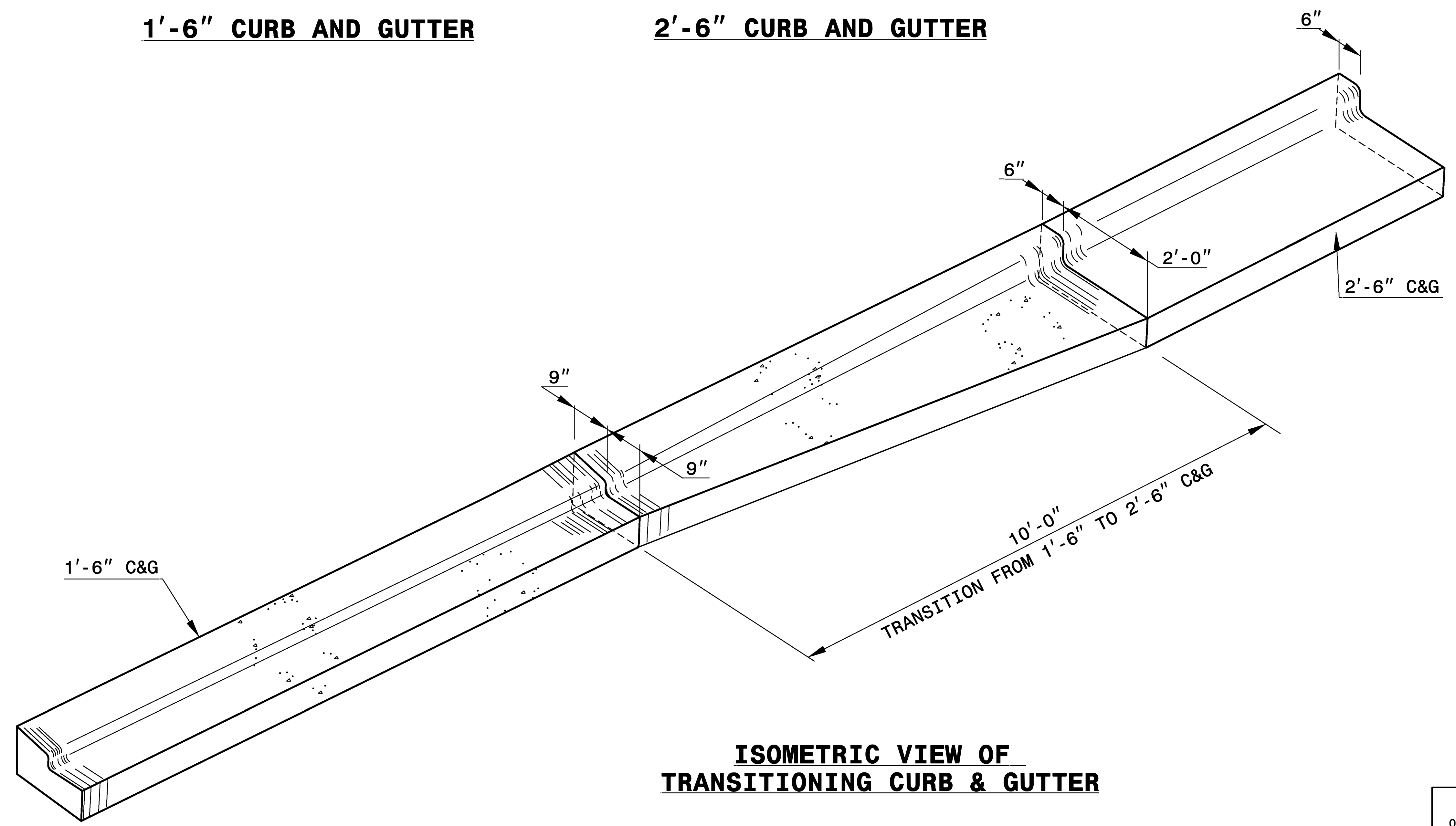


**1'-6" CURB AND GUTTER**

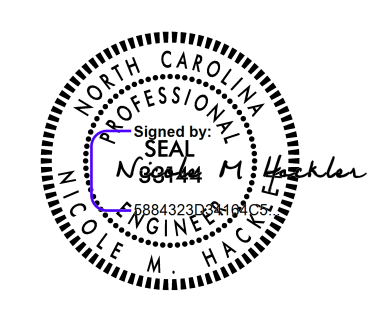


**2'-6" CURB AND GUTTER**

NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.  
SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.



**ISOMETRIC VIEW OF  
TRANSITIONING CURB & GUTTER**



06/13/2025

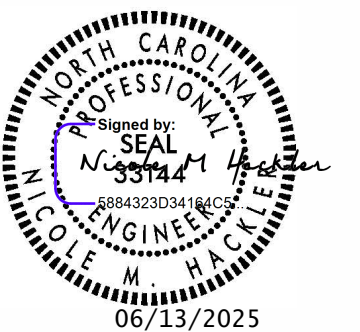
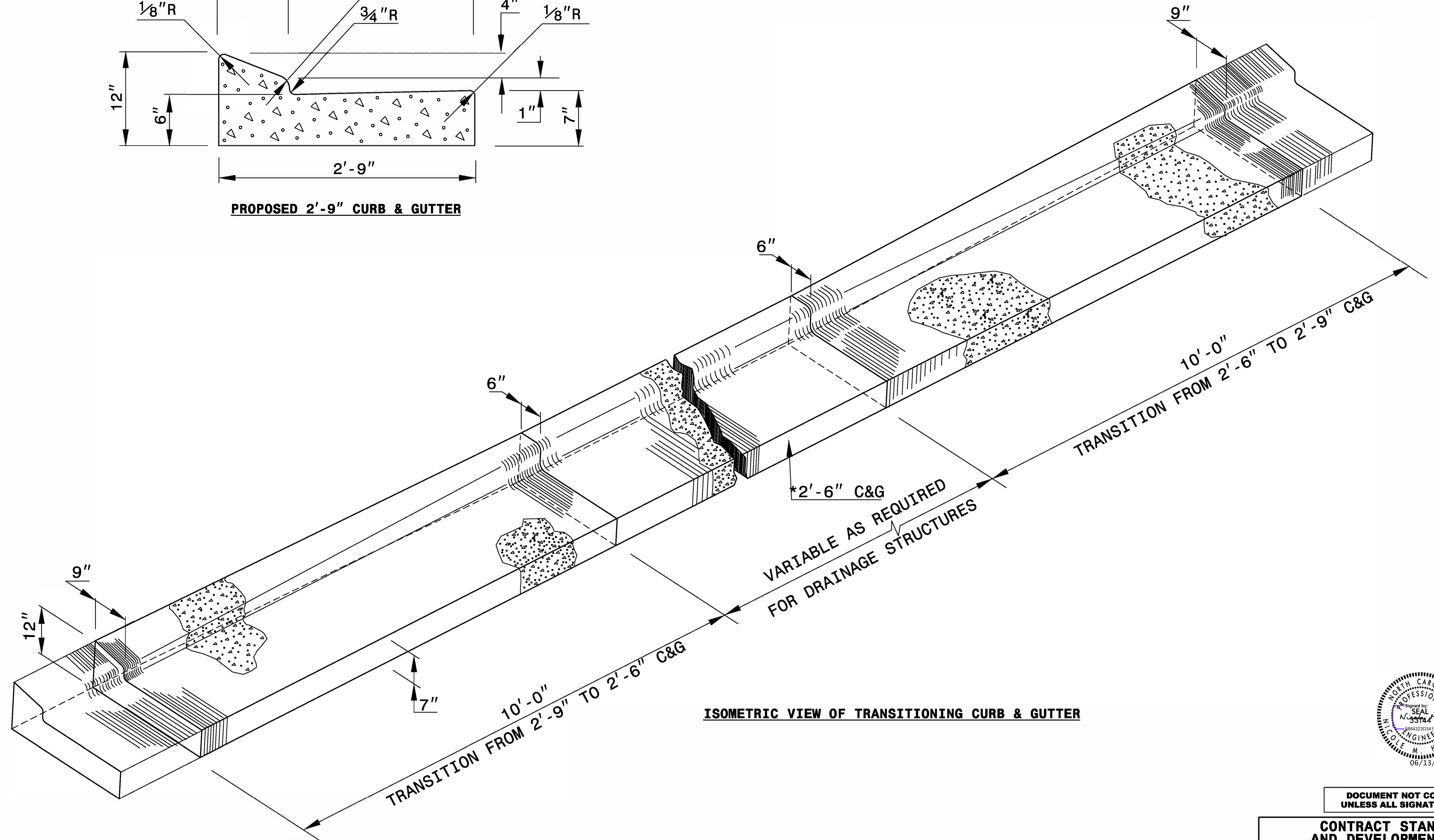
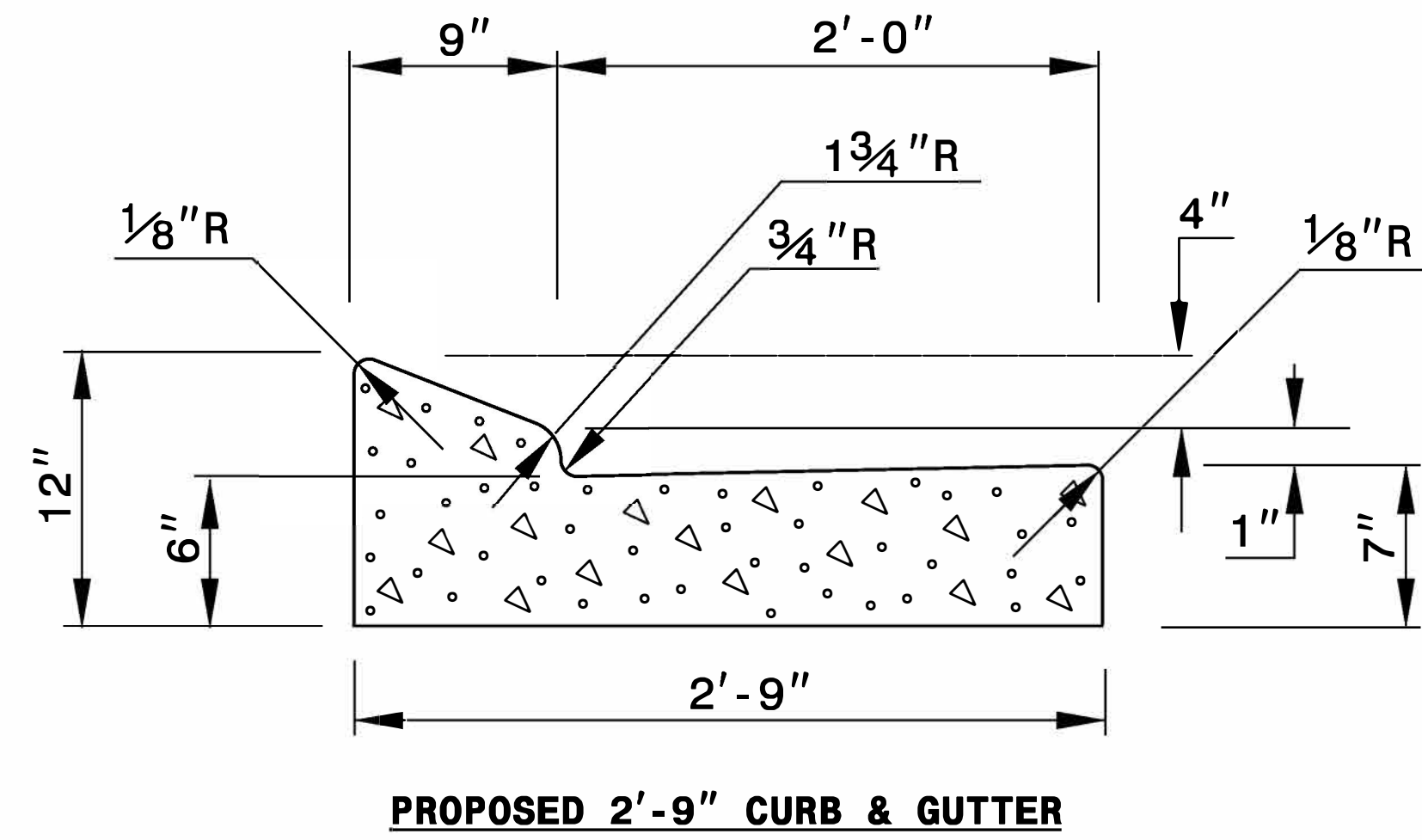
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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

**DETAIL OF 1'-6\"/>**

ORIGINAL BY: T.S. SPELL DATE: MARCH 3, 2000  
 MODIFIED BY: DATE:  
 CHECKED BY: DATE:  
 FILE SPEC.: DS174:/usr/details/stand/cgtransit.dgn

\*NOTE: SEE STD. DWG. 846.01  
FOR 2'-6" CURB AND GUTTER  
INFORMATION.

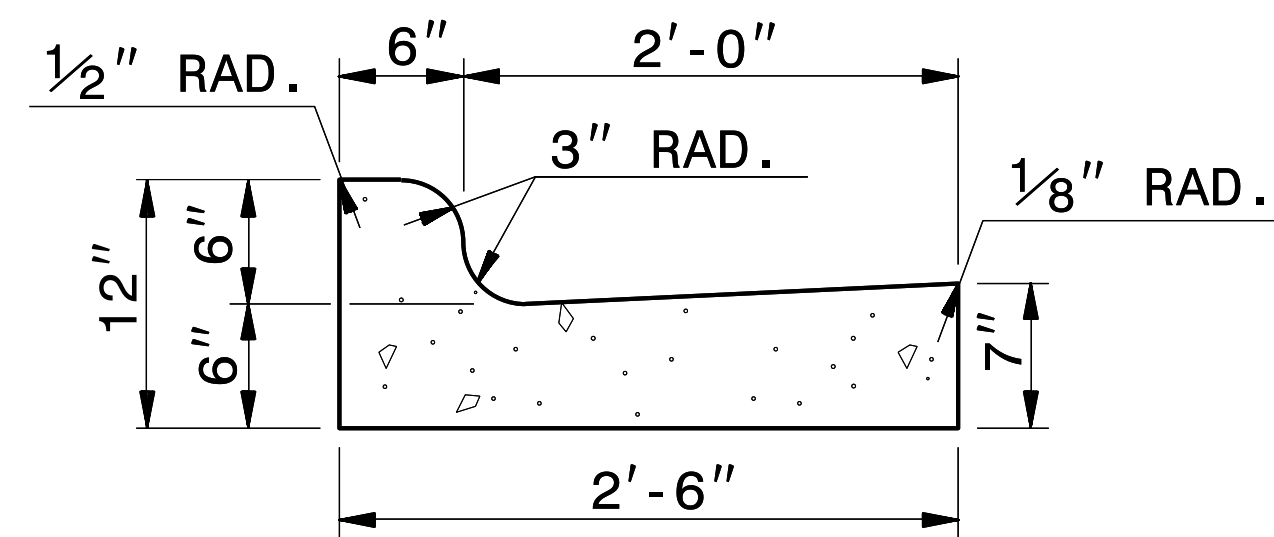


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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

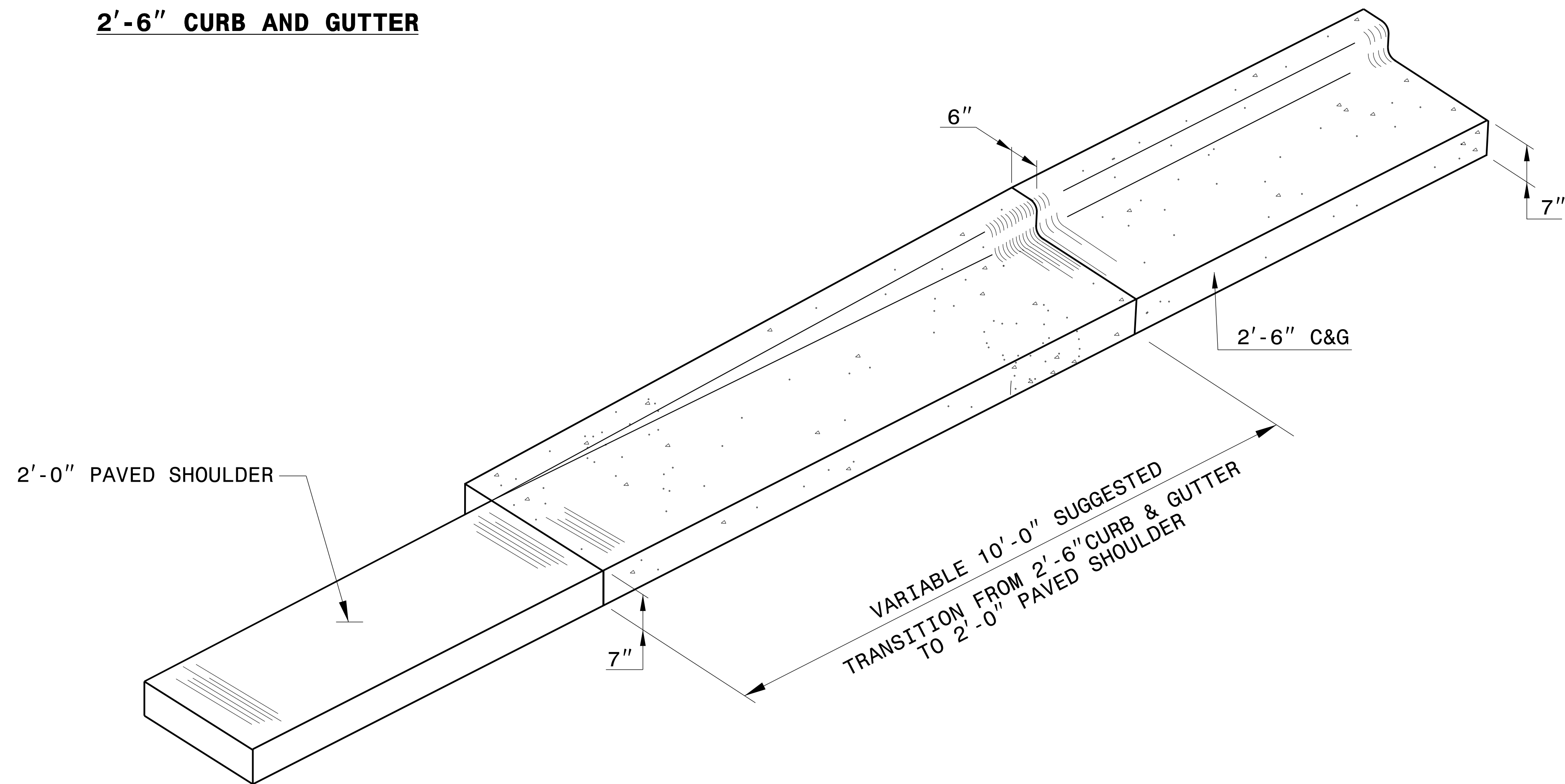
**DETAIL OF 2'-9"  
TO 2'-6" CURB & GUTTER  
TRANSITION SECTION**

ORIGINAL BY: _____	DATE: _____
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC.: DS174:/usr/details/stand/cgtransit.dgn	

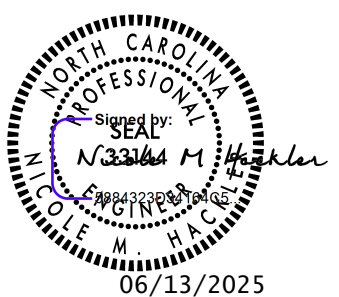


**2'-6" CURB AND GUTTER**

**\*NOTE: SEE STD. DWG. 846.01 FOR GENERAL NOTES**



**ISOMETRIC VIEW OF TRANSITION**

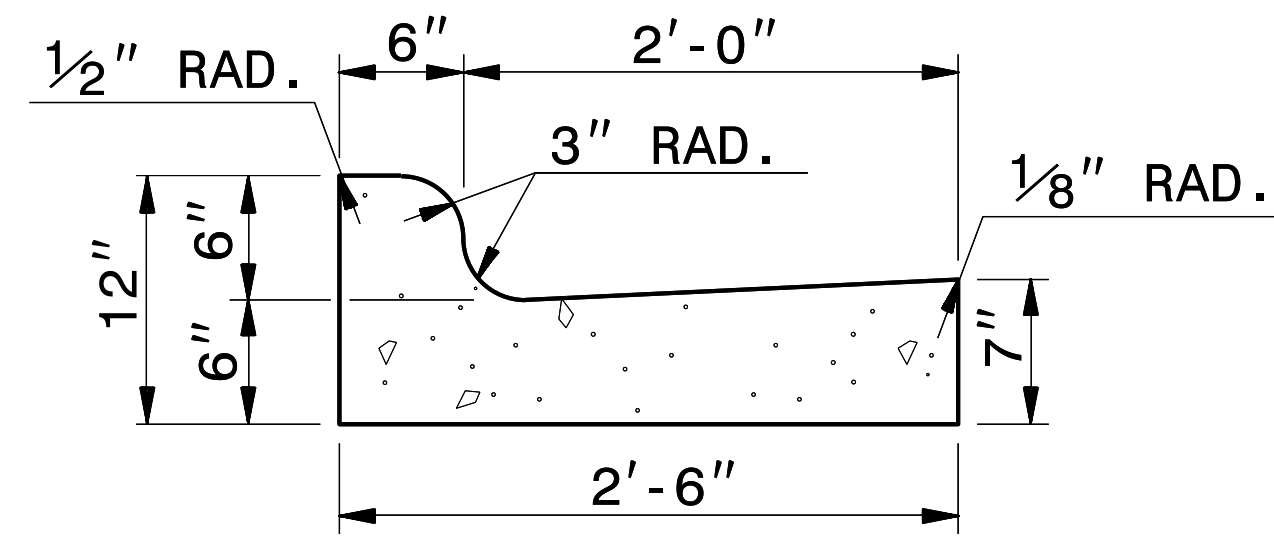


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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

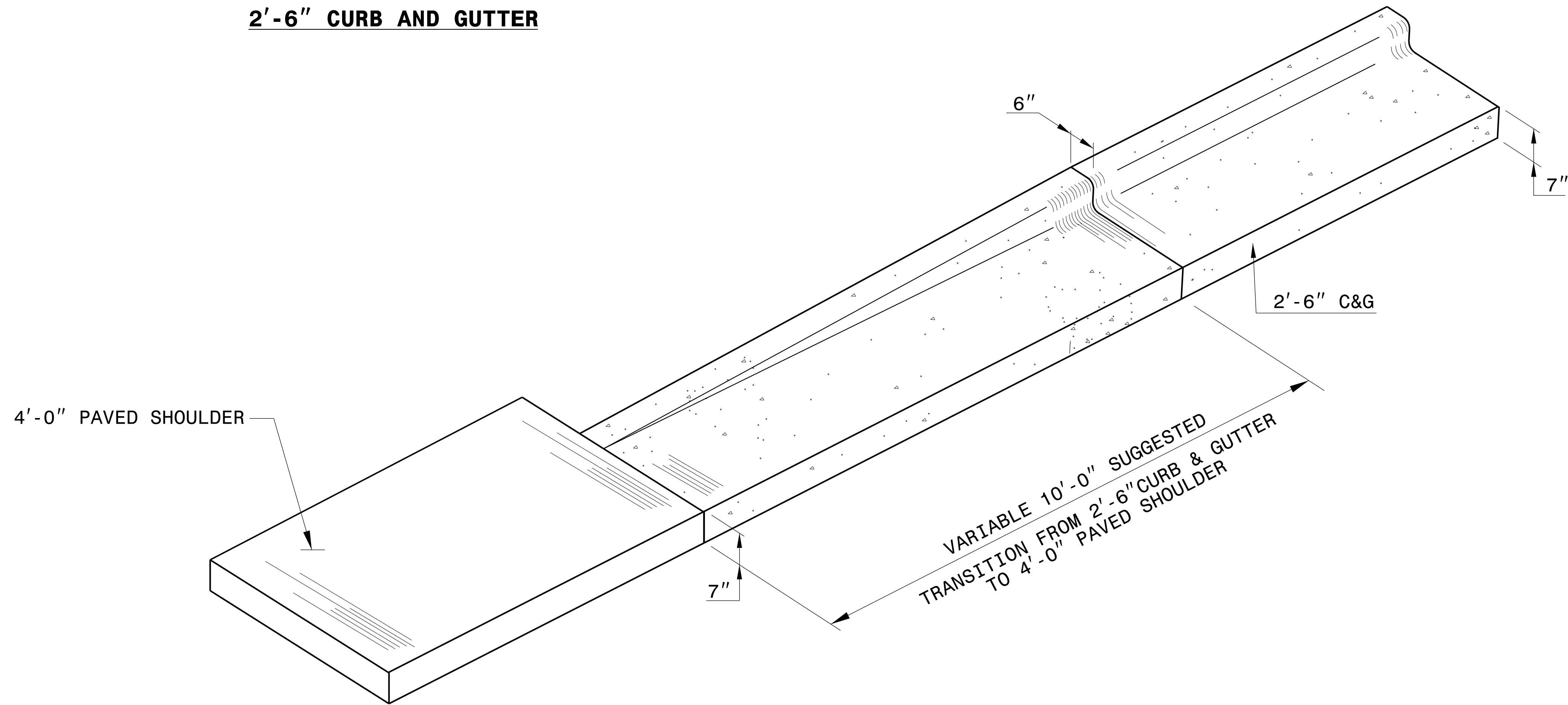
**DETAIL OF 10' TRANSITION  
FROM 2'-6" CURB & GUTTER  
TO 2'-0" PAVED SHOULDER**

ORIGINAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
MODIFIED BY: rnbritt DATE: 04-13-2016  
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
FILE SPEC: details/nbritt/english/misc/c&g\_transition\_sections.dgn

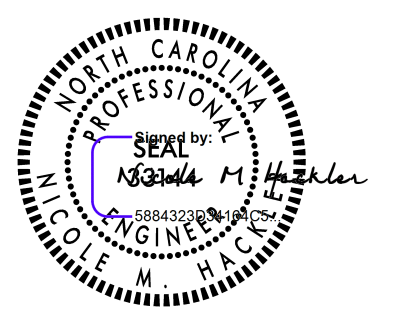


**2'-6" CURB AND GUTTER**

**\*NOTE: SEE STD. DWG. 846.01 FOR GENERAL NOTES**



**ISOMETRIC VIEW OF TRANSITION**



06/13/2025

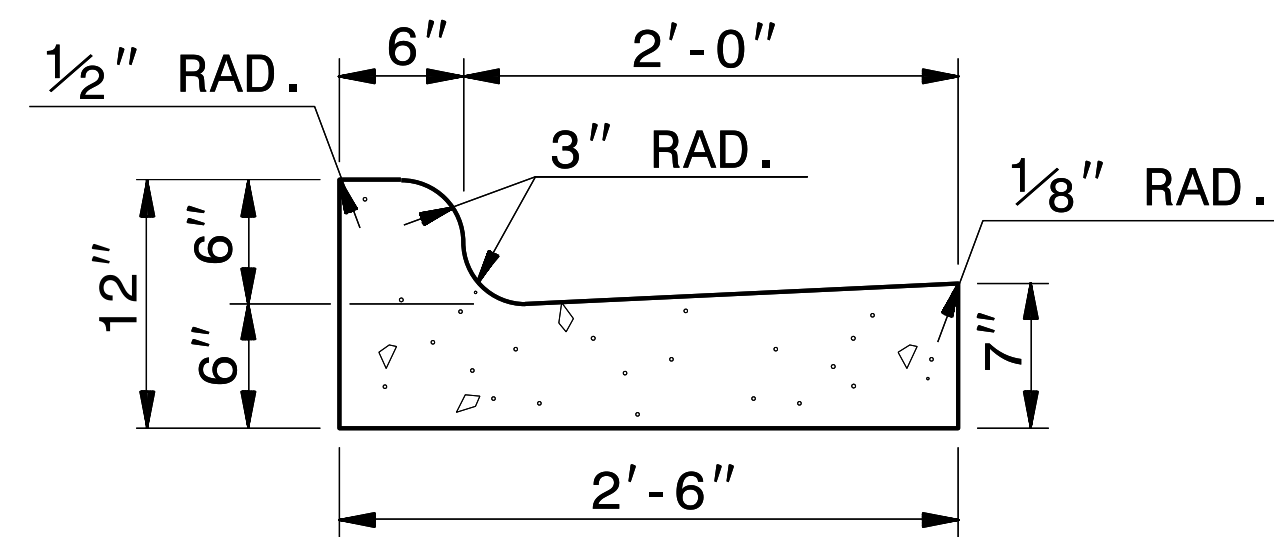
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

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

**DETAIL OF 10' TRANSITION FROM 2'-6" CURB & GUTTER TO 4'-0" PAVED SHOULDER**

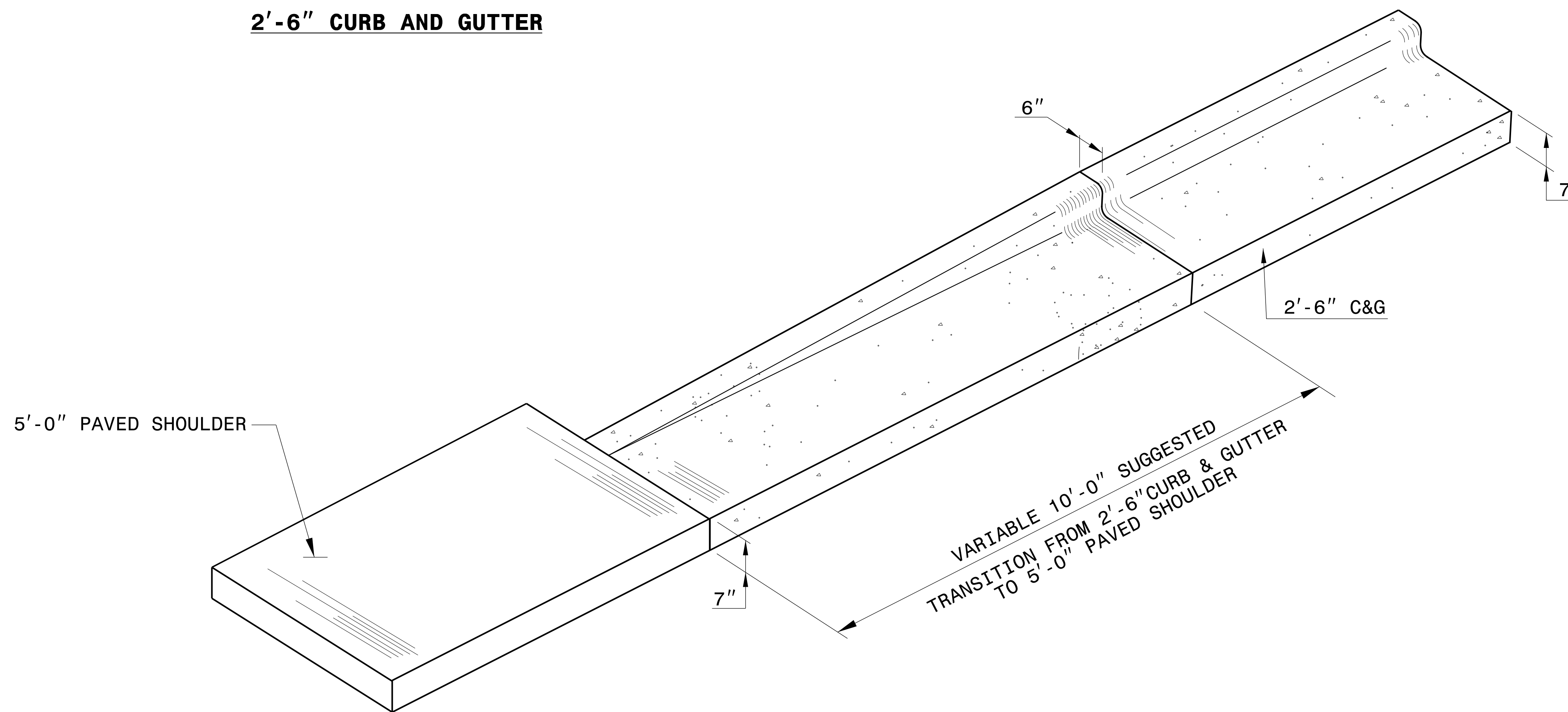
ORIGINAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
MODIFIED BY: rnbritt DATE: 04-13-2016  
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
FILE SPEC: details/nbritt/english/misc/c&g\_transition\_sections.dgn

5/14/99  
 I:\MAR-2020\1425  
 S:\Contracts\Special Details\english\misc\c&g\_transition\_sections.dgn  
 J:\overton AT USD-320965

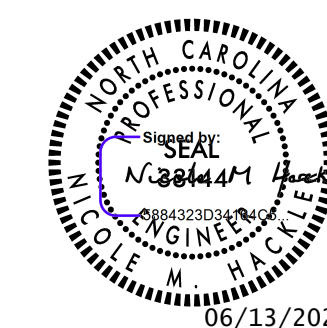


**2'-6" CURB AND GUTTER**

**\*NOTE: SEE STD. DWG. 846.01 FOR GENERAL NOTES**



**ISOMETRIC VIEW OF TRANSITION**



06/13/2025

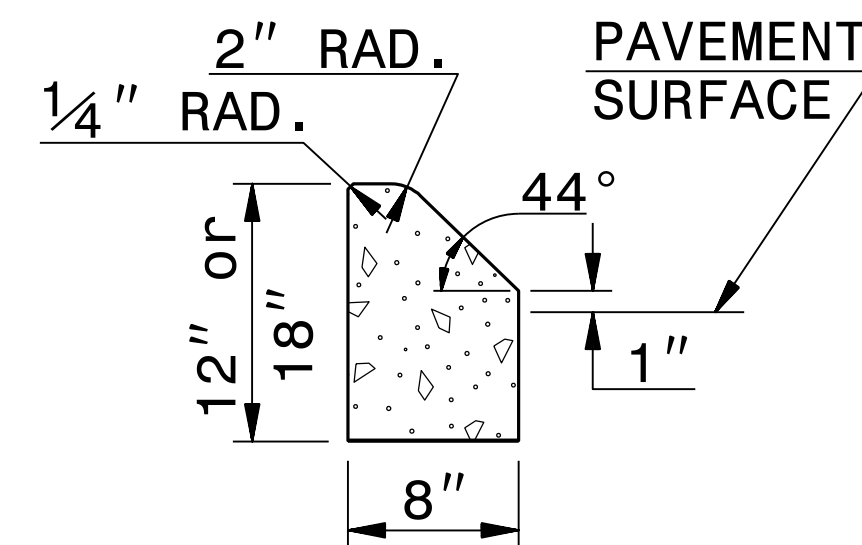
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

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

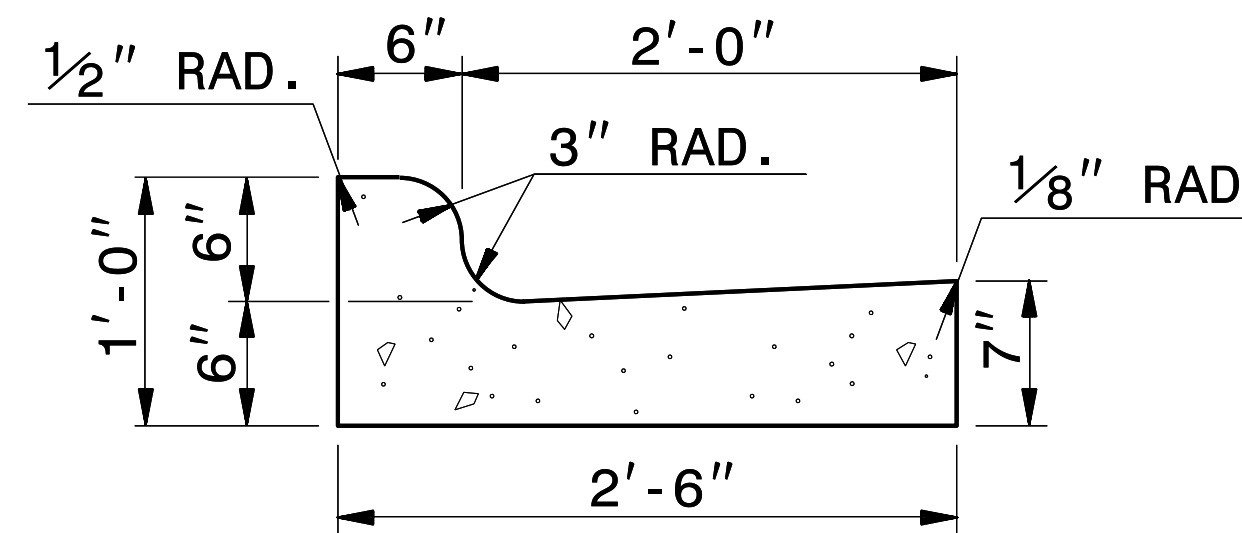
**DETAIL OF 10' TRANSITION FROM 2'-6" CURB & GUTTER TO 5'-0" PAVED SHOULDER**

ORIGINAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 MODIFIED BY: rnbritt DATE: 04-13-2016  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 FILE SPEC: details/nbritt/english/misc/c&g transition sections.dgn

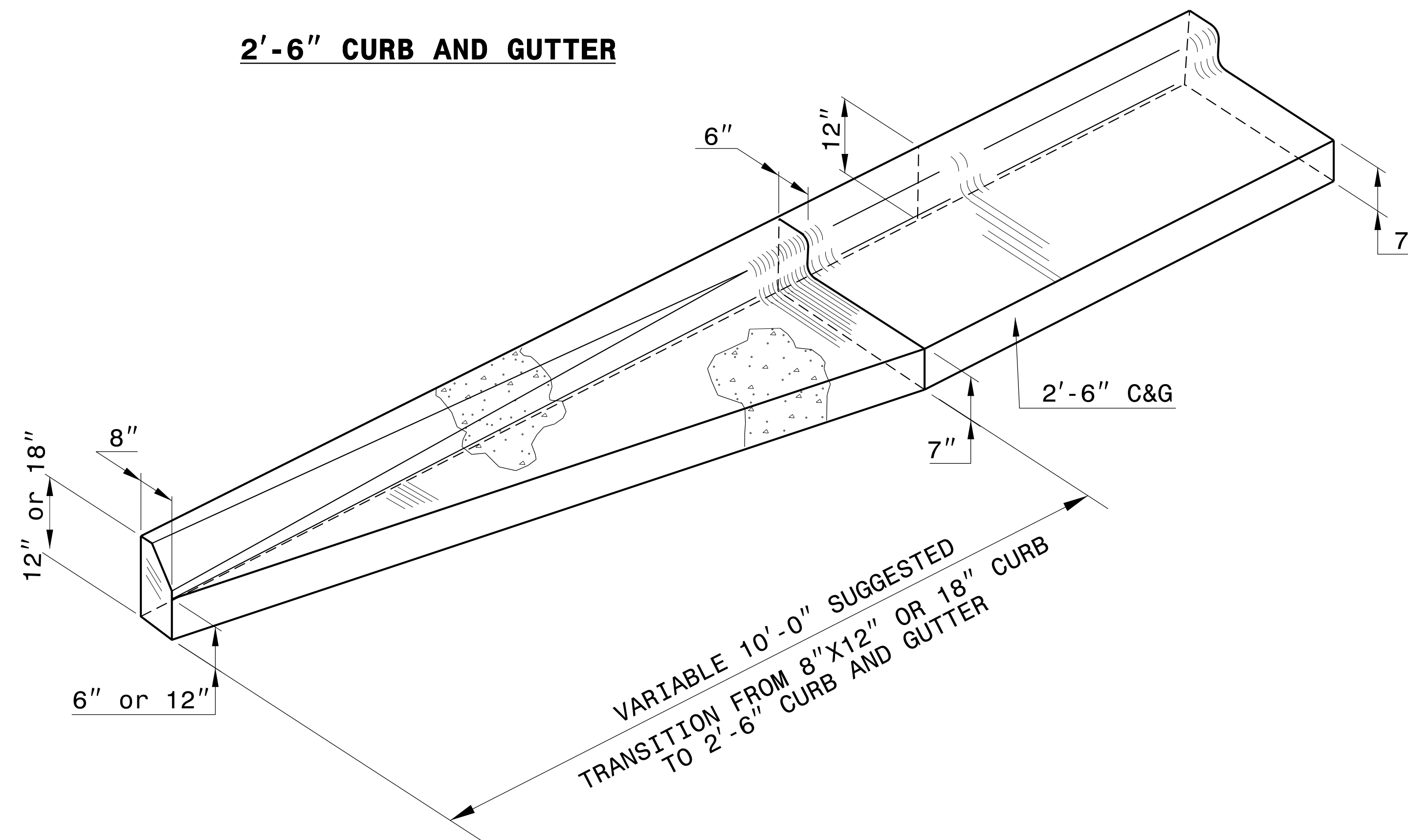
\*NOTE: SEE STD. DWG. 846.01  
FOR GENERAL NOTES



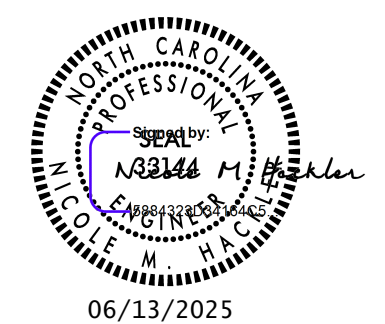
**8" X 12" or 18" CONCRETE CURB**



**2'-6" CURB AND GUTTER**



**ISOMETRIC VIEW OF TRANSITION**



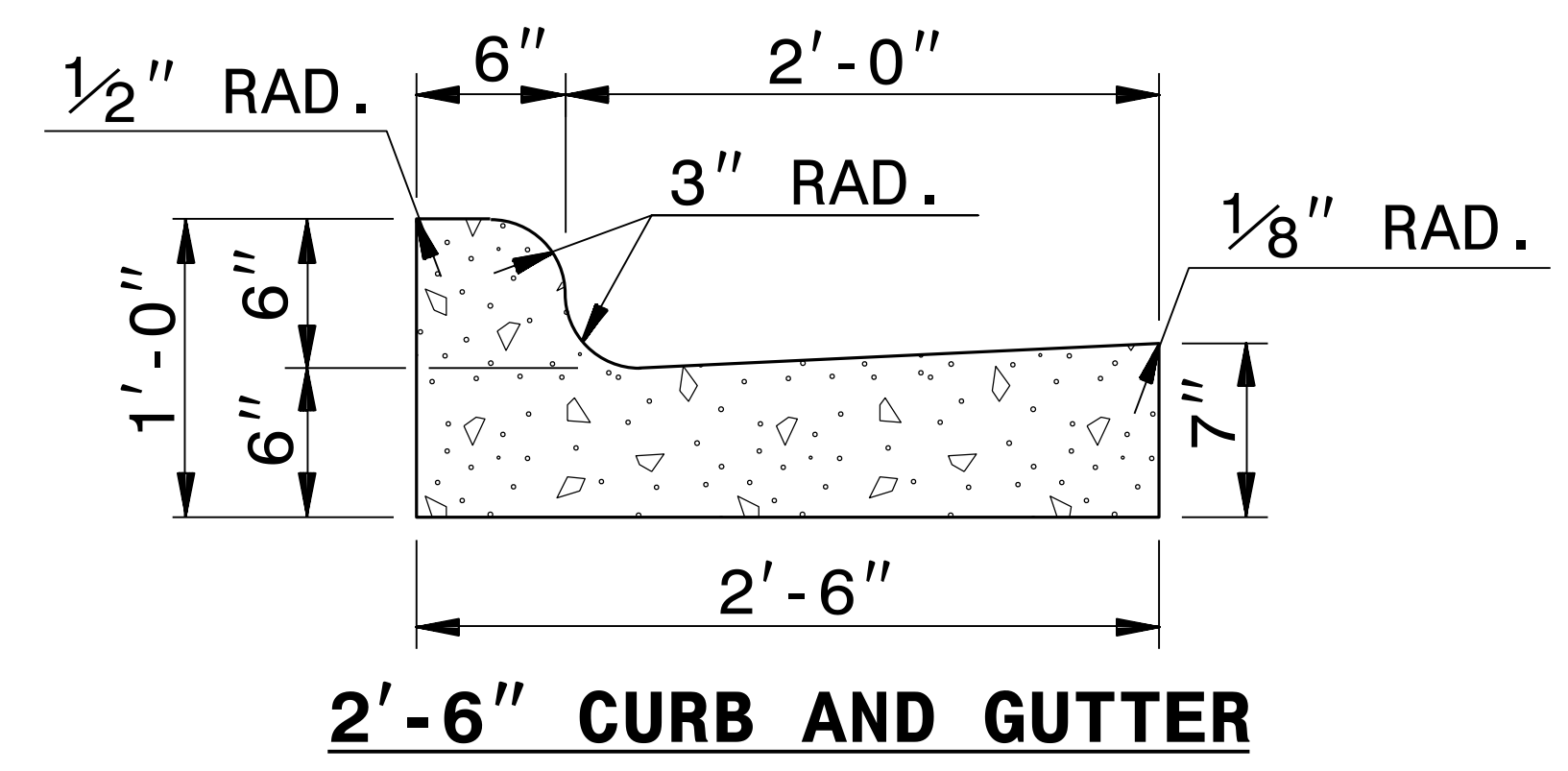
06/13/2025

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

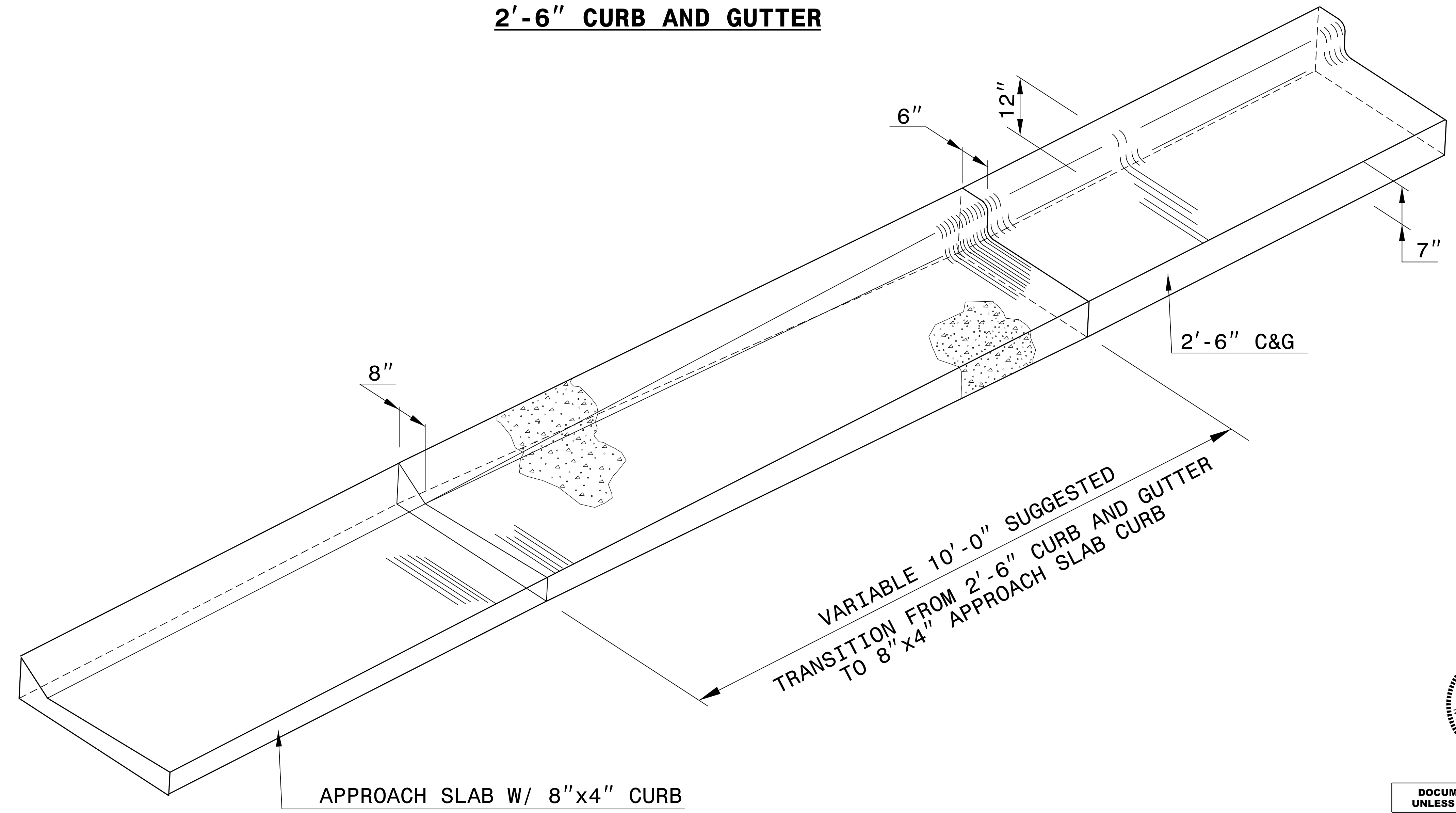
**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**DETAIL OF 8" X 12" or 18" CURB  
TO 2'-6" CURB & GUTTER  
TRANSITION SECTION**

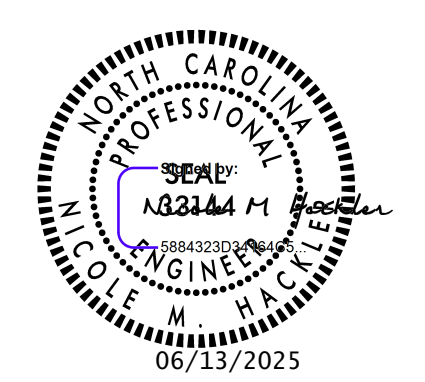
ORIGINAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
MODIFIED BY: K. KEMPF DATE: 4-05-18  
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
FILE SPEC.: details/ericward/usr/details/stand/cgtransit.dgn



\*NOTE: SEE STD. DWG. 846.01 FOR GENERAL NOTES



**ISOMETRIC VIEW OF TRANSITION**

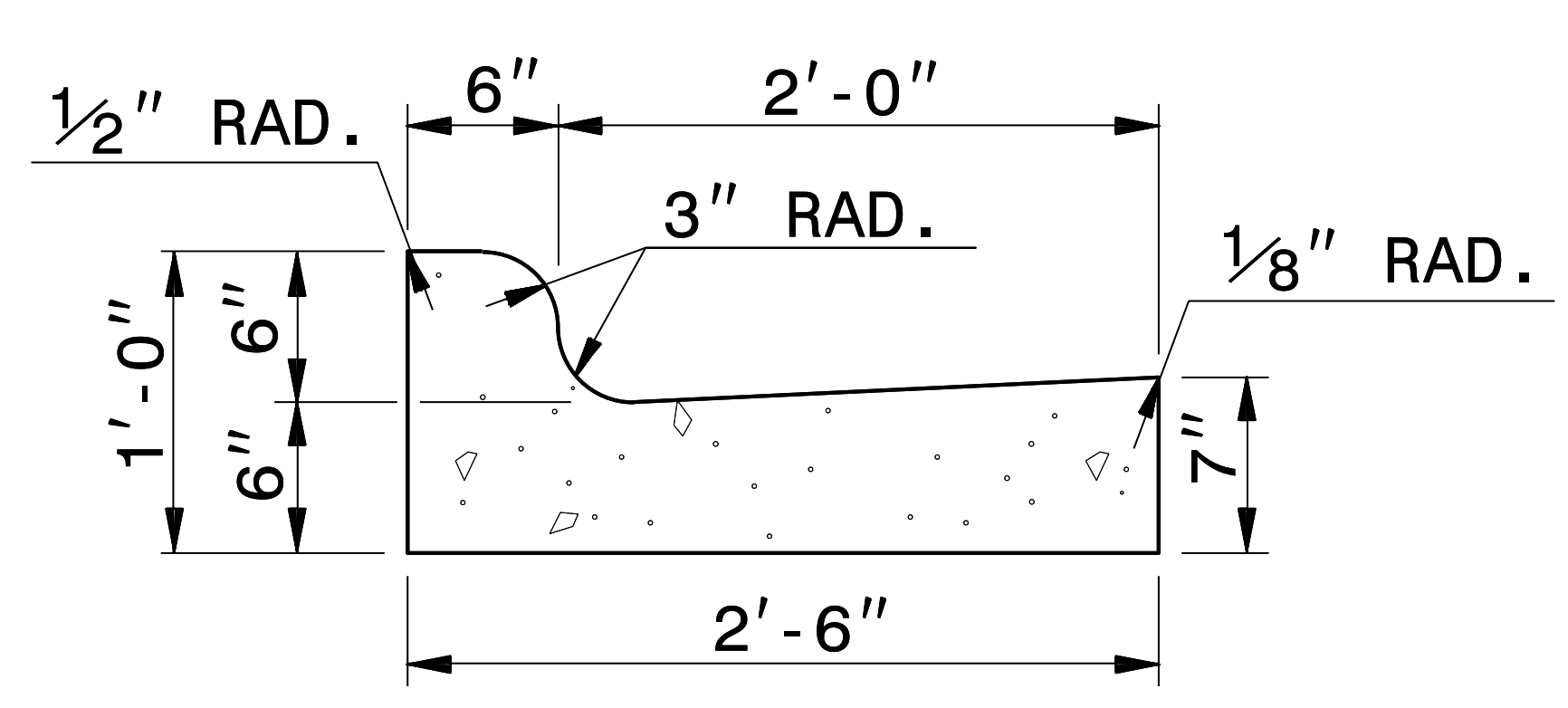


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

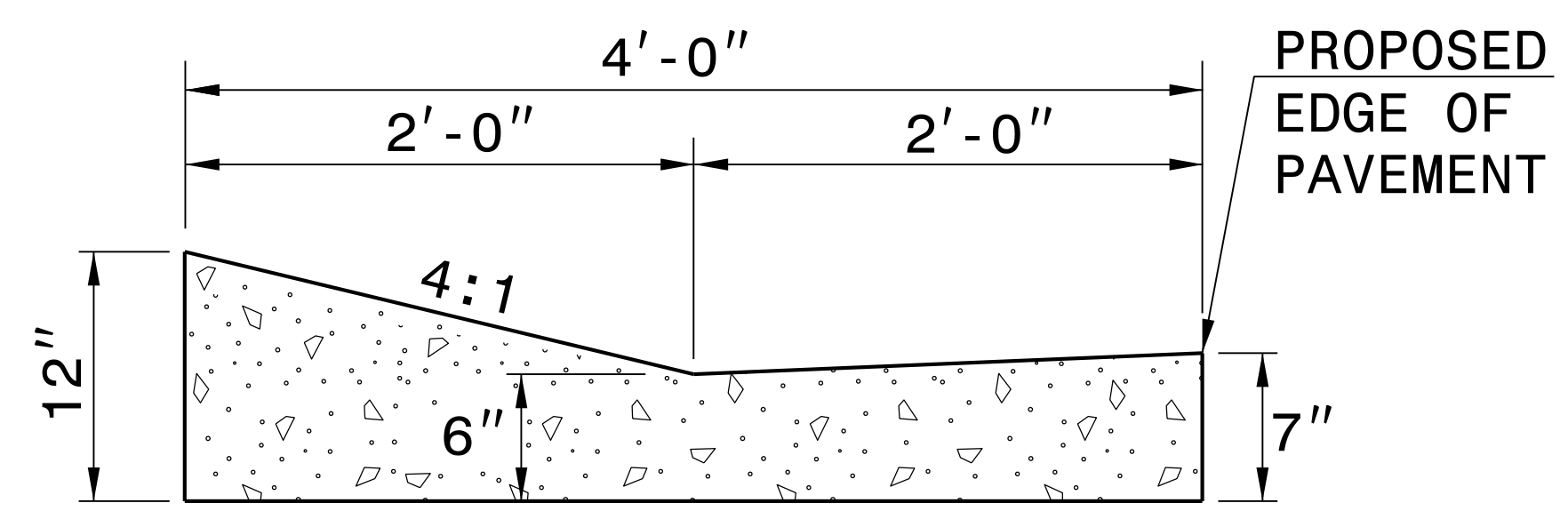
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>DETAIL OF 2'-6" CURB &amp; GUTTER TO 8"x4" APPROACH SLAB CURB TRANSITION SECTION</b>	
ORIGINAL BY: E.E. WARD	DATE: 5-29-02
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: /usr/details/stand/cgtransit.dgn	

08-JAN-2020 09:26  
 S:\Contracts\Special Details\ward\usr\details\stand\c&g transition sections.dgn  
 Jhowerston AT CSD-320965

5/14/99

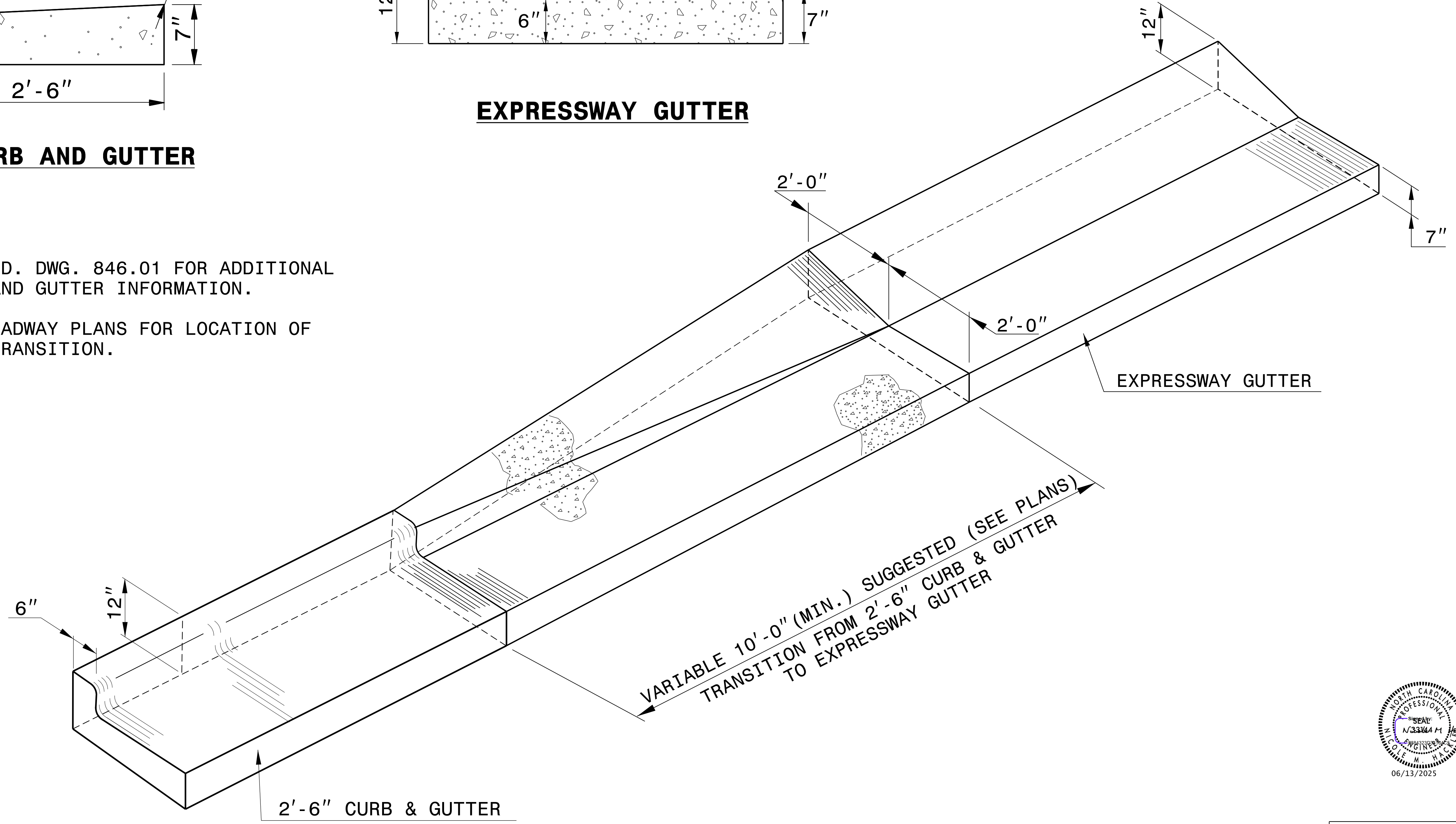


**2'-6" CURB AND GUTTER**

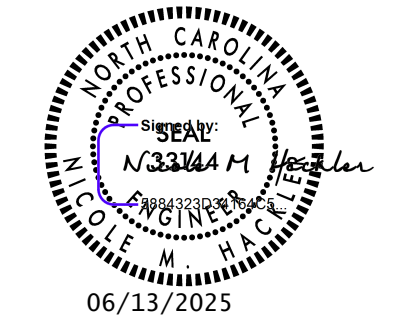


**EXPRESSWAY GUTTER**

NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.  
SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.



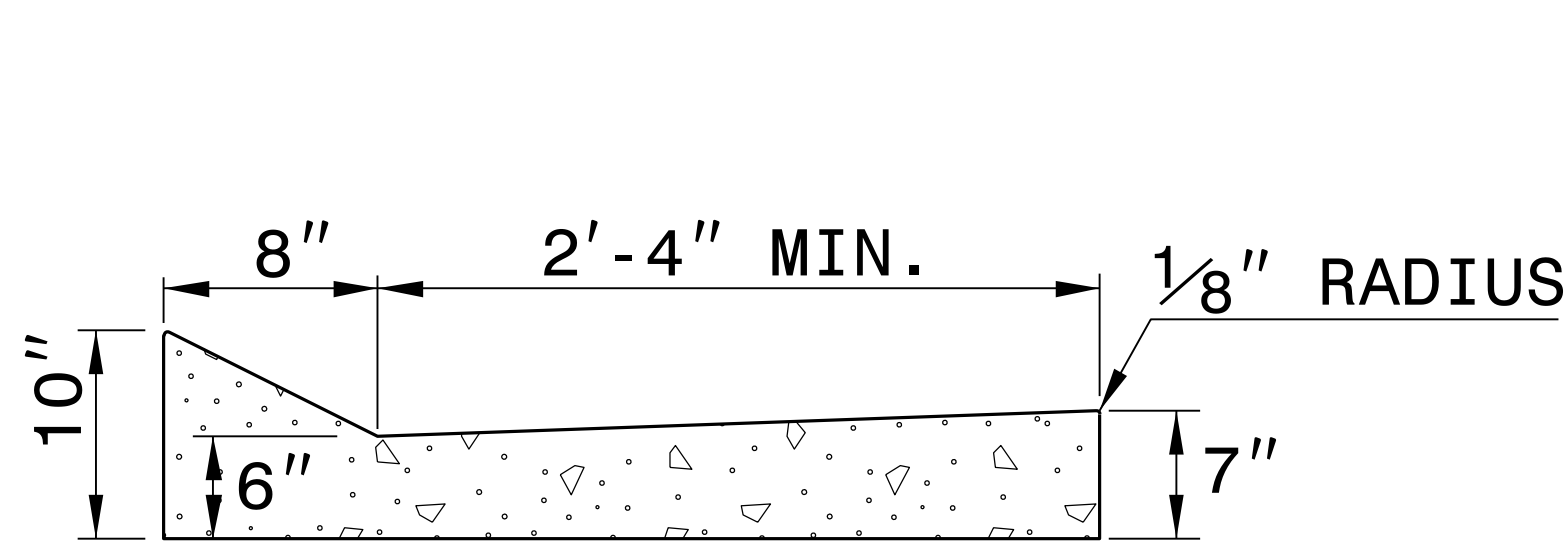
**ISOMETRIC VIEW OF TRANSITION**



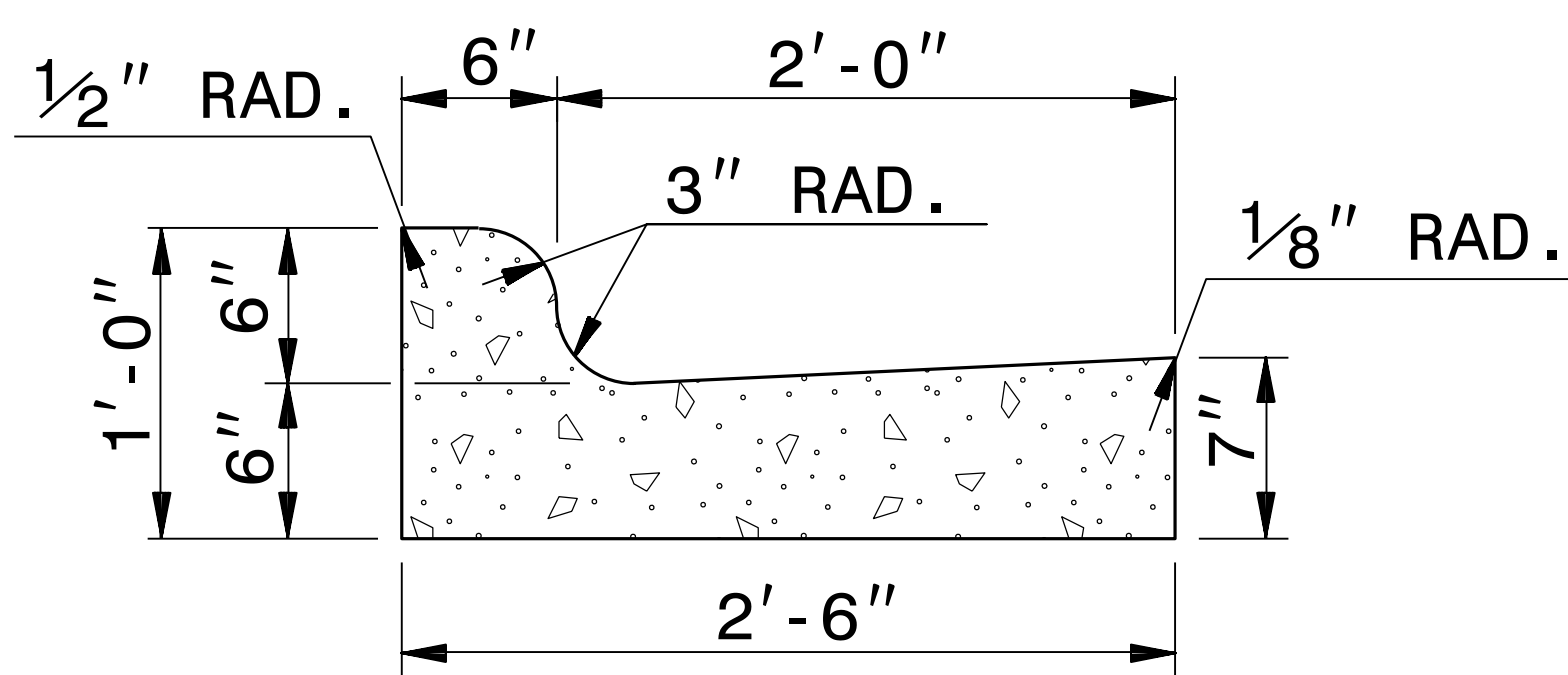
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>DETAIL OF 2'-6" CURB &amp; GUTTER TO EXPRESSWAY GUTTER TRANSITION SECTION</b>	
ORIGINAL BY: T.S.Spell	DATE: 8-13-02
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: w:usr/details/stand/cgtransit.dgn	

05-OCT-2017 08:23  
 S:\Contracts\ContractDetails\stand\c&g transition sections.dgn  
 Jhowerston AT USD-292595

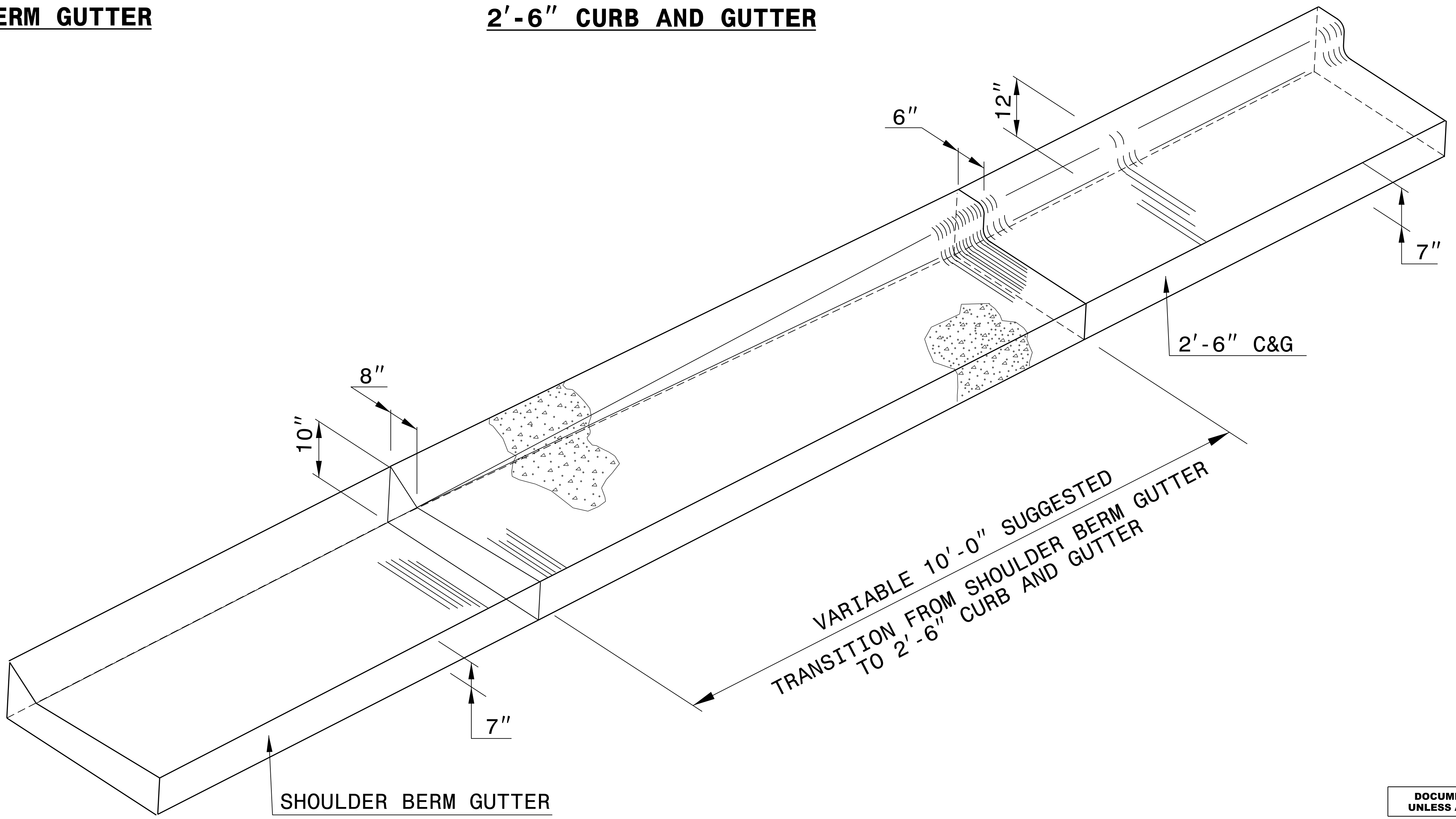


**SHOULDER BERM GUTTER**

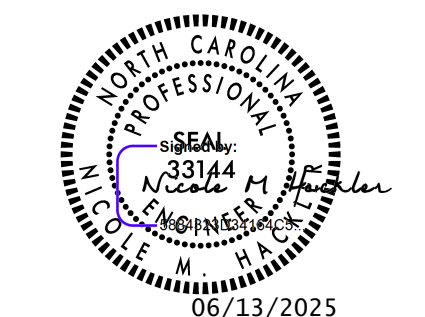


**2'-6" CURB AND GUTTER**

\*NOTE: SEE STD. DWG. 846.01 FOR GENERAL NOTES



**ISOMETRIC VIEW OF TRANSITION**



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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

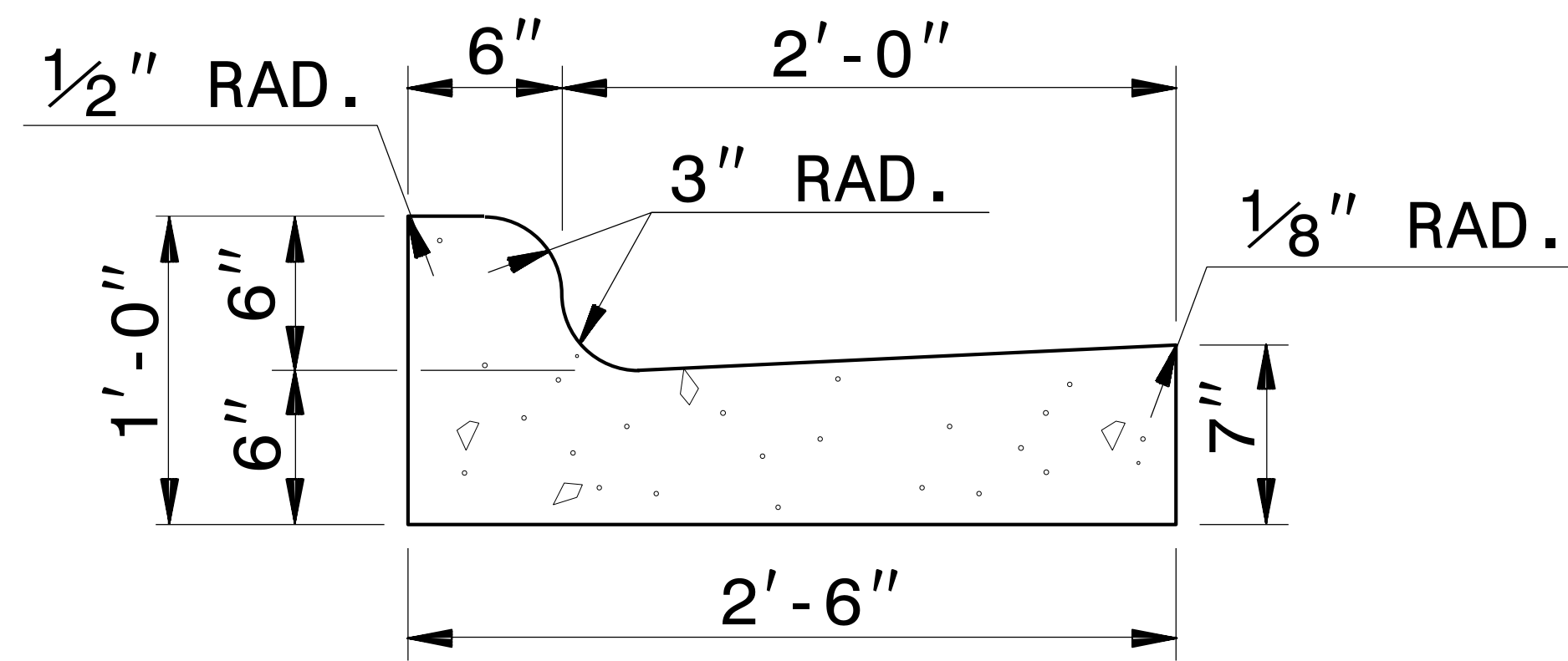
**DETAIL OF SHOULDER BERM GUTTER  
TO 2'-6" CURB & GUTTER  
TRANSITION SECTION**

ORIGINAL BY: E.E. WARD DATE: 5-29-02  
 MODIFIED BY: DATE:  
 CHECKED BY: DATE:  
 FILE SPEC.: /usr/details/stand/cgtransit.dgn

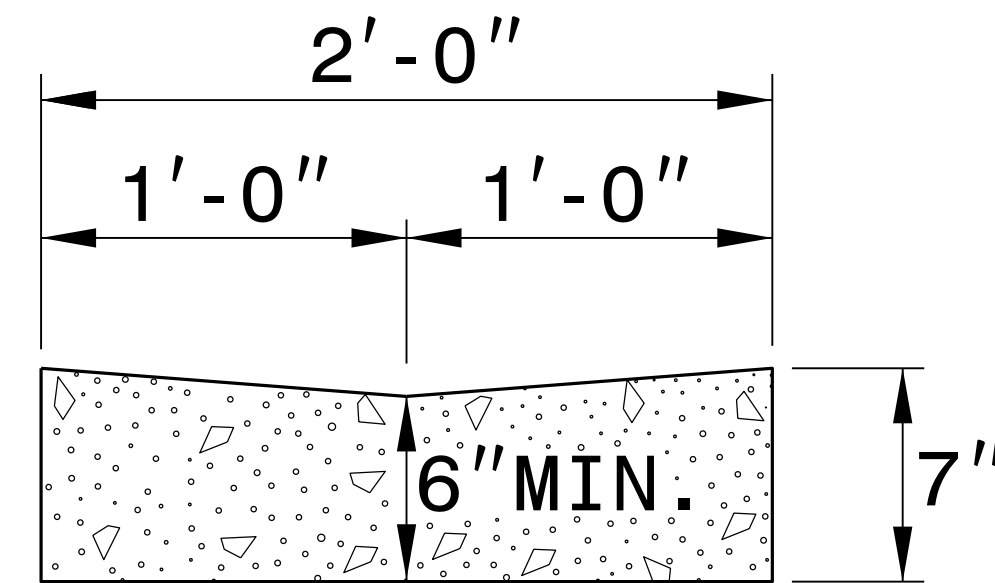
20-OCT-2017 09:40  
 S:\Contracts\Special Details\vericard\usr\details\stand\c&g transition sections.dgn  
 Jhowerston AT USD-292595

5/14/99

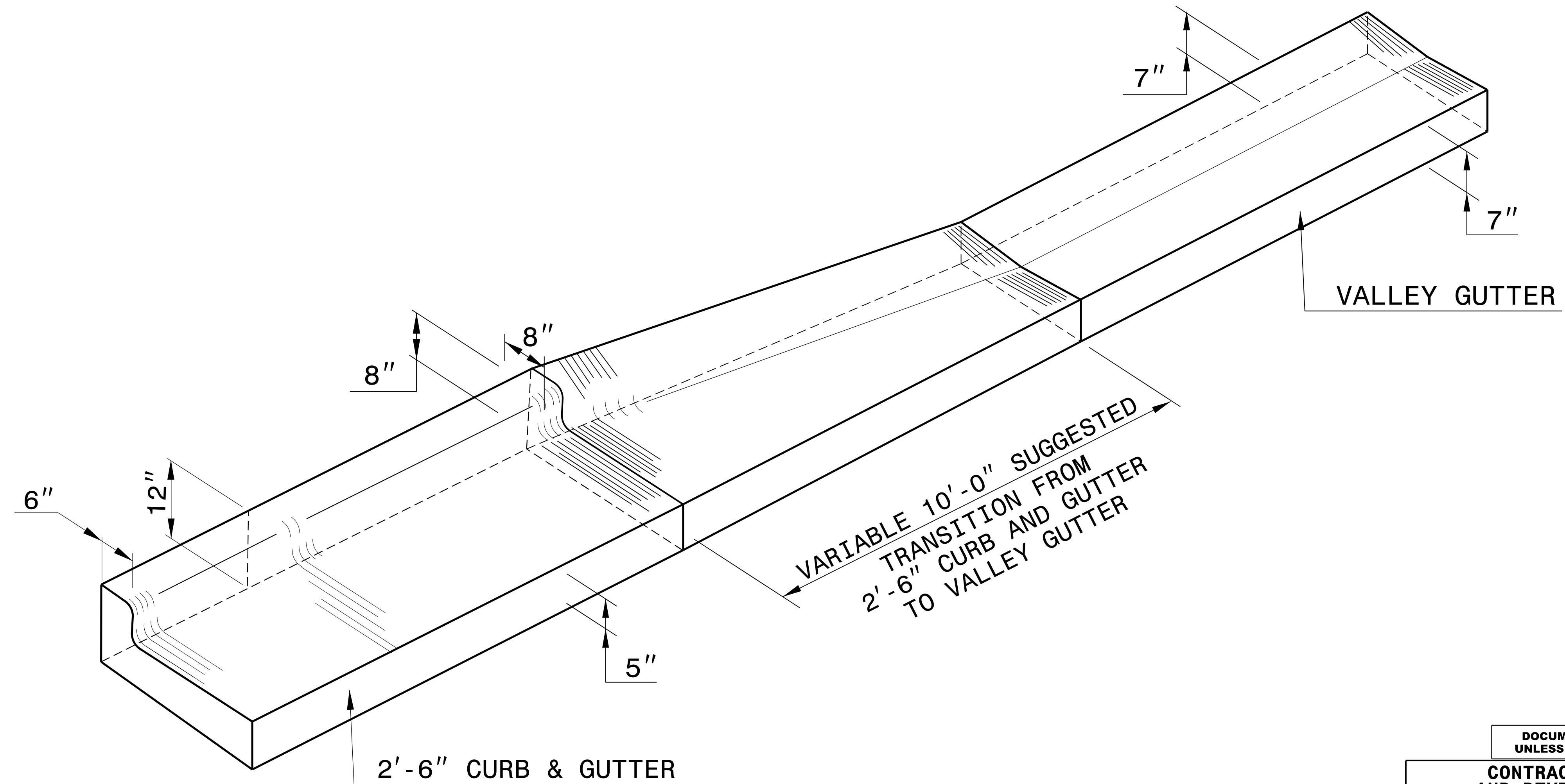
\*NOTE: SEE STD. DWG. 846.01  
FOR GENERAL NOTES



**2'-6" CURB AND GUTTER**

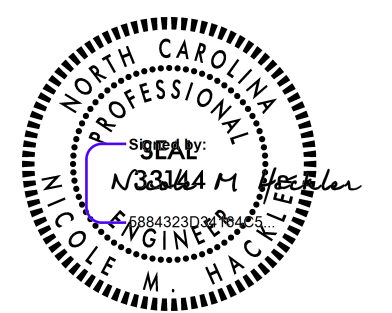


**VALLEY GUTTER**



**ISOMETRIC VIEW OF TRANSITION**

07-SEP-2017 08:20 S:\Contracts\Special Details\vericard\usr\details\stand\c&g transition sections.dgn Jhower-ton AT USD-292595



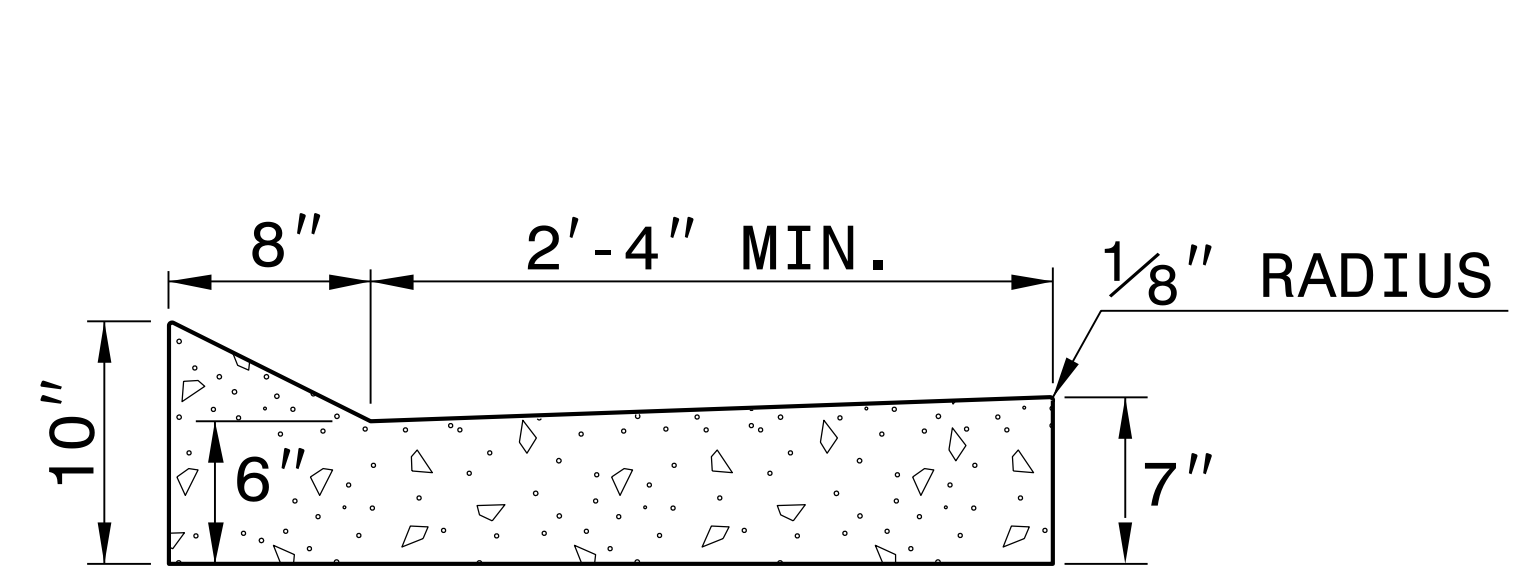
06/13/2025

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

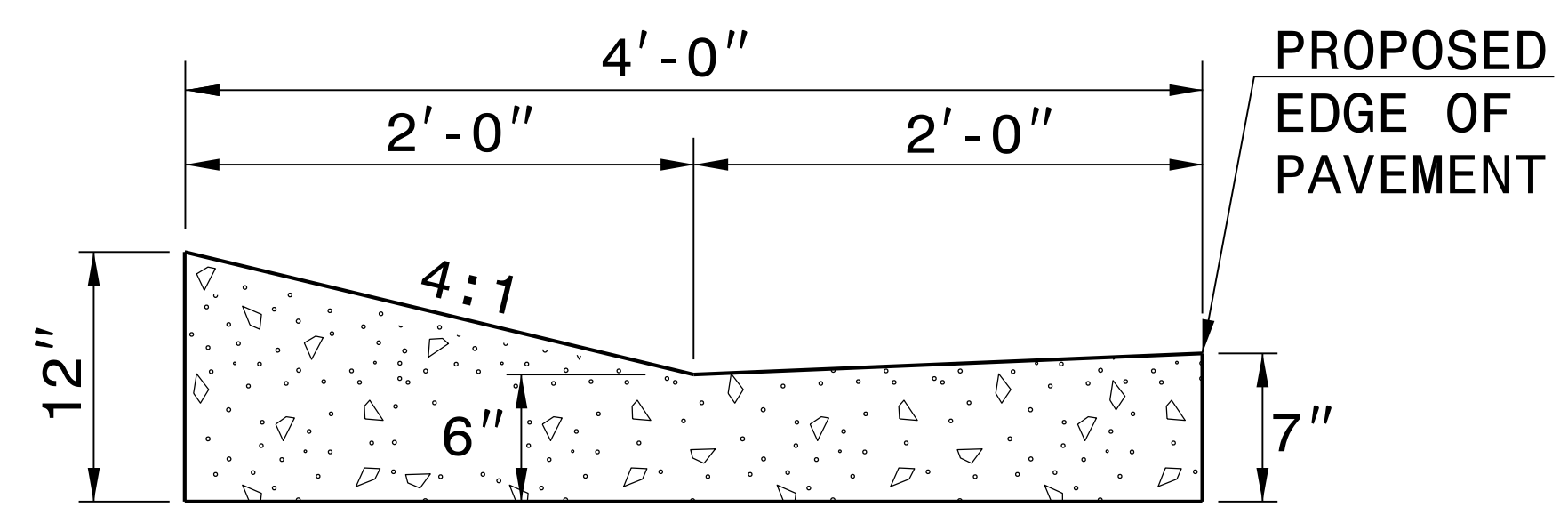
**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**TRANSITION FROM  
2'-6" CURB AND GUTTER  
TO VALLEY GUTTER**

ORIGINAL BY: T.S. SPELL DATE: FEB. 4, 2009  
MODIFIED BY: DATE:  
CHECKED BY: DATE:  
FILE SPEC.: w:\usr\details\stand\cgtransit.dgn

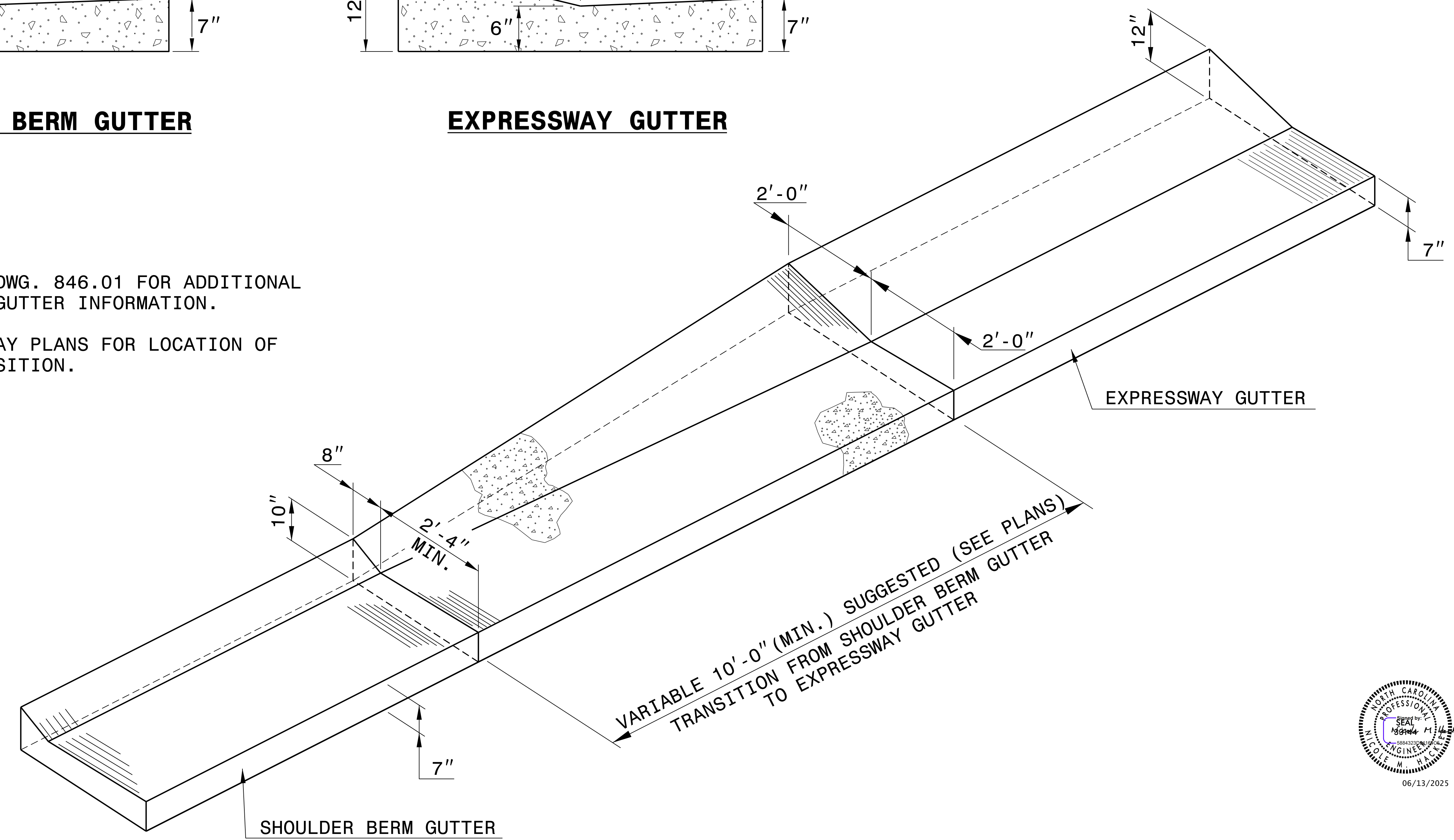


**SHOULDER BERM GUTTER**

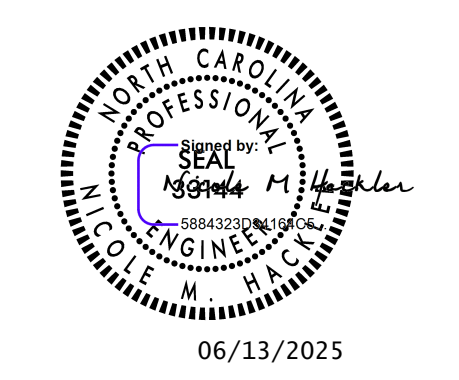


**EXPRESSWAY GUTTER**

NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.  
SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.



**ISOMETRIC VIEW OF TRANSITION**



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119  
**DETAIL OF SHOULDER BERM GUTTER TO EXPRESSWAY GUTTER TRANSITION SECTION**

ORIGINAL BY: T.S.Spell DATE: 8-13-02  
MODIFIED BY: DATE:  
CHECKED BY: DATE:  
FILE SPEC.: w:usr/details/stand/cgtransit.dgn

04-JUN-2019 10:25 S:\Contracts\Special Details\Vericard\usr\details\stand\c&g transition sections.dgn J:\overton AT USD-292595

5/14/99