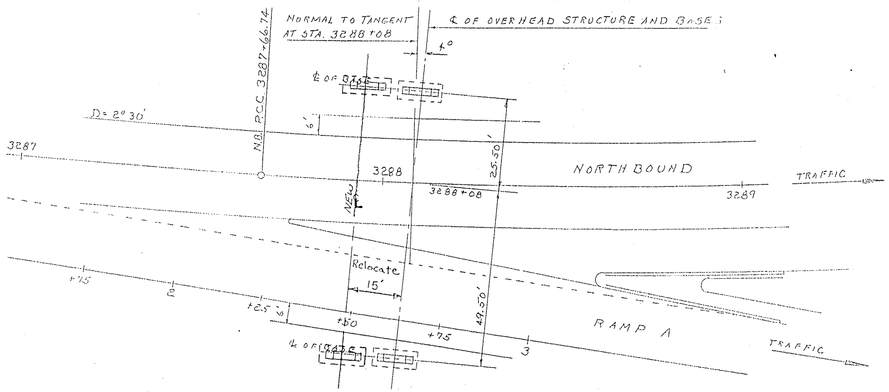
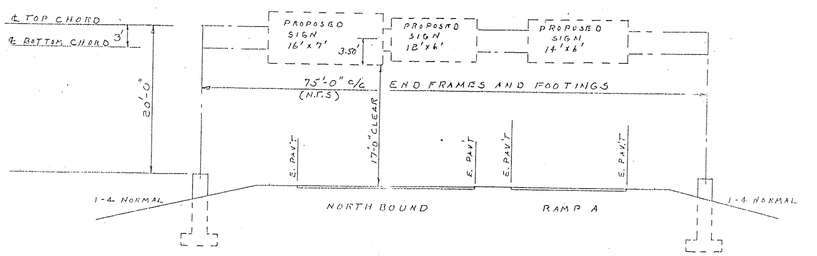
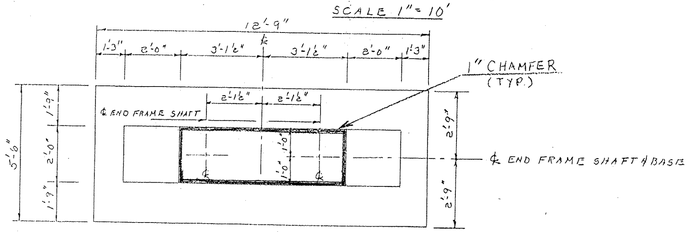


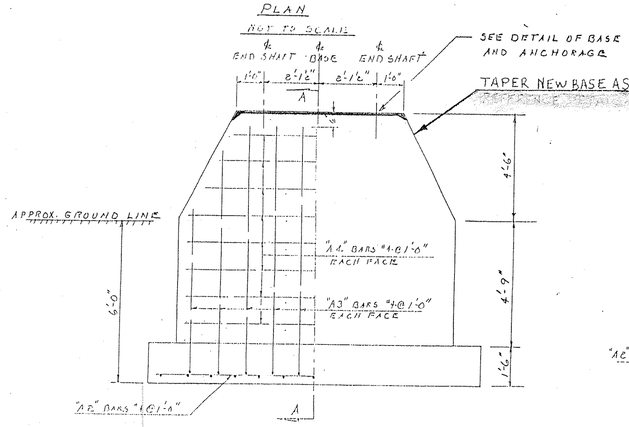
LOCATION PLAN
SCALE 1" = 20'



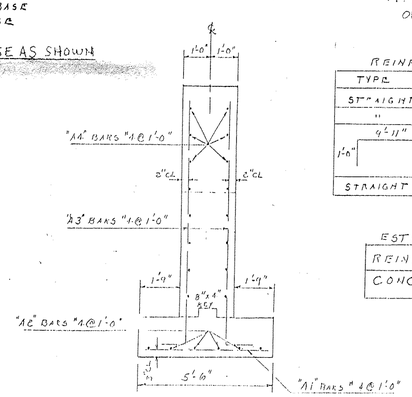
ELEVATION VIEW
SCALE 1" = 10'



PLAN
NOT TO SCALE



ELEVATION VIEW OF BASE
SCALE 3/8" = 1'-0"



SECTION A-A
NOT TO SCALE

NOTES:

1. ALL WORK AND MATERIALS TO CONFORM TO AASHTO STD. SPECS FOR HIGHWAY BRIDGES, DATED 1992 AND LATEST REVISION,AND STATE OF VERMONT AGENCY OF TRANSPORTATION.

3. ALL CONCRETE SHALL BE CONCRETE CLASS B.

4. ALL REINFORCING STEEL SHALL BE ASSHTO M31, GRADE 60, EPOXY COATED.

5. FABRICATOR TO DESIGN AND TO SUPPLY (ONLY ONE) NEW ADEQUATE POLE BASE. ALLOWABLE STRESS FOR NEW BASE SHALL BE DETERMINED IN ACCORDANCE WITH THE PROVISIONS OF THE ALUMINUM ASSOC. PUBLICATION 30 "SPECIFICATIONS FOR ALUMINUM STRUCTURES."

6. ANCHOR BOLTS :

FOUR STAINLESS STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS, ONE WASHER AND ONE LOCK WASHER PER BOLT SHALL BE FURNISHED FOR EACH EXISTING POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE STAINLESS STEEL.
SEE SUB-SECTION 714.09.

7. SHOP DRAWINGS (6 COPIES OF EACH SHALL BE SUBMITTED TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION, STRUCTURES DIVISION FOR APPROVAL PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

A. DETAIL DRAWING OF EACH COMPONENT OF THE STRUCTURE.

B. MATERIAL SPECIFICATION FOR EACH COMPONENT OF THE STRUCTURE, EITHER BY COMPLETE SPECIFICATION OR REFERENCE TO APPLICABLE ASTM STANDARDS.

C. NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER, AND STRUCTURE STATIONING (TO BE INCLUDED ON EACH SHEET) .

D. WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE SHOP DRAWING. (SEE SUBSECTION 506.10).

8. ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIALS BEING WELDED.

9. EACH OVERHEAD TRAFFIC SIGNAL/ SIGN SUPPORT SHALL BE GROUNDED. THE GROUND SHALL CONSIST OF :
A. AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE.

B. A # 6 (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.

C. A 5/8" X 8' (MIN.) COPPER CLAD GROUNDING ELECTRODE. THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITION GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 6'.

10. BASE PLATE SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GUAGE AND THE HORIZONTAL MEMBER DIAMETER,LENGTH, YIELD STRENGTH, GUAGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HANDHOLE.

11. INSTALL NEW FOOTINGS AND PEDESTALS BEFORE CRANE COMES SO WHEN THE CRANE IS ON THE PROJECT TO LIFT TRAFFIC BRIDGE SIGN TO BE REPAIRED IT CAN RESET ON NEW PEDESTALS DIRECTLY TO MINIMIZE CRANE COSTS, TRAFFIC DISRUPTION AND SAFETY CONSEQUENCES TO TRAFFIC.
SEE STANDARD E-171A FOR ADDITIONAL NOTES.
12. REMOVAL OF EXISTING CONCRETE 1' BELOW EXISTING GROUND.
13. LEVEL SURFACE UNDER BASE PLATE.
14. EARTH MATERIAL FROM NEW STRUCTURE TO BE REUSED FOR OLD STRUCTURE TO FILL

REINFORCING STEEL SCHEDULE

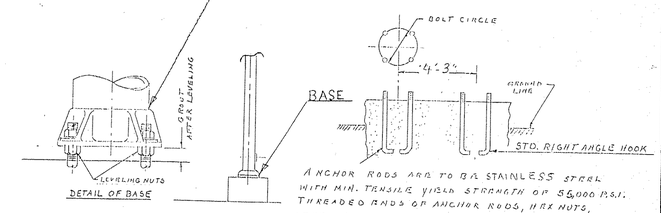
TYPE	NO.	SIZE	BAR	TOT. LENGTH
STRAIGHT	26	#4	A1	5'-0"
"	12	#4	A2	12'-3"
1'-0" / 9'-11"	40	#4	A3	10'-11"
STRAIGHT	32	#4	A4	9'-9"

ESTIMATED QUANTITIES TWO BASES

REINFORCING STEEL	685 LBS.
CONCRETE CLASS "B"	21 C.Y.

CUT WELDS (INSIDE & OUT) AND FIELD WELD POLE TO NEW BASE (ONE ONLY) FABRICATOR TO DETERMINE SIZE AND TYPE OF WELD.

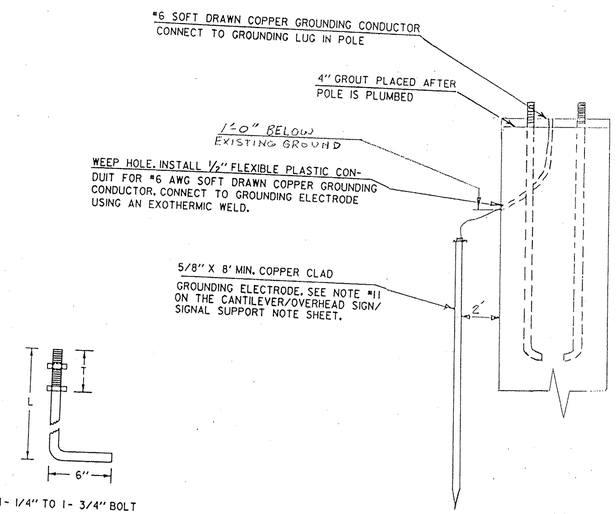
THE CONTRACTOR, AT HIS OPTION MAY CHOOSE TO RETROFIT THE EXISTING BASE CASTING, OR PROVIDE A DIFFERENT BASE THAN THAT SHOWN.



DETAIL OF BASE

ANCHOR RODS ARE TO BE STAINLESS STEEL WITH MIN. TENSILE YIELD STRENGTH OF 55,000 P.S.I. THREADED RODS OR ANCHOR RODS, HEX NUTS, LEVELING NUTS, FLAT WASHERS, AND LOCK WASHERS SHALL BE PER SUBSECTION 714.09.

DETAIL OF ANCHORAGE



1- 1/4" TO 1- 3/4" BOLT

ANCHOR BOLT DETAIL

SIZE	L (IN)	T (IN)
1- 1/2" X 60"	54	9

	UNIT	NET	OVERRUN	TOTAL

4-7-97

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of DERBY	Bridge No. N.B.
Highway No. I 91	Log Sta. 177+1089
	Surv. Sta. 3287+93
OVERHEAD TRAFFIC SIGN SUPPORT	
Designed By SHF	Drawn By SHF
Checked By JHWEAVER Date 6 28 96	Bridge Design Supervisor JH WEAVER Date 6 28 96
PROJECT STATEWIDE	PROJECT NO. IM LITE (6)
I.G.C. Info.	
Bridge Sheet No.	Sheet 13 of 31