

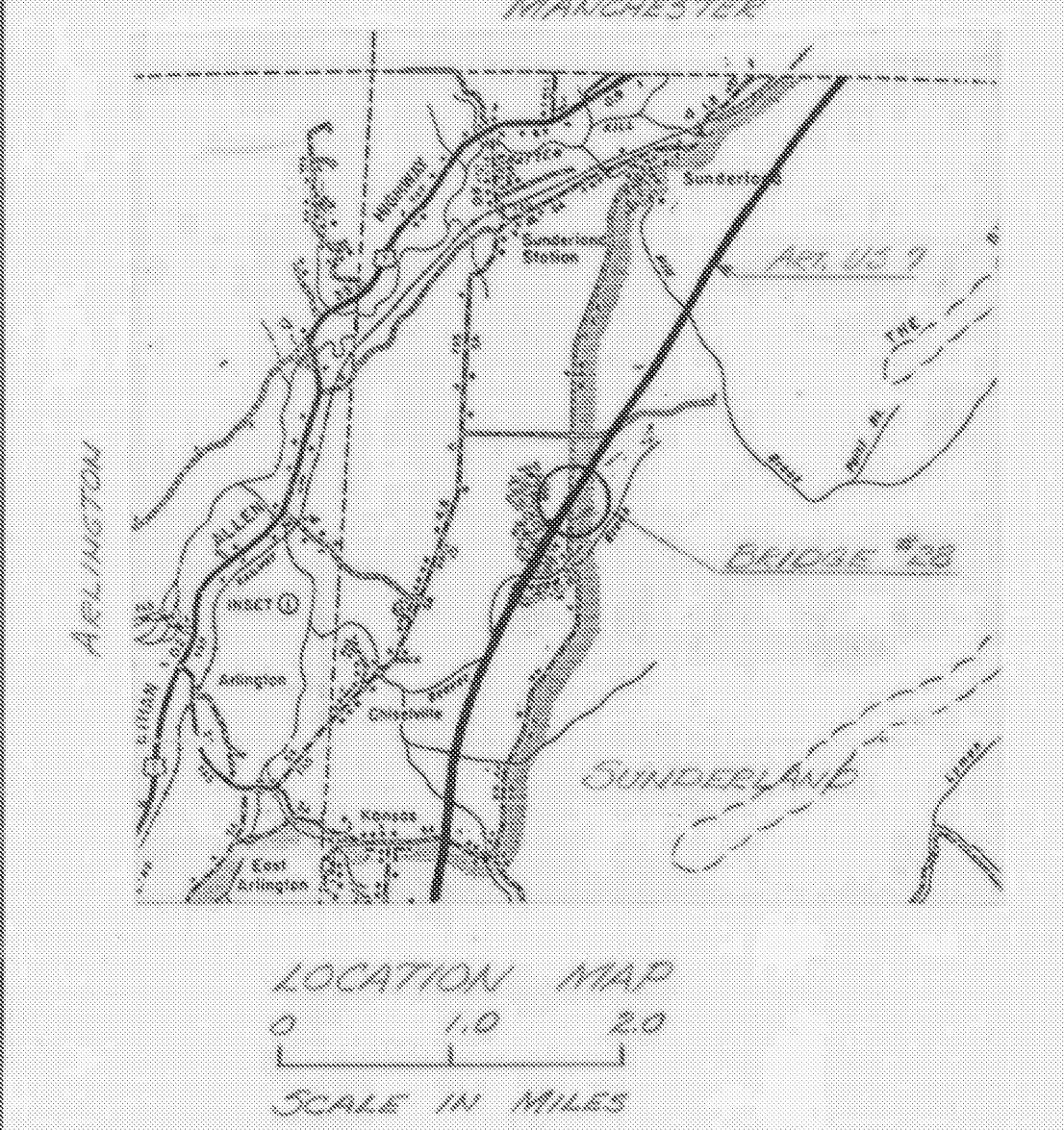
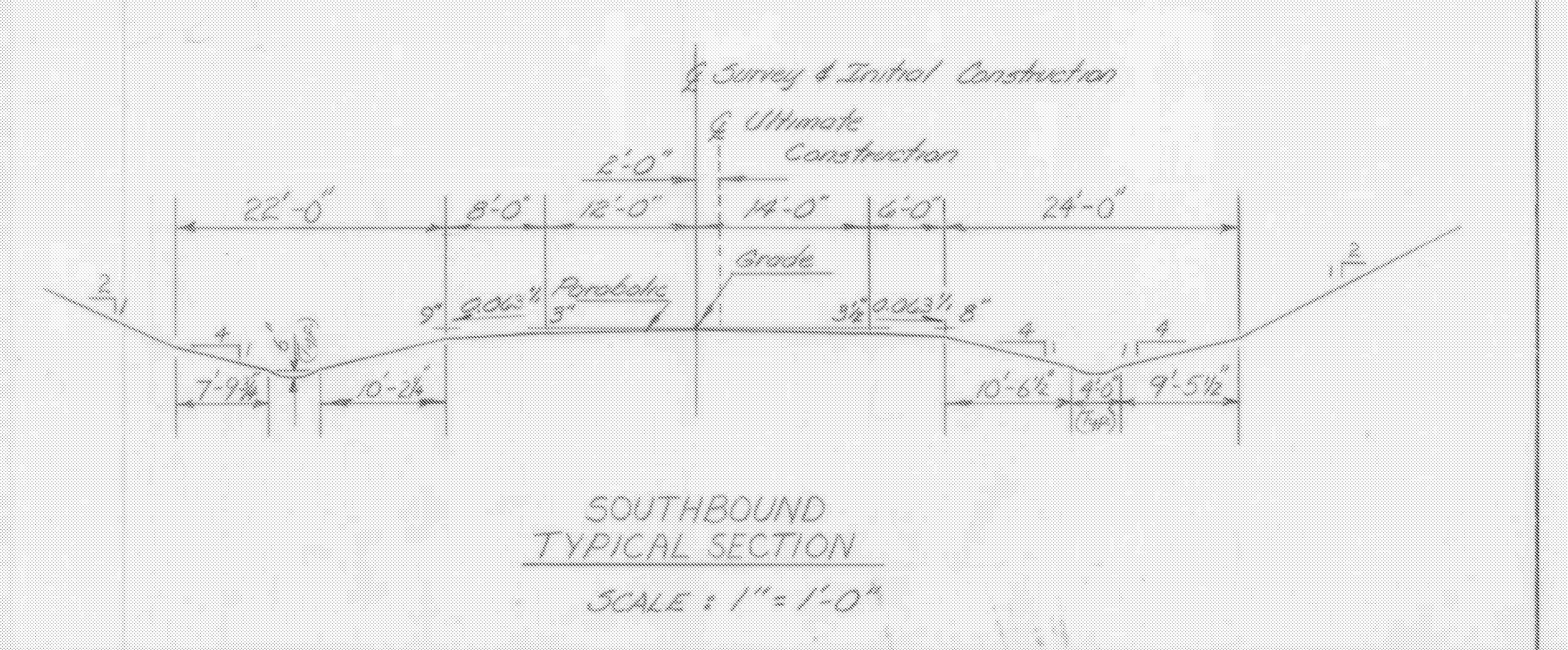
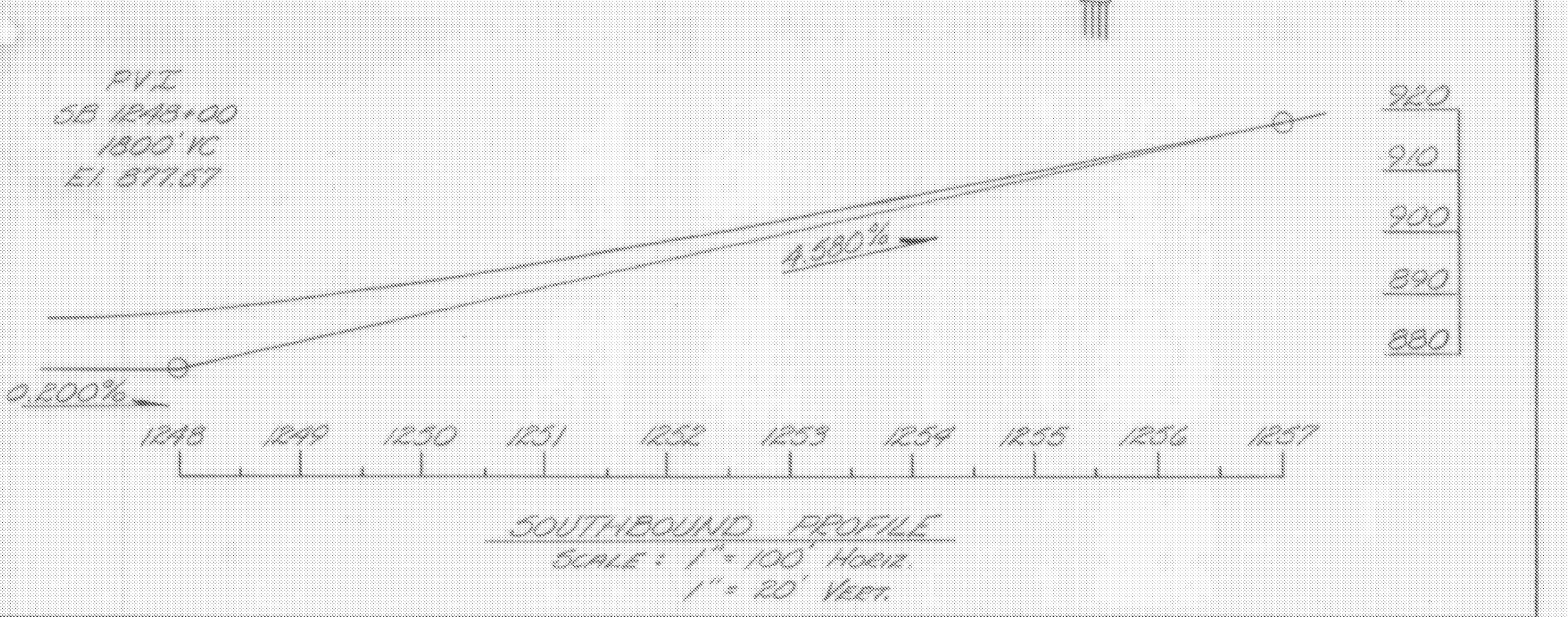
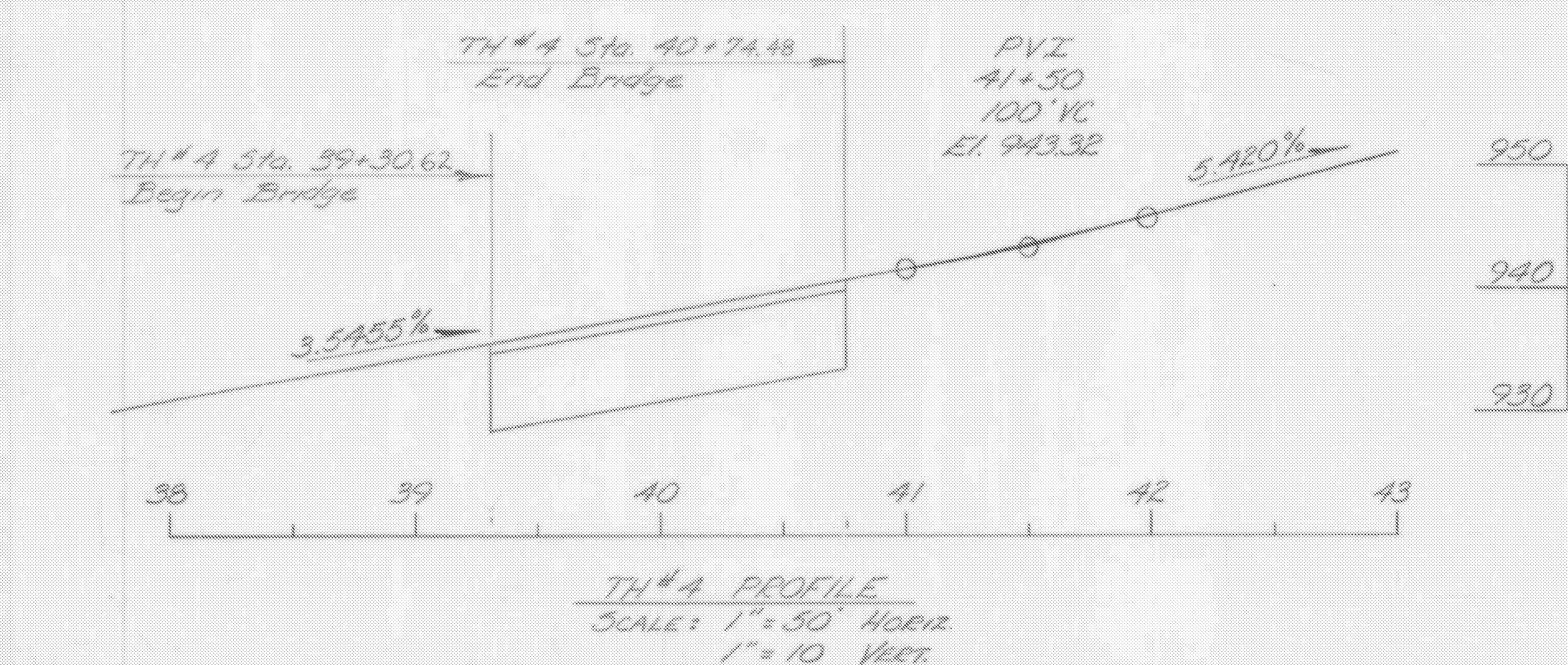
EXISTING STRUCTURE	
1. STRUCTURE TYPE	OVERALL LENGTH
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	INVENTORY RATING
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	VERTICAL CLEARANCE ABOVE STREAMBED
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	WATER SURFACE ELEVATION @ 0
5. WATER SURFACE ELEVATION @ Q 233	YEAR ESTIMATED DISCHARGE
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD	IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR?
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE?	ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL	
9. DISPOSITION OF STRUCTURE	

NEW STRUCTURE	
STRUCTURE GEOMETRY:	Single Span Comp. Welded Pl. Girder
1. STRUCTURE TYPE	OVERALL LENGTH 143.86'
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	140'-0"
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER	17.8'
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	N/A
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	N/A
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?	NO

HYDRAULIC DATA:		
1. Q 2.33	WATER ELEVATION	VELOCITY
Q 10	WATER ELEVATION	VELOCITY
Q 25	WATER ELEVATION	VELOCITY
Q 50	WATER ELEVATION	VELOCITY
Q 100	WATER ELEVATION	VELOCITY
2. DRAINAGE AREA	CHARACTER OF TERRAIN	
3. ARE THERE OBJECTIONS TO A PIER IN THE STREAM?		
4. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY?	IS ORDINARY RISE RAPID?	
5. NATURE OF NATURAL STREAMBED	COMMENT ON: DRIFT	
6. ESTIMATED SCOUR DEPTH	ICE	
7. WILL ALL WATER PASS THROUGH NEW STRUCTURE? IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR?		
8. ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF		
9. VERTICAL CLEARANCE ABOVE Q	LIMITED BY	
10. ALLOWABLE WATER SURFACE ELEVATION	IF YES, DESCRIBE	
11. AVERAGE DAILY LOW FLOW	DEPTH	
12. STREAMBANK OR CHANNEL PROTECTION REQUIRED	AVERAGE DAILY HIGH FLOW	
13. DISTANCE TO EXISTING UPSTREAM STRUCTURE	SPAN	WATERWAY AREA OF FULL OPENING
14. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE	SPAN	WATERWAY AREA OF FULL OPENING

ALLOWABLE STRESSES:	
1. DESIGN LIVE LOAD AASHTO	HS-20-44
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	4 R.F. ON LEDGE
3. ALLOWABLE LOAD FOR PILING	N/A
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL ASTM A	588 TENSION 24,000 PSI
5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION	24,000 PSI
6. ALLOWABLE STRESS FOR CONCRETE CLASS A 1c	1900
	CLASS B 1c 3500
	1c 1400

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 CLEAR SPAN
	MINIMUM CLEAR HEIGHT
	ARE SIDEWALKS REQUIRED? IF SO, ON WHAT SIDE?



STANDARD SHEETS			
G-1	R 5-28-79	SCB-D9-71	R1-27-73
G-1d	R 12-16-80		
G-8a	R 7-1-78		
SB-R1-71	R 7-1-77		
SCB-D1-75	R 4-3-78		
SCB-D4-76	A 1-8-75		
SCB-D6-73	R 1-3-79		
SCB-D7-71	R 12-15-76		
SCB-D8-71	R 6-1-77		

INDEX OF SHEETS	
BR100	PRELIMINARY INFORMATION
BR101	PLAN & ELEVATION
BR102	BRIDGE QUANTITIES
BR103	BORING SHEET
BR104	TYPICAL SECTION & GIRDER DETAILS
BR105	CURB & CURTAIN WALL DETAILS
BR106	DECK & APPROACH SLAB REINFORCING
BR107	FRAMING PLAN & CROSSFRAME DETAILS

STATEWIDE - SOUTHWEST REGION
 BHF MEMB(20)
 SHEET 44 OF 47
 BRIDGE D23
 FOR REFERENCE ONLY

LOAD RATING (TONS)	
STRESS LEVELS	TRUCK
	H HS 332 6 AXLE 3A STR 4A STR 5A SEMI
INVENTORY	35 38
POSTED	64 76 66 67 73
OPERATING	98 108

RECOMMENDED FOR APPROVAL: *W. M. Smith* 5-7-80
 STRUCTURES ENGINEER DATE
 RECOMMENDED FOR APPROVAL: *Arthur Jones* 5-12-80
 CHIEF OF DESIGN DATE
 APPROVED BY: *S. J. O'Connell* 5-22-80
 DIRECTOR OF ENGINEERING & CONSTRUCTION DATE

REVISIONS		
NO.	DESCRIPTION	BY & DATE
1	Changed Modified Typical Section to Arterial U.S. Rte #7 Southbound Typical Section.	R. Piana Ido 8/12/80

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF SUNDERLAND Bridge No. 28
 Log Sta. _____

HIGHWAY NO. TOWN HIGHWAY #4 Surv. Sta. 1255+50.0
TH #4 OVER ARTERIAL U.S. RTE #7

DESIGNED BY: M. GARCIA DRAWN BY: M. GARCIA
 CHECKED BY: A.W.E. DATE: 9-80 BRIDGE DESIGN SUPERVISOR: F.V. Bolkum DATE: 5/80

PROJECT: SUNDERLAND-MANCHESTER PROJECT NO.: F019-119)c-1
 Bridge Sheet No. BR100 Sheet 9494 of 429