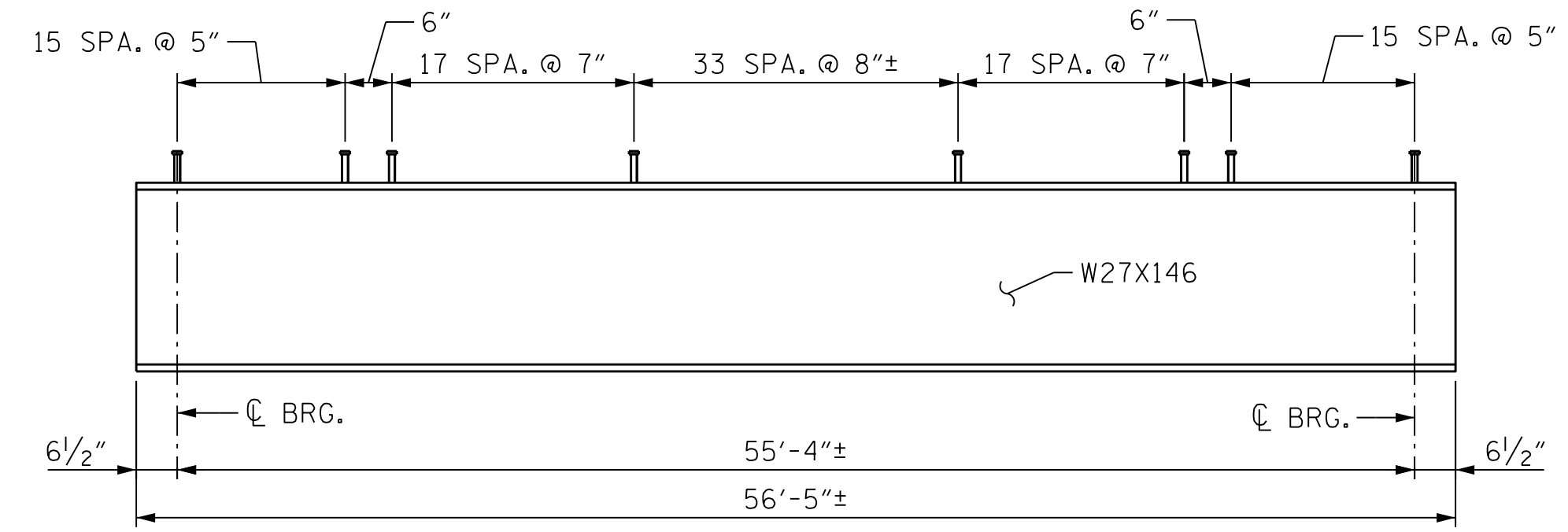
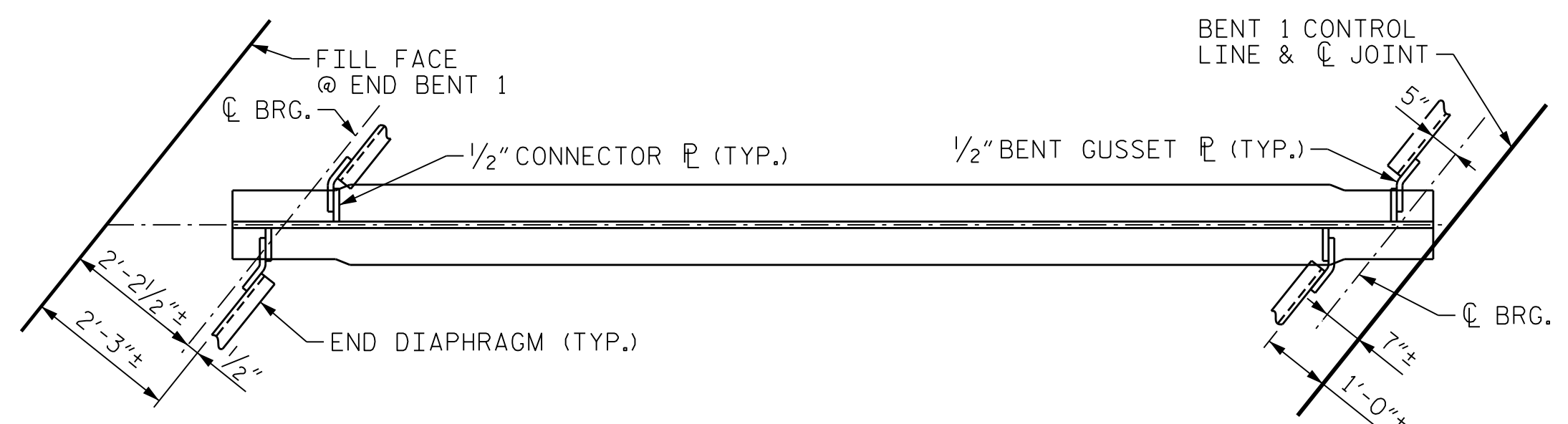


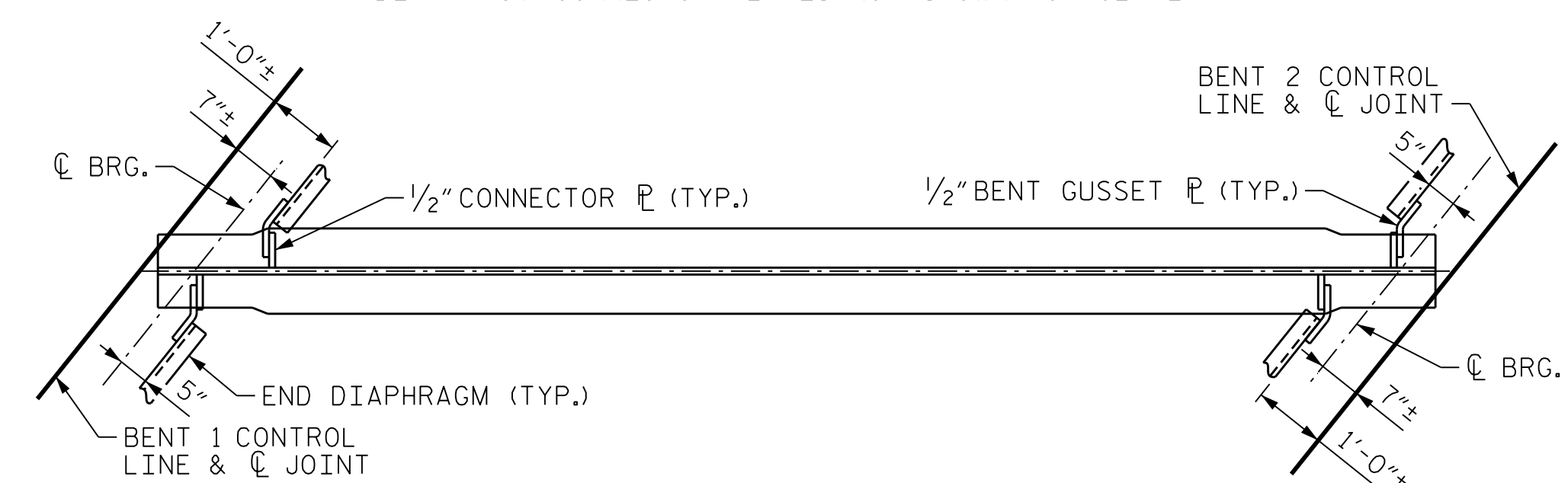
SPAN A ELEVATION
(DIAPHRAGM CONNECTOR PLATES NOT SHOWN FOR CLARITY)



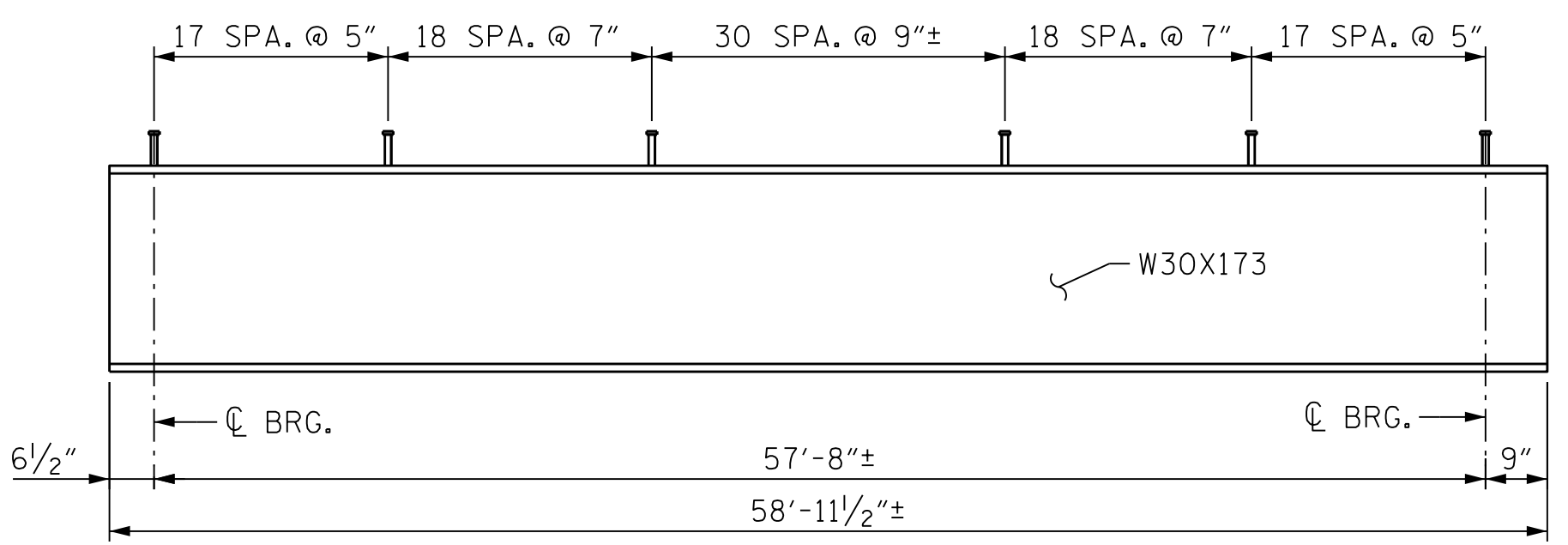
SPAN B ELEVATION
(DIAPHRAGM CONNECTOR PLATES NOT SHOWN FOR CLARITY)



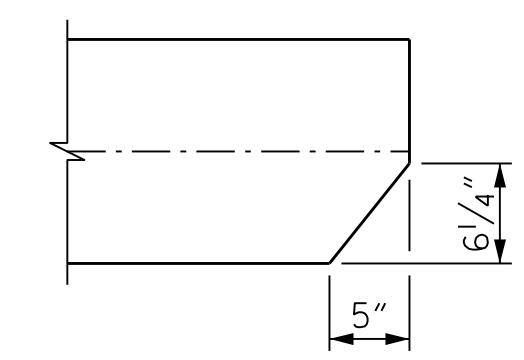
SPAN A PLAN OF BOTTOM FLANGE
(INTERMEDIATE DIAPHRAGM CONNECTOR PLATES NOT SHOWN FOR CLARITY)



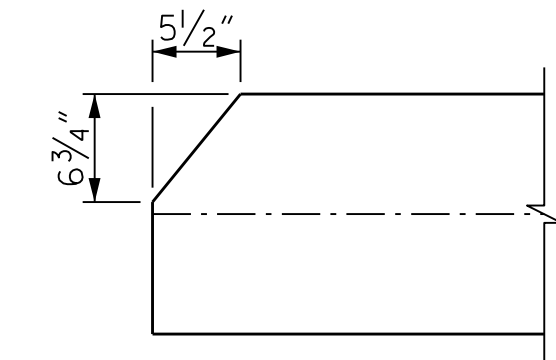
SPAN B PLAN OF BOTTOM FLANGE
(INTERMEDIATE DIAPHRAGM CONNECTOR PLATES NOT SHOWN FOR CLARITY)



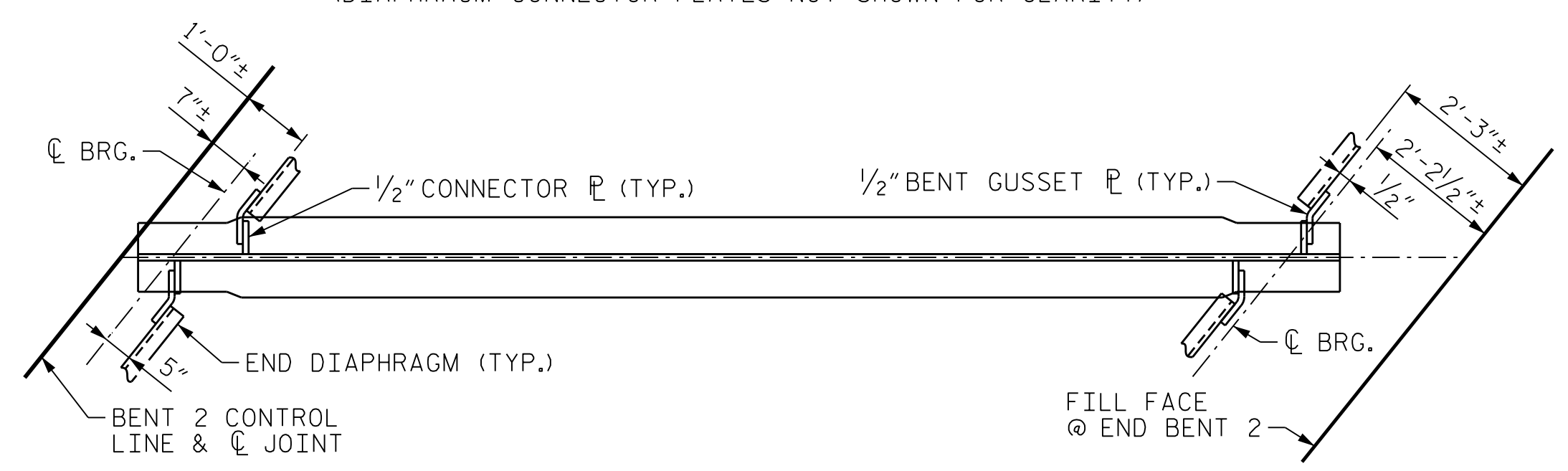
SPAN C ELEVATION
(DIAPHRAGM CONNECTOR PLATES NOT SHOWN FOR CLARITY)



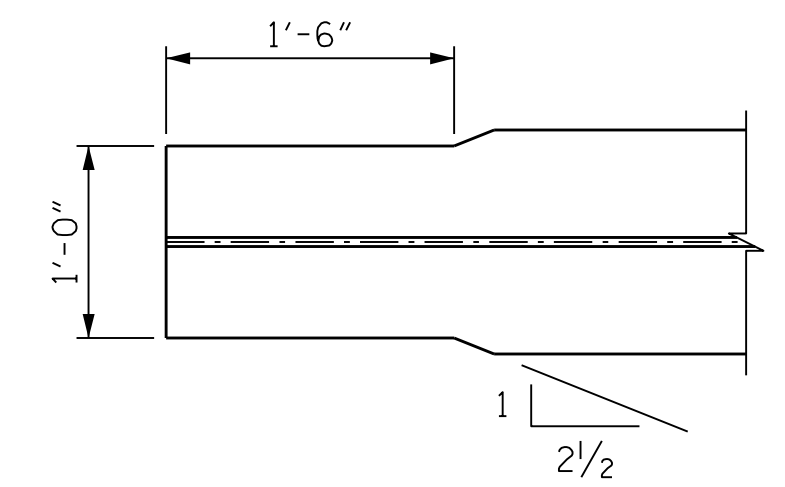
TOP FLANGE CLIP DETAIL
(TYP. SPAN A BEAMS AT BENT 1 AND SPAN B BEAMS AT BENTS 1 AND 2)



TOP FLANGE CLIP DETAIL
(TYP. SPAN C BEAMS AT BENT 2)



SPAN C PLAN OF BOTTOM FLANGE
(INTERMEDIATE DIAPHRAGM CONNECTOR PLATES NOT SHOWN FOR CLARITY)



BOTTOM FLANGE COPE DETAIL
(TYP. AT EACH END OF EACH BEAM)

NOTES

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50W AND PAINTED IN ACCORDANCE WITH SYSTEM 5 OR SYSTEM 6 OF THE STRUCTURAL STEEL SHOP COATINGS PROGRAM AND SECTION 442-8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

ALL DIMENSIONS SHOWN ARE HORIZONTAL OR VERTICAL, UNLESS OTHERWISE NOTED.

ALL FIELD CONNECTIONS TO BE 7/8" DIA. HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED.

STIFFENERS ARE NOT REQUIRED ON THE OUTSIDE OF EXTERIOR BEAMS.

A CHARPY V-NOTCH TEST IS REQUIRED ON ALL BEAM SECTIONS AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 1072-7 OF THE STANDARD SPECIFICATIONS.

WHERE DIAPHRAGMS ARE TO BE BOLTED TO EXISTING STEEL BEAMS, DO NOT REMOVE PAINT FROM THE CONTACT SURFACE.

AT DIAPHRAGMS D1, D5, D3 & D7, CONNECTION BOLTS ARE TO BE LOCATED AT THE BOTTOM OF THE CONNECTION SLOTS AND TIGHTENED TO A SNUG FIT PRIOR TO FIELD WELDING OPPOSITE END OF DIAPHRAGM, AFTER WELDING DIAPHRAGM TO CONNECTION ANGLE AND PRIOR TO THE POURING OF THE SLAB, BACK OFF BOLTS 1/2 TURN TO ALLOW FOR VERTICAL DEFLECTION OF NEW BEAM. AFTER DEFLECTIONS HAVE OCCURRED, TIGHTEN BOLTS AS REQUIRED BY THE STANDARD SPECIFICATIONS.

TENSION ON THE ASTM A325 BOLTS SHALL BE CALIBRATED USING DIRECT TENSION INDICATOR WASHERS IN ACCORDANCE WITH ARTICLE 440-8 OF THE STANDARD SPECIFICATIONS.

END OF BEAMS AND GIRDERS SHALL BE PLUMB.

END DIAPHRAGM CONNECTOR PLATES MAY REQUIRE COPING IF WIDER THAN BOTTOM FLANGE.

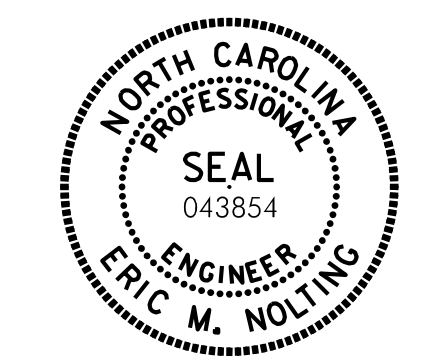
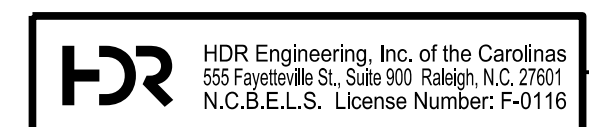
FABRICATORS SHALL DETAIL DIAPHRAGM MEMBERS AND CONNECTIONS FOR FULL DEAD LOAD FIT UP. GIRDERS SHALL BE PLUMB AFTER THE FULL AMOUNT OF DEAD LOAD IS APPLIED.

ERECTION NOTE

DURING BEAM ERECTION PROCEDURE, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY LATERAL BRACING AND OTHER MEANS OF SUPPORT, AS REQUIRED TO ENSURE STABILITY OF THE BEAMS AND TO ENSURE PLUMBNESS OF THE BEAMS IN THE FINAL POSITION.

PLOT DRIVER: NCDOT_STRUCTURES_DEFAULT_PLOTTER.plt
 PENTABLE: NCDOT_STRUCTURES_DEFAULT_PEN.tbl
 USER: PPETERSO
 DATE: 1/24/2022
 TIME: 2:37:35 PM
 FILE: ...\\404.080.858983186.SMU.SS.017.430107.dgn

DES BY: E. NOLTING	DATE: 04/21	DWG BY: B. PETERSON	DATE: 05/21
DES CHK: B. ROGERS	DATE: 05/21	CHK BY: B. ROGERS	DATE: 06/21



Eric Nolting 1/25/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT NO. B-3186/B-5898
HAYWOOD COUNTY
 STATION: 68+65.75± -L-RT-

SHEET 1 OF 4

REVISIONS						SHEET NO. S03R-17
NO.	BY:	DATE:	NO.	BY:	DATE:	
1	--	--	3	--	--	TOTAL SHEETS 61
2	--	--	4	--	--	

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**SUPERSTRUCTURE
 STRUCTURAL STEEL
 DETAILS**