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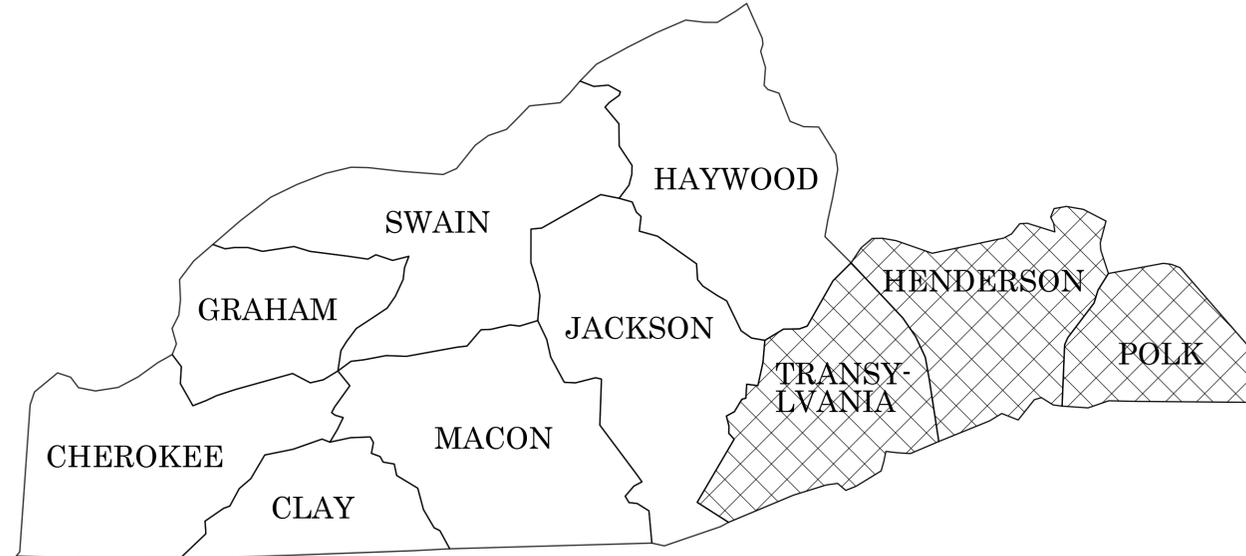
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## DIVISION 14

LOCATION: *VARIOUS LOCATIONS ACROSS  
DISTRICT 1 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.	DN12200298	1	20
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
GMR14.HEN.1P			
GMR14.HEN.2P			
GMR14.POL.1P			
GMR14.POL.2P			
GMR14.TRA.1P			
GMR14.TRA.2P			



CONTRACT: DN12200298

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:  
NOVEMBER 12, 2025

TROY WILSON, 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

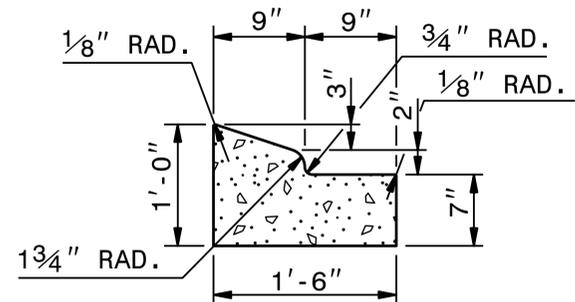
300.01 Method of Pipe Installation  
310.10 Driveway Pipe Construction

## DIVISION 8 - INCIDENTALS

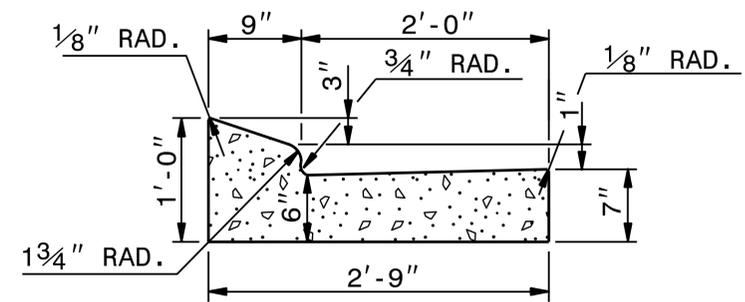
846.01 Concrete Curb, Gutter and Curb & Gutter  
848.01 Concrete Sidewalk  
848.02 Driveway Turnout - Radius Type  
848.03 Driveway Turnout - Drop Curb Type  
848.04 Street Turnout  
848.06 Curb Ramp - Existing Curb & Gutter  
850.01 Concrete Paved Ditches  
852.01 Concrete Islands  
852.02 Concrete 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

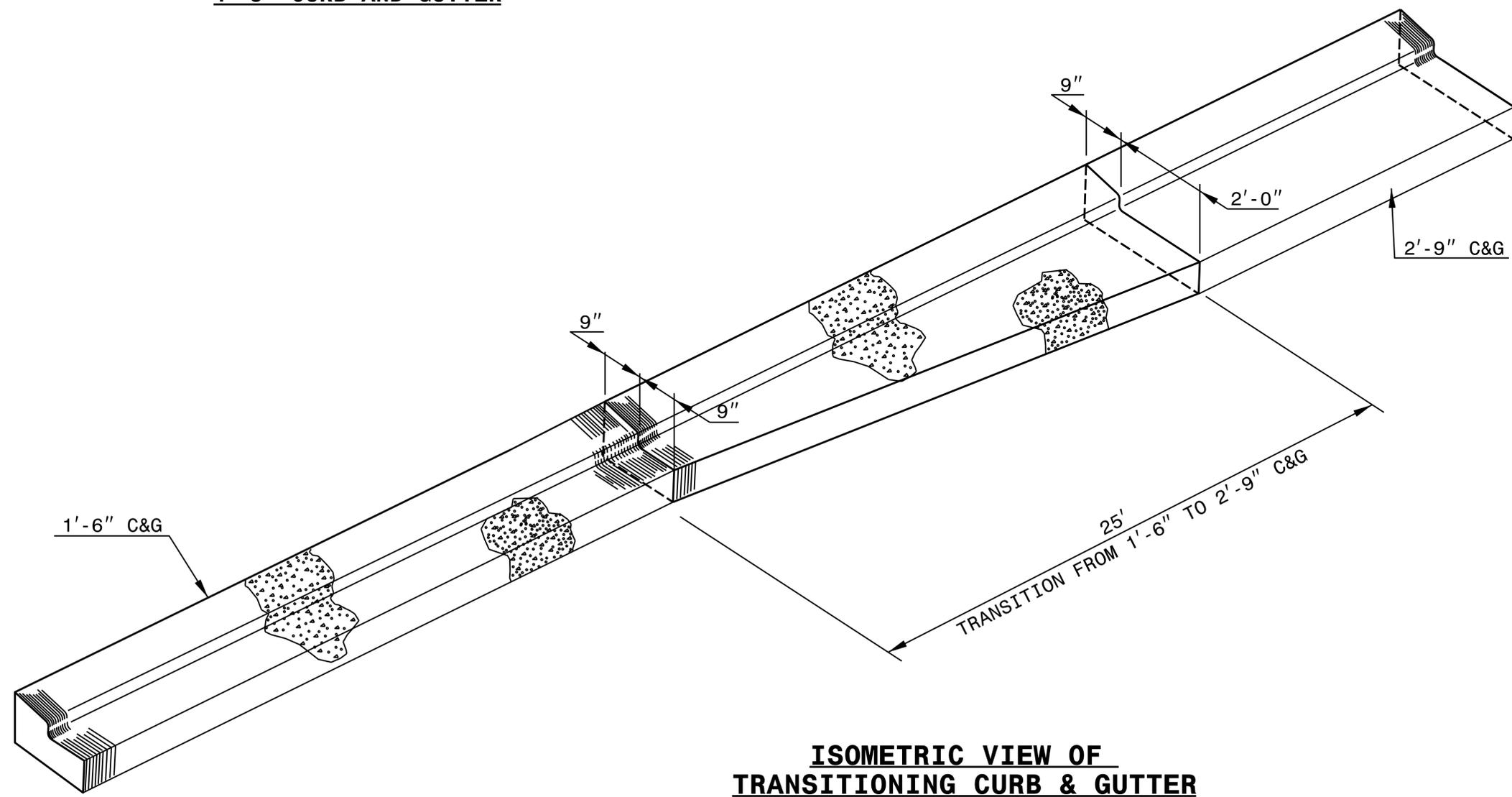


**1'-6" CURB AND GUTTER**



**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.

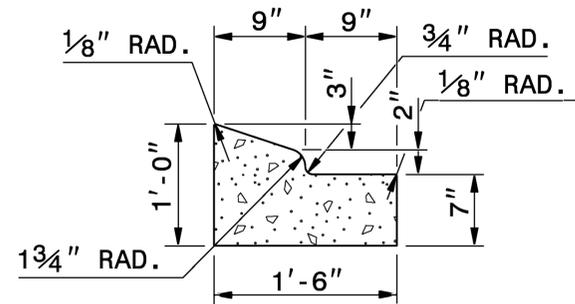


**ISOMETRIC VIEW OF  
TRANSITIONING CURB & GUTTER**

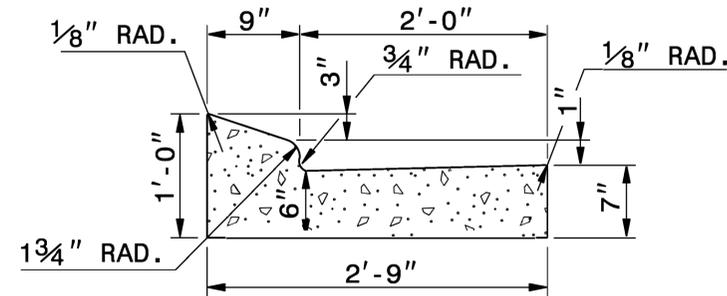


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950 FAX 919-250-4119	
<b>DETAIL OF 1'-6" TO 2'-9" CURB &amp; GUTTER TRANSITION SECTION</b>	
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	



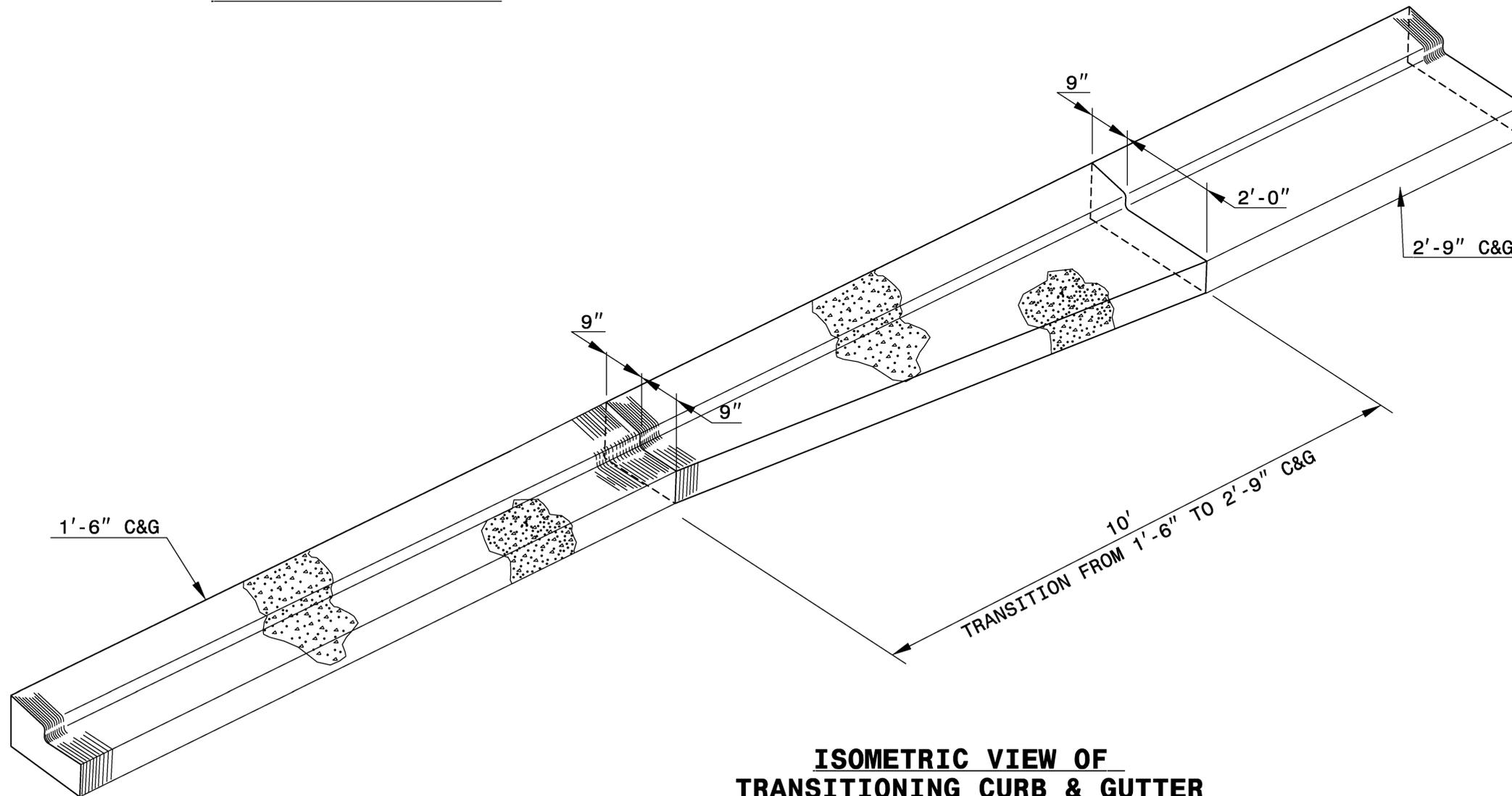
**1'-6" CURB AND GUTTER**



**2'-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**

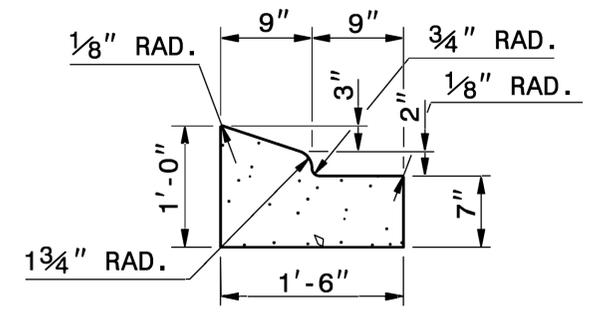


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

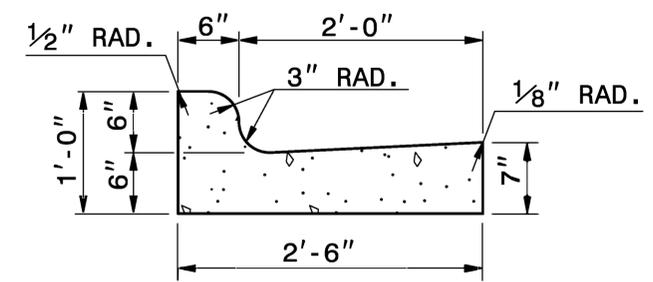
**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

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

ORIGINAL BY: T.S. SPELL DATE: NOV. 26, 2001  
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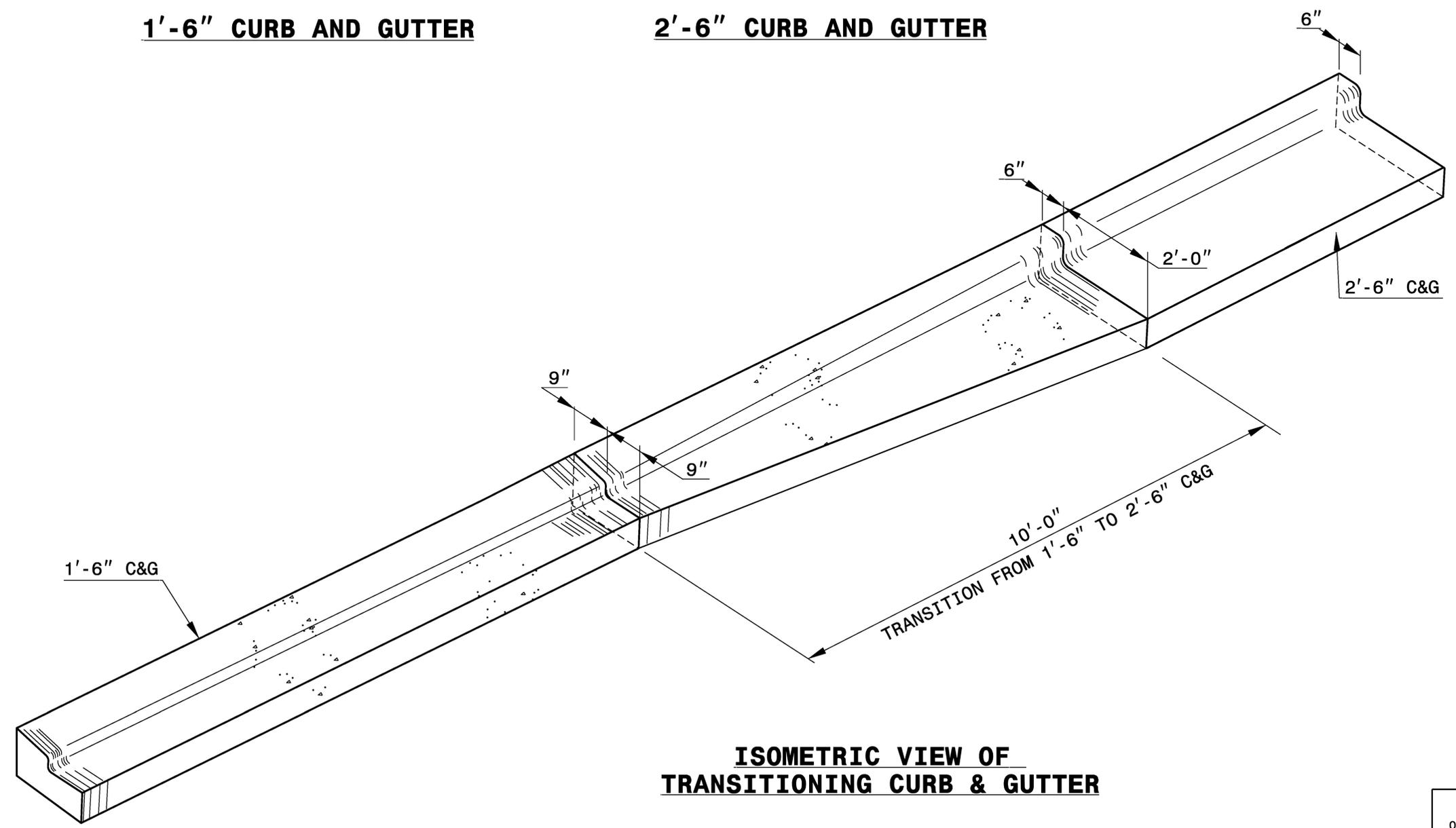


**1'-6" CURB AND GUTTER**



**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**

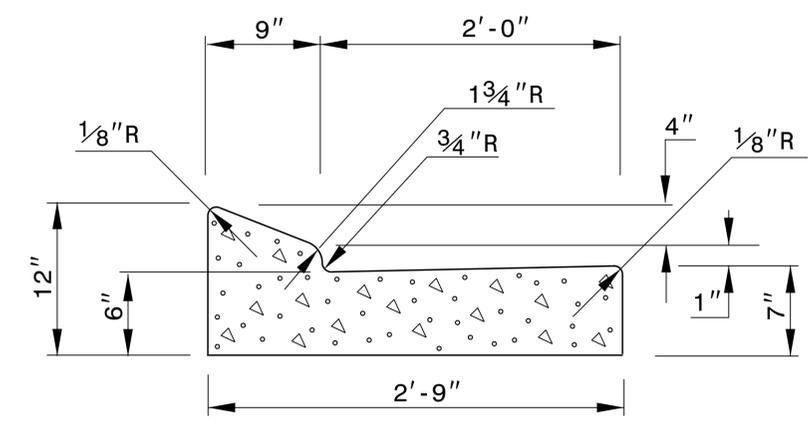


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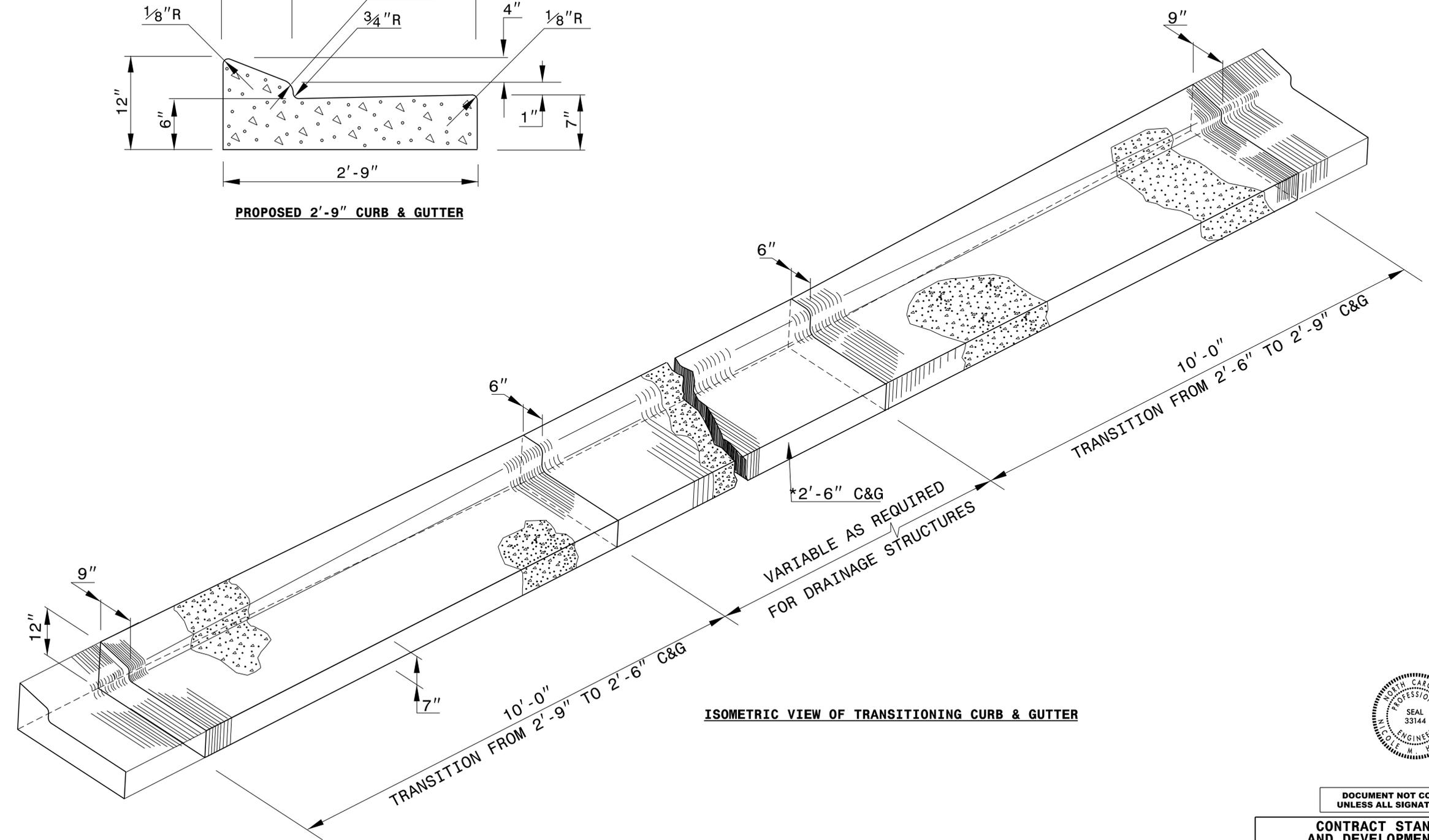
**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119  
**DETAIL OF 1'-6" TO 2'-6" CURB & GUTTER TRANSITION SECTION**

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.



**PROPOSED 2'-9" CURB & GUTTER**



**ISOMETRIC VIEW OF TRANSITIONING CURB & GUTTER**

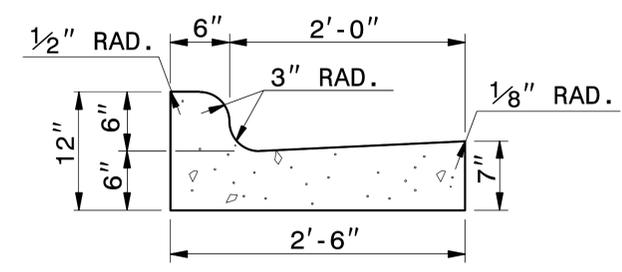


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UNLESS ALL SIGNATURES COMPLETED

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

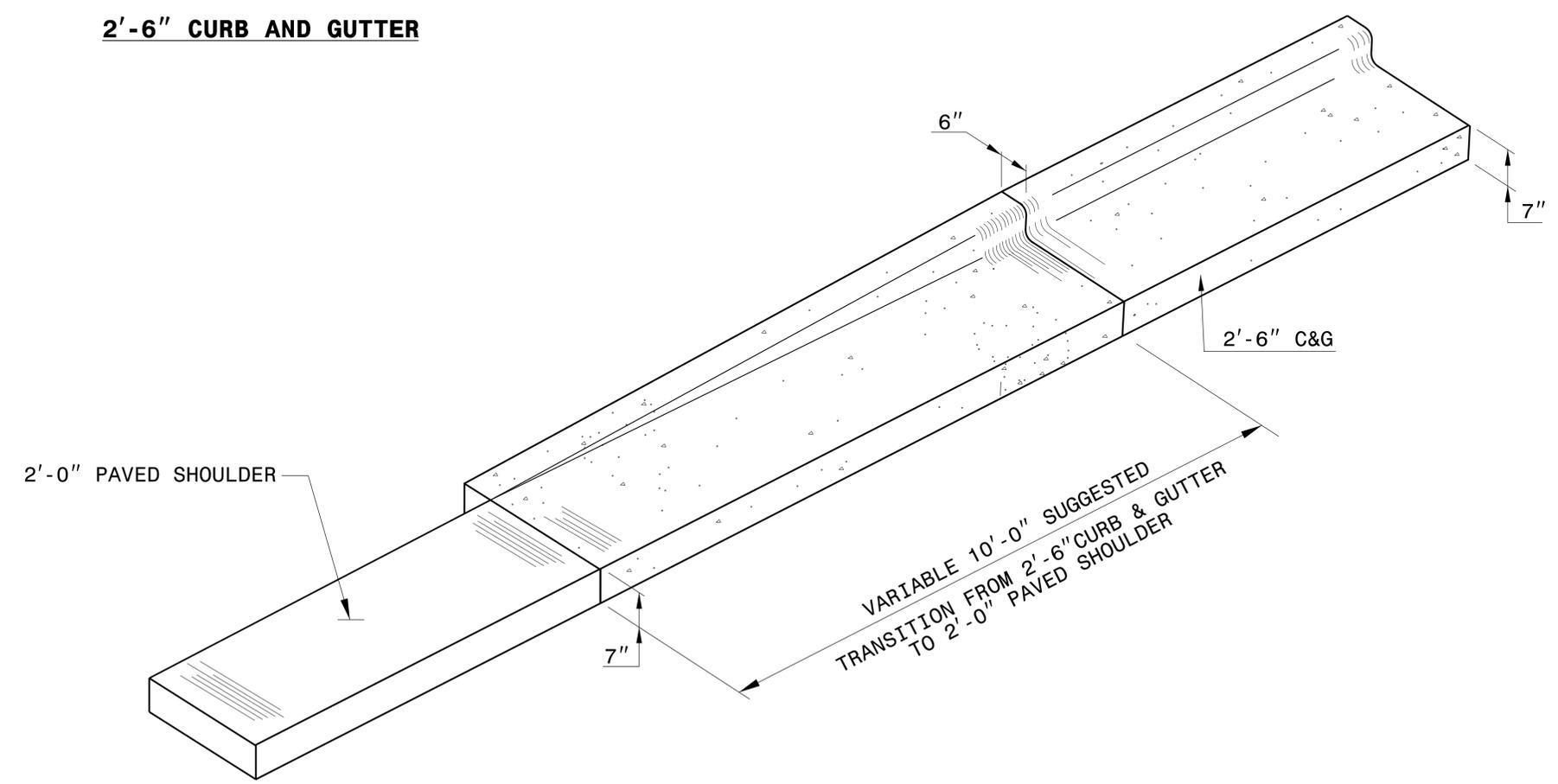
**DETAIL OF 2'-9"  
TO 2'-6" CURB & GUTTER  
TRANSITION SECTION**

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FILE SPEC.: D8174:/usr/details/stand/cgtransit.dgn



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

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



**ISOMETRIC VIEW OF TRANSITION**



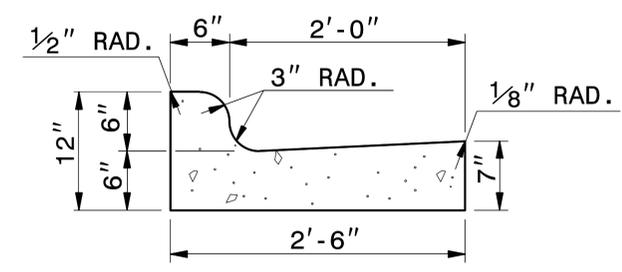
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

**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**

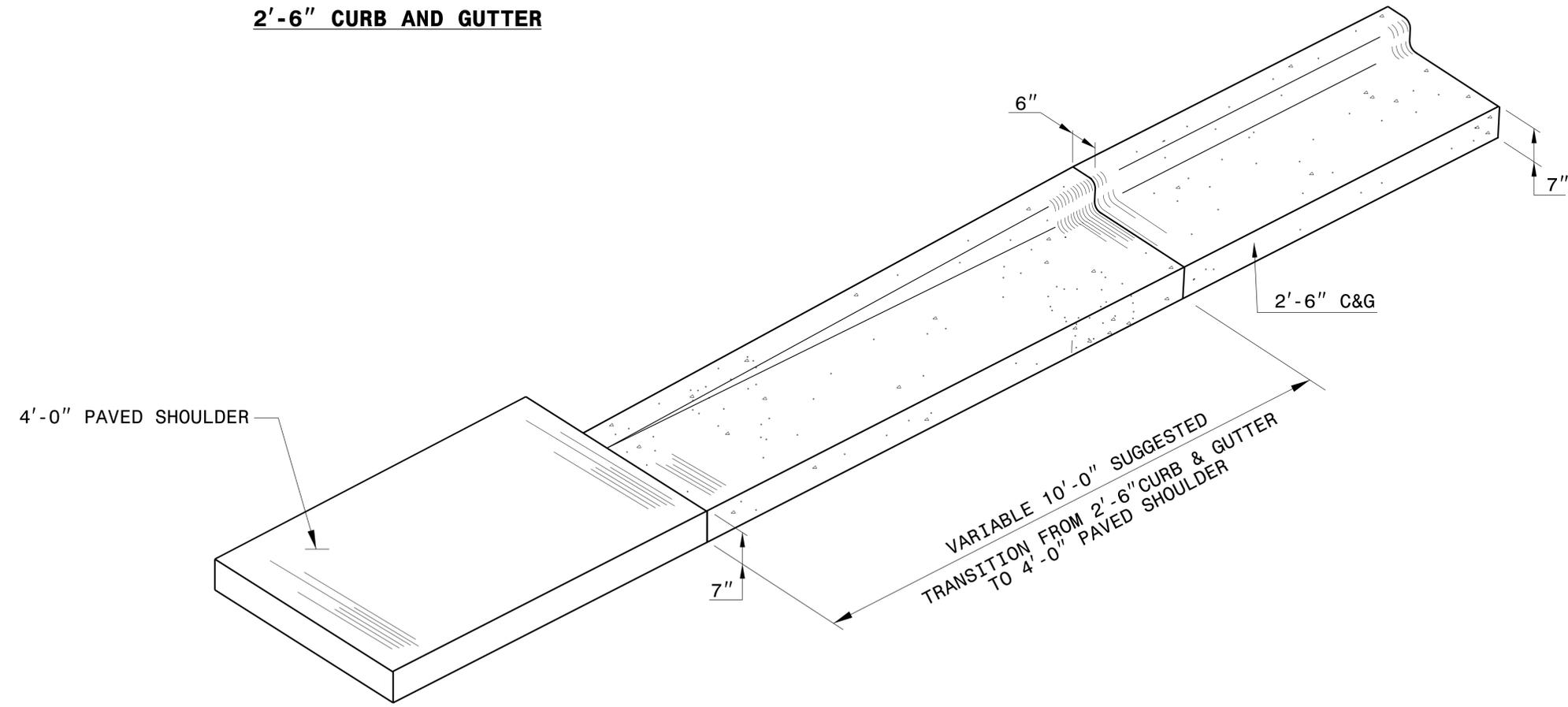
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 MODIFIED BY: rnbritt DATE: 04-13-2016  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
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 J.Overton AT USD-320965



**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**

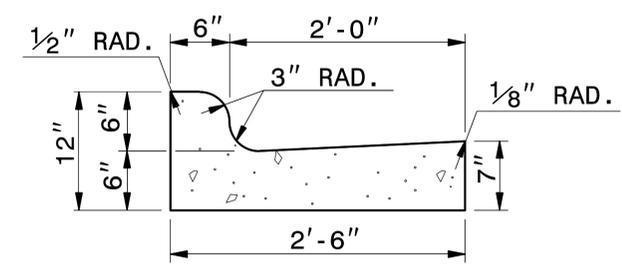
**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

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

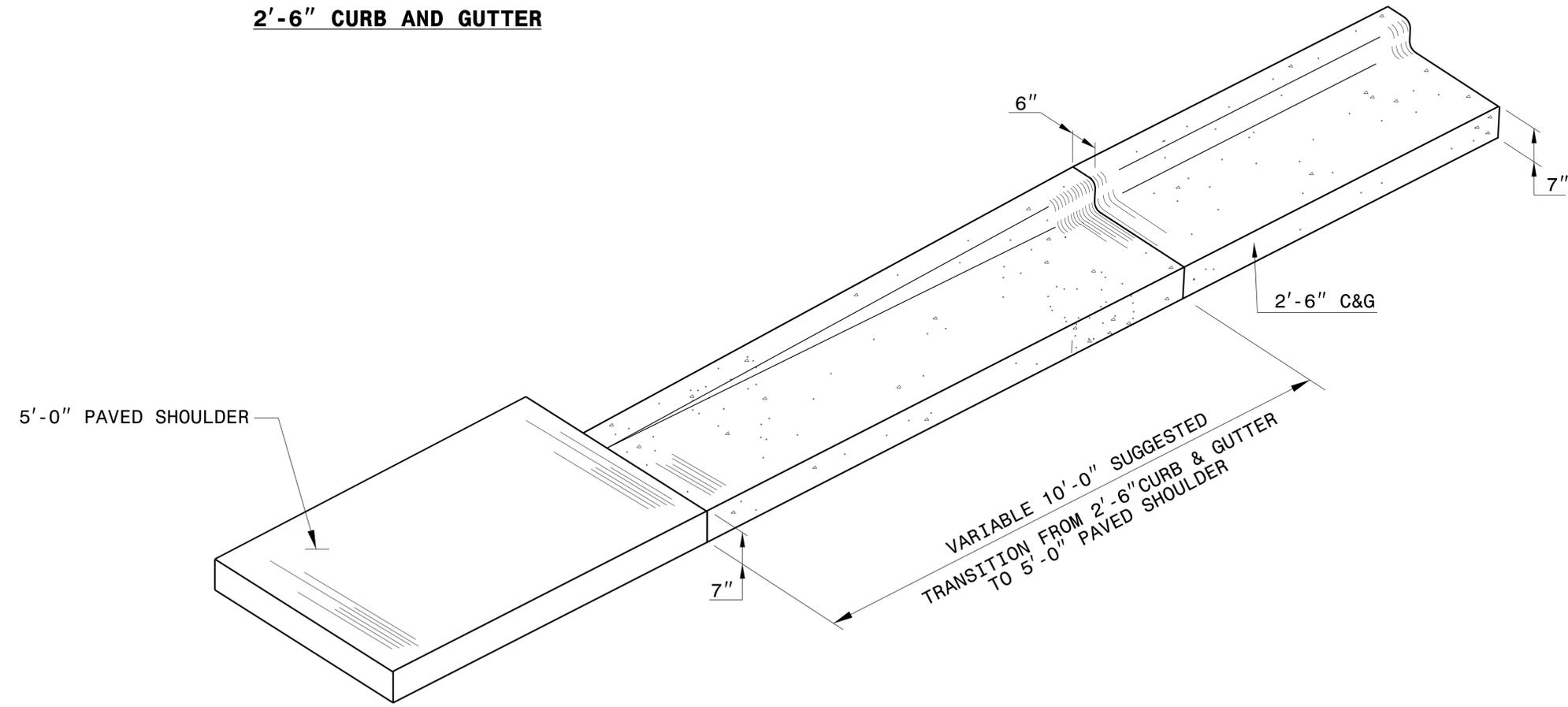
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 J:\overton AT USD-320965

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



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



**ISOMETRIC VIEW OF TRANSITION**



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**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
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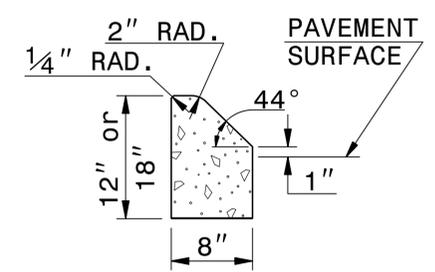
**DETAIL OF 10' TRANSITION  
FROM 2'-6" CURB & GUTTER  
TO 5'-0" PAVED SHOULDER**

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MODIFIED BY: rnbritt	DATE: 04-13-2016
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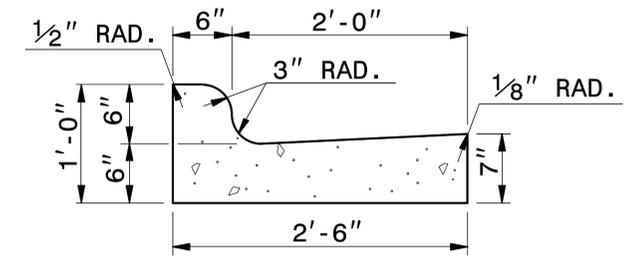
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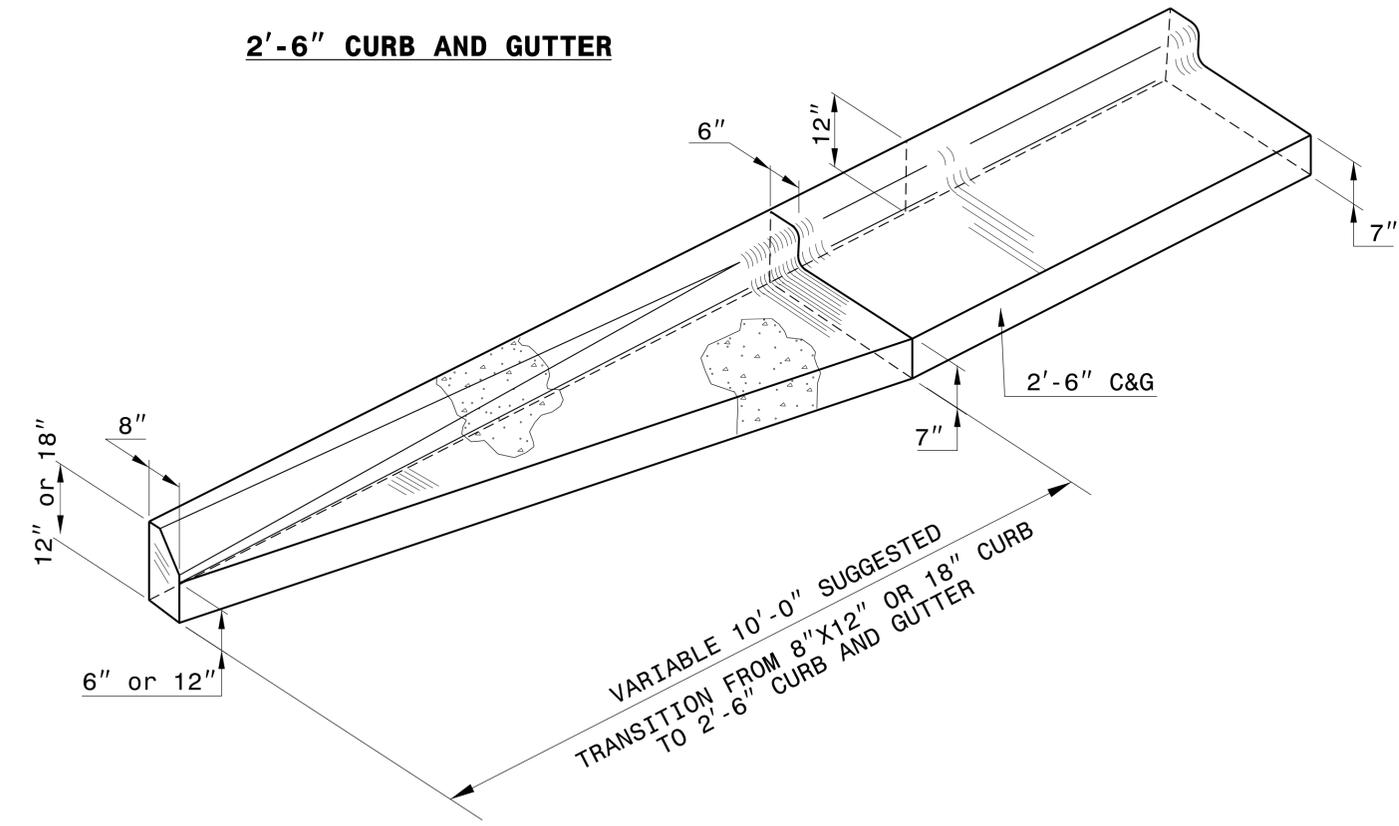
\*NOTE: SEE STD. DWG. 846.01  
FOR GENERAL NOTES



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



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



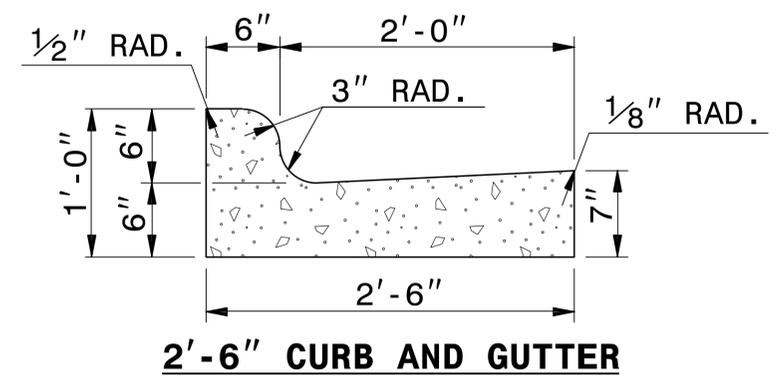
**ISOMETRIC VIEW OF TRANSITION**



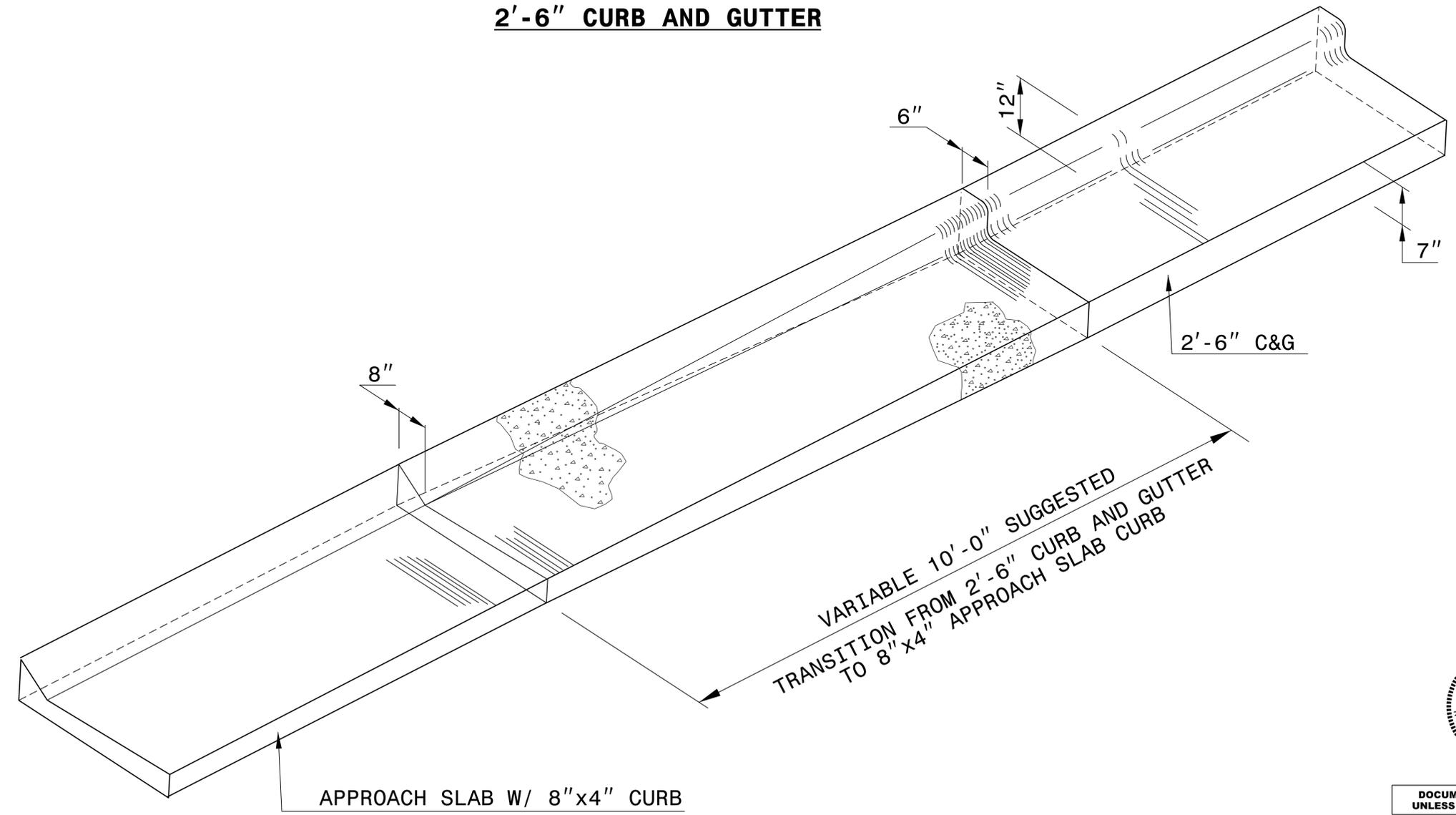
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UNLESS ALL SIGNATURES COMPLETED

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>DETAIL OF 8" X 12" or 18" CURB TO 2'-6" CURB &amp; GUTTER TRANSITION SECTION</b>	
ORIGINAL BY: _____	DATE: _____
MODIFIED BY: K. KEMPF	DATE: 4-05-18
CHECKED BY: _____	DATE: _____
FILE SPEC.: details/ericward/usr/details/stand/cgtransit.dgn	

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 .jhoverton AT USD-292595



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

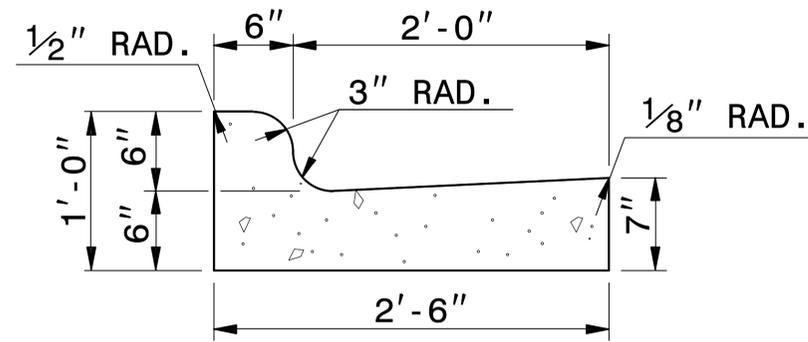


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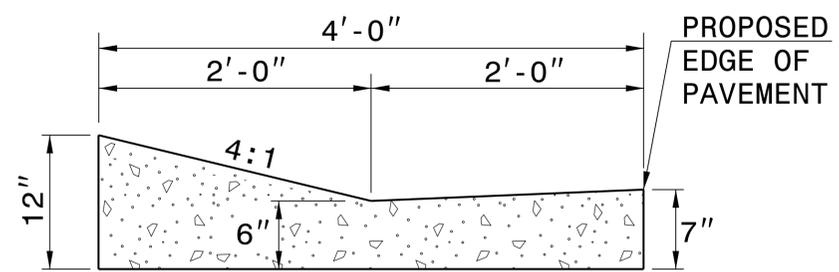
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>DETAIL OF 2'-6" CURB &amp; GUTTER TO 8"x4" APPROACH SLAB CURB TRANSITION SECTION</b>	
ORIGINAL BY: E.E. WARD	DATE: 5-29-02
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: /usr/details/stand/cgtransit.dgn	

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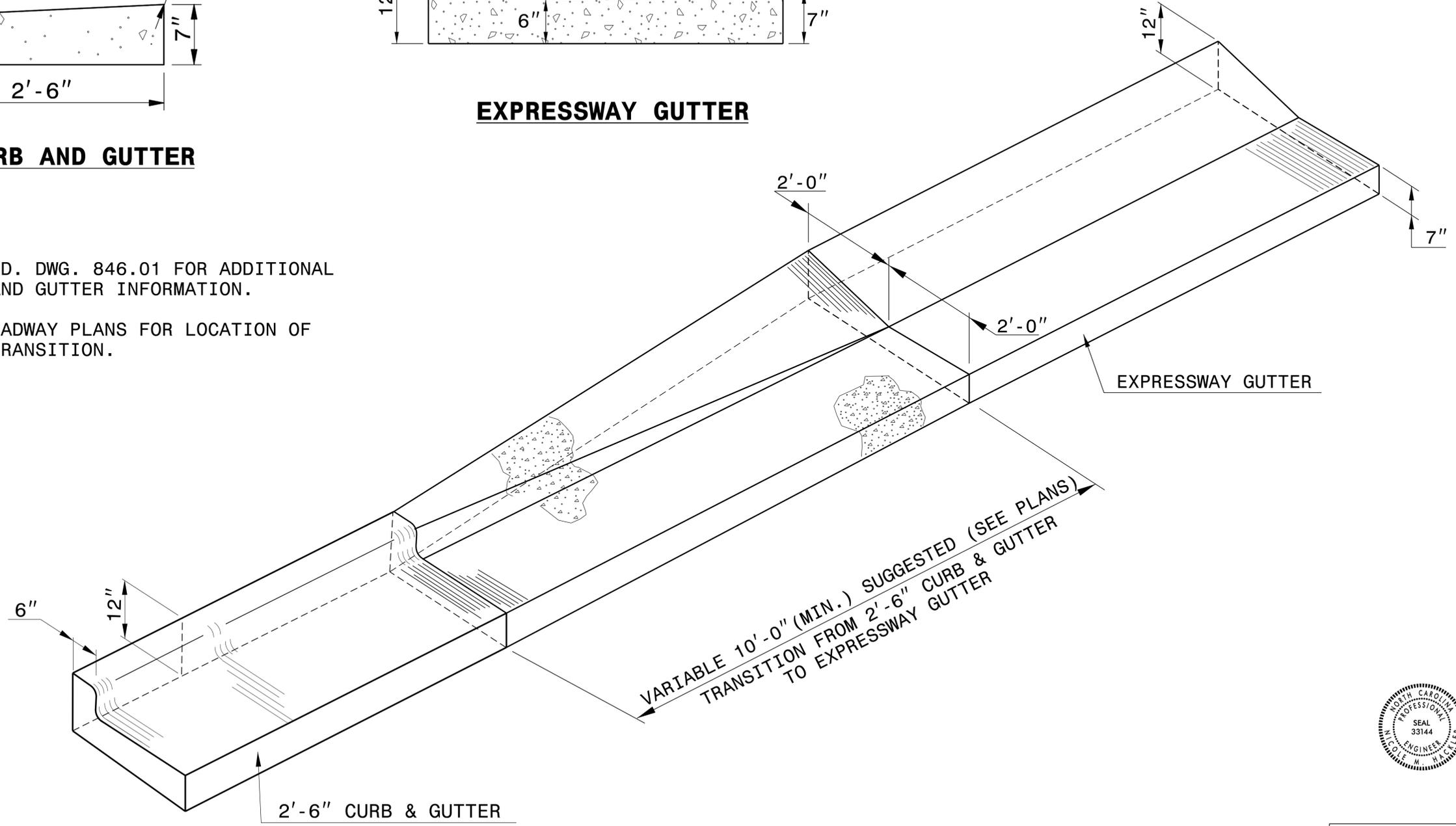


**2'-6" CURB AND GUTTER**



**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**



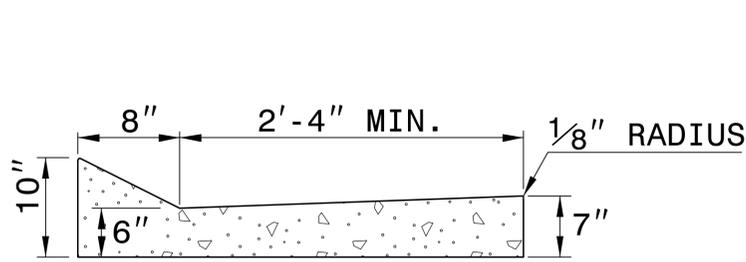
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119  
**DETAIL OF 2'-6" CURB & GUTTER TO EXPRESSWAY GUTTER TRANSITION SECTION**

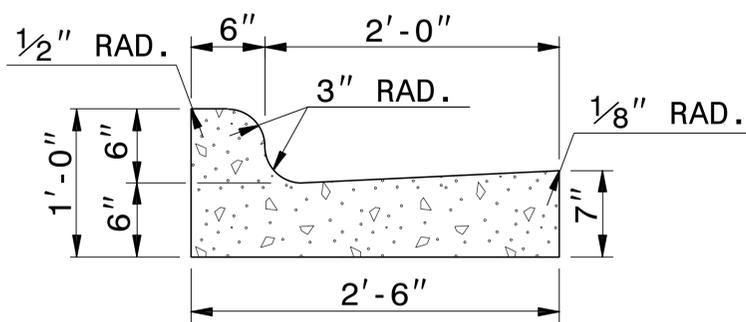
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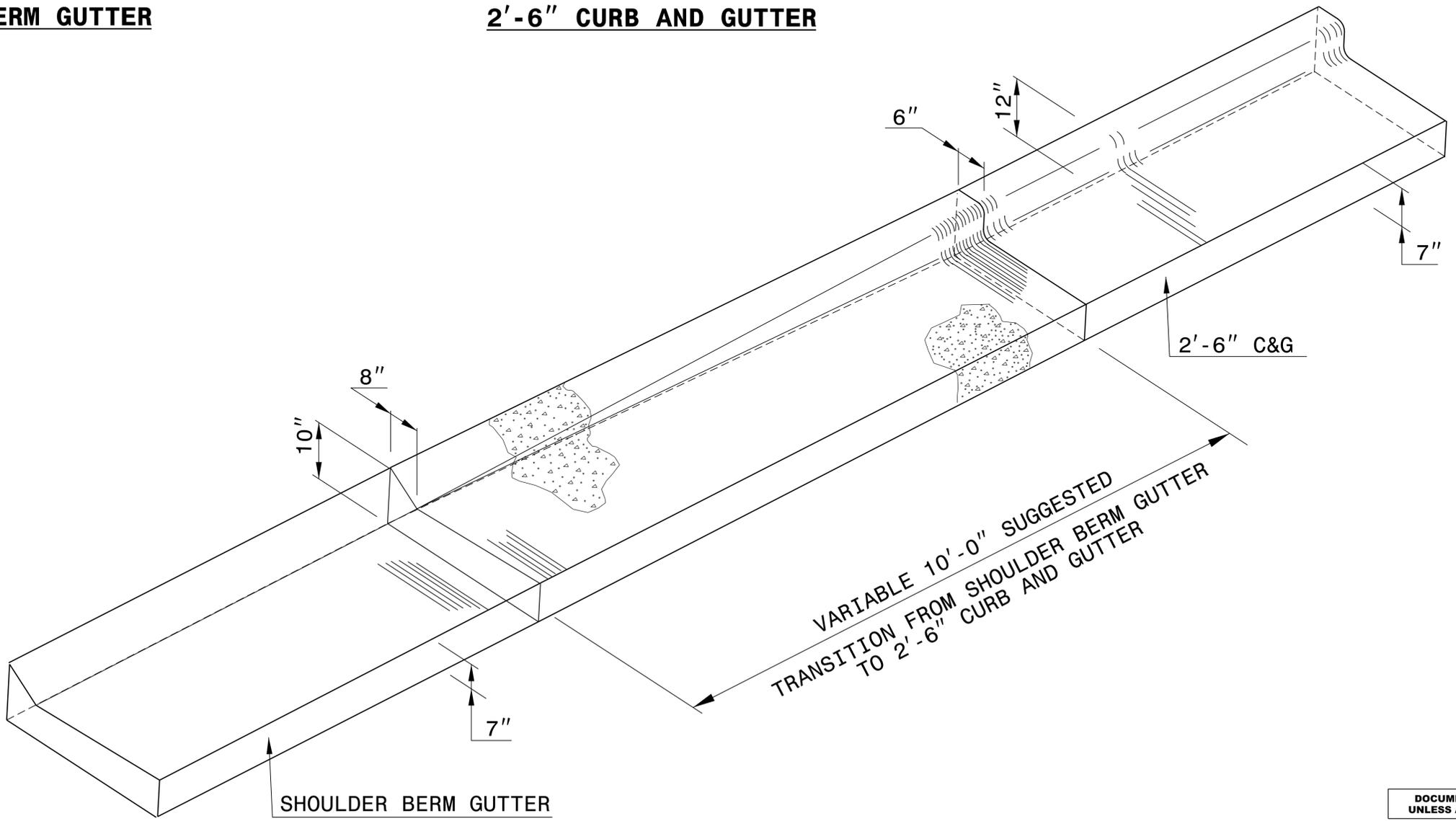


**SHOULDER BERM GUTTER**



**2'-6\"/>**

\*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

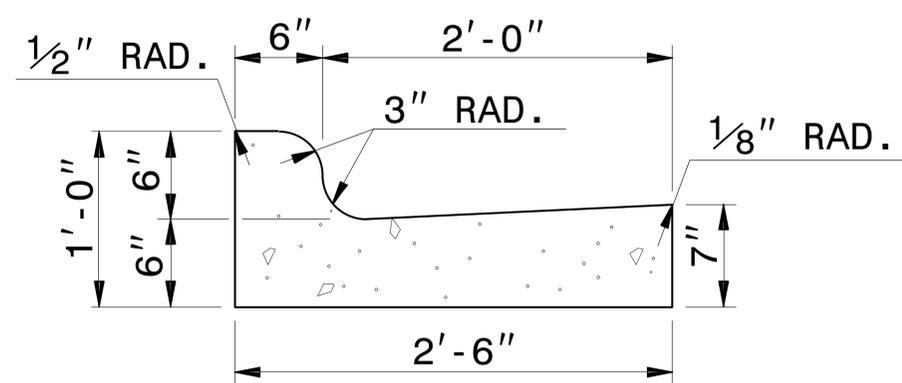
**DETAIL OF SHOULDER BERM GUTTER  
TO 2'-6\"/>**

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

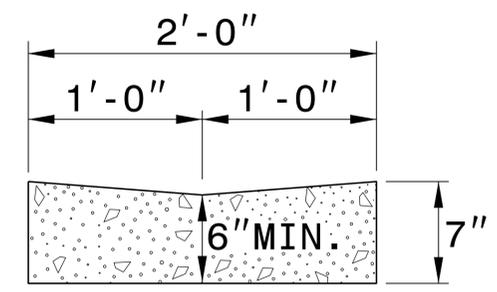
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5/14/99

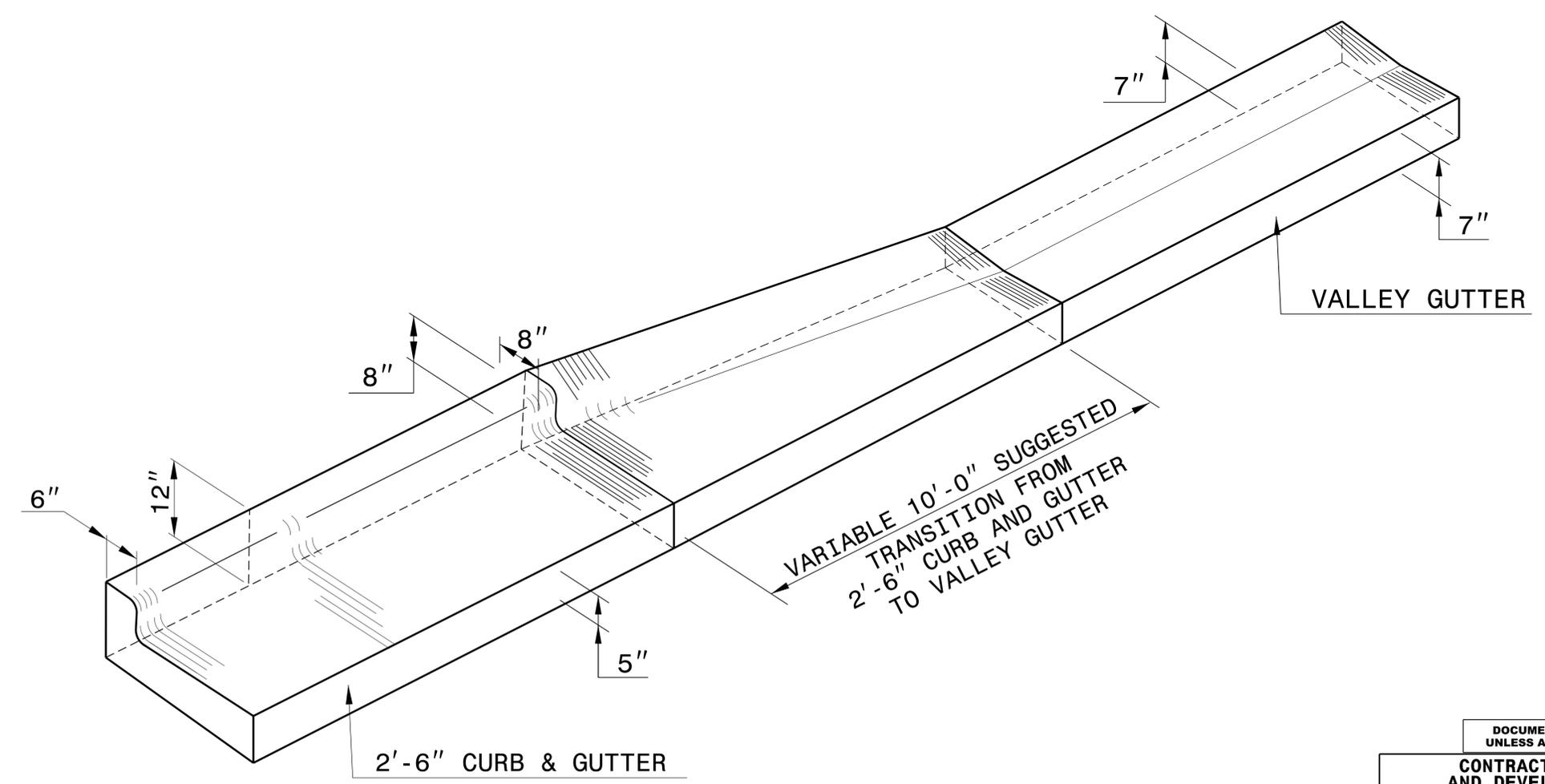
\*NOTE: SEE STD. DWG. 846.01  
FOR GENERAL NOTES



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



**VALLEY GUTTER**



**ISOMETRIC VIEW OF TRANSITION**



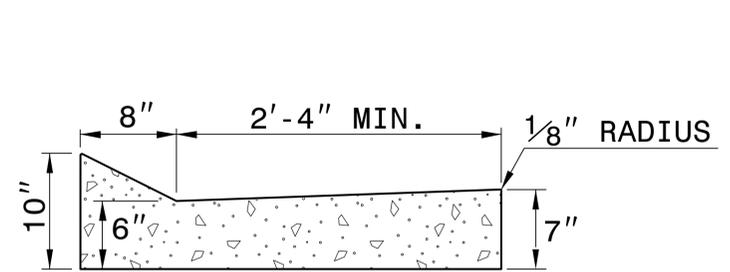
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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

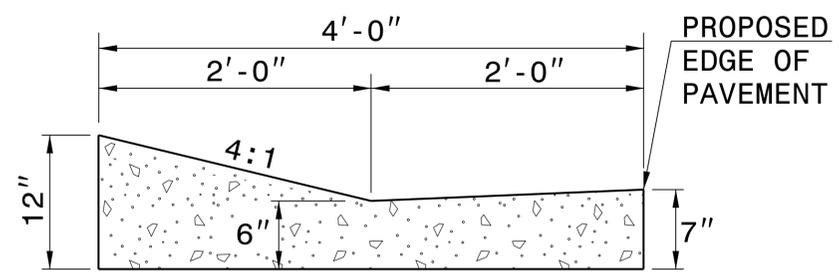
**TRANSITION FROM  
2'-6" CURB AND GUTTER  
TO VALLEY GUTTER**

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

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

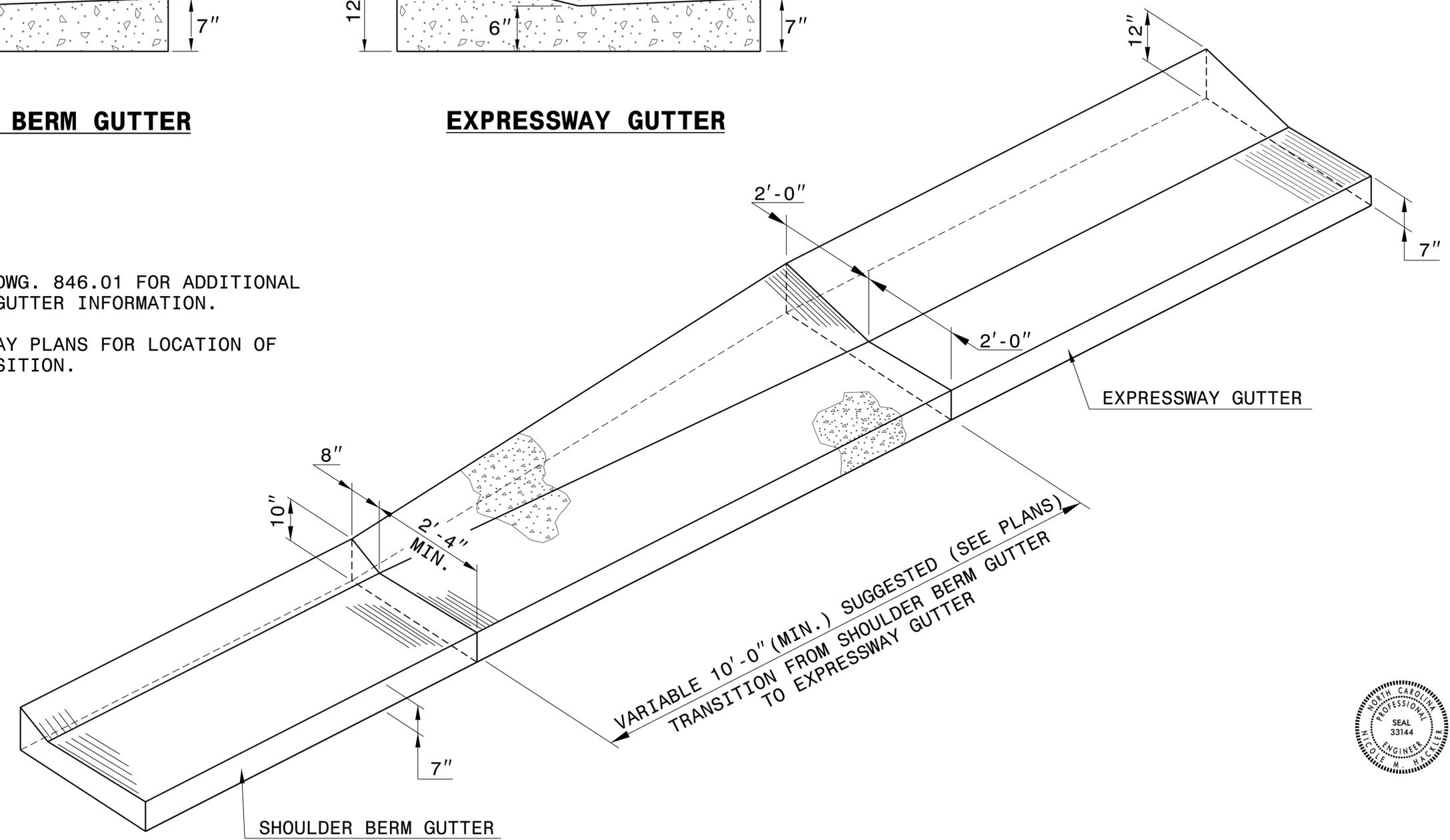


**SHOULDER BERM GUTTER**



**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

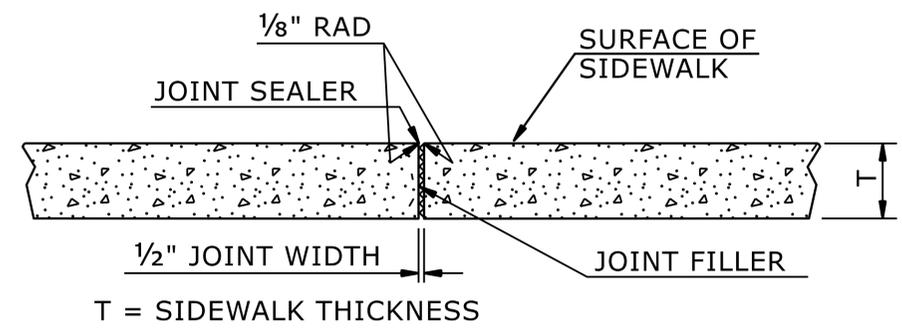
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Jhewerton AT USD-292595

NOTES:

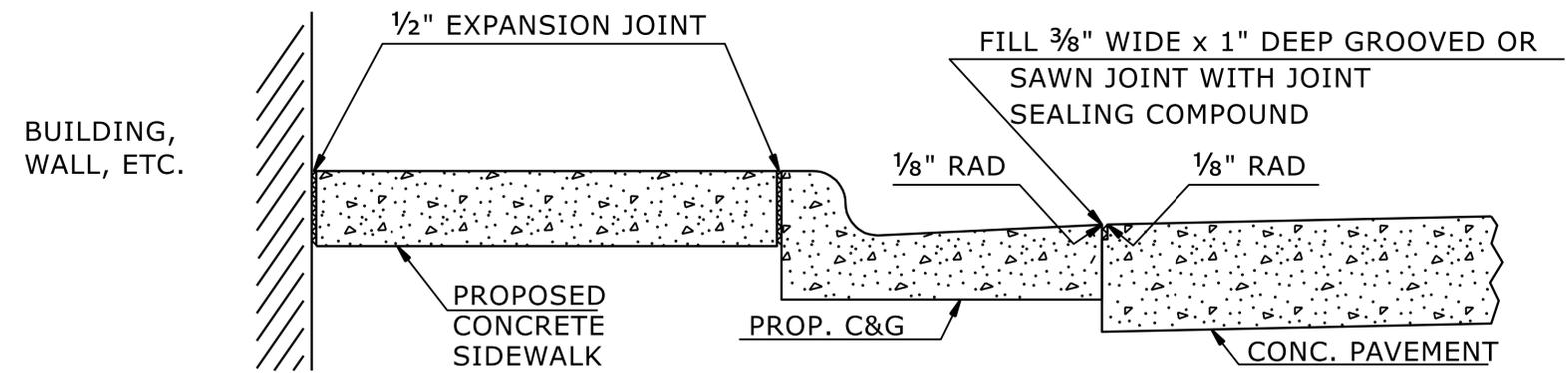
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT  
IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

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ROADWAY DETAIL DRAWING FOR  
**CONCRETE SIDEWALK**



SHEET 1 OF 1  
**848D01**

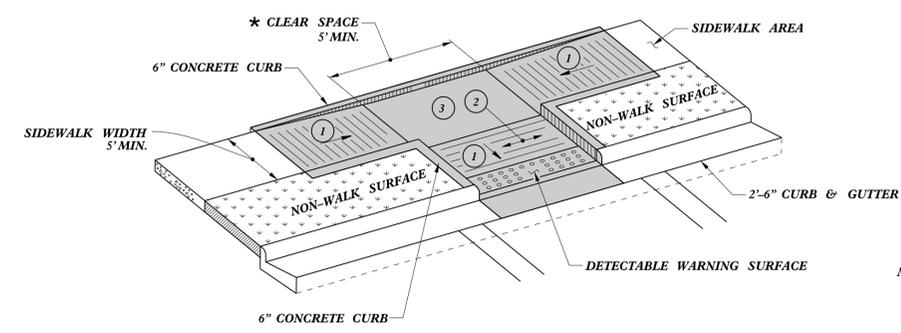
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AND DEVELOPMENT UNIT**  
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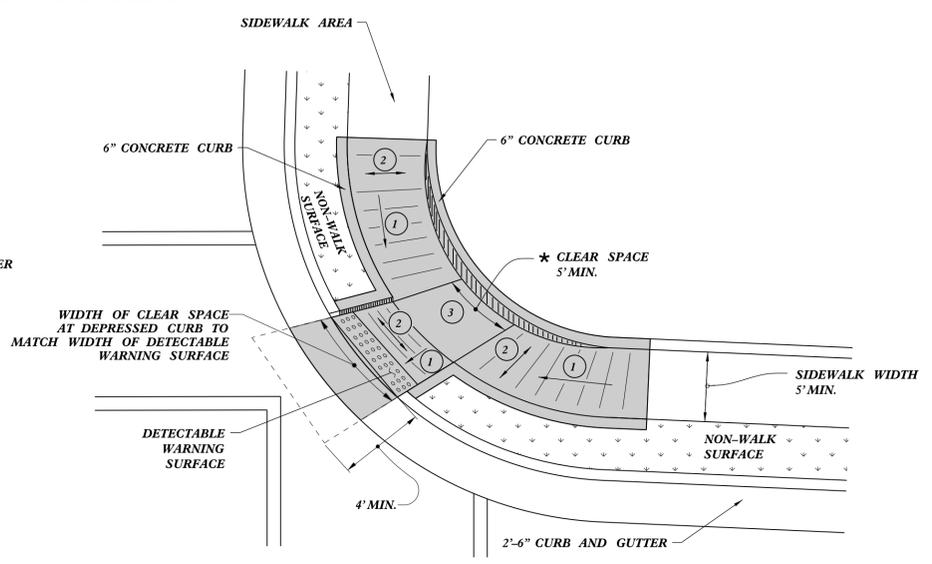
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MODIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
FILE SPEC.: \_\_\_\_\_

\* - 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.

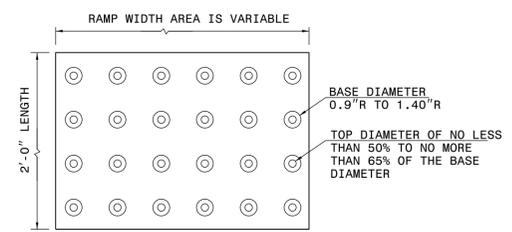


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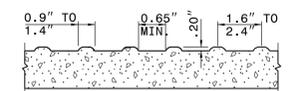


**TYPE 3 MODIFIED  
INSTALLATION IN A RADIUS**

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**



- 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

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DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR  
**CURB RAMP**  
PARALLEL RAMP

SHEET 9 OF 13  
**848D06**

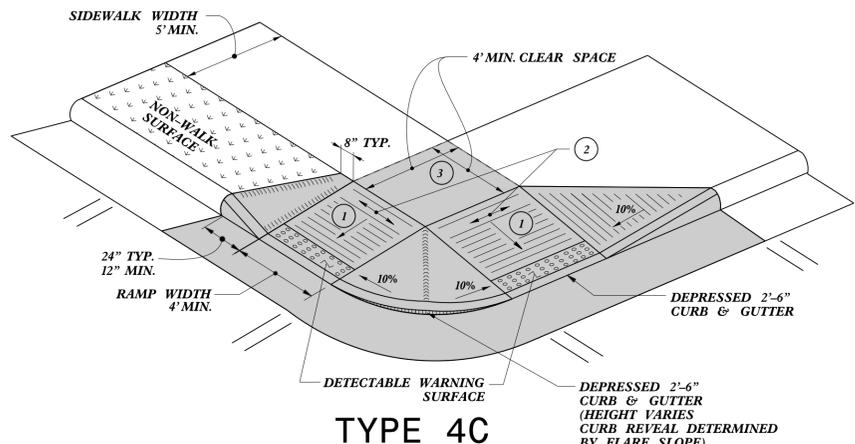
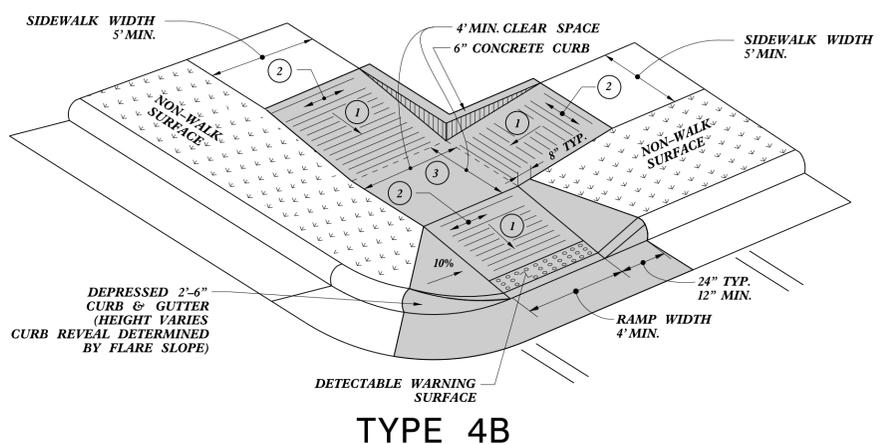
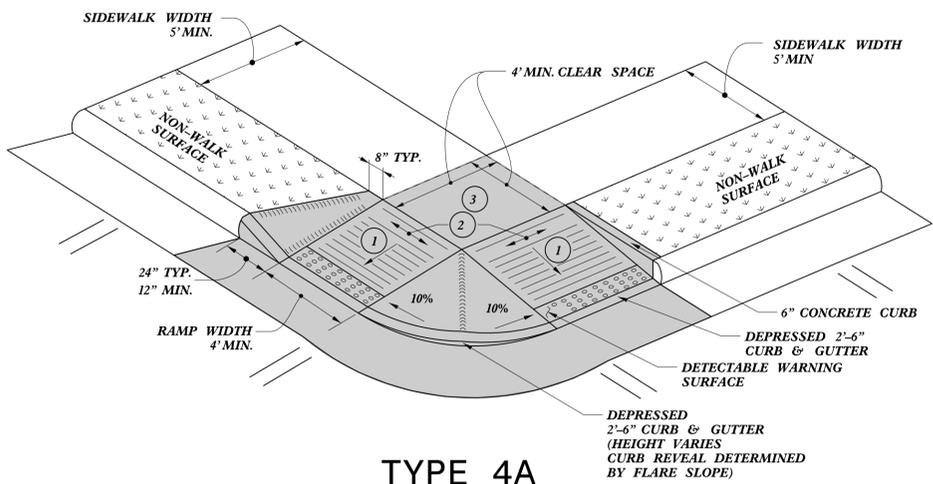
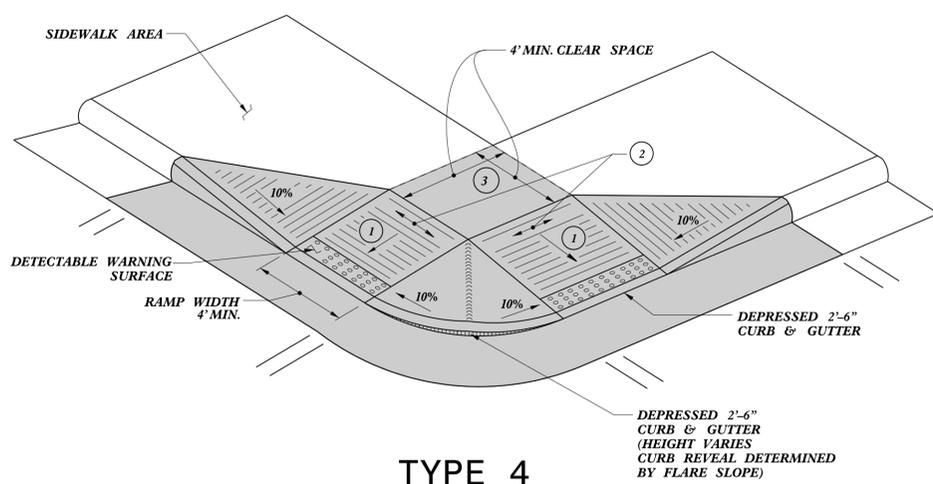


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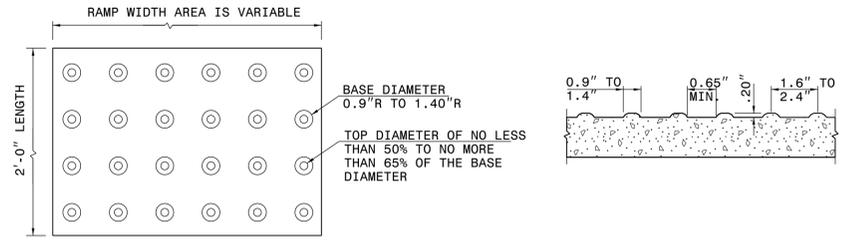
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NOTES:  
 DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.  
 DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING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

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ROADWAY DETAIL DRAWING FOR  
**CURB RAMP**  
 SHARED LANDING



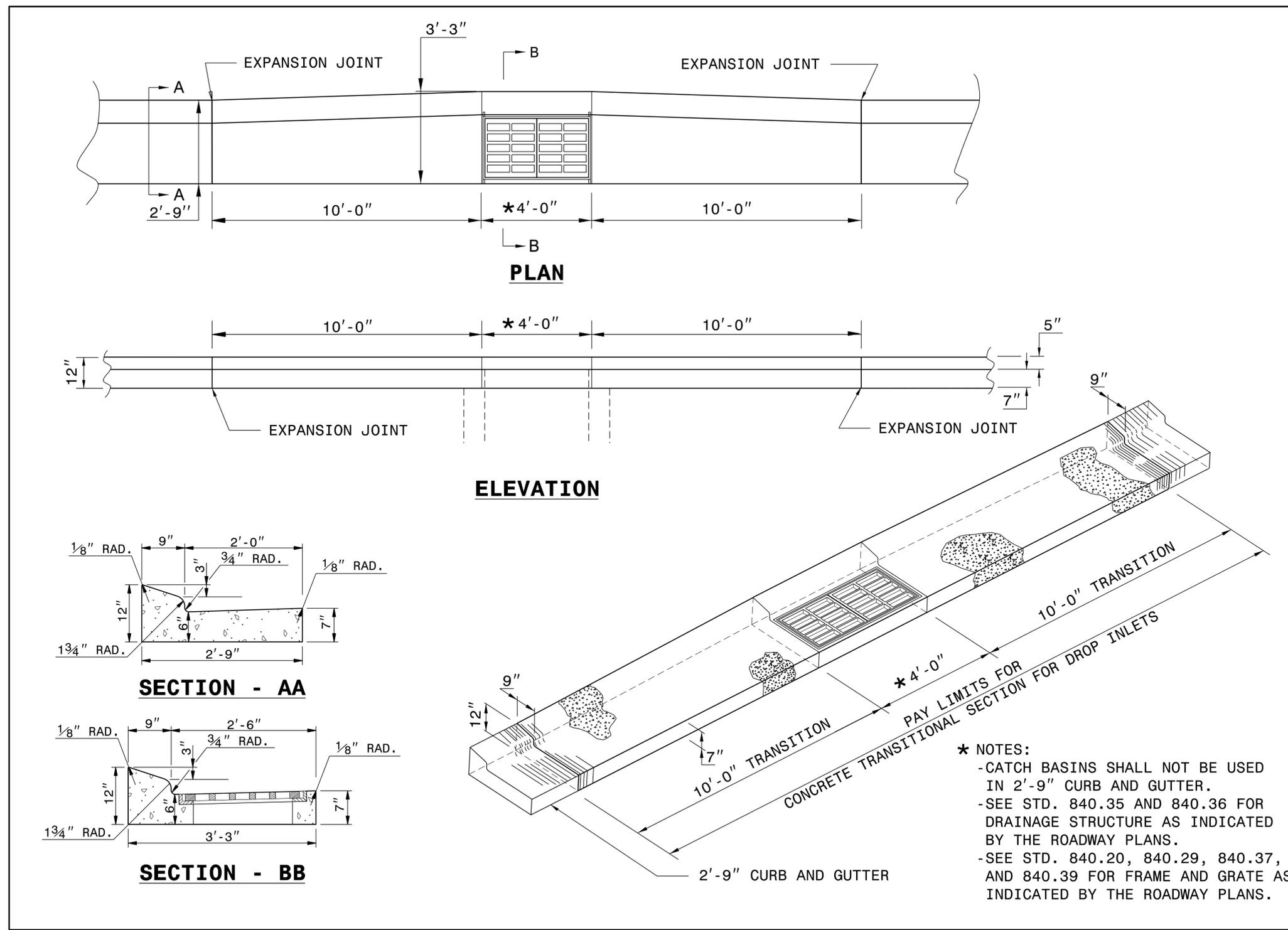
SHEET 10 OF 13  
**848D06**

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STATE OF  
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DIVISION OF HIGHWAYS  
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ROADWAY DETAIL DRAWING FOR  
**MEDIAN CURB FOR TRAFFIC BEARING**  
**GRADED DROP INLET**  
(FOR USE WITH 2'-9" CURB AND GUTTER)

SHEET 1 OF 1  
**852D07**

- \* NOTES:
- CATCH BASINS SHALL NOT BE USED IN 2'-9" CURB AND GUTTER.
  - SEE STD. 840.35 AND 840.36 FOR DRAINAGE STRUCTURE AS INDICATED BY THE ROADWAY PLANS.
  - SEE STD. 840.20, 840.29, 840.37, AND 840.39 FOR FRAME AND GRATE AS INDICATED BY THE ROADWAY PLANS.



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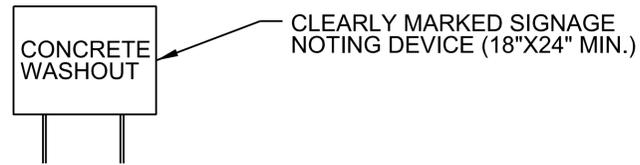
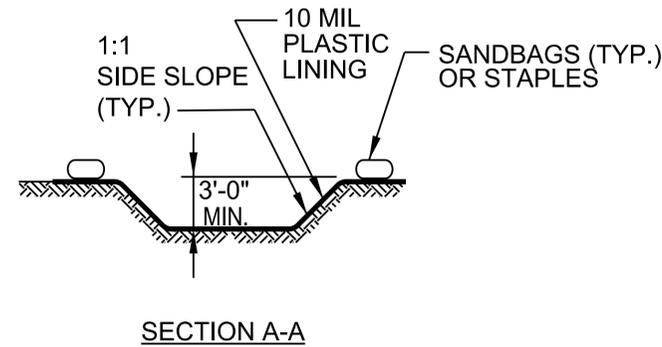
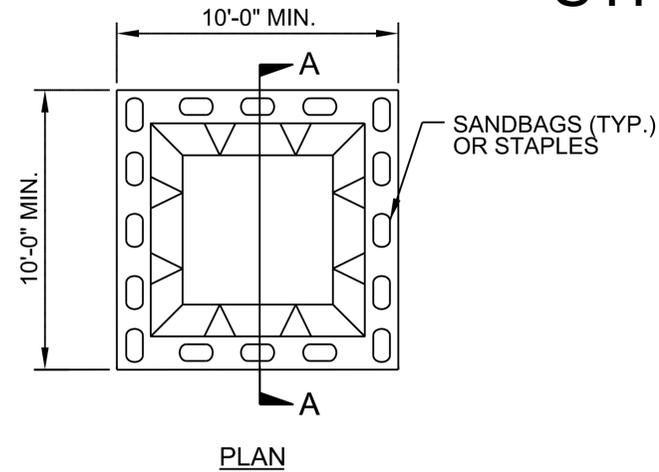
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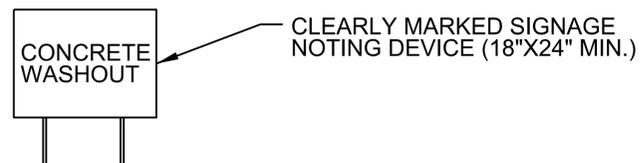
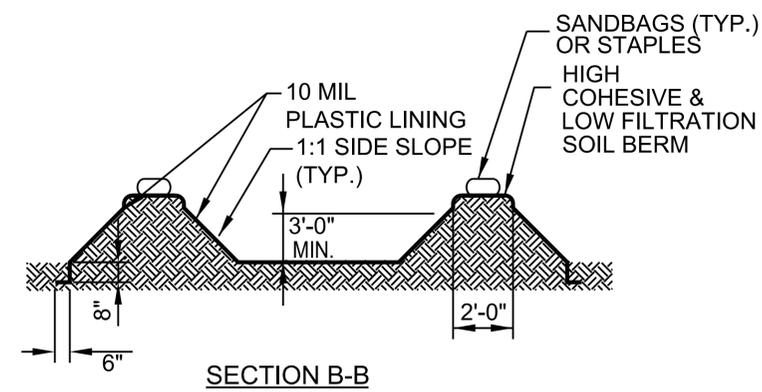
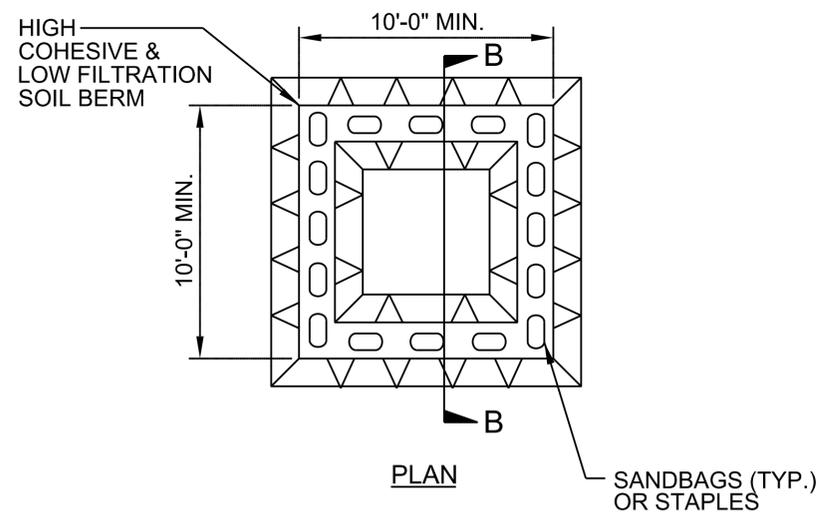
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R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# 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.