NOTES
WATER OR GAS METER
GAS LINE
OVERHEAD ELEC & TYPICAL CONTROL POINT
MINE PORTAL
BUILDINGS, STRUCTURES
WELL
UTILITY POLE
FENCE
BORING LOCATION
OVERHEAD POWER LINE
TELEPHONE LINES
LIGHT POLE
EQUIPMENT AREA
WORK LIMITS

EXISTING MINE PORTAL
EXISTING REFUSE LIMITS
EXISTING CINDER BLOCK BUILDING (BURNT)
EXISTING BRIDGE
EXISTING LOG PILE
EXISTING GATE

STA. NO. NORTHING EASTING ELEV.
201 540248.87 1880936.65 757.07 RE-BAR/CAP
202 540287.48 1881100.95 759.71 RE-BAR/CAP
218 540209.30 1881263.22 768.95 RE-BAR/CAP
239 540010.57 1881766.56 768.35 RE-BAR/CAP
240 539839.86 1881792.61 770.44 RE-BAR/CAP

LEGEND

CAUTION

LOCATION POINTS ARE DIFFERENCES OF TOWNSHIP IN THE SURVEY REPORT.
FROM THE SURVEYOR'S DESIGNS.
ALL ANGLES ARE TRUE ANGLES.
DISTANCES ARE SURVEY DISTANCES.
APPROPRIATE CONTACT IS CLIENT.
SUPERVISION IS RESPONSIBLE.
ACTUAL LIMIT LOCATIONS MAY SCATTER FROM THE
CONSTRUCTION CONTRACTOR TO ACCOMMODATE.
AND LIMITS ARE TO BE URGED.

SITE NO. 2
EXISTING CONDITIONS
AND TAX MAP OVERLAY

BROAD RUN PORTALS

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ABANDONED MINE LANDS AND RECLAMATION
NOTE: The diagram contains various locations and features marked with symbols and text labels. Here are some key elements:

- **EXISTING MINE PORTAL**: Several locations are marked as existing mine portals.
- **EXISTING MINE VENTS**: Locations where mine vents are present.
- **EXISTING MINE TIPPLE**: Locations of existing mine tipplings.
- **EXISTING 48" DIA. CONCRETE PIPE**: Marked sections of existing concrete pipes.
- **EXISTING POND**: Locations of existing ponds.
- **EXISTING GAS LINE AND TELEPHONE LINE**: Locations where gas lines and telephone lines are present.
- **EXISTING LOCKED GATE**: Locations of existing locked gates.

In addition, the diagram includes a legend with symbols and a survey control section with coordinates and descriptions for various points.

The survey control section includes points labeled with STA numbers, northings, eastings, and elevations. The coordinates and descriptions are as follows:

- **STA 346**
  - Northing: 537952.55
  - Easting: 1883601.27
  - Elev.: 632.77
  - Description: RE-BAR/CAP

- **STA 10001**
  - Northing: 538429.32
  - Easting: 1884227.69
  - Elev.: 770.88
  - Description: RE-BAR/CAP

- **STA 10002**
  - Northing: 538173.87
  - Easting: 1884062.36
  - Elev.: 770.99
  - Description: RE-BAR/CAP

The diagram also includes a notice at the bottom stating: "THIS PLAN CONTAINS SYMBOLS OR TEXT NOT ACCURATE ON THE PLANS. CAUTION: ANY REVISIONS TO THIS PLAN MUST BE APPROVED BY THE CONTRACTOR AND DRAWER AS THE DRAWING RESPONSIBILITY RESTS WITH THE CONTRACTOR."
NOTES:
1. STRUCTURES, MINING EQUIPMENT, GARBAGE, SCRAP METAL, LOG PILES AND DEBRIS TO BE REMOVED FROM THE SITE AS APPROVED BY WVDEP AND DISPOSED OF PROPERLY. (SEE EXISTING SITE CONDITIONS MAP FOR LOCATIONS)
2. ALL AREAS WHERE STRUCTURES ARE REMOVED WILL BE REGRADED AND VEGETATED TO ELIMINATE ALL GULLIES AND TO BLEND TO EXISTING GRADE.
3. ADDITIONAL ISOLATED SCATTERED DEBRIS MAY BE PRESENT OTHER THAN THOSE SHOWN ON THIS PLAN.

WORK LIMITS
EXISTING TIMBER MINE TIPPLE
EXISTING 48" x 309.29' DIA. CONCRETE PIPE
EXISTING 12" DIA. x 35.23' LG. STEEL PIPE CASING FOR 2" GASLINE
EXISTING POND B
EXISTING POND A
EXISTING POND C
PROPOSED WET MINE SEAL
PROPOSED STABILIZED CONSTRUCTION ENTRANCE
PROPOSED DRY MINE SEAL
PROPOSED TEMPORARY STONE CHECK DAMS
PROPOSED TEMPORARY CULVERT CROSSING
PROPOSED CHANNEL D
PROPOSED CHANNEL A
PROPOSED CHANNEL C
PROPOSED DRY MINE SEAL
PROPOSED DRY MINE SEAL
EXISTING MINE EQUIPMENT TO BE REMOVED
EXISTING MINE PORTAL (COLLAPSED)

NOTES:
1. STRUCTURES, MINING EQUIPMENT, GARBAGE, SCRAP METAL, LOG PILES AND DEBRIS TO BE REMOVED FROM THE SITE AS APPROVED BY WVDEP AND DISPOSED OF PROPERLY. (SEE EXISTING SITE CONDITIONS MAP FOR LOCATIONS)
2. ALL AREAS WHERE STRUCTURES ARE REMOVED WILL BE REGRADED AND VEGETATED TO ELIMINATE ALL GULLIES AND TO BLEND TO EXISTING GRADE.
3. ADDITIONAL ISOLATED SCATTERED DEBRIS MAY BE PRESENT OTHER THAN THOSE SHOWN ON THIS PLAN.

ALL AREAS WHERE STRUCTURES ARE REMOVED WILL BE REGRADED AND VEGETATED TO ELIMINATE ALL GULLIES AND TO BLEND TO EXISTING GRADE.

ADDITIONAL ISOLATED SCATTERED DEBRIS MAY BE PRESENT OTHER THAN THOSE SHOWN ON THIS PLAN.
SCB NOTES:

1.) POSTS: STEEL EITHER T OR U TYPE OR 1" X 1" HARDWOOD.

2.) FILTER CLOTH TO BE FASTENED SECURELY POSTS WITH STAPLES, NAILS, WIRE, CORD OR POCKETS.

PROPOSED TEMPORARY 36" CULVERT CROSSING (TYPICAL PLAN WILL VARY ON EACH SITE)

PROPOSED TEMPORARY STONE CHECK DAM

NOTES:

1.) ROCK SHALL CONSIST OF CRUSHED STONE OR ROUGH SHOT ROCK. IN-PLACE RAMMED OR HAMMERED ROCK SHALL BE ACCEPTABLE. THE ROCK SHALL BE HARD DURABLE SANDSTONE OR LIMESTONE. THE ROCK SHALL HAVE A MAXIMUM WEIGHTED LOSS OF THIRTY (30) PERCENT WHEN SUBJECTED TO FIVE (5) CYCLES OF THE SODIUM SULFATE SOUNDNESS TEST; ASTM C-88 AS MODIFIED BY AASHTO T-104 (MODIFIED FOR TESTING OF LEDGE ROCK). SHALE OR OTHER ROCK WITH HIGH WEATHERING POTENTIAL SHALL NOT BE USED.

2.) ROCK SHALL BE WELL-GRADED ROCK RANGING IN SIZE FROM THREE (3) TO SIX (6) INCHES WITH A MEDIAN DIAMETER (D50) OF FOUR AND FIVE TENTHS (4.5) INCHES.

3.) STONE CHECK DAMS SHALL BE REMOVED AFTER REVEGETATION AND DIRECTED BY THE ENGINEER.
**Typical Construction Details**

**Applicable to all BAT Gates**

- **EARTHEN BACKFILL**
- **COAL PAVEMENT**
- **TYPICAL CONSTRUCTION DETAILS**
- **(APPLICABLE TO ALL BAT GATES)**
- **VARIES.**
  - **SEE CHART**

- **2’**
- **2’**

- **THE HDPE CULVERT, SHALL BE INSTALLED AT A 2% MINIMUM GRADE, TYPICAL OF ALL.**

- **GEOTEXTILE PERFORATED ROOF CONTACT 6’ MINIMUM**

- **EARTHEN BACKFILL AS PER PLANS AND AS APPROVED BY THE ENGINEER MINIMUM 6” THICK**

- **STONE BEDDING OF 3” x 6” STONE**

- **GRAVEL**

- **BULKHEAD**

- **EXISTING MINE OPENING**

- **HANCOR SURE-LOK PIPE (VARIING PER SEAL)**

- **4” x 4” x 3/8” ANGLE**

- **EARTHEN BACKFILL**

- **HDPE CULVERT 36” MIN. DIA.**

- **COAL RIB**

- **PIPE LENGTH VARIES.**
  - **SEE PLAN AND TYPICAL SECTIONS**

- **PROVIDE 6 - 1” HOLES SPACED 1’ ON CENTER.**

- **NOTE: PERFORATE ON PIPE WALLS NOT ON RIBS.**

- **PERFORATION DETAIL**

- **STAGGER ADJACENT ROWS**

- **FACE OF MINE ENTRANCE**

- **DOUBLE WALL CORRUGATED PIPE**

- **END VIEW**

- **PLAN**

- **CROSS SECTION**

- **CROSS SECTION HORIZONTAL BAR**

- **STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION ABANDONED MINE LANDS AND RECLAMATION**

- **BROAD RUN PORTALS**

- **BAT GATE DETAILS**

- **DETAIL 9.3**

- **BAT GATE PIPE WITH BAT GATE ATTACHED NOT TO SCALE**

- **NOTE: NOT TO SCALE**

- **SEE PLAN AND TYPICAL SECTIONS**

- **PROPOSED CHANNEL MINIMUM 6” THICK**

- **STONE BEDDING OF #1 STONE**

- **GRAVEL BULKHEAD OF 3” x 6” STONE**

- **EXISTING GROUND**

- **FACE OF MINE ENTRANCE 1.0’**

- **END VIEW**

- **PLAN**

- **CROSS SECTION**

- **CROSS SECTION HORIZONTAL BAR**