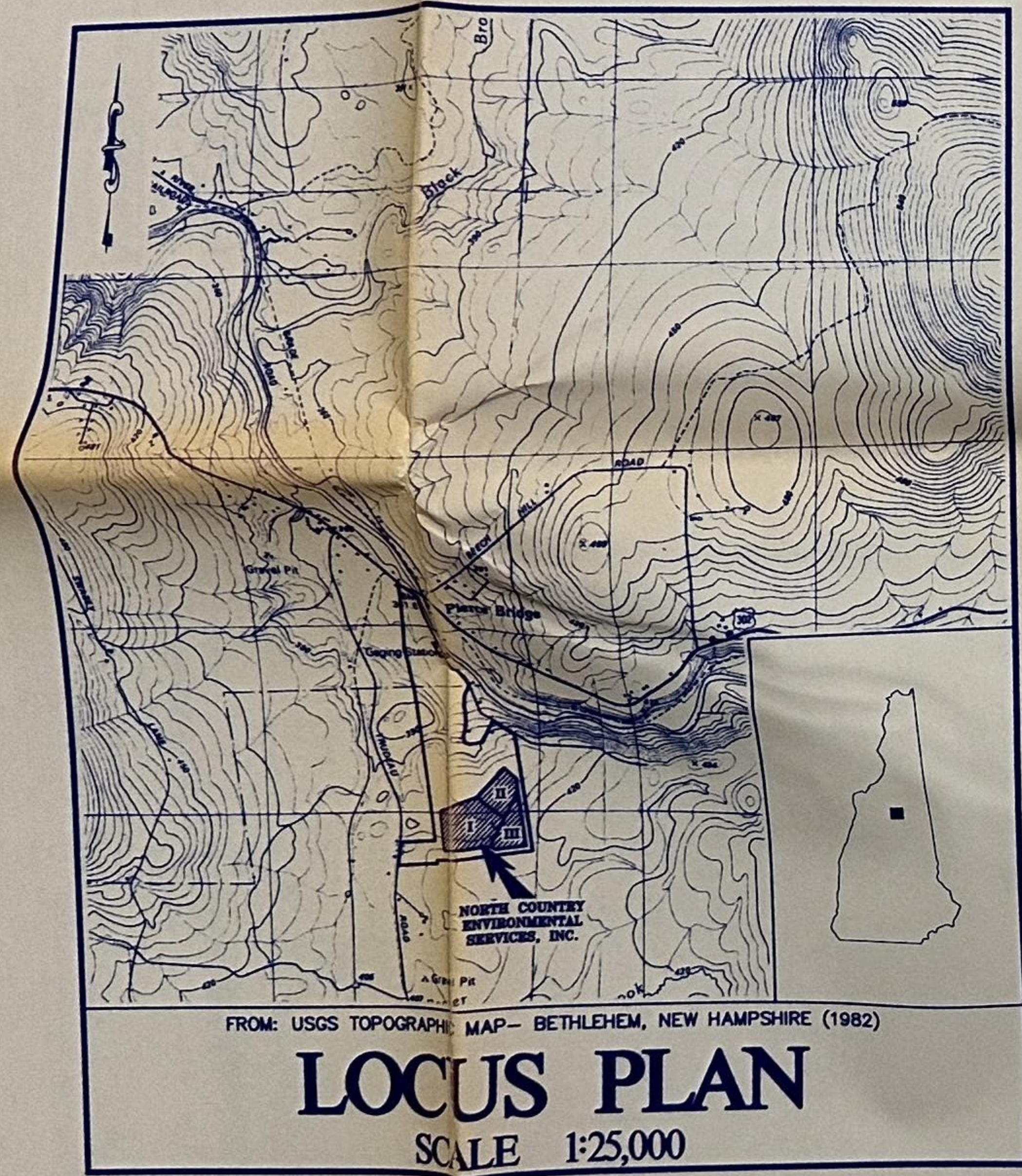


REVISED RESPONSE ACTION PLAN NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.

BETHLEHEM, NEW HAMPSHIRE

SEPTEMBER 2002



SHEET INDEX

- SHEET 1 ANCHOR TRENCH LOCATION PLAN
- SHEET 2 DETAILED AREA PLAN
- SHEET 3 ANCHOR TRENCH IMPROVEMENT DETAILS

PREPARED FOR:

NCES

NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.
BETHLEHEM, NEW HAMPSHIRE

PREPARED BY:

SHA

Sanborn, Head & Associates, Inc.
Consulting Engineers & Scientists

6 GARVINS FALLS ROAD, SUITE 1, CONCORD, NEW HAMPSHIRE
(603) 229-1900 FAX (603) 229-1919

LEGEND:

I.R.F. ●

IRON ROD FOUND

— — — — — PROPERTY LINE

~~~~~ TREE LINE

⊕ B-911 EXISTING MONITORING WELL

● B-915 EXPLORATION WITH OBSERVATION WELL

● GP-6 EXISTING GAS PROBE

—1390— EXISTING 10-FOOT CONTOUR

— — — — — EXISTING 2-FOOT CONTOUR

- - - - - LIMIT OF WASTE CONTAINMENT

- - - - - PHASE LIMIT LINE

Ⓢ EXISTING SECONDARY LEACHATE COLLECTION SYSTEM MANHOLE

Ⓟ EXISTING PRIMARY LEACHATE COLLECTION SYSTEM RISER

■ EXISTING SECONDARY 10,000-GALLON UST

▨ EXISTING PRIMARY 15,000-GALLON UST

▩ EXISTING LOADOUT TANK

◻ EXISTING 20,000-GALLON UST FOR STAGE II

▨ EXISTING GABION-LINED SWALE

▨ EXISTING RIPRAP

⊙ EXISTING BOULDER

— · — · — EDGE OF WATER

- - - - - EDGE OF ROAD

○—○ EXISTING UTILITY POLE

● LDMH LEAK DETECTION MANHOLE

— OU — — — EXISTING OVERHEAD UTILITIES

— FM — — — EXISTING FORCE MAIN

△ EXISTING SURVEY CONTROL POINT

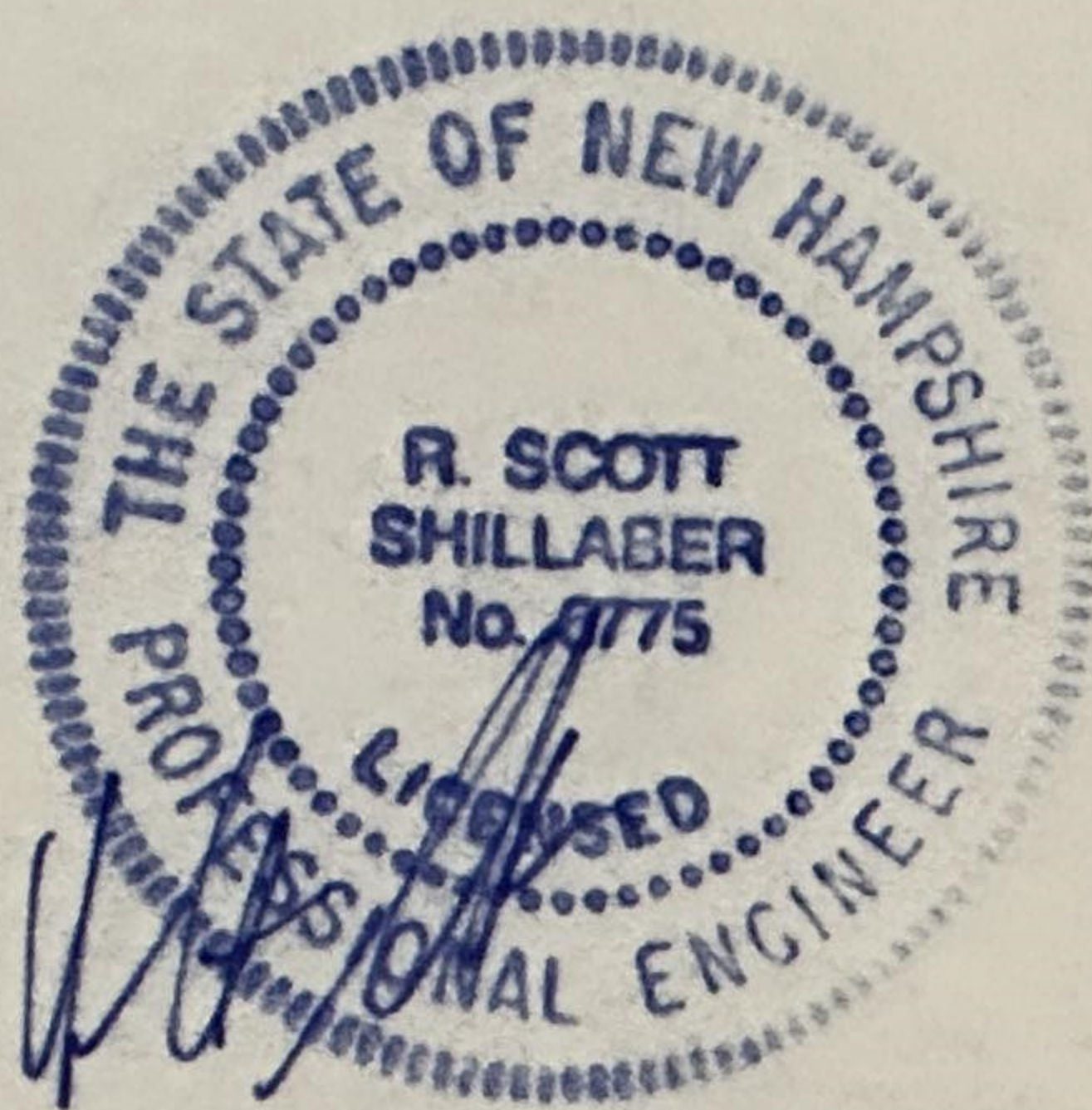
N 641162.37  
E 994483.98  
X ANCHOR TRENCH LOCATION AND ELEVATION

**REVISED RESPONSE ACTION PLAN**

**NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.**

BETHLEHEM, NEW HAMPSHIRE

**ANCHOR TRENCH LOCATION PLAN**



DRAWN BY: TWR

DESIGNED BY: RSS

CHECKED BY: RSS

REVIEWED BY: JAC

PROJECT MGR: RSS

PIC: RSS

DATE: SEP 02

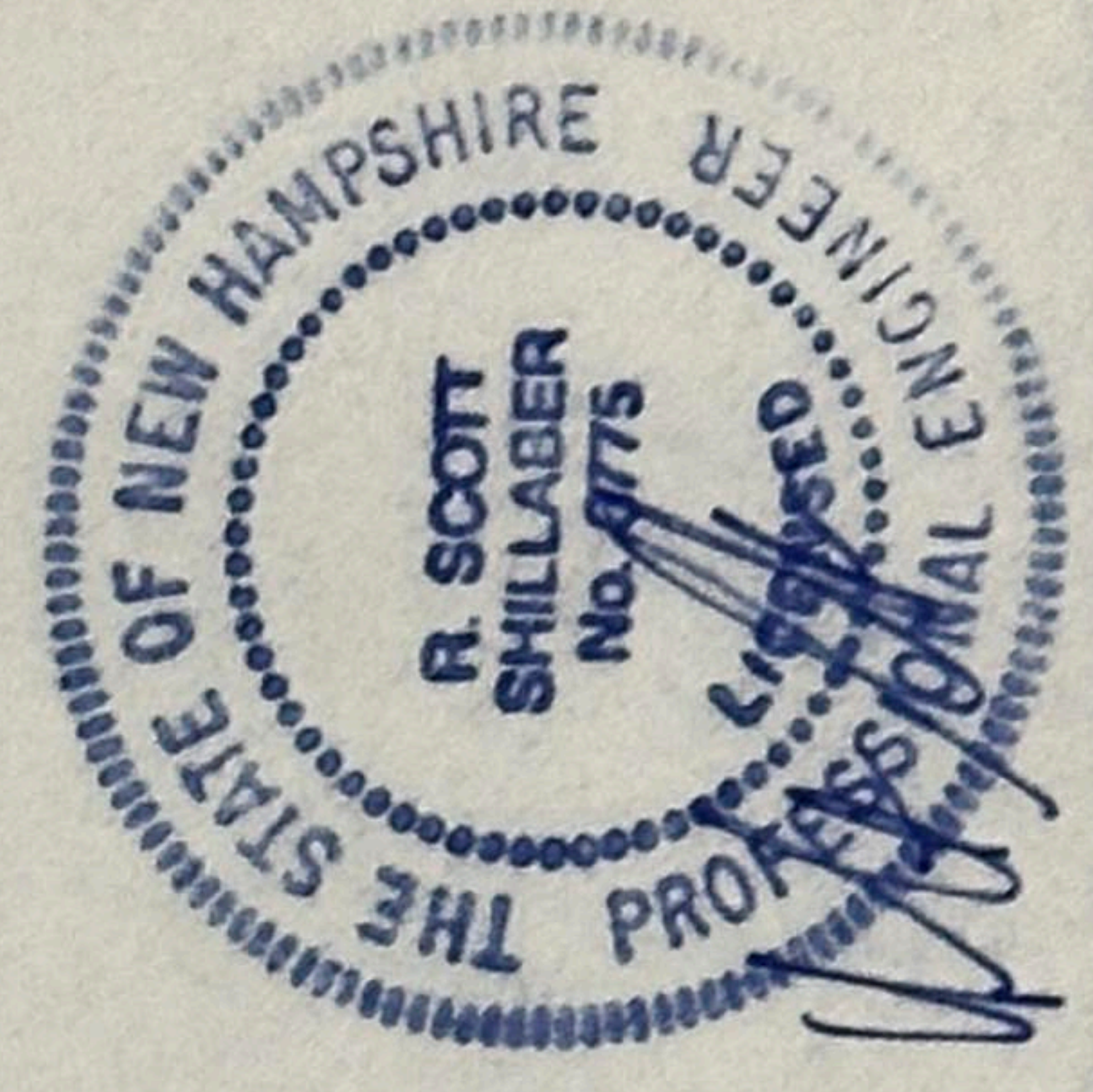
**LEGEND:**

- I.R.F.⊙ IRON ROD FOUND
- PROPERTY LINE
- ~~~~~ TREE LINE
- ⊙ B-911 EXISTING MONITORING WELL
- B-915 EXPLORATION WITH OBSERVATION WELL
- GP-6 EXISTING GAS PROBE
- 1390— EXISTING 10-FOOT CONTOUR
- EXISTING 2-FOOT CONTOUR
- LIMIT OF WASTE CONTAINMENT
- PHASE LIMIT LINE
- Ⓢ EXISTING SECONDARY LEACHATE COLLECTION SYSTEM MANHOLE
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- EXISTING SECONDARY 10,000-GALLON UST
- ▨ EXISTING PRIMARY 15,000-GALLON UST
- ▩ EXISTING LOADOUT TANK
- EXISTING 20,000-GALLON UST FOR STAGE II
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- · — EDGE OF WATER
- EDGE OF ROAD
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- OU — EXISTING OVERHEAD UTILITIES
- FM — EXISTING FORCE MAIN
- △ EXISTING SURVEY CONTROL POINT
- ⊗ N 641162.37  
E 994483.98  
EL 1352.07 ANCHOR TRENCH LOCATION AND ELEVATION

N 641169.88  
E 994580.41  
EL 1354.07

137

DRAWN BY: TWR  
DESIGNED BY: RSS  
CHECKED BY: RSS  
REVIEWED BY: JAC  
PROJECT MGR: RSS  
PIC: RSS  
DATE: SEP 02



**REVISED RESPONSE ACTION PLAN**  
**NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.**  
BETHLEHEM, NEW HAMPSHIRE  
**ANCHOR TRENCH LOCATION PLAN**

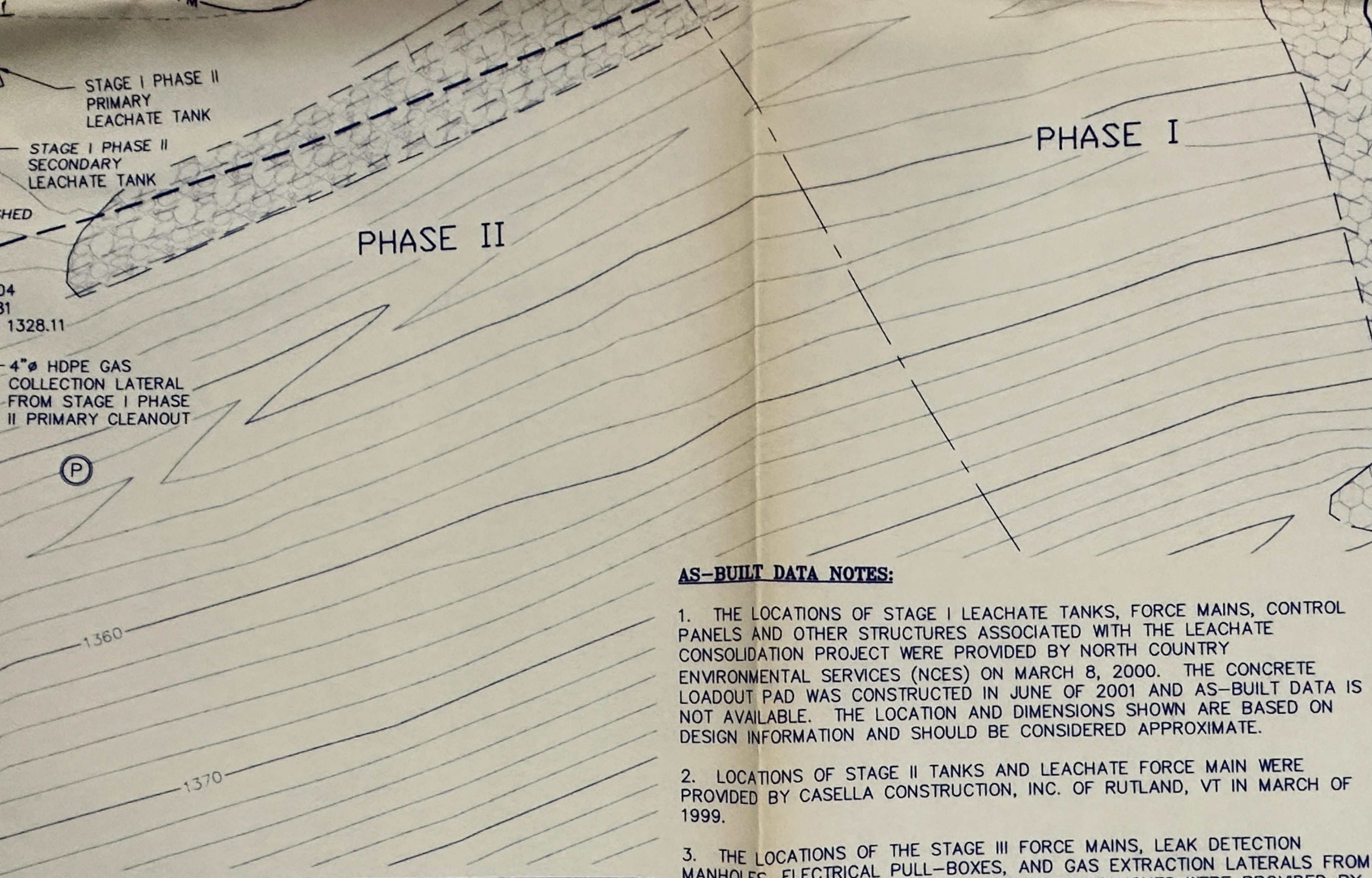
PROJECT NUMBER:  
1817.01  
SHEET NUMBER:  
1 OF 3



## NOTES:

1. THE BASE MAP WAS PRODUCED USING AN ELECTRONIC FILE PROVIDED TO SHA ON MAY 22, 2001 NAMED "5431CA.DWG" CREATED BY EASTERN TOPOGRAPHICS OF WOLFBORO, NEW HAMPSHIRE FOR NORTH COUNTRY ENVIRONMENTAL SERVICES, INC. MAPPING WAS COLLECTED FROM AERIAL PHOTOGRAPHY EXPOSED ON MAY 01, 2001 AND COMPILED ON MAY 17, 2001 USING DIGITAL TERRAIN MODELING METHODS WITH KLT ATLAS SOFTWARE. ORIGINAL SCALE 1" = 100'. HORIZONTAL DATUM IS BASED ON NAD 83 (1996) SPC NH (FEET). VERTICAL DATUM IS BASED ON NAVD 88 (FEET).

2. THE PROPERTY LINES SHOWN WERE TAKEN FROM SHEETS 1 THROUGH 3 OF PLANS TITLED "BOUNDARY SURVEY PLAN FOR CASELLA WASTE SYSTEMS, INC. ON THE LANDS OF NORTH COUNTRY ENVIRONMENTAL SERVICES" PREPARED BY ALPINE LAND SURVEYING COMPANY (ALPINE) OF LITTLETON, NEW HAMPSHIRE, DATED FEBRUARY OF 2002. PLANS WERE PROVIDED ELECTRONICALLY TO SHA BY ALPINE ON MARCH 1, 2002 IN DRAFT FORMAT AND AT AN ORIGINAL SCALE OF 1" = 100'.



4" HDPE GAS  
COLLECTION LATERAL  
FROM STAGE I PHASE  
II PRIMARY CLEANOUT

(P)

**AS-BUILT DATA NOTES:**

1. THE LOCATIONS OF STAGE I LEACHATE TANKS, FORCE MAINS, CONTROL PANELS AND OTHER STRUCTURES ASSOCIATED WITH THE LEACHATE CONSOLIDATION PROJECT WERE PROVIDED BY NORTH COUNTRY ENVIRONMENTAL SERVICES (NCES) ON MARCH 8, 2000. THE CONCRETE LOADOUT PAD WAS CONSTRUCTED IN JUNE OF 2001 AND AS-BUILT DATA IS NOT AVAILABLE. THE LOCATION AND DIMENSIONS SHOWN ARE BASED ON DESIGN INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE.
2. LOCATIONS OF STAGE II TANKS AND LEACHATE FORCE MAIN WERE PROVIDED BY CASELLA CONSTRUCTION, INC. OF RUTLAND, VT IN MARCH OF 1999.
3. THE LOCATIONS OF THE STAGE III FORCE MAINS, LEAK DETECTION MANHOLES, ELECTRICAL PULL-BOXES, AND GAS EXTRACTION LATERALS FROM THE STAGE I PHASES 2, 3 AND 4 PRIMARY CLEANOUTS WERE PROVIDED BY PIKE INDUSTRIES, INC. OF BELMONT, NH AS PART OF THE STAGE III CONSTRUCTION PROJECT COMPLETED IN DECEMBER OF 2000.
4. THE LOCATIONS AND INVERTS OF DRAINAGE CULVERTS WERE SURVEYED BY BLAIS SURVEY OF MONTPELIER, VT IN OCTOBER OF 2001.
5. THE LOCATIONS OF PIPING INSTALLED IN 2000 AS PART OF THE STAGE I DRAINAGE IMPROVEMENTS PROJECT WERE COLLECTED BY PIKE INDUSTRIES, INC. USING MEASUREMENTS FROM EXISTING STRUCTURES. COMPONENTS OF THE STAGE I DRAINAGE IMPROVEMENTS INSTALLED IN 2002 WERE SURVEYED BY ALPINE LAND SURVEYING CO. OF LITTLETON, NH.

THERE ARE ADDITIONAL SUBSURFACE UTILITIES IN THE AREA SUCH AS ELECTRIC CONDUIT AND LEACHATE PIPING, HOWEVER, AS-BUILT DATA IS NOT AVAILABLE FOR THOSE UTILITIES. EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THE AREA SHOWN ON THIS PLAN TO LIMIT DAMAGE TO EXISTING UTILITIES. UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER.

DRAWN BY: R  
DESIGNED BY: R  
CHECKED BY: R  
REVIEWED BY: R  
PROJECT NO: R



**REVISED RESPONSE ACTION PLAN**  
**NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.**  
 BETHLEHEM, NEW HAMPSHIRE  
**DETAILED AREA PLAN**

PROJECT NUMBER:  
1817.01

SHEET NUMBER:  
2 OF 3



**LEGEND:**

- 1332 --- EXISTING 2-FOOT CONTOUR
- 1340 --- EXISTING 10-FOOT CONTOUR
- TREELINE ---
- LIMIT OF WASTE CONTAINMENT ---
- PHASE LIMIT ---
- SOLID PIPE ---
- PERFORATED PIPE ---
- FM --- FM --- FORCE MAIN
- OE --- OE --- OVERHEAD ELECTRIC

- BOULDER
- UTILITY POLE
- POST
- GROUNDWATER MONITORING WELL
- OBSERVATION WELL
- LANDFILL GAS PROBE
- CONCRETE PRIMARY SUMP RISER
- CONCRETE SECONDARY SUMP RISER
- SURVEY CONTROL POINT

**NOTES:**

1. THE BASE MAP WAS PRODUCED USING AN ELECTRONIC FILE PROVIDED TO SHA ON MAY 22, 2000 NAMED "431CALDW" CREATED BY EASTERN TOPOGRAPHICS OF WOLFBOURNE, NEW HAMPSHIRE FOR NORTH COUNTRY ENVIRONMENTAL SERVICES, INC. MAPPING WAS COLLECTED FROM AERIAL PHOTOGRAPHY EXPOSED ON MAY 01, 2001 AND COMPILED ON MAY 17, 2001 USING DIGITAL TERRAIN MODELING METHODS WITH KLT ATLAS SOFTWARE. ORIGINAL SCALE 1" = 100'. HORIZONTAL DATUM IS BASED ON NAD 83 (1996) SPC NH (FEET). VERTICAL DATUM IS BASED ON NAVD 88 (FEET). CONVERSION OF ELEVATIONS FROM PREVIOUS PLANS BASED ON LOCAL LANDFILL DATUM TO NAVD 88 IS ACCOMPLISHED BY ADDING 4.83 FEET.
2. SURVEY CONTROL POINTS WERE PROVIDED BY BLAIS SURVEY COMPANY OF NEWPORT, VERMONT.

**DETENTION POND NO. 3**



| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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|     |      |             |

**Sanborn, Head & Associates**  
*Sanborn, Head & Associates*  
 Civil Engineers & Surveyors

GRAPHICAL SCALE  
 40'  
 20'  
 0'  
 20'  
 10'



**REVISED RESPONSE ACTION PLAN**  
**NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.**  
 BETHLEHEM, NEW HAMPSHIRE

**DETAILED AREA PLAN**

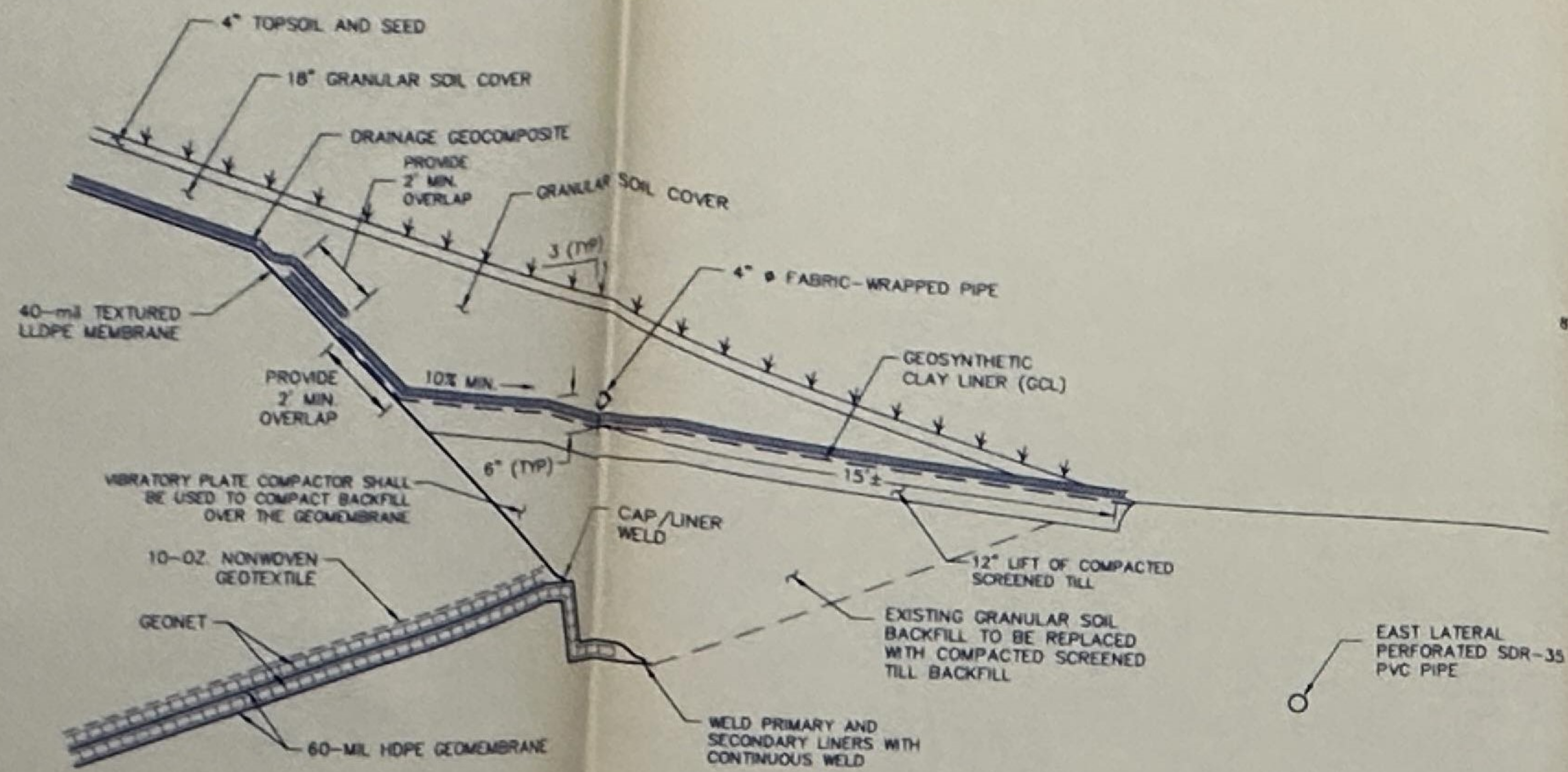
PROJECT NUMBER: 1817.01  
 SHEET NUMBER: 2 OF 3

**AS-BUILT DATA NOTES:**

1. THE LOCATIONS OF STAGE I LEACHATE TANKS, FORCE MAINS, CONTROL PANELS, AND OTHER STRUCTURES ASSOCIATED WITH THE LEACHATE CONSOLIDATION PROJECT WERE PROVIDED BY NORTH COUNTRY ENVIRONMENTAL SERVICES (NCES) ON MARCH 8, 2000. THE CONCRETE LOADOUT PAD WAS CONSTRUCTED IN JUNE OF 2001 AND AS-BUILT DATA IS NOT AVAILABLE. THE LOCATION AND DIMENSIONS SHOWN ARE BASED ON DESIGN INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE.
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### PERIMETER TOE DETAIL WITHIN DETAILED AREA

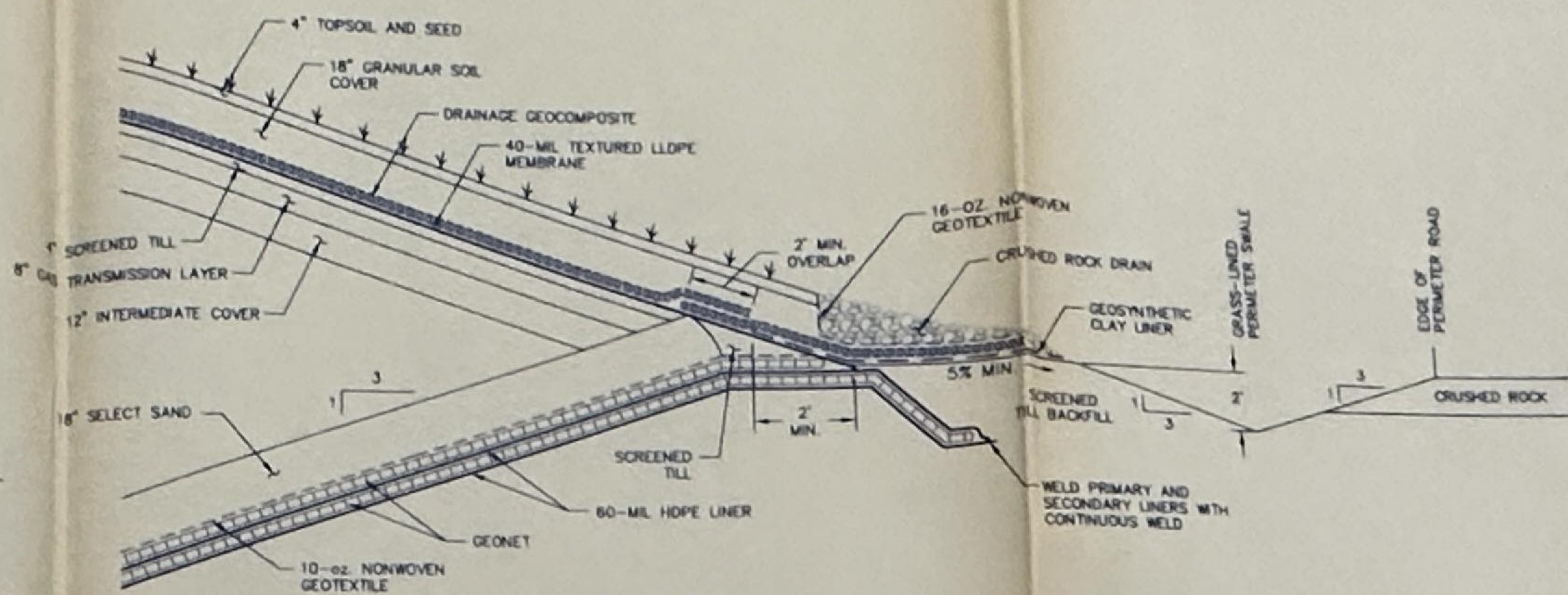
1 NOT TO SCALE

CONSTRUCTION SEQUENCE:

- CAREFULLY EXCAVATE TO EXPOSE 4" FABRIC-WRAPPED PIPE ABOVE GCL. SEGREGATE TOPSOIL AND GRANULAR SOIL COVER FOR REUSE.
- REMOVE 4" FABRIC-WRAPPED PIPE.
- CAREFULLY CUT AND REMOVE DRAINAGE GEOCOMPOSITE TO EXPOSE GCL.
- REMOVE GCL.
- CAREFULLY EXCAVATE AND SEGREGATE 12" LIFT OF COMPACTED SCREENED TILL.
- CAREFULLY EXCAVATE GRANULAR SOIL BACKFILL TO EXPOSE PRIMARY AND SECONDARY LINER TERMINATIONS IN ANCHOR TRENCH. EXCAVATION IN CLOSE PROXIMITY TO THE EXISTING CAP, LINER SYSTEMS, LANDFILL GAS PIPING, DRAINAGE PIPING OR ANY EXISTING UTILITIES SHOULD BE CONDUCTED WITH EXTREME CARE. EXCAVATION IN THESE AREAS IS TO BE OBSERVED BY THE ENGINEER. ANY DAMAGE CAUSED TO EXISTING LINER MATERIALS OR UTILITIES SHALL BE REPORTED TO THE ENGINEER AND REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER.
- CLEAN AND WELD PRIMARY AND SECONDARY LINERS TOGETHER IN ANCHOR TRENCH.
- BACKFILL ANCHOR TRENCH WITH SCREENED TILL COMPACTED TO 95 PERCENT OF STANDARD PROCTOR (ASTM D698). SLOPE SCREENED TILL TO PROVIDE 10 PERCENT MINIMUM PITCH AS SHOWN ABOVE. PROVIDE 6" DEEP DEPRESSION FOR INSTALLATION OF 4" FABRIC-WRAPPED DRAINAGE PIPE AS SHOWN ABOVE.
- INSTALL GCL PROVIDING MINIMUM 2" WIDE OVERLAP WITH EXISTING TEXTURED 40-MIL GEOMEMBRANE CAP AND 6" WIDE STRIP OF POWDERED BENTONITE BETWEEN GCL AND GEOMEMBRANE ALONG OVERLAP.
- INSTALL DRAINAGE GEOCOMPOSITE PROVIDING A MINIMUM OF 2 FEET OF OVERLAP TO EXISTING DRAINAGE GEOCOMPOSITE AND SHINGLED TO DRAIN DOWNSLOPE AS SHOWN ABOVE.
- INSTALL 4" FABRIC-WRAPPED PIPE PROVIDING A MINIMUM SLOPE OF 1% ALONG THE AXIS OF THE PIPE TO DRAIN AS WAS PREVIOUSLY INSTALLED.
- PLACE AND COMPACT GRANULAR SOIL COVER ABOVE 4" FABRIC-WRAPPED PIPE TO MATCH EXISTING SLOPE.
- PLACE 4" TOPSOIL LAYER.
- SEED AND MULCH AS REQUIRED.

SCREENED TILL SHALL BE FREE OF ICE AND SNOW, ROOTS, SOO, RUBBISH, AND OTHER DELETERIOUS OR ORGANIC MATTER AND CONFORM TO THE FOLLOWING GRADATION REQUIREMENT:

| Sieve Size | Percent Passing by Weight |
|------------|---------------------------|
| 1-inch     | 100                       |
| No. 4      | 80 - 100                  |
| No. 40     | 60 - 100                  |
| No. 200    | 20 - 70                   |



### PERIMETER TOE DETAIL OUTSIDE DETAILED AREA

2 NOT TO SCALE

CONSTRUCTION SEQUENCE:

- CAREFULLY EXCAVATE CRUSHED ROCK AND STOCKPILE MATERIAL FOR REUSE.
- REMOVE 16-OZ. NONWOVEN GEOTEXTILE.
- CAREFULLY CUT AND REMOVE DRAINAGE GEOCOMPOSITE TO EXPOSE GCL.
- REMOVE GCL.
- CAREFULLY EXCAVATE AND SEGREGATE SCREENED TILL BACKFILL TO EXPOSE PRIMARY AND SECONDARY LINER TERMINATIONS IN ANCHOR TRENCH. EXCAVATION IN CLOSE PROXIMITY TO THE EXISTING CP LINER SYSTEMS, LANDFILL GAS PIPING, DRAINAGE PIPING OR ANY EXISTING UTILITIES SHOULD BE CONDUCTED WITH EXTREME CARE. EXCAVATION IN THESE AREAS IS TO BE OBSERVED BY THE ENGINEER. ANY DAMAGE CAUSED TO EXISTING LINER MATERIALS OR UTILITIES SHALL BE REPORTED TO THE ENGINEER AND REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- CLEAN AND WELD PRIMARY AND SECONDARY LINERS TOGETHER IN ANCHOR TRENCH.
- BACKFILL ANCHOR TRENCH WITH SCREENED TILL COMPACTED TO 95 PERCENT OF STANDARD PROCTOR (ASTM D698). SLOPE SCREENED TILL TO PROVIDE 5 PERCENT MINIMUM PITCH AS SHOWN ABOVE.
- INSTALL GCL PROVIDING MINIMUM 2" WIDE OVERLAP WITH EXISTING TEXTURED 40-MIL GEOMEMBRANE CAP AND 6" WIDE STRIP OF POWDERED BENTONITE BETWEEN GCL AND GEOMEMBRANE ALONG OVERLAP.
- INSTALL DRAINAGE GEOCOMPOSITE PROVIDING A MINIMUM OF 2 FEET OF OVERLAP TO EXISTING DRAINAGE GEOCOMPOSITE AND SHINGLED TO DRAIN DOWNSLOPE AS SHOWN ABOVE.
- INSTALL 16-OZ. NONWOVEN GEOTEXTILE.
- INSTALL CRUSHED ROCK.
- RESTORE AREAS ADJACENT TO CRUSHED ROCK DRAIN AS SHOWN. SEED AND MULCH AS REQUIRED.

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |

SCALE: AS NOTED

**SIA**  
Sanborn, Head & Associates  
Geotechnical Engineering & Architecture

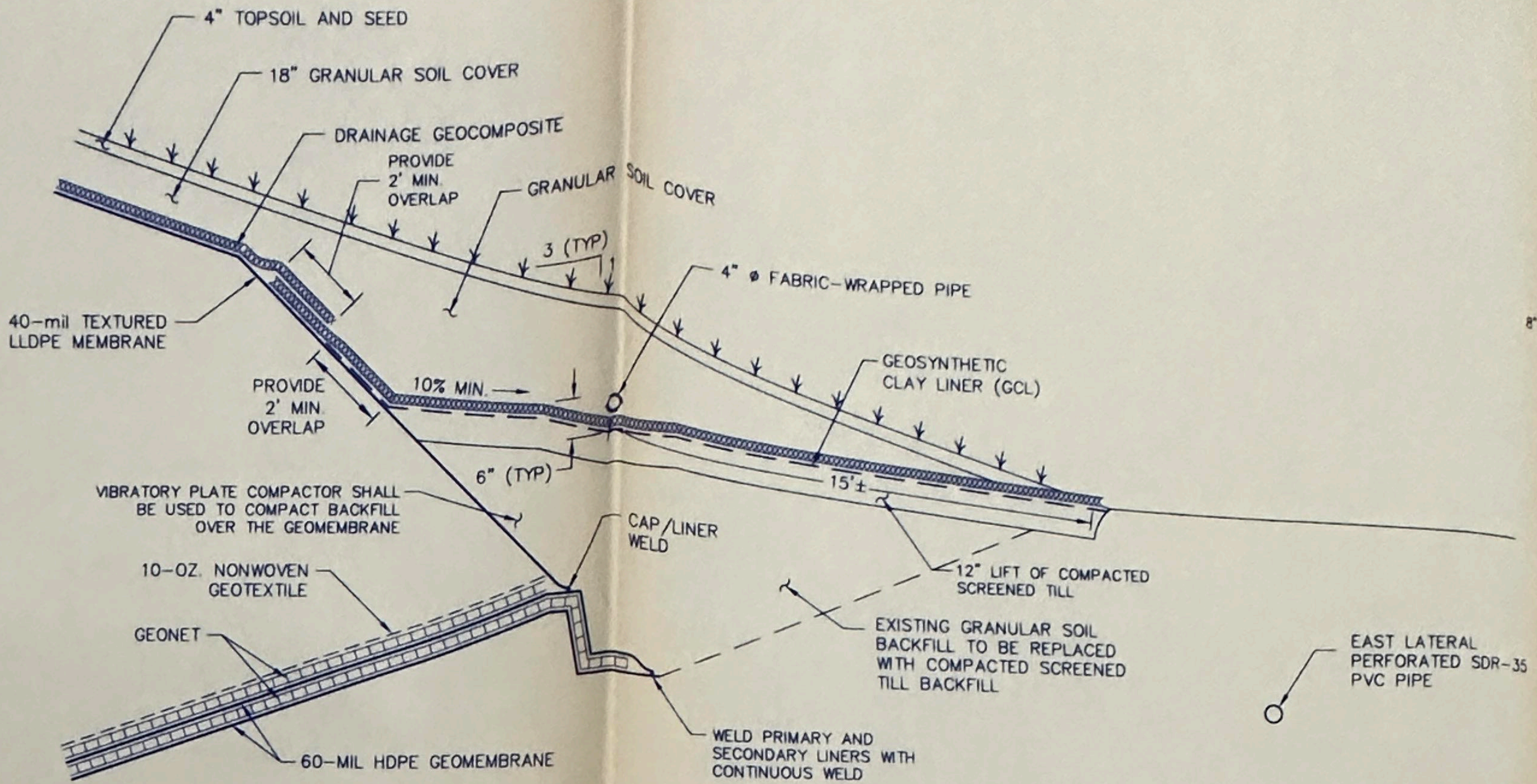
DESIGNED BY: TWR  
 CHECKED BY: JAC  
 PROJECT NO.: 1817.01  
 DATE: SEP 02



REVISED RESPONSE ACTION PLAN  
 NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.  
 BETHLEHEM, NEW HAMPSHIRE

**ANCHOR TRENCH IMPROVEMENT DETAILS**

PROJECT NUMBER: 1817.01  
 SHEET NUMBER: 3 OF 3



## PERIMETER TOE DETAIL WITHIN DETAILED AREA

1

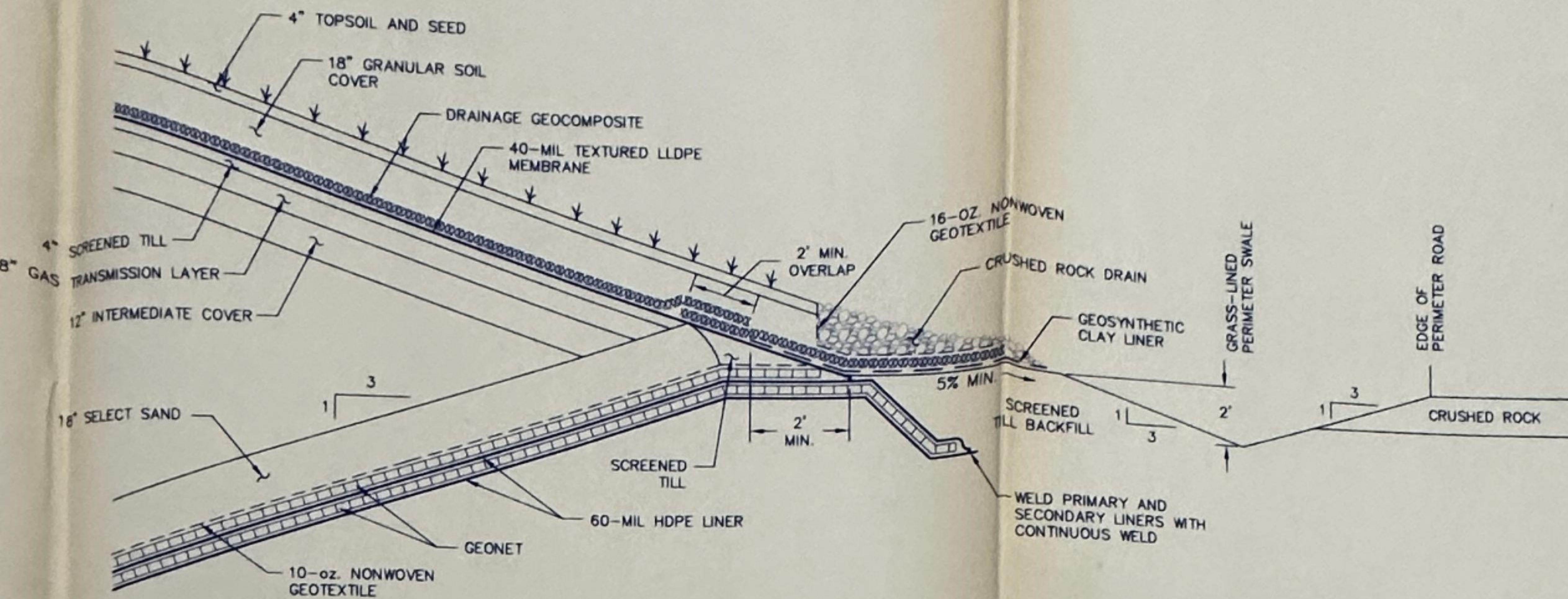
NOT TO SCALE

### CONSTRUCTION SEQUENCE:

1. CAREFULLY EXCAVATE TO EXPOSE 4" Ø FABRIC-WRAPPED PIPE ABOVE GCL. SEGREGATE TOPSOIL AND GRANULAR SOIL COVER FOR REUSE.
2. REMOVE 4" Ø FABRIC-WRAPPED PIPE.
3. CAREFULLY CUT AND REMOVE DRAINAGE GEOCOMPOSITE TO EXPOSE GCL.
4. REMOVE GCL.
5. CAREFULLY EXCAVATE AND SEGREGATE 12" LIFT OF COMPACTED SCREENED TILL.
6. CAREFULLY EXCAVATE GRANULAR SOIL BACKFILL TO EXPOSE PRIMARY AND SECONDARY LINER TERMINATIONS IN ANCHOR TRENCH. EXCAVATION IN CLOSE PROXIMITY TO THE EXISTING CAP, LINER SYSTEMS, LANDFILL GAS PIPING, DRAINAGE PIPING OR ANY EXISTING UTILITIES SHOULD BE CONDUCTED WITH EXTREME CARE. EXCAVATION IN THESE AREAS IS TO BE OBSERVED BY THE ENGINEER. ANY DAMAGE CAUSED TO EXISTING LINER MATERIALS OR UTILITIES SHALL BE REPORTED TO THE ENGINEER AND REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER.
7. CLEAN AND WELD PRIMARY AND SECONDARY LINERS TOGETHER IN ANCHOR TRENCH.
8. BACKFILL ANCHOR TRENCH WITH SCREENED TILL COMPACTED TO 95 PERCENT OF STANDARD PROCTOR (ASTM D698). SLOPE SCREENED TILL TO PROVIDE 10 PERCENT MINIMUM PITCH AS SHOWN ABOVE. PROVIDE 6" DEEP DEPRESSION FOR INSTALLATION OF 4" Ø FABRIC-WRAPPED DRAINAGE PIPE AS SHOWN ABOVE.
9. INSTALL GCL PROVIDING MINIMUM 2'-WIDE OVERLAP WITH EXISTING TEXTURED 40-mil GEOMEMBRANE CAP AND 6" WIDE STRIP OF POWDERED BENTONITE BETWEEN GCL AND GEOMEMBRANE ALONG OVERLAP.
10. INSTALL DRAINAGE GEOCOMPOSITE PROVIDING A MINIMUM OF 2 FEET OF OVERLAP TO EXISTING DRAINAGE GEOCOMPOSITE AND SHINGLED TO DRAIN DOWNSLOPE AS SHOWN ABOVE.
11. INSTALL 4" Ø FABRIC-WRAPPED PIPE PROVIDING A MINIMUM SLOPE OF 1% ALONG THE AXIS OF THE PIPE TO DRAIN AS WAS PREVIOUSLY INSTALLED.
12. PLACE AND COMPACT GRANULAR SOIL COVER ABOVE 4" Ø FABRIC-WRAPPED PIPE TO MATCH EXISTING SLOPE.
13. PLACE 4" TOPSOIL LAYER.
14. SEED AND MULCH AS REQUIRED.

SCREENED TILL SHALL BE FREE OF ICE AND SNOW, ROOTS, SOD, RUBBISH, AND OTHER DELETERIOUS OR ORGANIC MATTER AND CONFORM TO THE FOLLOWING GRADATION REQUIREMENT:

| Sieve Size | Percent Passing by Weight |
|------------|---------------------------|
| 1-inch     | 100                       |
| No. 4      | 80 - 100                  |
| No. 40     | 60 - 100                  |
| No. 200    | 20 - 70                   |



## PERIMETER TOE DETAIL OUTSIDE DETAILED AREA

2

NOT TO SCALE

### CONSTRUCTION SEQUENCE:

1. CAREFULLY EXCAVATE CRUSHED ROCK AND STOCKPILE MATERIAL FOR REUSE.
2. REMOVE 16-oz. NONWOVEN GEOTEXTILE.
3. CAREFULLY CUT AND REMOVE DRAINAGE GEOCOMPOSITE TO EXPOSE GCL.
4. REMOVE GCL.
5. CAREFULLY EXCAVATE AND SEGREGATE SCREENED TILL BACKFILL TO EXPOSE PRIMARY AND SECONDARY LINER TERMINATIONS IN ANCHOR TRENCH. EXCAVATION IN CLOSE PROXIMITY TO THE EXISTING CIP, LINER SYSTEMS, LANDFILL GAS PIPING, DRAINAGE PIPING OR ANY EXISTING UTILITIES SHOULD BE CONDUCTED WITH EXTREME CARE. EXCAVATION IN THESE AREAS IS TO BE OBSERVED BY THE ENGINEER. ANY DAMAGE CAUSED TO EXISTING LINER MATERIALS OF UTILITIES SHALL BE REPORTED TO THE ENGINEER AND REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER.
6. CLEAN AND WELD PRIMARY AND SECONDARY LINERS TOGETHER IN ANCHOR TRENCH.
7. BACKFILL ANCHOR TRENCH WITH SCREENED TILL COMPACTED TO 95 PERCENT OF STANDARD PROCTOR (ASTM D698). SLOPE SCREENED TILL TO PROVIDE 5 PERCENT MINIMUM PITCH AS SHOWN ABOVE.
8. INSTALL GCL PROVIDING MINIMUM 2'-WIDE OVERLAP WITH EXISTING TEXTURED 40-mil GEOMEMBRANE CAP AND 6" WIDE STRIP OF POWDERED BENTONITE BETWEEN GCL AND GEOMEMBRANE ALONG OVERLAP.
9. INSTALL DRAINAGE GEOCOMPOSITE PROVIDING A MINIMUM OF 2 FEET OF OVERLAP TO EXISTING DRAINAGE GEOCOMPOSITE AND SHINGLED TO DRAIN DOWNSLOPE AS SHOWN ABOVE.
10. INSTALL 16-oz. NONWOVEN GEOTEXTILE.
11. INSTALL CRUSHED ROCK.
12. RESTORE AREAS ADJACENT TO CRUSHED ROCK DRAIN AS SHOWN. SEED AND MULCH AS REQUIRED.

SCALE: AS NOTED

**SMA**  
Sanborn, Head & Associates  
Consulting Engineers & Scientists

DRAWN BY: TWR  
DESIGNED BY: RSS  
CHECKED BY: RSS  
REVIEWED BY: JNC  
PROJECT MGR: RSS  
DATE: SEP 02



REVISED RESPONSE ACTION PLAN  
NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.  
BETHLEHEM, NEW HAMPSHIRE

ANCHOR TRENCH IMPROVEMENT  
DETAILS

PROJECT NUMBER:  
1817.01

SHEET NUMBER:  
3 OF 3