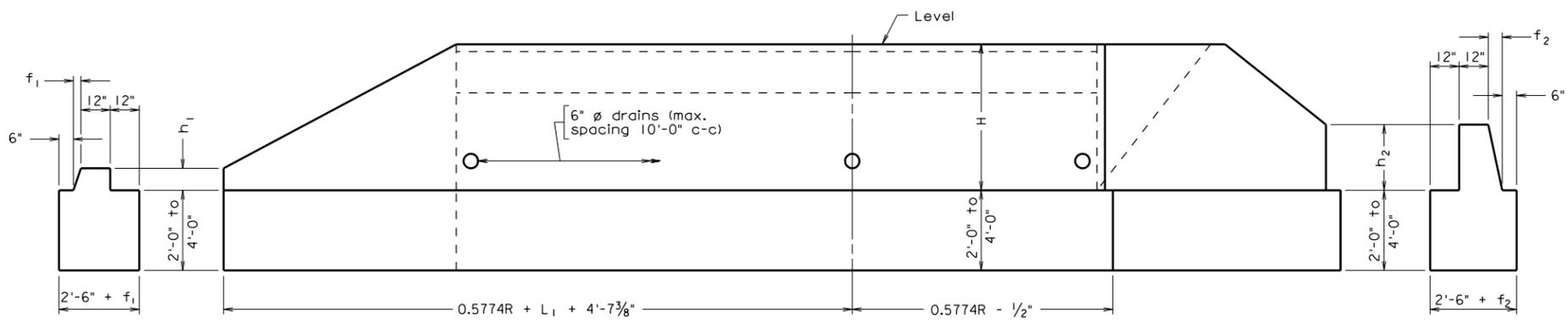
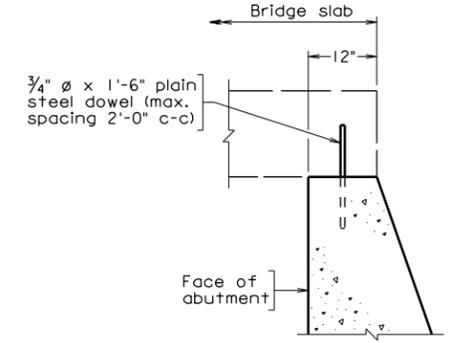


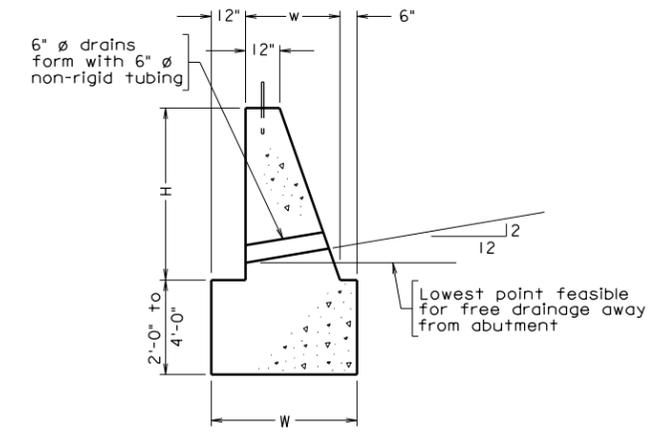
PLAN



FRONT ELEVATION



TYPICAL BRIDGE SEATS



SECTION ON C-C

DIMENSION DATA	
H =	
L ₁ =	
L ₂ =	
R =	
W =	
f ₁ =	
f ₂ =	
h ₁ =	
h ₂ =	
w =	

csa230.dgn

06-14-2010

Sealed and Signed by:
Julius F.J. Volgyi Jr.
Lic. No. 010487
On the date of
June 14, 2010

A copy of the original
sealed and signed
standard drawing
is on file in the
Central Office.

CS-A2-30

VDOT S&B DIVISION
RICHMOND, VA
STRUCTURAL ENGINEER

Not to scale

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COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION				
STRUCTURE AND BRIDGE DIVISION				
ABUTMENTS				
No.	Description	Date	Designed:	Date
			Drawn:	Plan No.
			Checked:	Sheet No.
Revisions			CS-A2-30	

CAST-IN-PLACE CONCRETE SLAB SPANS

ABUTMENTS 30° SKEW – FILL SLOPE 2 : 1

NOTES TO DESIGNER:

Standard to be used when abutments are on spread footings.

Standard is for: 30° skew
2 : 1 fill slope

TABLE OF DIMENSIONS AND QUANTITIES									
ABUTMENT*					STRAIGHT WING				
H	w	W	Neat – CY per ft. of R	12" Ftg – CY per ft. of R	L ₁	h ₁	f ₁	Neat CY	12" Footing CY
4'-0"	2'-4"	3'-10"	0.301R	0.164R	6'-0"	9"	3"	2.1	1.3
5'-0"	2'-9"	4'-3"	0.416R	0.182R	8'-0"	9"	3 1/8"	3.3	1.7
6'-0"	3'-2"	4'-8"	0.540R	0.200R	9'-0"	9"	3 1/4"	4.6	1.9
7'-0"	3'-7"	5'-1"	0.700R	0.217R	11'-0"	9"	3 1/4"	6.3	2.3
8'-0"	3'-11"	5'-5"	0.855R	0.232R	13'-0"	9"	3 1/4"	8.2	2.7
9'-0"	4'-4"	5'-10"	1.040R	0.249R	14'-0"	9"	3 3/8"	10.2	3.0
10'-0"	4'-9"	6'-3"	1.243R	0.267R	16'-0"	9"	3 3/8"	12.9	3.4
11'-0"	5'-2"	6'-8"	1.464R	0.285R	18'-0"	9"	3 3/8"	16.0	3.9
12'-0"	5'-7"	7'-1"	1.702R	0.303R	20'-0"	9"	3 3/8"	19.4	4.5
13'-0"	5'-11"	7'-5"	1.936R	0.317R	21'-0"	9"	3 3/8"	22.4	4.8
14'-0"	6'-4"	7'-10"	2.208R	0.335R	23'-0"	9"	3 3/8"	26.6	5.4
SKEWED WING									
H	L ₂	h ₂	f ₂	Neat CY	12" Footing CY	* To compute concrete quantity of the abutment, multiply volume as tabulated by R.			
4'-0"	3'-0"	2'-0"	4 1/4"	1.4	1.0				
5'-0"	4'-0"	2'-3"	5 1/2"	2.1	1.2				
6'-0"	5'-0"	2'-9"	7 1/2"	2.9	1.5				
7'-0"	6'-0"	3'-0"	8 3/4"	4.0	1.8				
8'-0"	7'-0"	3'-3"	9 3/4"	5.1	2.0				
9'-0"	8'-0"	3'-9"	12"	6.6	2.3				
10'-0"	9'-0"	4'-0"	1'-1 1/4"	8.3	2.7				
11'-0"	10'-0"	4'-3"	1'-2 5/8"	10.2	3.0				
12'-0"	11'-0"	4'-9"	1'-4 3/4"	12.6	3.4				
13'-0"	12'-0"	5'-0"	1'-5 3/4"	14.9	3.8				
14'-0"	13'-0"	5'-3"	1'-7 1/8"	17.7	4.2				

CAST-IN-PLACE CONCRETE SLAB SPANS

**ABUTMENTS
30° SKEW – FILL SLOPE 2 : 1**

NOTES TO DESIGNER(cont'd):

ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD:

PROJECT/TITLE BLOCKS:

Project block and title block shall be completed in accordance with Manual of the Structure and Bridge Division, Volume V – Part 2, Chapter 4.

DIMENSION DATA:

Enter H, L₁, L₂, R, W, h₁, h₂, f₁, f₂, and w dimensions in the DIMENSION DATA table.

TYPICAL BRIDGE SEATS:

If approach slab is required, replace details with cell BSA.

ECTION ON CENTERLINE:

If approach slab is required, replace details with cell PT4A.