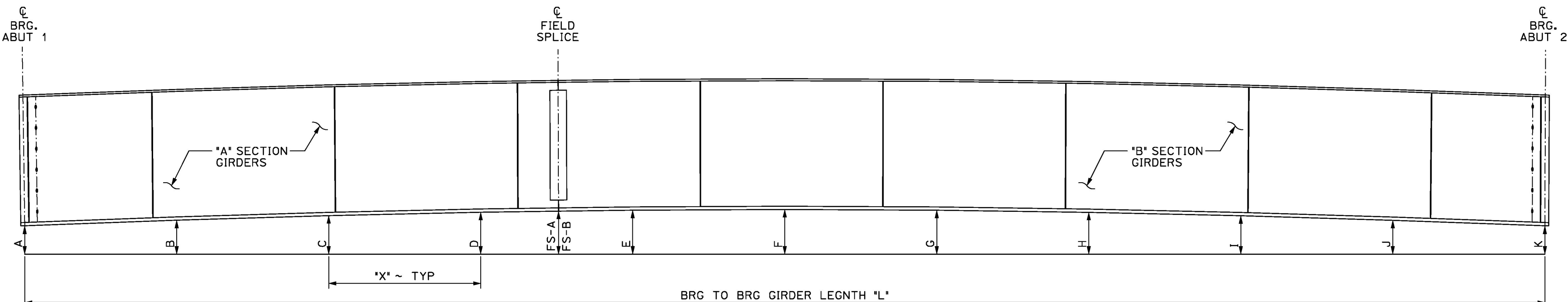


GIRDER	'D' DIMENSION
G1	48'-0"
G2	48'-0"
G3	51'-0"
G4	45'-0"
G5	48'-0"

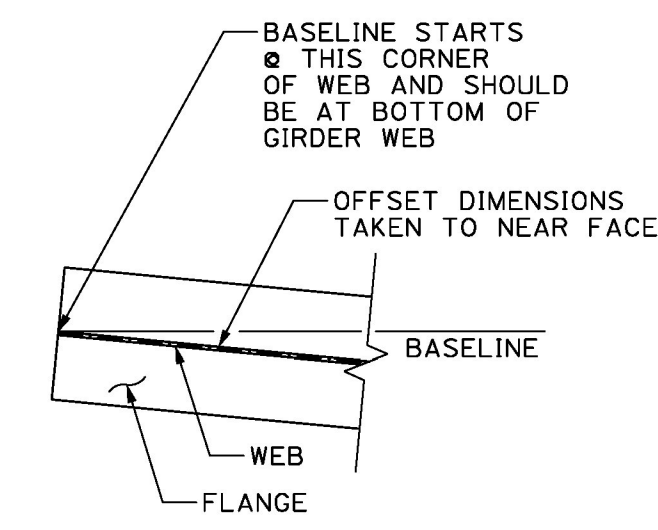
FRAMING PLAN
SCALE: 1/8" = 1'-0"



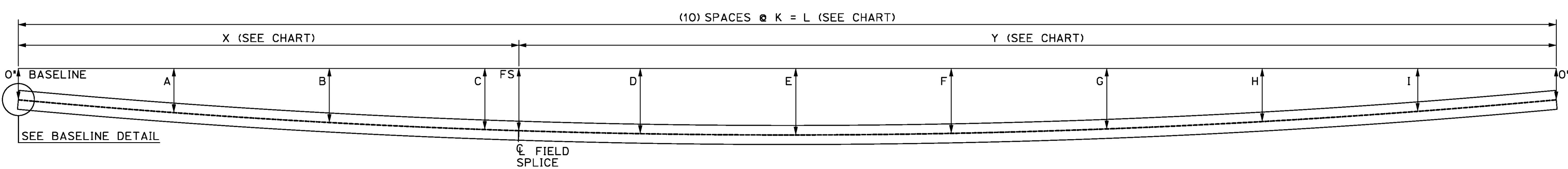
BLOCKING DIAGRAM ~ SEE CHART

NTS
ALL DIMENSIONS ARE TO THE OUTSIDE OF BOTTOM FLANGES

GIRDER	BRG TO BRG GIRDER LENGTH 'L'	10 SPACES AT 'X'	ABUT 1 'A'	0.10L 'B'	0.20L 'C'	0.30L 'D'	FIELD SPLICE		0.40L 'E'	0.50L 'F'	0.60L 'G'	0.70L 'H'	0.80L 'I'	0.90L 'J'	ABUT 2 'K'
							FS-A	FS-B							
GIRDER 1	142'-6 1/16"	14'-3 1/16"	6'	8 5/8"	11"	1'-0 3/4"	1'-0 3/4"	1'-0 3/4"	1'-1 1/16"	1'-1 1/16"	1'-1 1/16"	1'-0 3/8"	11"	8 3/8"	6"
GIRDER 2	143'-10 3/16"	14'-4 1/16"	6'	8 3/8"	11 1/2"	1'-1"	1'-1 5/16"	1'-1 5/16"	1'-2"	1'-2 1/8"	1'-2"	1'-1"	11 1/2"	8 7/8"	6"
GIRDER 3	145'-2 3/8"	14'-6 1/4"	6'	9 3/8"	11 1/8"	1'-1 3/4"	1'-2 3/8"	1'-2 3/8"	1'-2 19/16"	1'-3 3/8"	1'-2 19/16"	1'-1 3/4"	11 1/16"	9 1/8"	6"
GIRDER 4	146'-6 1/8"	14'-7 1/16"	6'	9 3/8"	11"	1'-0 3/8"	1'-2 1/16"	1'-2 1/16"	1'-3 3/4"	1'-4 1/4"	1'-3 3/4"	1'-2 1/16"	11"	9 1/8"	6"
GIRDER 5	147'-9 1/16"	14'-9 7/16"	6'	9 3/4"	11"	1'-0 7/8"	1'-3 1/4"	1'-3 1/4"	1'-4 3/4"	1'-5 1/4"	1'-4 3/4"	1'-3 1/4"	11"	9 3/4"	6"



BASELINE DETAIL
N.T.S.



ASSEMBLED GIRDER SWEEP DETAIL
SCALE: 1/8" = 1'-0"

GIRDER	SWEEP DIMENSIONS													
	K	L	X	Y	A	B	C	FS	D	E	F	G	H	I
G1	14'-3 3/4"	143'-1 1/16"	48'-3 3/8"	94'-9 3/4"	1'-2 1/4"	2'-1 1/8"	2'-8 1/8"	2'-11 1/8"	3'-1 1/8"	3'-3 3/8"	3'-1 1/8"	2'-8 1/8"	2'-1 1/8"	1'-2 1/8"
G2	14'-5 5/8"	144'-5 1/8"	48'-3 3/8"	96'-11 1/16"	1'-2 1/4"	2'-1 1/8"	2'-11 1/8"	3'-2"	3'-3 3/8"	3'-2"	2'-9 1/4"	2'-1 1/8"	1'-2 1/4"	
G3	14'-6 1/8"	145'-8 5/16"	51'-3 3/8"	94'-5 5/8"	1'-2 3/8"	2'-1 3/8"	2'-9 3/8"	3'-0 1/8"	3'-2 3/8"	3'-3 3/8"	3'-2 3/8"	2'-9 3/8"	2'-1 3/8"	1'-2 3/8"
G4	14'-8 1/8"	147'-0 3/8"	45'-3 3/8"	101'-9 7/8"	1'-2 1/2"	2'-1 1/2"	2'-9 1/2"	2'-10 1/2"	3'-2 1/2"	3'-4 1/4"	3'-2 1/2"	2'-9 1/2"	2'-1 1/2"	1'-2 1/2"
G5	14'-10"	148'-4 3/8"	48'-3 3/8"	100'-1 1/16"	1'-2 3/8"	2'-2"	2'-10 1/8"	2'-11 1/8"	3'-3"	3'-4 5/8"	3'-3"	2'-10 1/8"	2'-2 1/8"	1'-2 1/8"

GENERAL FABRICATION NOTES

- MATERIAL SPECIFICATIONS**
- ALL MATERIAL SHALL BE AASHTO M270 GRADE 50W (UNO)
 - ALL M270 GRADE 50 MATERIAL DENOTED "CVN" SHALL MEET THE CHARPY V-NOTCH TESTING REQUIREMENTS OF ZONE 2, H FREQUENCY: 15 FT-LB AT 40° (UP TO 2" WELDED)
 - ITEMS SHALL CALL OUT "CVN" FOR EACH APPLICABLE ITEM IN THE BILL OF MATERIALS
 - BOLTS SHALL BE HIGH STRENGTH BOLTS ASTM A325, TYPE 3 NUTS SHALL BE A563 GRAD. G3 OR D13 WASHERS SHALL BE ASTM F436, TYPE 3
 - BOLTS AND NUTS SHALL BE ROTATIONAL CAPACITY TESTED. DO NOT MIX NUTS AND BOLTS FROM DIFFERENT CONTAINERS UNLESS ALL NUTS AND BOLTS HAVE THE SAME LOT NUMBER.
- FABRICATION**
- DIE STAMPING IS ALLOWED IN SPECIFIC LOCATIONS WITH THE APPROVAL OF THE ENGINEER.
 - ALL EDGES OF FLAME CUT MATERIAL SUBJECTED TO CALCULATED STRESSES SHALL BE ROUNDED TO A MINIMUM RADIUS OF 1/16" PER STANDARD SPEC. 506.12(d)
 - ALL PLATES, FLAME CUT FROM LARGER PLATES, SHALL BE CUT SO THAT THE PRIMARY DIRECTION OF ROLLING IS PARALLEL TO THE MAIN TENSILE OR COMPRESSIVE STRESS PER STANDARD 506.08 OF 2011 SPECIFICATIONS.
 - FLANGE PLATE MATERIAL SHALL HAVE AN EDGE HARDNESS NOT GREATER THAN HRC 30, ALLOWED PER STANDARD SPEC. 506.09.
- WELDING**
- ALL WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SUBSECTION 506.10.
 - NON DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH ANSI/AASHTO AWS D1.5 - SECTION 6. FLANGE WELDS WILL BE CALLED OUT AS BEING IN EITHER COMPRESSION OR TENSION. WEB WELDS WILL LABEL EITHER TOP OR BOTTOM AS BEING IN COMPRESSION, OR BE LABELED AS BEING IN A STRESS REVERSAL AREA.
- FLANGE SPLICES SHALL BE TESTED AS FOLLOWS:
 FLANGE SPLICES IN TENSION ~ TESTED 100%
 FLANGE SPLICES IN STRESS REVERSAL AREAS ~ TESTED 100%
 FLANGE SPLICES IN COMPRESSION ~ TESTED 25%
- WEB SPLICES SHALL BE TESTED AS FOLLOWS:
 FOR 1/8" DEPTH OF THE WEB (TENSION AREA) ~ TESTED 100%
 FOR THE REMAINING 7/8" DEPTH OF THE WEB (COMPRESSION AREA) ~ TESTED 25%
 FOR 1/6" DEPTH OF THE WEB @ TOP & BTM (STRESS REVERSAL) ~ TESTED 100%
 THE REMAINING 5/6" OF THE WEB ~ TESTED 25%
- TERMINATE STIFFENER WELDS AS SHOWN IN THE "WELD TERMINATION DETAILS" ON SHEETS M2 & M3
- FIELD CONNECTIONS**
- FIELD BOLTS SHALL HAVE A HEAVY HEX NUT, HEX HEAD, AND ONE HARDENED WASHER EACH.
 - PIECE MARKS WILL BE LOCATED AS SHOWN ON ERECTION DRAWINGS. ALL ERECTION MARKS, MATCH MARKS, AND WEIGHT MARKS MUST NOT BE EXPOSED IN THE FINISHED STRUCTURE.
 - HARDENED WASHERS ARE REQUIRED OVER OVERSIZED HOLES.
- CLEANING AND PAINTING**
- UNPAINTED STEEL SHALL BE BLAST CLEANED TO SSPC SP-6 TO ACHIEVE A UNIFORM WEATHERED APPEARANCE.

SHOP DRAWING REVIEW

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

REJECTED REVISE AND RESUBMIT APPROVED AS NOTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DID NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING THEIR WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING THEIR WORK IN A SAFE AND SATISFACTORY MANNER.

CLD Consulting Engineers
 540 Commercial Street
 Manchester, NH 03101
 603-668-8223

Job Number: 12-0120
 Reviewed by: JF
 Date: 11/17/15

FINISH	N/A		
MATERIAL	SEE DETAIL SHEETS		
HOLES			
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP		11/16/15	Addressed Comments
	NO	DATE	DESCRIPTION
			BY

REVISIONS

	ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME. 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
	DRAFTER: DLM DATE: OCT. 2015 CHECKED: JH DATE: OCT. 2015	PROPOSED SHOP SPLICE LOCATIONS STOWE, VT. Route 108 (Major Collector) Bridge No. 3 Project No. BRP 0235(15)

CCS CONSTRUCTORS, INC.