

GIRDER DIMENSIONS

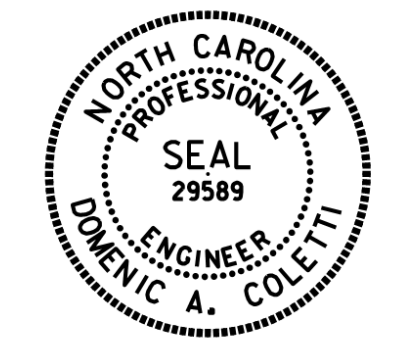
GIRDER	CL RADIUS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	2298'-0"	183'-4 <sup>5</sup> / <sub>8</sub> "	186'-2 <sup>5</sup> / <sub>8</sub> "	209'-11 <sup>7</sup> / <sub>8</sub> "	277'-4 <sup>1</sup> / <sub>8</sub> "	249'-10 <sup>1</sup> / <sub>8</sub> "	136'-4"	47'-0 <sup>5</sup> / <sub>8</sub> "	58'-5 <sup>5</sup> / <sub>8</sub> "	80'-2 <sup>3</sup> / <sub>4</sub> "	47'-6 <sup>3</sup> / <sub>8</sub> "	39'-7 <sup>7</sup> / <sub>16</sub> "	99'-0 <sup>5</sup> / <sub>8</sub> "	71'-3 <sup>1</sup> / <sub>16</sub> "	59'-5 <sup>3</sup> / <sub>16</sub> "	136'-8 <sup>1</sup> / <sub>4</sub> "	81'-2 <sup>1</sup> / <sub>16</sub> "	55'-5 <sup>5</sup> / <sub>8</sub> "	132'-2 <sup>1</sup> / <sub>16</sub> "	62'-1 <sup>1</sup> / <sub>16</sub> "	48'-11 <sup>3</sup> / <sub>16</sub> "	37'-4 <sup>1</sup> / <sub>16</sub> "	25'-0 <sup>5</sup> / <sub>8</sub> "	36'-5 <sup>5</sup> / <sub>8</sub> "	25'-6 <sup>3</sup> / <sub>16</sub> "	17'-7 <sup>7</sup> / <sub>16</sub> "	49'-3 <sup>3</sup> / <sub>16</sub> "
2	2310'-0"	184'-4 <sup>1</sup> / <sub>4</sub> "	187'-2 <sup>1</sup> / <sub>4</sub> "	211'-1 <sup>1</sup> / <sub>16</sub> "	278'-9 <sup>1</sup> / <sub>2</sub> "	251'-1 <sup>7</sup> / <sub>8</sub> "	137'-0 <sup>1</sup> / <sub>16</sub> "	47'-3 <sup>3</sup> / <sub>16</sub> "	58'-8 <sup>5</sup> / <sub>16</sub> "	80'-7 <sup>1</sup> / <sub>16</sub> "	47'-9 <sup>1</sup> / <sub>2</sub> "	39'-9 <sup>5</sup> / <sub>16</sub> "	99'-6 <sup>7</sup> / <sub>8</sub> "	71'-8 <sup>1</sup> / <sub>4</sub> "	59'-8 <sup>7</sup> / <sub>8</sub> "	137'-4 <sup>7</sup> / <sub>8</sub> "	81'-7 <sup>3</sup> / <sub>4</sub> "	55'-9 <sup>1</sup> / <sub>8</sub> "	132'-11 <sup>1</sup> / <sub>16</sub> "	62'-5 <sup>1</sup> / <sub>16</sub> "	49'-3 <sup>5</sup> / <sub>16</sub> "	37'-8 <sup>3</sup> / <sub>4</sub> "	25'-3 <sup>3</sup> / <sub>16</sub> "	36'-8 <sup>5</sup> / <sub>16</sub> "	25'-9 <sup>1</sup> / <sub>2</sub> "	17'-9 <sup>5</sup> / <sub>16</sub> "	49'-8 <sup>1</sup> / <sub>4</sub> "
3	2322'-0"	185'-3 <sup>5</sup> / <sub>16</sub> "	188'-1 <sup>5</sup> / <sub>16</sub> "	212'-2 <sup>3</sup> / <sub>16</sub> "	280'-2 <sup>7</sup> / <sub>8</sub> "	252'-5 <sup>5</sup> / <sub>8</sub> "	137'-9 <sup>7</sup> / <sub>16</sub> "	47'-6 <sup>1</sup> / <sub>2</sub> "	59'-0 <sup>5</sup> / <sub>8</sub> "	81'-0 <sup>3</sup> / <sub>16</sub> "	48'-0 <sup>1</sup> / <sub>2</sub> "	40'-0 <sup>7</sup> / <sub>16</sub> "	100'-1"	72'-0 <sup>3</sup> / <sub>4</sub> "	60'-0 <sup>5</sup> / <sub>8</sub> "	138'-1 <sup>3</sup> / <sub>8</sub> "	82'-0 <sup>7</sup> / <sub>8</sub> "	56'-0 <sup>3</sup> / <sub>16</sub> "	133'-7 <sup>3</sup> / <sub>8</sub> "	62'-9 <sup>1</sup> / <sub>16</sub> "	49'-8 <sup>3</sup> / <sub>16</sub> "	38'-0 <sup>5</sup> / <sub>8</sub> "	25'-6 <sup>1</sup> / <sub>2</sub> "	37'-0 <sup>5</sup> / <sub>8</sub> "	26'-0 <sup>1</sup> / <sub>2</sub> "	18'-0 <sup>7</sup> / <sub>16</sub> "	50'-0 <sup>3</sup> / <sub>4</sub> "
4	2334'-0"	186'-3 <sup>5</sup> / <sub>8</sub> "	189'-1 <sup>5</sup> / <sub>8</sub> "	213'-3 <sup>3</sup> / <sub>8</sub> "	281'-8 <sup>1</sup> / <sub>4</sub> "	253'-9 <sup>3</sup> / <sub>8</sub> "	138'-6 <sup>3</sup> / <sub>16</sub> "	47'-9 <sup>7</sup> / <sub>16</sub> "	59'-4 <sup>1</sup> / <sub>4</sub> "	81'-5 <sup>7</sup> / <sub>8</sub> "	48'-3 <sup>1</sup> / <sub>2</sub> "	40'-2 <sup>7</sup> / <sub>8</sub> "	100'-7 <sup>5</sup> / <sub>16</sub> "	72'-5 <sup>3</sup> / <sub>16</sub> "	60'-4 <sup>3</sup> / <sub>8</sub> "	138'-9 <sup>5</sup> / <sub>16</sub> "	82'-5 <sup>1</sup> / <sub>16</sub> "	56'-4 <sup>1</sup> / <sub>16</sub> "	134'-3 <sup>5</sup> / <sub>8</sub> "	63'-1 <sup>1</sup> / <sub>16</sub> "	50'-2"	38'-4 <sup>3</sup> / <sub>16</sub> "	25'-9 <sup>7</sup> / <sub>16</sub> "	37'-4 <sup>1</sup> / <sub>4</sub> "	26'-3 <sup>1</sup> / <sub>2</sub> "	18'-2 <sup>7</sup> / <sub>8</sub> "	50'-5 <sup>3</sup> / <sub>16</sub> "

STUD SPACING DIMENSIONS																							
GIRDER	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20			
1	13 SPA. @ 1'-3"	1'-4"	70 SPA. @ 1'-8"	2'-1"	2'-5 <sup>5</sup> / <sub>16</sub> "	67 SPA. @ 1'-6"	2'-5 <sup>5</sup> / <sub>16</sub> "	2'-7 <sup>3</sup> / <sub>8</sub> "	50 SPA. @ 1'-6"	2'-7 <sup>3</sup> / <sub>8</sub> "	2'-4"	60 SPA. @ 1'-4 <sup>1</sup> / <sub>2</sub> "	2'-4"	2'-0 <sup>5</sup> / <sub>16</sub> "	57 SPA. @ 1'-8"	2'-0 <sup>5</sup> / <sub>16</sub> "	2'-0 <sup>1</sup> / <sub>2</sub> "	76 SPA. @ 1'-8"	2'-0 <sup>1</sup> / <sub>2</sub> "	2'-6 <sup>1</sup> / <sub>8</sub> "			
2	16 SPA. @ 1'-3"	0'-11"	76 SPA. @ 1'-6"	2'-1 <sup>3</sup> / <sub>4</sub> "	2'-3 <sup>1</sup> / <sub>4</sub> "	87 SPA. @ 1'-2"	2'-3 <sup>1</sup> / <sub>4</sub> "	2'-3 <sup>7</sup> / <sub>8</sub> "	57 SPA. @ 1'-4"	2'-3 <sup>7</sup> / <sub>8</sub> "	2'-3 <sup>3</sup> / <sub>4</sub> "	83 SPA. @ 1'-0"	2'-3 <sup>3</sup> / <sub>4</sub> "	2'-5 <sup>7</sup> / <sub>16</sub> "	71 SPA. @ 1'-4"	2'-5 <sup>7</sup> / <sub>16</sub> "	1'-11 <sup>3</sup> / <sub>16</sub> "	102 SPA. @ 1'-3"	1'-11 <sup>3</sup> / <sub>16</sub> "	2'-0 <sup>7</sup> / <sub>16</sub> "			
3	16 SPA. @ 1'-3"	0'-11"	76 SPA. @ 1'-6"	2'-10 <sup>7</sup> / <sub>16</sub> "	2'-6 <sup>9</sup> / <sub>16</sub> "	87 SPA. @ 1'-2"	2'-6 <sup>9</sup> / <sub>16</sub> "	2'-6 <sup>1</sup> / <sub>16</sub> "	57 SPA. @ 1'-4"	2'-6 <sup>1</sup> / <sub>16</sub> "	2'-6 <sup>1</sup> / <sub>16</sub> "	83 SPA. @ 1'-0"	2'-6 <sup>1</sup> / <sub>16</sub> "	2'-8 <sup>1</sup> / <sub>2</sub> "	71 SPA. @ 1'-4"	2'-8 <sup>1</sup> / <sub>2</sub> "	2'-3 <sup>1</sup> / <sub>16</sub> "	102 SPA. @ 1'-3"	2'-3 <sup>1</sup> / <sub>16</sub> "	2'-4 <sup>1</sup> / <sub>16</sub> "			
4	16 SPA. @ 1'-3"	1'-4"	69 SPA. @ 1'-8"	2'-2 <sup>3</sup> / <sub>16</sub> "	2'-6 <sup>7</sup> / <sub>8</sub> "	68 SPA. @ 1'-6"	2'-6 <sup>7</sup> / <sub>8</sub> "	2'-2 <sup>1</sup> / <sub>16</sub> "	44 SPA. @ 1'-9"	2'-2 <sup>1</sup> / <sub>16</sub> "	2'-4 <sup>1</sup> / <sub>16</sub> "	67 SPA. @ 1'-3"	2'-4 <sup>1</sup> / <sub>16</sub> "	2'-0 <sup>1</sup> / <sub>8</sub> "	61 SPA. @ 1'-7"	2'-0 <sup>1</sup> / <sub>8</sub> "	2'-2 <sup>3</sup> / <sub>4</sub> "	77 SPA. @ 1'-8"	2'-2 <sup>3</sup> / <sub>4</sub> "	2'-9"			

LIMITS OF TENSION FLANGES FOR CHARPY V-NOTCH TESTS																
GIRDER	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16
1	60'-0"	186'-2 <sup>5</sup> / <sub>8</sub> "	0'-0"	62'-0"	100'-0"	75'-0"	100'-0"	92'-0"	32'-0"	36'-0"	26'-0"	26'-0"	43'-0"	42'-0"	57'-0"	55'-0"
2	55'-0"	75'-0"	66'-0"	55'-0"	90'-0"	75'-0"	96'-0"	85'-0"	32'-0"	39'-0"	26'-0"	28'-0"	43'-0"	44'-0"	57'-0"	55'-0"
3	56'-0"	82'-0"	72'-0"	57'-0"	96'-0"	71'-0"	102'-0"	87'-0"	32'-0"	40'-0"	26'-0"	28'-0"	43'-0"	44'-0"	62'-0"	55'-0"
4	59'-0"	189'-1 <sup>5</sup> / <sub>8</sub> "	0'-0"	63'-0"	106'-0"	75'-0"	110'-0"	92'-0"	32'-0"	40'-0"	26'-0"	26'-0"	43'-0"	43'-0"	62'-0"	55'-0"

GIRDER FLANGE WIDTHS											
GIRDER	FLANGE	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10
1, 2 & 3	TOP	22"	22"	20"	22"	20"	30"	24"	30"	24"	22"
	BOTTOM	24"	24"	24"	24"	24"	34"	26"	34"	28"	28"
4	TOP	22"	22"	20"	22"	20"	32"	24"	36"	26"	24"
	BOTTOM	24"	28"	24"	28"	26"	36"	26"	40"	32"	30"

NOTE  
SEE "SUPERSTRUCTURE GIRDER DETAILS, UNIT 2" SHEET FOR NOTES.

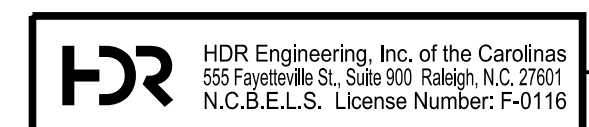


Dominic A. Coletti 10/15/2021

PROJECT NO. U-2579AB  
FORSYTH COUNTY  
 STATION: 58+33.94 -Y15FLYCA-

SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUPERSTRUCTURE GIRDER DETAILS UNIT 1					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1	--	--	3	--	--
2	--	--	4	--	--
					SHEET NO. S06-035 TOTAL SHEETS 129



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLOT DRIVER: NCDOT... PENTABLE: NCDOT STRUCTURES DEFAULT PEN.tbl  
 USER: PPEIERSO DATE: 10/14/2021 TIME: 5:14:22 PM  
 FILE: ... \ASUPERS

DES BY: <u>G. SCHMITZ</u>	DATE: <u>07/19</u>	DWG BY: <u>T. SAS</u>	DATE: <u>08/19</u>
DES CHK: <u>D. OLDS</u>	DATE: <u>08/19</u>	CHK BY: <u>G. SCHMITZ</u>	DATE: <u>09/19</u>