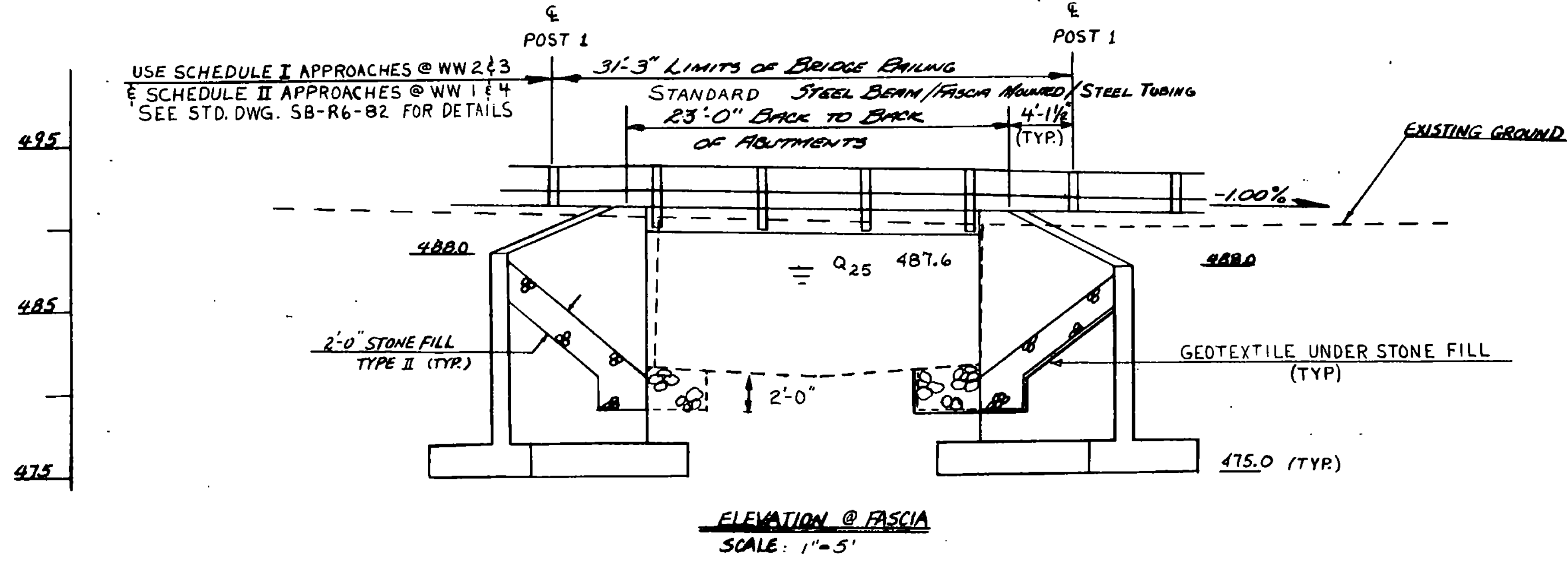


PLAN
SCALE: 1"=5'



EXISTING STRUCTURE	
1. STRUCTURE TYPE	CONCRETE SLAB BRIDGE OVERALL LENGTH 22' INVENTORY RATING
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	N/A
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	15'
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	126' VERTICAL CLEARANCE ABOVE STREAMBED 7'
5. WATER SURFACE ELEVATION @ 0.2.33	WATER SURFACE ELEVATION @ 0
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD	N/A YEAR 1927 ESTIMATED DISCHARGE N/A
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? NO. IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR?	N/A
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL	N/A
9. DISPOSITION OF STRUCTURE	REPLACE

NEW STRUCTURE	
1. STRUCTURE TYPE	CONCRETE SLAB BRIDGE OVERALL LENGTH 23'
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	N/A
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER	8'
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	20'
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	160 SQ. FT.
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?	NO

ALLOWABLE STRESSES:	
1. DESIGN LIVE LOAD	H-15-20-44
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	3.10 KSF ON LEDGE N/A
3. ALLOWABLE LOAD FOR PILING	TYPE ESTIMATED LENGTH
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL, AASHTO M 222	TENSION
5. ALLOWABLE STRESS FOR REINFORCING STEEL, GRADE 60 TENSION	24,000 PSI COMPRESSION 20,000 PSI
6. ALLOWABLE STRESS FOR CONCRETE	CLASS A % 3500 PSI CLASS B % 1,800 PSI

TRAFFIC MAINTENANCE:	
1. IS TRAFFIC TO BE MAINTAINED?	NO IF YES, ON EXISTING STRUCTURE N/A OR ON TEMPORARY BRIDGE N/A
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?

HYDRAULIC DATA:			
1. 0.2.33	5.2 fps	WATER ELEVATION	483.9 VELOCITY
0.18	7.0 fps	WATER ELEVATION	486.0 VELOCITY
0.25	8.0 fps	WATER ELEVATION	487.6 VELOCITY
0.88	8.8 fps	WATER ELEVATION	489.0 VELOCITY
0.188	7.4 fps	WATER ELEVATION	490.2 VELOCITY

2. DRAINAGE AREA	2.6 SQ. MI.	CHARACTER OF TERRAIN	HILLY
3. ARE THERE OBSTRUCTIONS TO A PIER IN THE STREAM?	N/A	IS ORDINARY RISE RAPID?	YES
4. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY?	YES		
5. NATURE OF NATURAL STREAMBED	GRAVEL AND COBBLES		
6. ESTIMATED SCOUR DEPTH	3'	COMMENT ON DRIFT	SLIGHT
7. WILL ALL WATER PASS THROUGH NEW STRUCTURE? NO. IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR?	Q ₁₀₀ ~ 490.0		
8. ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF ROADWAY	WILL OVERFLOW		
9. VERTICAL CLEARANCE ABOVE ROAD	8'-6"		
10. ALLOWABLE WATER SURFACE ELEVATION	489.1	LIMITED BY	BOTTOM OF SLAB
11. IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS?	NO	IF YES, DESCRIBE	
12. AVERAGE DAILY HIGH FLOW	15 CFS	DEPTH	0.8'
13. AVERAGE DAILY HIGH FLOW	35 CFS	DEPTH	3.0'
14. DISTANCE TO EXISTING UPSTREAM STRUCTURE	5000'	SPAN	12'
15. WATERWAY AREA OF FULL OPENING	140 SF		
16. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE	5000'	SPAN	17'
17. WATERWAY AREA OF FULL OPENING	110 SF		

STRESS LEVELS	LOAD RATING (TONS)					
	H	HS	3S2	6 AXLE	3A STR.	4A STR.
INVENTORY	23	42				
POSTED	35	64	78	43	46	78
OPERATING		74	91	81	50	53

RECOMMENDED FOR APPROVAL _____ STRUCTURES ENGINEER _____ DATE _____
 RECOMMENDED FOR APPROVAL _____ CHIEF OF DESIGN _____ DATE _____
 APPROVED BY _____ CHIEF ENGINEER _____ DATE _____

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town of CHELSEA Bridge No. 30
 Highway No. T.H. 3 Log Sta. Surv. Sta. 11+83 1/2

T.H. 3 OVER CRAW BROOK

PRELIMINARY INFORMATION

Designed By R.E. SUCKERT Drawn By J. CLARK
 Checked By C.P. WILLIAMS Date 2-92 Bridge Design Supervisor F.W. BOLKUM Date 2/92

PROJECT CHELSEA PROJECT NO. T.H. 3806

L.C. Info. ZFAI[30.57] B7J149.DGN

Bridge Sheet No. 7 of 19