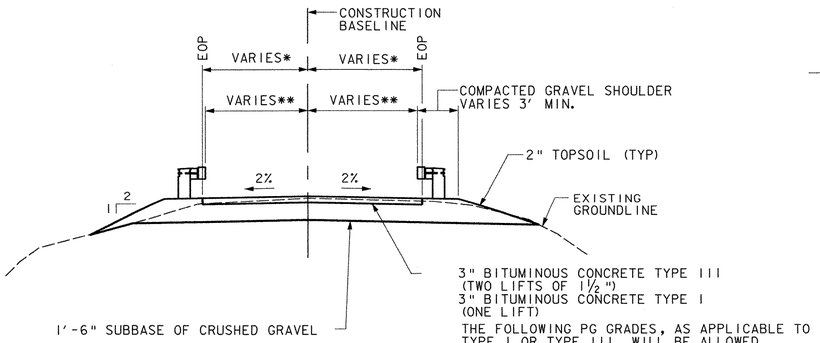
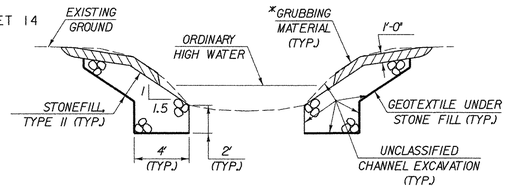
* FOR DIMENSION SEE CROSS SECTIONS SHEET 14
** SEE TABLE BELOW FOR DIMENSIONS



THE FOLLOWING PG GRADES, AS APPLICABLE TO TYPE I OR TYPE III, WILL BE ALLOWED.
PG 64-28
PG 58-28
PG 64-34
PG 58-34

TYPICAL SECTION

N.T.S.



TYPICAL CHANNEL SECTION**

(NOT TO SCALE)

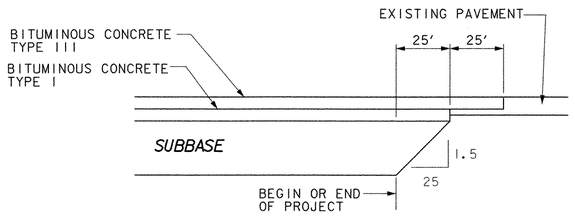
*GRUBBING MATERIAL SHALL NOT BE PLACED ON THE STONE FILL IN THE AREA UNDER THE BRIDGE. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.

**THIS DETAIL TO BE USED AT THE WINGWALLS SEE SHEET 11 FOR INSTALLATION AT FRONT FACE OF ABUTMENT

3 EMULSIFIED ASPHALT TO BE APPLIED BETWEEN PAVEMENT LIFTS

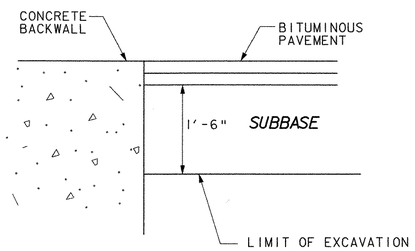
OFFSETS FOR GUARDRAIL

BEGIN FLARE		CONCRETE ANCHOR	
STATION	OFFSET	STATION	OFFSET
STA. 9+50	8.60' LEFT	STA. 9+31	10.57' LEFT
STA. 9+50	10.10' RIGHT	STA. 9+31	12.90' RIGHT
STA. 10+36.5	10.83' LEFT	STA. 10+52	17.31' LEFT
STA. 10+28.5	8.25' RIGHT		
STA. 10+39	11.89' RIGHT	STA. 10+60	15.18' RIGHT



COLD PLANING DETAIL

NOT TO SCALE



PAVEMENT AT BACKWALL

NOT TO SCALE

SEEDING FORMULA RURAL AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREEPING RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

WORKING STRESS LOAD RATING (TONS)

STRESS LEVELS	TRUCK						
	H	HS	3S2	6 AXLE	3A.STR.	4A.STR.	5A.SEMI
INVENTORY*	20						
POSTED (1.17 X INVENTORY ALLOWABLES)	29						
OPERATING (1.33 X INVENTORY ALLOWABLES)							

*RATING CONTROLLED BY NEW LATTICE MEMBERS AND NEW SECTION OF BOTTOM CHORD
NEW MATERIAL IS SOUTHERN PINE NO. 1 DENSE (NDS)
Fb=1350 psi Fv=90 psi Fc⊥=1700 psi (COMP. PARALELL TO GRAIN)

Lichtenstein
Consulting Engineers

STRUCTURE

STRUCTURE TYPE: COVERED BRIDGE, TOWN LATTICE TRUSS
CLEAR SPAN (NORMAL TO STREAM): 30' +/- ABUT TO ABUT
VERTICAL CLEARANCE ABOVE STREAMBED: 15 FEET +/-
WATER SURFACE ELEV. Q100= 368.0 (FROM FLOOD INSURANCE STUDY)
IS THE ROADWAY OVERTOPPED BELOW THE Q100? YES
AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 364.0
SCOUR: NOT AVAILABLE
REQUIRED CHANNEL PROTECTION: STONE FILL, TYPE II

NO ADDITIONAL HYDRAULIC STUDIES WERE DONE
THE WATERWAY OPENING AND VERTICAL CLEARANCE REMAIN UNCHANGED

DESIGN CRITERIA:
1. DESIGN LIVE LOAD AASHTO H20
2. DESIGN SPAN 50' +/-
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL NA ON LEDGE NA
4. ALLOWABLE LOAD FOR PILING NA TYPE NA ESTIMATED LENGTH NA
5. STRUCTURAL STEEL AASHTO GRADE M270
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? NO IF YES, ON EXISTING STRUCTURE NA OR ON TEMPORARY BRIDGE NA
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY NA TRAFFIC CONTROL SIGNALS REQUIRED NA

ARE SIDEWALKS REQUIRED? NO IF SO, ON WHAT SIDE? NA

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of PITTSFORD, VT	Bridge No. 31
Highway No. ELM STREET (TH 13)	Log Sta. / Surv. Sta.
COOLEY COVERED BRIDGE REHABILITATION	
PRELIMINARY INFORMATION SHEET	
Designed By J. MESSIER	Drawn By J. MESSIER
Checked By E. ALLEN RANDALL Date 01/03/03	Bridge Design Supervisor Date
PROJECT PITTSFORD	PROJECT NO. BHO 1443 (36)
I.G.C. Info.	
Bridge Sheet No.	Sheet 2 of 15

03 JAN 2003 p:\2074\cooley bridge\cadd\dgn\coolpl5.dgn