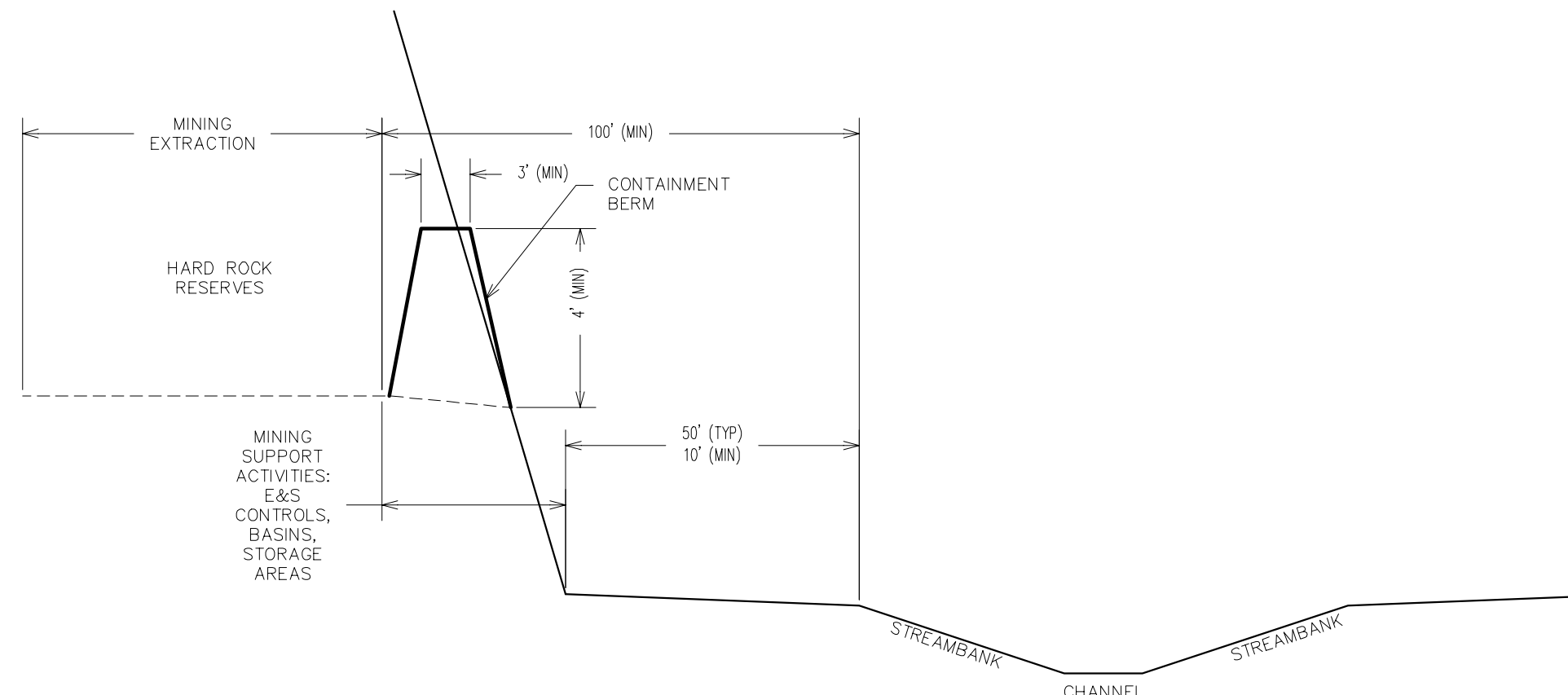
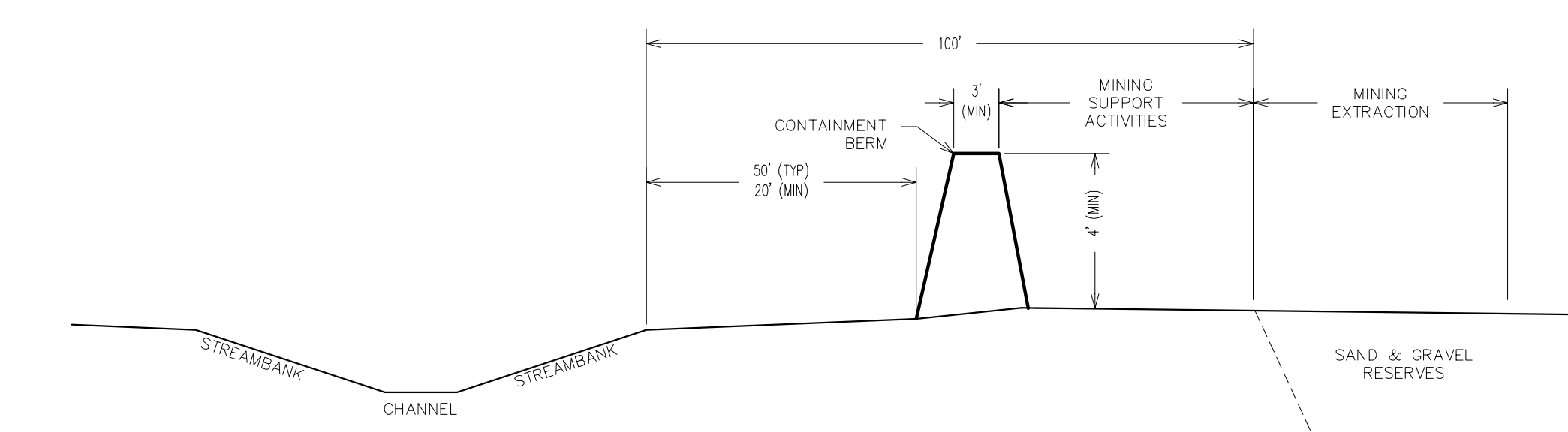


11
10.2
CHEMUNG RIVER
FLOODWAY ENCROACHMENT - SAND & GRAVEL MINING
NTS

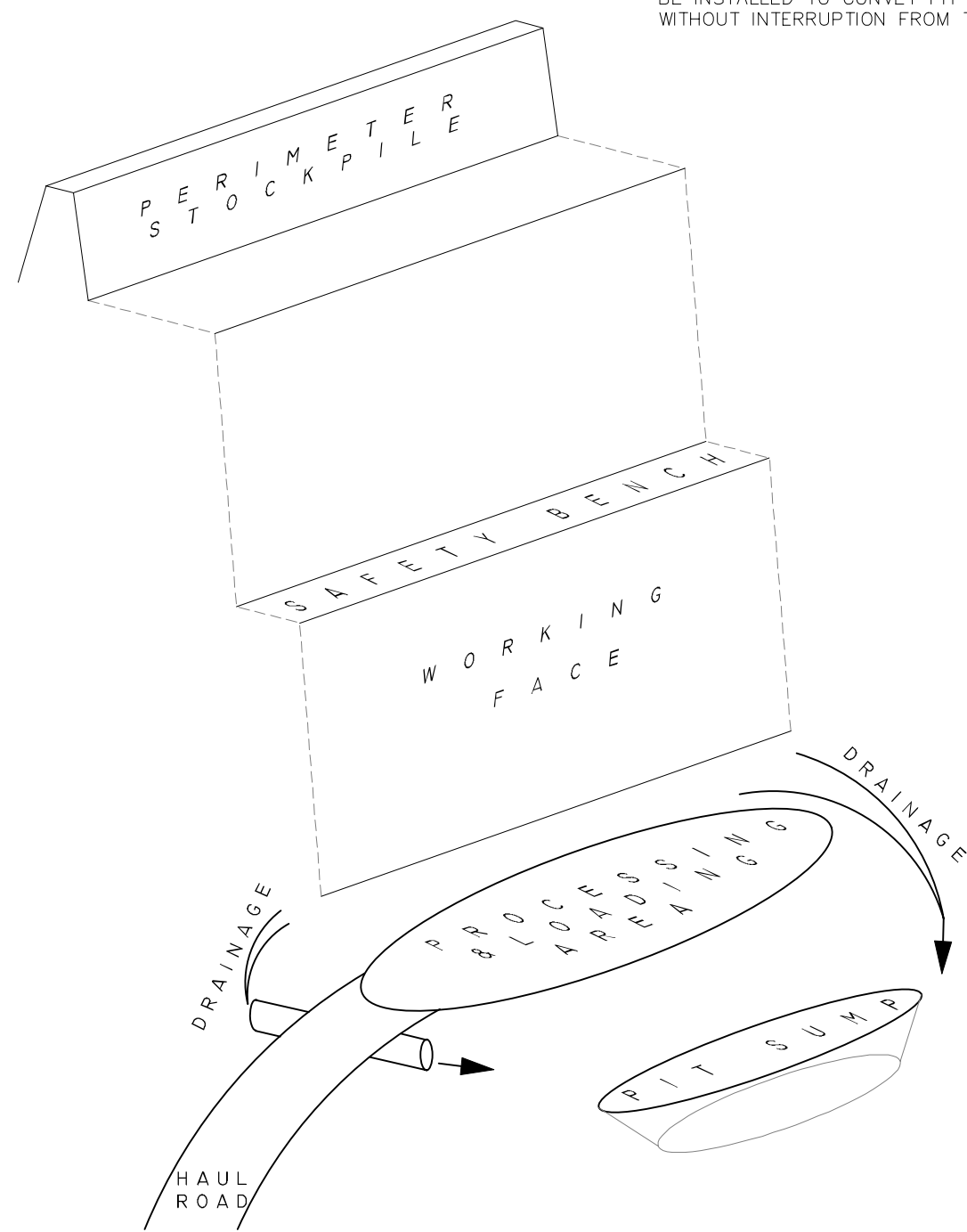


6
10.2
TUTELOW CREEK &
UNT 1 TUTELOW CREEK ENCROACHMENT - HARD ROCK MINING
NTS

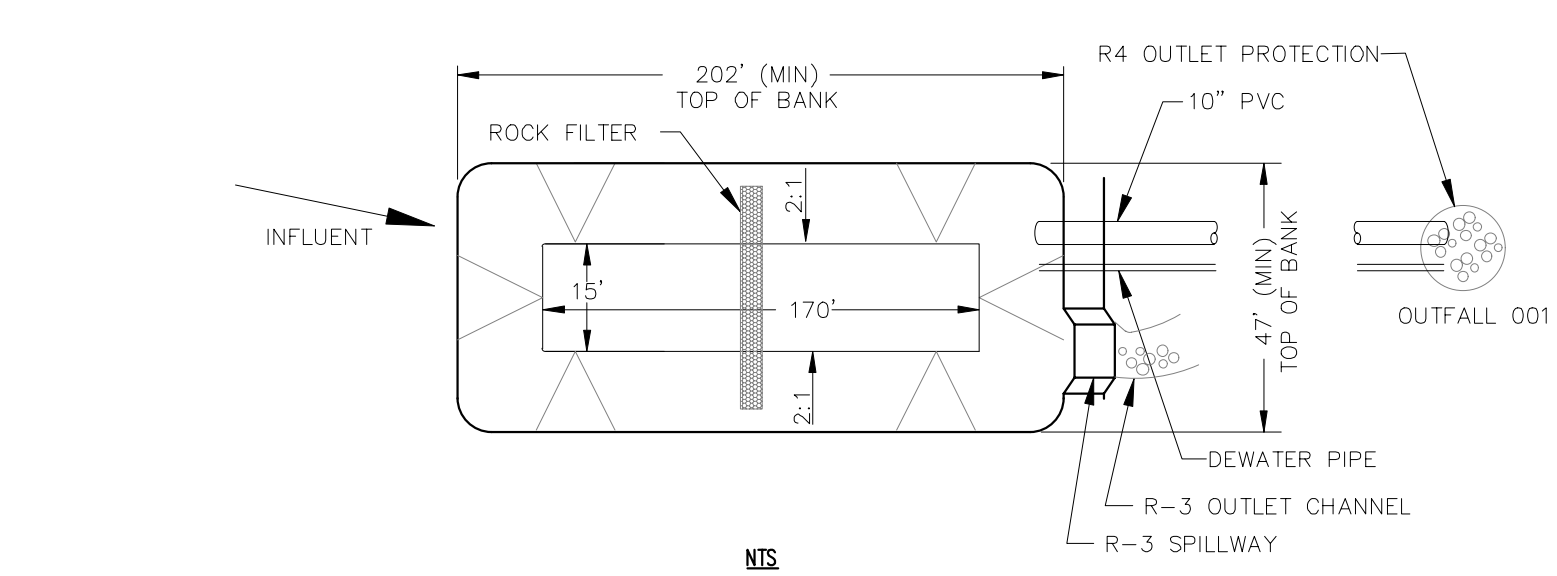


5
10.2
TUTELOW CREEK ENCROACHMENT - SAND & GRAVEL MINING
NTS

- NOTES:
1. PIT FLOOR PROCESSING & LOADING AREA MUST BE ABOVE THE WATER LEVEL OF THE PIT SUMP.
 2. PIT SUMP SHALL BE SIZED TO CONTROL STORMWATER RUNOFF FROM CONTRIBUTING DRAINAGE AREA.
 3. EQUIPMENT AND TRUCKS SHALL NOT TRAVEL THROUGH STANDING PIT WATER.
 4. CONTROLS SUCH AS PIPES AND/OR DIVERSIONS SHALL BE INSTALLED TO CONVEY PIT WATER TO SUMP WITHOUT INTERRUPTION FROM TRAFFIC.

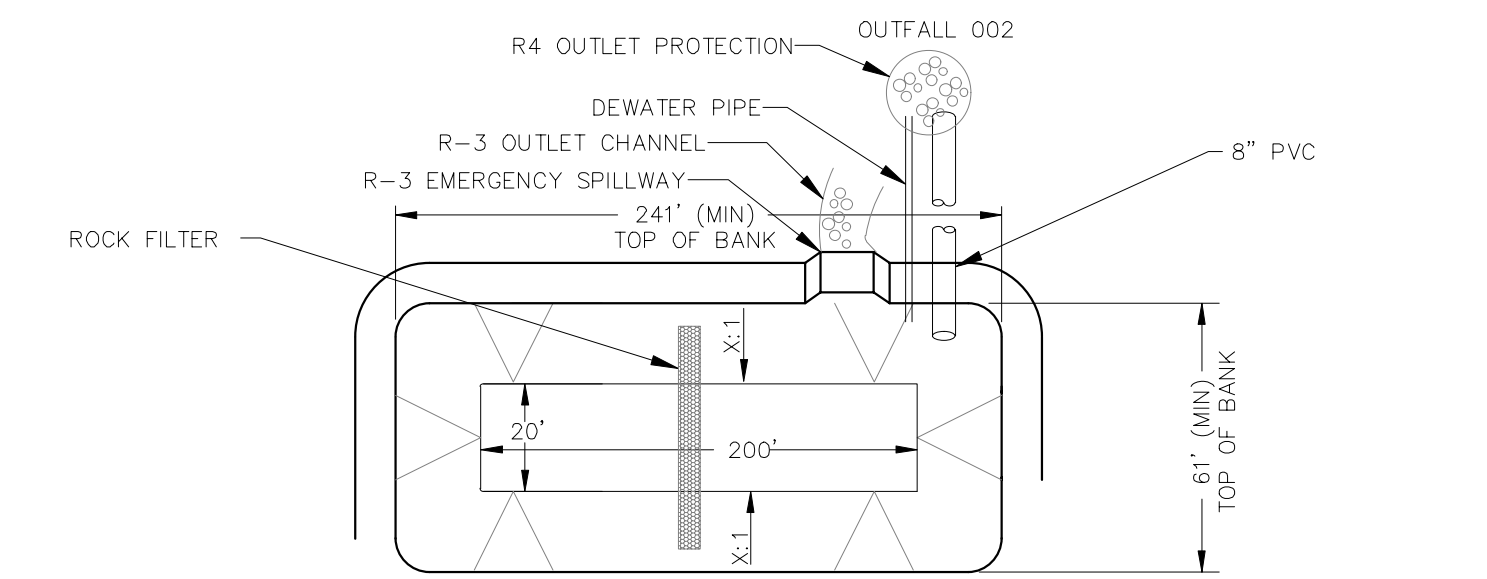


1
10.2
PIT SUMP LOCATION DETAIL & PERIMETER SAFETY FENCE
NTS



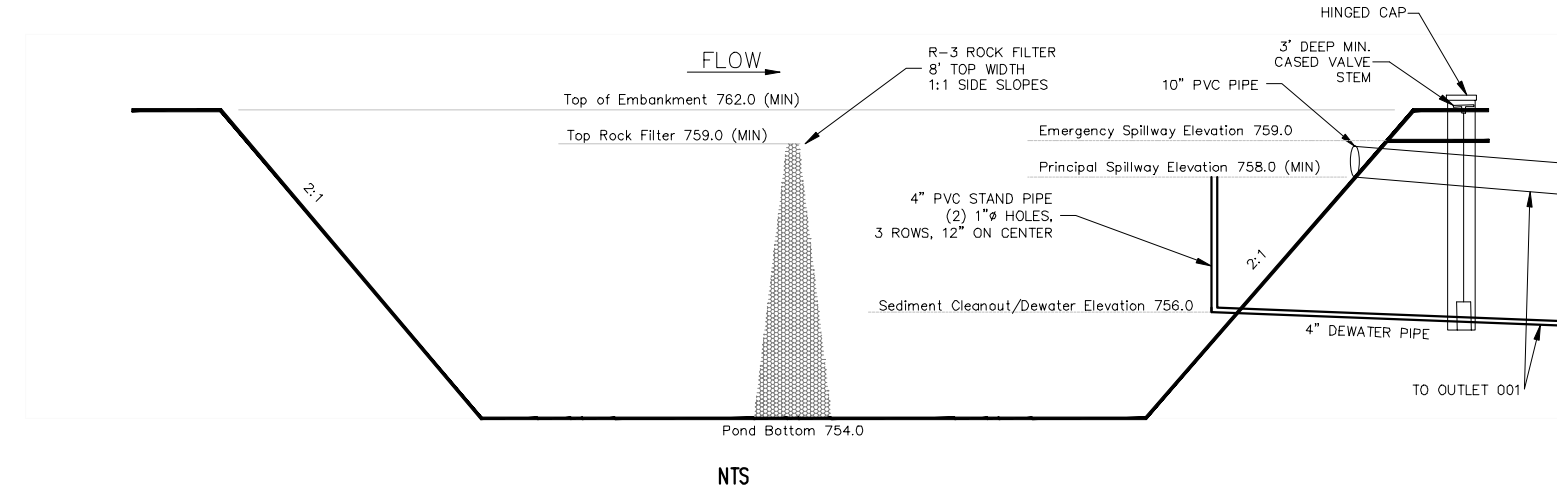
- NOTE:
1. EMERGENCY SPILLWAY WIDTH = 25' (SEE DETAIL 13, EXHIBIT 10.1)
 2. EMBANKMENT TOP WIDTH = 10' (MIN)
 3. OUTSLOPES SHALL BE 3:1 (TYP)
 4. SEED & MULCH ALL DISTURBED AREAS AT COMPLETION OF CONSTRUCTION

2
10.2
BASIN 1 DETAIL
NTS



- NOTE:
1. EMERGENCY SPILLWAY WIDTH = 45' (SEE DETAIL 13, EXHIBIT 10.1)
 2. EMBANKMENT TOP WIDTH = 10' (MIN)
 3. OUTSLOPES SHALL BE 3:1 (TYP)
 4. SEED & MULCH ALL DISTURBED AREAS AT COMPLETION OF CONSTRUCTION

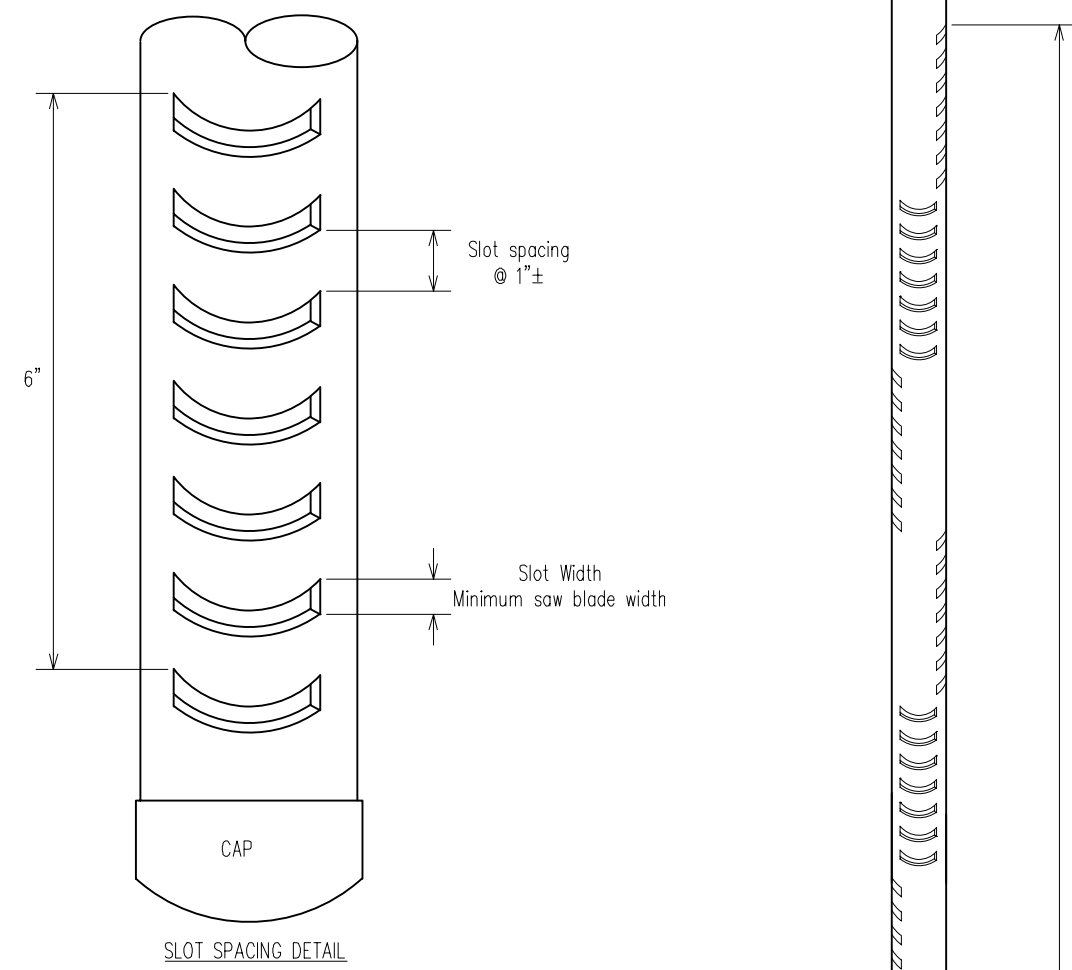
3
10.2
BASIN 2 DETAIL
NTS



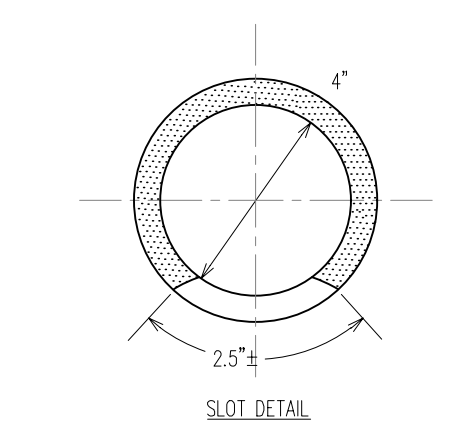
- DESIGN NOTES:
1. COMPOST SOCK SEDIMENT TRAP SHALL BE SIZED TO PROVIDE 2000 CUBIC FEET OF STORAGE CAPACITY FOR EACH ACRE TRIBUTARY TO THE TRAP.
 2. MINIMUM BASE WIDTH IS EQUAL TO THE HEIGHT.
 3. SEDIMENT ACCUMULATION SHALL NOT EXCEED 1/3 THE TOTAL HEIGHT OF THE TRAP.
 4. SOCKS SHALL BE OF LARGER DIAMETER AT THE BASE OF THE TRAP AND DECREASE IN DIAMETER FOR SUCCESSIVE LAYERS AS SHOWN ON THE PLAN VIEW.
 5. ENDS OF THE TRAP SHALL BE A MINIMUM OF 1 FOOT HIGHER IN ELEVATION THAN THE MID-SECTION, WHICH SHALL BE LOCATED AT THE POINT OF DISCHARGE.
- NOTES:
- SOCK MATERIAL SHALL MEET THE STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
- COMPOST SOCK SEDIMENT TRAPS SHALL NOT EXCEED THREE SOCKS IN HEIGHT AND SHALL BE STACKED IN PYRAMIDAL FORM AS SHOWN ABOVE. MINIMUM TRAP HEIGHT IS ONE 24" DIAMETER SOCK. ADDITIONAL STORAGE MAY BE PROVIDED BY MEANS OF AN EXCAVATED SUMP 12" DEEP EXTENDING 1 TO 3 FEET UPSLOPE OF THE SOCKS ALONG THE LOWER SIDE OF THE TRAP.
- COMPOST SOCK SEDIMENT TRAPS SHALL PROVIDE 2,000 CUBIC FEET STORAGE CAPACITY WITH 12" FREEBOARD FOR EACH TRIBUTARY DRAINAGE ACRE. (SEE MANUFACTURER FOR ANTICIPATED SETTLEMENT.)
- THE MAXIMUM TRIBUTARY DRAINAGE AREA IS 5.0 ACRES. SINCE COMPOST SOCKS ARE "FLOW-THROUGH," NO SPILLWAY IS REQUIRED.
- COMPOST SOCK SEDIMENT TRAPS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 THE HEIGHT OF THE SOCKS.
- PHOTODEGRADABLE AND BIODEGRADABLE SOCKS SHALL NOT BE USED FOR MORE THAN 1 YEAR.

4
10.2
COMPOST SEDIMENT TRAP FOR PERIMETER CONTROLS
NTS

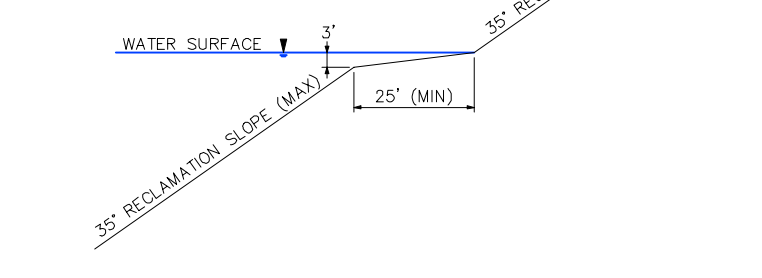
- NOTE:
1. Seven (7) slots every 6'
 2. Rotate slots 60° every set of slots.
 3. Wrap all slots with nylon screen & clamp to pipe.



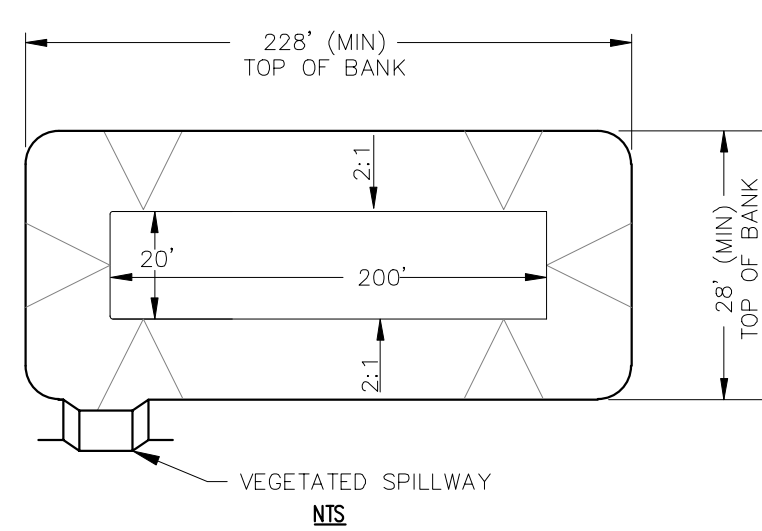
7
10.2
IMPOUNDMENT SAFETY BENCH DETAIL
NTS



8
10.2
PIPE PERFORATION DETAIL
NTS

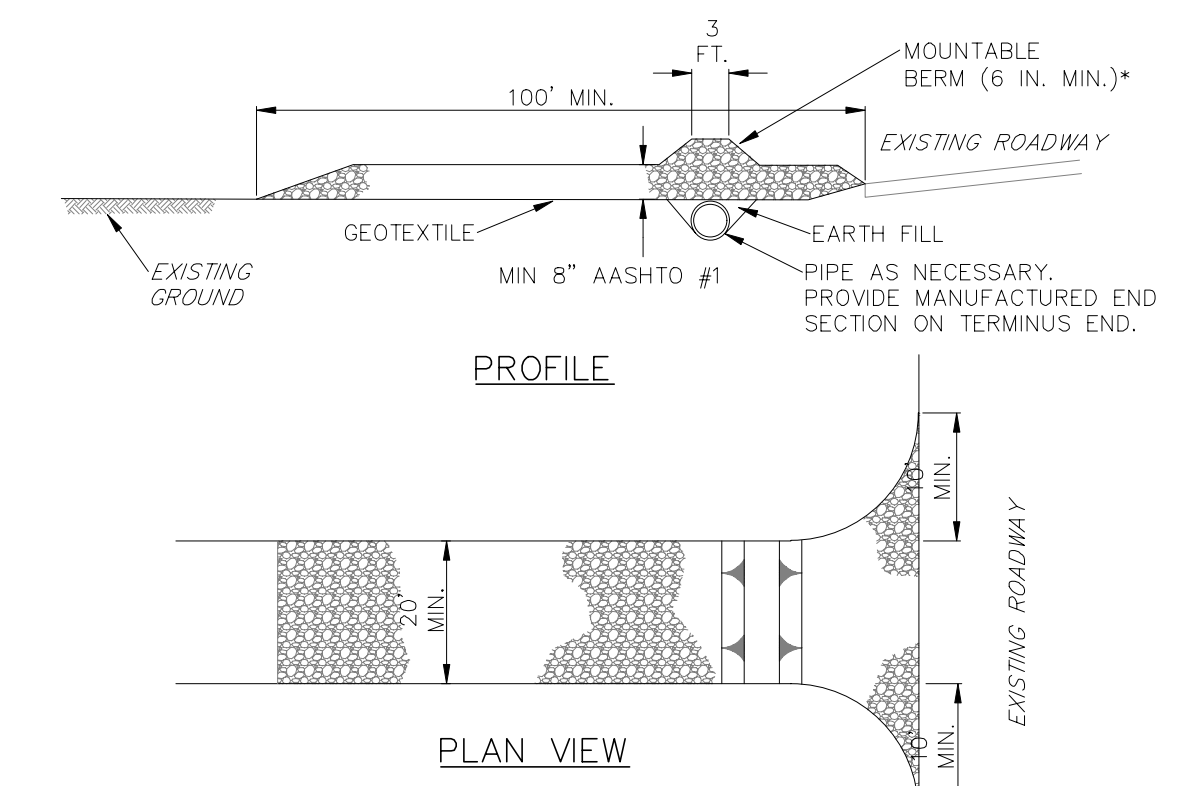


9
10.2
ROCK CONSTRUCTION ENTRANCE
NTS

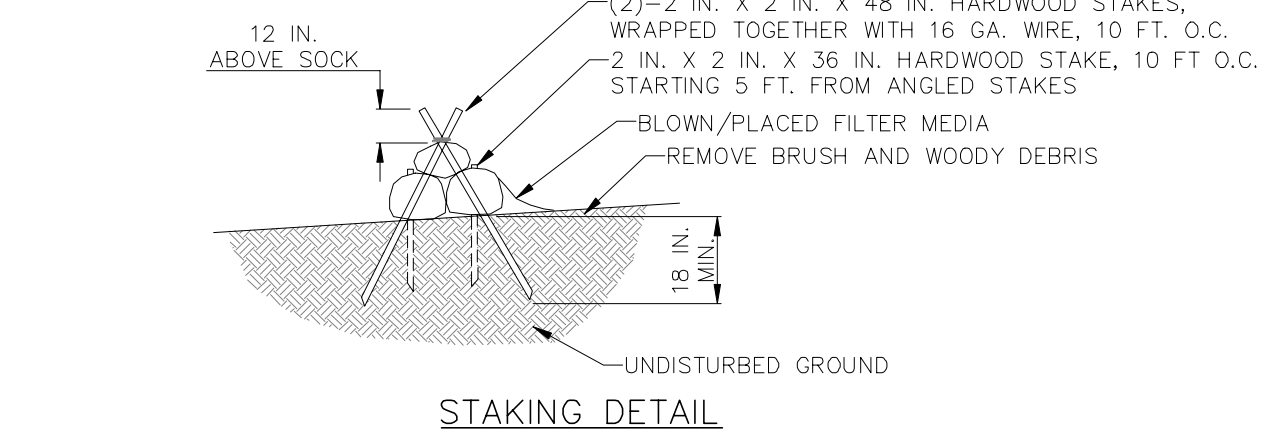
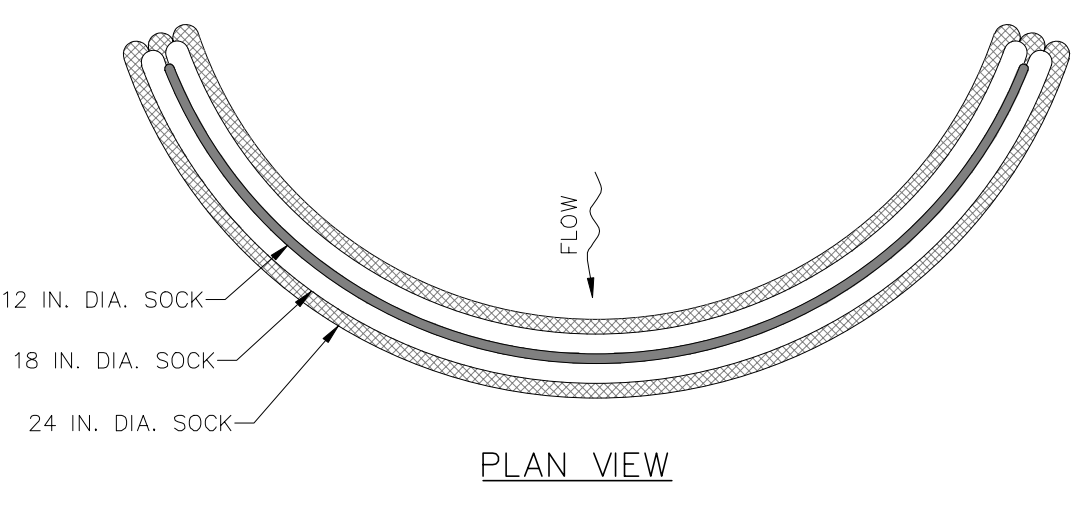


- NOTE:
1. EMERGENCY SPILLWAY WIDTH = 30' (SEE DETAIL 13, EXHIBIT 10.1)
 2. EMBANKMENT TOP WIDTH = 5' (MIN)
 3. SEED & MULCH ALL DISTURBED AREAS AT COMPLETION OF CONSTRUCTION

10
10.2
SUPPORT AREA SUMP 1 & 2
NTS



9
10.2
ROCK CONSTRUCTION ENTRANCE
NTS



- STANDARD CONSTRUCTION DETAIL #3-11
COMPOST SOCK SEDIMENT TRAP
NOT TO SCALE

FILE	Minard-100113.dwg	DATE	07/26/24
REV.	2	DATE	07/26/24
BY	ing	DATE	07/26/24
CHKD BY	ing	DATE	07/26/24
APP'D BY	ing	DATE	07/26/24
PROJECT NO.	201013	PROJECT NAME	Minard-100113
DRAWING NO.	10.2	DRAWING TITLE	ROCK CONSTRUCTION ENTRANCE
DRAWN BY	ing	CHECKED BY	ing
DATE	07/26/24	DATE	07/26/24
SCALE	NTS	SCALE	NTS
PROJECT	TRACT ENGINEERING, PLLC 120 Ridge Avenue State College, PA 16803 814.272.0301 www.TractILC.com		
PROJECT	Minard Mine Bishop Brothers Construction Co., Inc Athens Township, Bradford County, Pennsylvania Lands of Lawrence Mine Tax Parcel ID: 09-000-00-104		
TITLE	Exhibit 10.2 Mining Details		
Date:	05/05/23		
Rev No:	2		
Sheet No:	1 of 1		