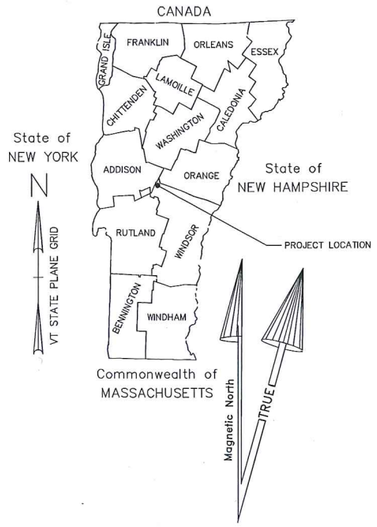
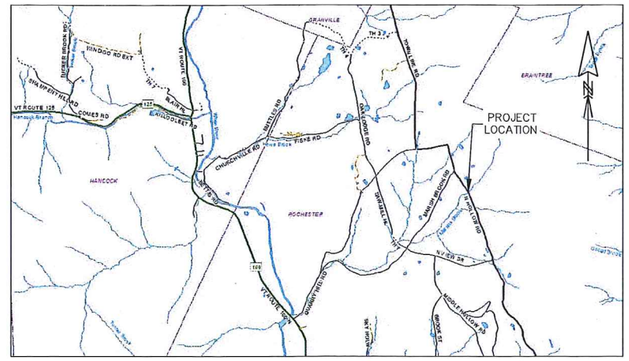


INDEX OF SHEETS

1. TITLE SHEET, SITE PLAN, AND DETAILS
2. PROFILES ND DETAILS
3. NOTES AND LAYOUT PLAN
4. EROSION PREVENTION AND SEDIMENT CONTROL NARRATIVE AND DETAILS

LIST OF STANDARDS

1. G-1 02/10/2014
2. G-1d 02/10/2014



LOCATION MAP

NOT TO SCALE

VERTICAL AND HORIZONTAL DATUM:
BOTH VERTICAL AND HORIZONTAL DATUM ARE ASSUMED. ELEVATIONS AND BEARINGS ARE SPECIFIC TO THIS PROJECT ONLY.

NOTE ON ROADWAY WIDTH:

WHERE POSSIBLE, MAINTAIN TYPICAL MINIMUM ROADWAY WIDTH OF 18' WITH 2' SHOULDER EACH SIDE.

PROJECT DESCRIPTION:
REMOVAL OF EXISTING 8'x12' BOTTOMLESS CORRUGATED METAL PIPE ARCH. INSTALLATION OF NEW 14'-0" x 6'-0" 3-SIDED PRECAST CONCRETE BOX CULVERT. RE-CONSTRUCTION OF ROADWAY APPROACHES AND ASSOCIATED CHANNEL AND DITCH WORK.

LENGTH OF STRUCTURE: 54.0 FT PARALLEL TO MARSH BROOK

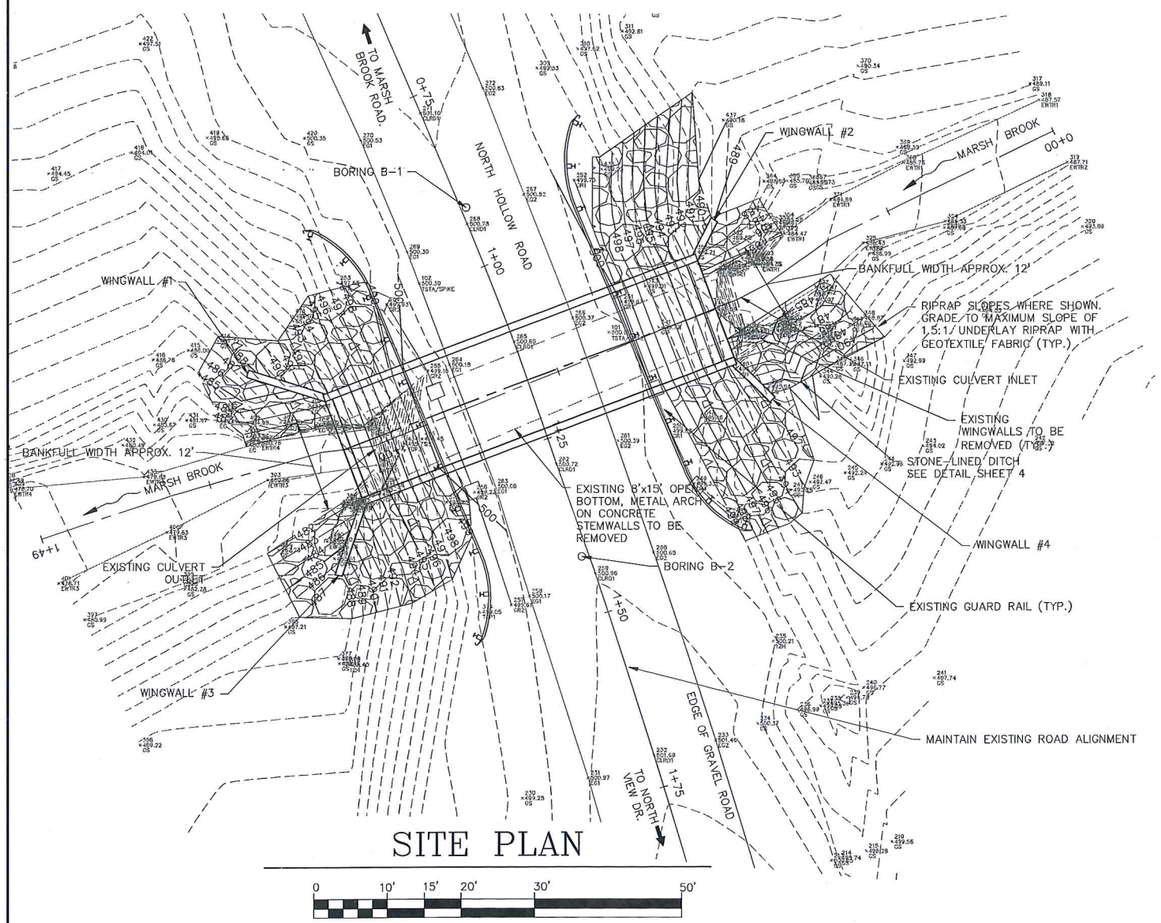
LENGTH OF ROADWAY: 65 FT
TOTAL PROJECT LENGTH: 65 FT

HYDROLOGIC DATA:

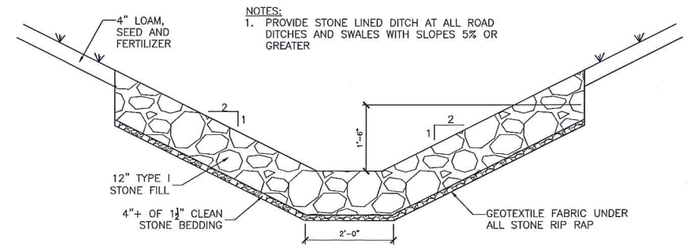
DRAINAGE AREA 0.77 SQ. MILES
Q2.33 = 60 CFS
Q10 = 130 CFS
Q25 = 170 CFS
Q50 = 200 CFS
Q100 = 230 CFS

APPROXIMATE STREAM GRADIENT 4%
APPROXIMATE BANKFULL WIDTH 12 FT

SOURCE: VT AOT HYDRAULICS UNIT REPORT FOR ROCHESTER, TH 2 N. HOLLOW RD, BRIDGE 10 OVER MARSH BROOK.GPS COORDINATES: N 43.91554' W 72.78669'. BY J. HADLEY, JUNE 14, 2014.



SITE PLAN



NOTES:
1. PROVIDE STONE LINED DITCH AT ALL ROAD DITCHES AND SWALES WITH SLOPES 5% OR GREATER

TYPICAL STONE LINED DITCH

NOT TO SCALE

STONE FILL SIZES

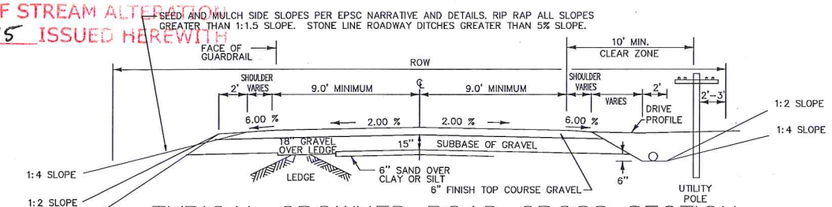
PER VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION

STONE FILL	STONE DIAMETER		
	MINIMUM	AVERAGE (D50)*	MAXIMUM
TYPE I	1"	4"	12"
TYPE II	2"	12"	36"
TYPE III	3"	16"	48"
TYPE IV	3"	20"	60"

*THE AVERAGE SIZE, OR "D50", MEANS THAT AT LEAST 50% OF THE STONE (BY VOLUME) MUST HAVE MINIMUM DIAMETER OF THIS SIZE.

APPROVAL
WATERSHED MANAGEMENT DIVISION
DATE 03/17/2015
BY
THIS APPROVAL IS SUBJECT TO THE TERMS AND CONDITIONS OF STREAM ALTERATION PERMIT#SA-6-05-295 ISSUED HEREWITH

SEED AND MULCH SIDE SLOPES PER EPSC NARRATIVE AND DETAILS. RIP RAP ALL SLOPES GREATER THAN 1:1.5 SLOPE. STONE LINE ROADWAY DITCHES GREATER THAN 5% SLOPE.



TYPICAL CROWNED ROAD CROSS SECTION

NOT TO SCALE

T.R. FELLOWS ENGINEERING
CIVIL & STRUCTURAL
VT NH
134 COUNTY ROAD
P.O. BOX 428
WILMOT, NH 03287
TEL/FAX: 603.736.4811
trfellowsjr@tdsnet.net
42 n. main street
ROCHESTER, VT 05767
TEL/FAX: 802.767.3631
krfellows@vtlaw.com

NO.	DATE	REVISION
1		

NORTH HOLLOW ROAD (TH 2)
CULVERT REPLACEMENT
MARSH BROOK, ROCHESTER, VERMONT
OWNER/CONTACT: TOWN OF ROCHESTER
67 SCHOOL ST.
ROCHESTER, VT 05767
802-767-3631

TITLE AND SITE PLAN

STATE OF VERMONT
KRISTIN F. McCUSKER
NO. 5789
CIVIL
LICENSED
PROFESSIONAL ENGINEER

DRAWN BY: J. KROHN
CHECKED BY: K. McCUSKER
PROJECT: 1337
DATE: 9/15/2014
SHEET: 1 of 4