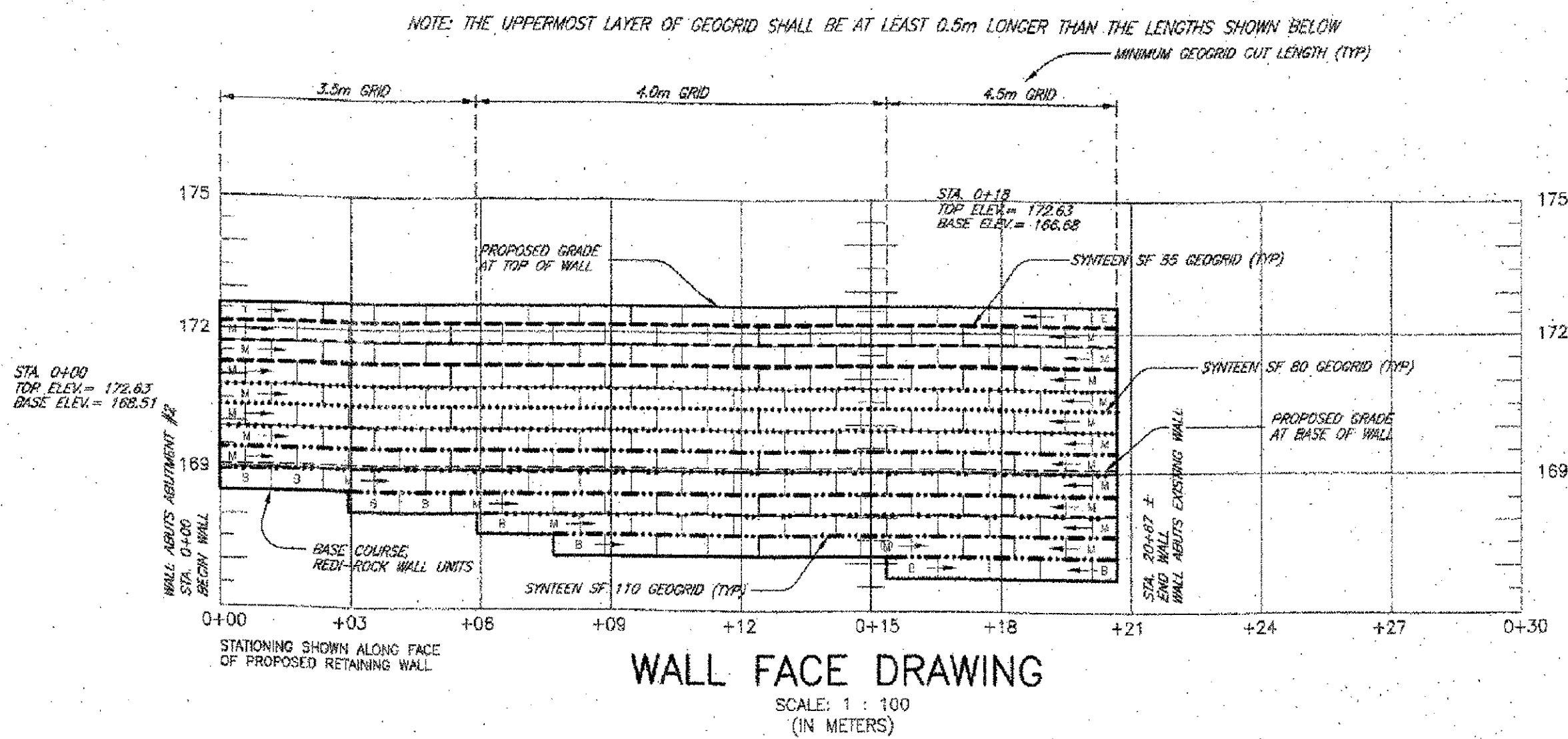


**LEGEND**

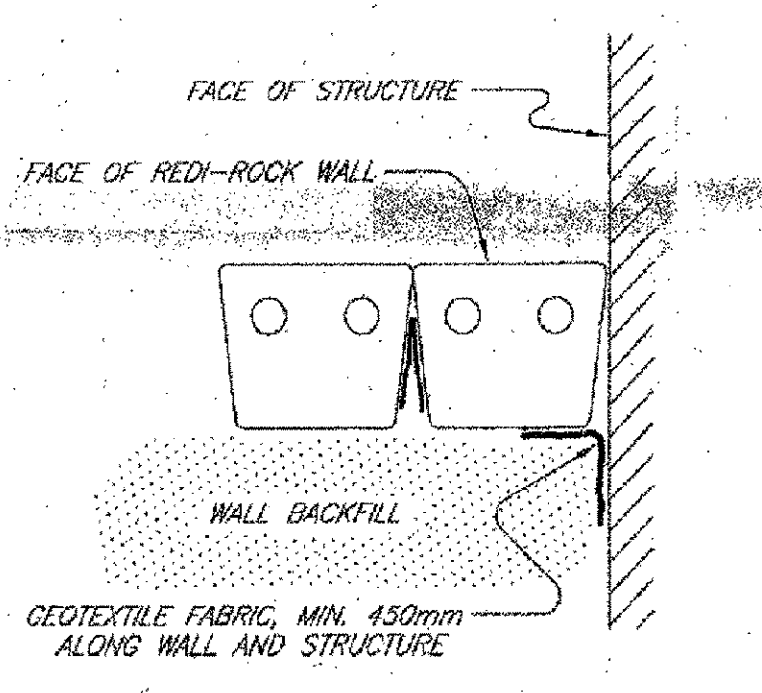
- T TOP BLOCK
- M MIDDLE BLOCK
- B BOTTOM BLOCK
- E END BLOCK
- DENOTES CHANGE IN BLOCK TYPE



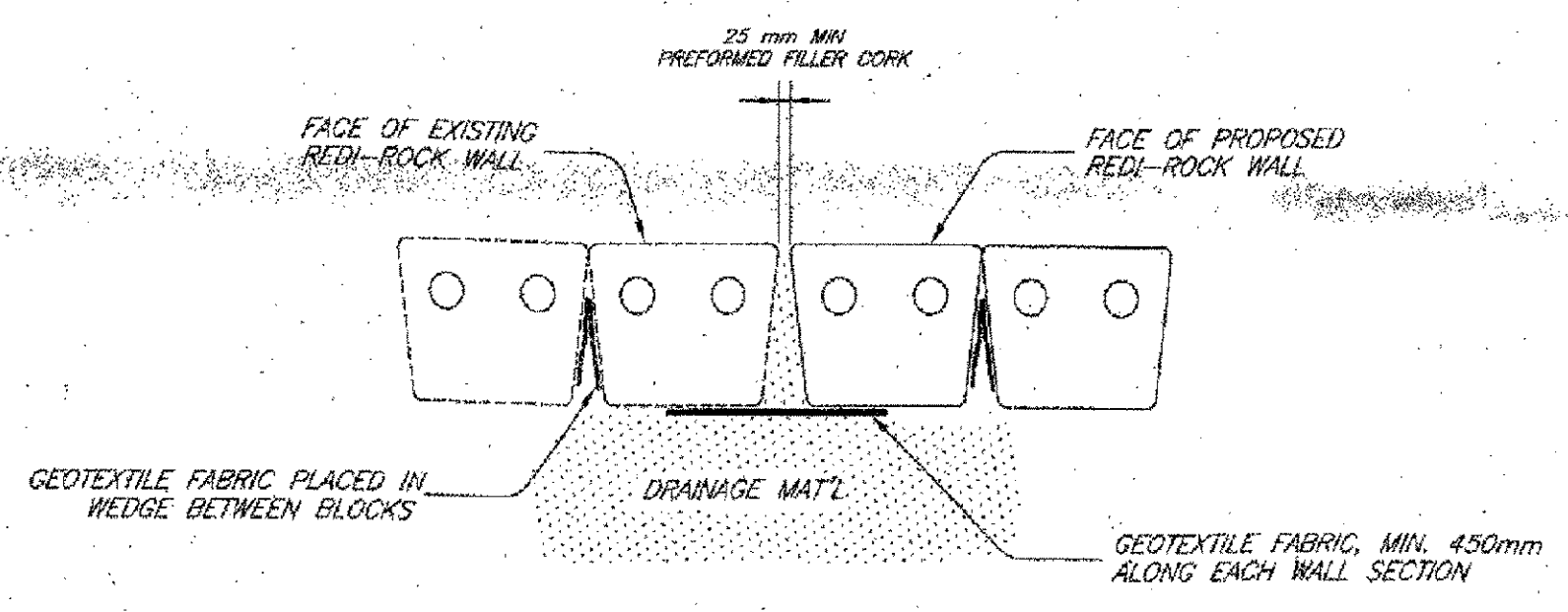
**WALL QUANTITIES:**

|                      |   |
|----------------------|---|
| TOP BLOCK - 17       | GEOGRID: SYNTEEN SF 55 - 247 SQ. METERS |
| MIDDLE BLOCK - 163   | SYNTEEN SF 80 - 247 SQ. METERS          |
| 1/2 MIDDLE BLOCK - 9 | SYNTEEN SF 110 - 316 SQ. METERS         |
| BASE BLOCK - 15      |   |
| 1/2 BASE BLOCK - 1   |   |

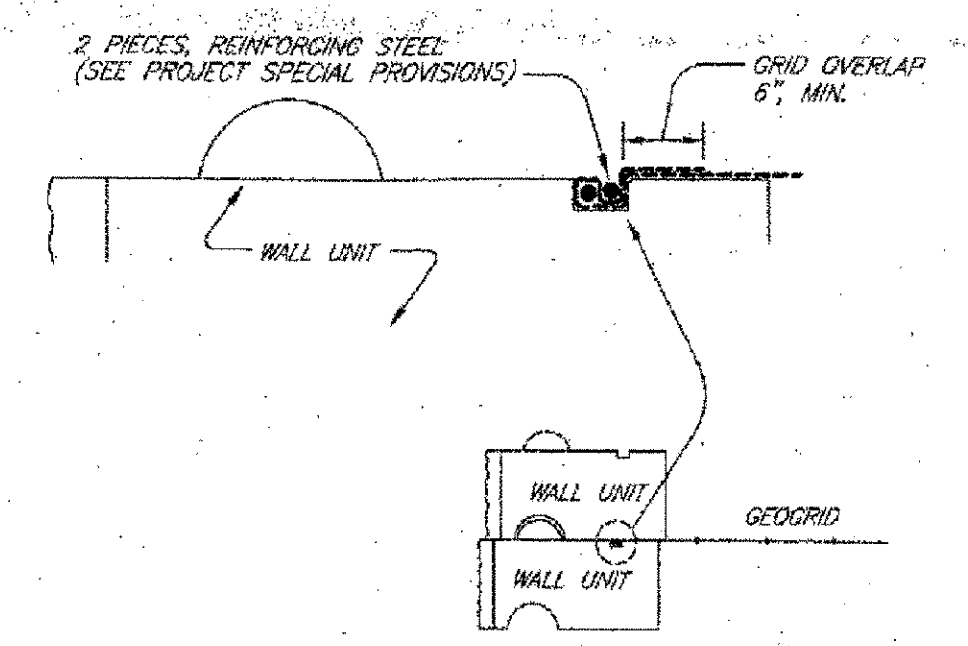
WHERE THE WALL ABUTS A STRUCTURE OR EXISTING WALL, A GEOTEXTILE FABRIC SHALL BE PLACED VERTICALLY ALONG THE SEAM TO PREVENT MIGRATION OF SOILS BETWEEN THE WALL BLOCK AND THE STRUCTURE. THE FABRIC SHOULD EXTEND AT LEAST 450mm ALONG THE STRUCTURE OR EXISTING WALL AND 450mm ALONG THE REAR OF THE PROPOSED WALL BLOCK.



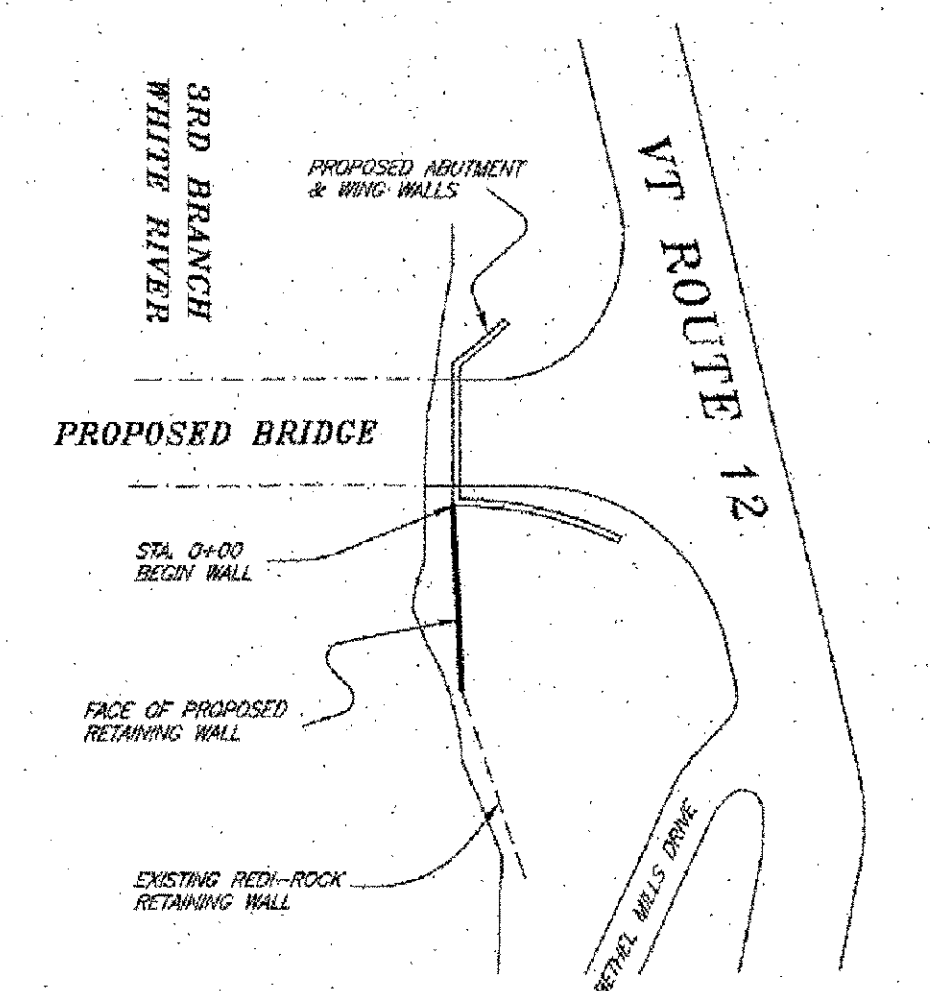
**DETAIL WALL ABUTTING STRUCTURE**  
(NOT TO SCALE)



**DETAIL WALL ABUTTING EXISTING WALL**  
(NOT TO SCALE)



**GRID-TO-UNIT CONNECTION DETAIL**  
(NOT TO SCALE)



**VICINITY SKETCH**  
(NOT TO SCALE)  
SEE CONSTRUCTION DRAWINGS BY OTHERS

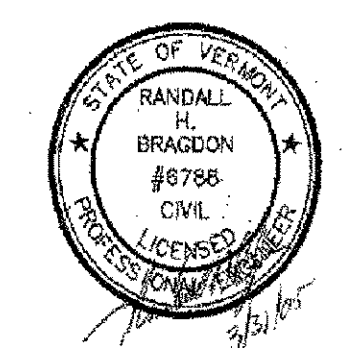
**NOTES:**

1. CARE SHOULD BE TAKEN TO REMOVE ALL ORGANIC MATERIAL FROM THE BASE EXCAVATION FOR THE RETAINING WALL.
2. IF THE PERFORATED WALL DRAIN IS TO BE CARRIED UNDER THE WALL TO OUTLET, IT SHALL BE CARRIED DOWNSLOPE ENOUGH DISTANCE TO ALLOW FOR A PROPER DRAINING SLOPE (MIN. 1% SLOPE FROM WALL TO DAYLIGHT) OR TIED TO A CLOSED DRAINAGE SYSTEM.  
DRAIN LINES (102mm HDPE) WHICH PASS UNDER THE WALL BASE SHOULD BE CENTERED UNDER THE BASE BLOCK. THE PIPE TRENCH SHALL BE MINIMIZED SO THAT THE BASE BLOCK ACTS AS A LINTEL OVER THE PIPE AND TRENCH.
3. GEOGRID CUT LENGTHS ARE MEASURED FROM THE FRONT FACE OF THE RETAINING WALL. ALL GEOGRID IS TO BE PLACED PERPENDICULAR TO THE WALL FACE, I.E. THE GRID ROLL IS PLACED ON THE WALL, ROLLED OUT BEHIND THE WALL, AND CUT TO LENGTH.

CONTRACTOR'S NOTE: THERE ARE THREE (3) DIFFERENT STRUCTURAL TYPES OF SYNTEEN GEOGRID USED IN THESE DESIGNS.

- THEY ARE DESIGNATED BY THE SYMBOLS SHOWN BELOW:
- SYNTEEN SF 55 GEOGRID
  - ..... SYNTEEN SF 80 GEOGRID
  - SYNTEEN SF 110 GEOGRID

NOTE: GEOGRID SUBSTITUTIONS WILL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE OWNER AND DESIGN ENGINEER



NOTE: THIS DRAWING WAS PREPARED FOR USE WITH REDI-ROCK (TM) RETAINING WALL SYSTEMS. CONTACT REDI-ROCK WALLS OF NEW ENGLAND AT (603) 863-1000.

**SOUHEGAN VALLEY ENGINEERING, INC.**  
CIVIL ENGINEERING CONSULTANTS SITE DESIGN SPECIALISTS  
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TEL: (603) 863-5454 FAX: (603) 863-3629  
Est. 1990 Available On The Web At www.SVEngineering.com

CLIENT: **REDI-ROCK WALLS OF NEW ENGLAND**  
8 REEDS MILL ROAD, NEWPORT, NH 03773

PROJECT: **PROPOSED BRIDGE IMPROVEMENT PROJECT**  
BETHEL, VT

SHEET TITLE: **RETAINING WALL DESIGN SHEET 2**

DATE: **MARCH 7, 2005** SCALE: **AS SHOWN** PROJECT No.: **05-169**

REFERENCE SHEET 130 OF 130

|                     |   |     |
|---------------------|---|-----|
| REVISION #2 4/14/05 | REVISED WALL DESIGN; REVISED GEOGRID QUANTITIES         | KMH |
| REVISION #1 3/28/05 | REVISED WALL DESIGN; MINOR TEXT CHANGES PER VDOT REVIEW | RHB |

REVISION SET NUMBER: 1

SHEET 2 OF 2