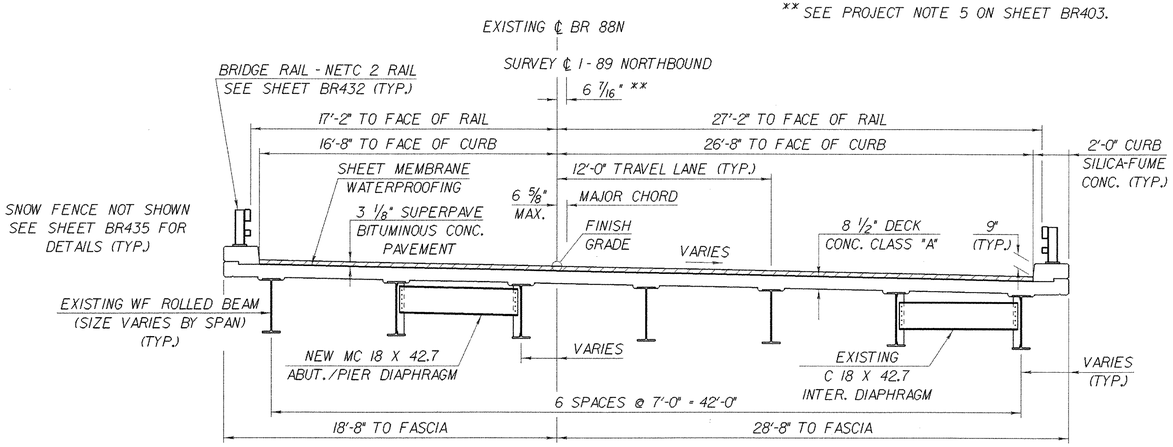
** SEE PROJECT NOTE 5 ON SHEET BR403.

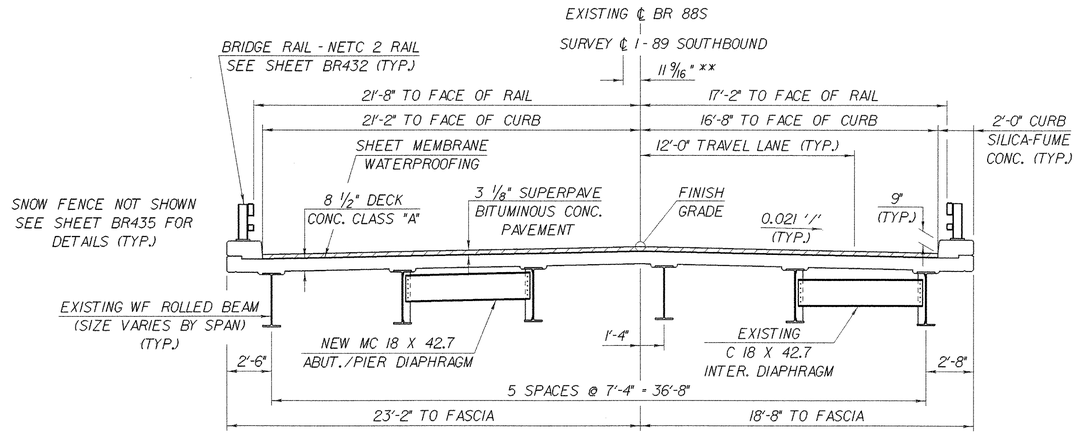


BRIDGE 88N TYPICAL SECTION

SCALE 1/4" = 1'-0

1 0 2 4 6

** SEE PROJECT NOTE 5 ON SHEET BR403.



BRIDGE 88S TYPICAL SECTION

SCALE 1/4" = 1'-0

1 0 2 4 6

NOTES

1. **SCOPE OF WORK:** FOR BOTH BRIDGES 88N AND 88S: REMOVE EXISTING CONCRETE DECK AND STEEL BEAM SUPERSTRUCTURE. PERFORM SUBSTRUCTURE CONCRETE REMOVAL AND REPAIR WORK, INCLUDING BRIDGE SEATS AND WINGWALLS, AS SHOWN IN THE DRAWINGS AND AS DIRECTED BY THE RESIDENT ENGINEER. PLACE NEW BEARINGS AT EACH SUBSTRUCTURE UNIT. SPLICE EXISTING STEEL BEAMS TO MAKE CONTINUOUS AT THE PIERS. CONSTRUCT NEW CONCRETE DECK.

2. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 1990, AND ITS LATEST REVISIONS AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 1996, AND ITS LATEST REVISIONS.

88 N & S INDEX OF SHEETS

INDEX OF SHEETS (CONT.)

* SEE TRAFFIC CONTROL SHEETS

DESIGN CRITERIA:
1. DESIGN LIVE LOAD AASHTO HS25-44
2. DESIGN SPAN NB 48 - 69 - 48 SB 53 - 74 - 53
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL N/A ON LEDGE N/A
4. ALLOWABLE LOAD FOR PILING N/A TYPE N/A ESTIMATED LENGTH N/A
5. STRUCTURAL STEEL AASHTO GRADE SEE PROJECT NOTES
6. REINFORCING STEEL GRADE 60
7. CONCRETE CLASS A f'_c : 4000 PSI
   CONCRETE CLASS B f'_c : 3500 PSI
   SILICA-FUME CONCRETE f'_c : 5000 PSI

* TRAFFIC MAINTENANCE:
1. IS TRAFFIC TO BE MAINTAINED? _____ IF YES, ON EXISTING STRUCTURE _____ OR ON TEMPORARY BRIDGE _____
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY _____ TRAFFIC CONTROL SIGNALS REQUIRED _____
   MINIMUM _____
   ARE SIDEWALKS REQUIRED? _____ IF SO, ON WHAT SIDE? _____

BR 88S LOAD FACTOR LOAD RATING (TONS)

LOADING LEVELS (LOAD FACTOR)	TRUCK						
	H	HS	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
INVENTORY A=2.17; B=1.00	22	40					
POSTED A=1.55; B=1.40	31	56	75		68	69	81
OPERATING A=1.30; B=1.67		67	89	85	82	82	

BR 88N LOAD FACTOR LOAD RATING (TONS)

LOADING LEVELS (LOAD FACTOR)	TRUCK						
	H	HS	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
INVENTORY A=2.17; B=1.00	29	53					
POSTED A=1.55; B=1.40	41	74	93		92	92	100
OPERATING A=1.30; B=1.67		89	111	107	110	110	

STRENGTH RF = $\frac{\phi M_N - 1.3\, M_{DL}}{A \times M_{LL+I}}$ SERVICEABILITY RF = B $\frac{.95\, F_y S_{LL+I} - M_{DL}\frac{S_{LL+I}}{S_{DL}} - M_{SDL}\frac{S_{LL+I}}{S_{SDL}}}{1.67\, M_{LL+I}}$

NOTE: SERVICEABILITY AT PIERS GOVERNS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of FAIRFAX-FAIRFIELD-ST. ALBANS	Bridge No. 88 N&S
Highway No. I - 89	Log Sta.
	Surv. Sta.

I-89 OVER ST. ALBANS SOUTH STATE HIGHWAY (EXIT 19)

88 N & S PRELIMINARY INFORMATION SHEET

Designed By M. LOZIER	Drawn By G. ROY
Checked By M. LOZIER Date 2/00	Bridge Design Supervisor R.R. WHITCOMB Date 2/00
PROJECT FAIRFAX-FAIRFIELD-ST. ALBANS	PROJECT NO. IM 089 - 3 (27)
I.G.C. Info. 96a056\Structures\sa056pl3.dgn	sa056pl3.1
Bridge Sheet No. BR400	Sheet 152 of 370

PLOTTED 21-SEP-2000