SHINNS RUN PORTALS

NEAR SHINNSTON, CLAY (OUTSIDE) DISTRICT, HARRISON COUNTY, WEST VIRGINIA

SCHEDULE OF ESTIMATED QUANTITIES (PAGE 1 OF 1)

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Cubic Yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SECTIONS AND EXCAVATION</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CONSTRUCTION WORK PREPARATION</td>
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</tr>
<tr>
<td>3</td>
<td>SUPPORT CONTROL</td>
<td></td>
</tr>
<tr>
<td>4.1</td>
<td>BOREHOLE RECOMMENDATION</td>
<td></td>
</tr>
<tr>
<td>4.2</td>
<td>TEMPORARY ACCESS ROAD</td>
<td></td>
</tr>
<tr>
<td>4.3</td>
<td>ITEMS SUPPLIED TO BE REMOVED</td>
<td></td>
</tr>
<tr>
<td>5.1</td>
<td>ROCK REMOVAL</td>
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</tr>
<tr>
<td>5.2</td>
<td>SOIL REMOVAL</td>
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</tr>
<tr>
<td>7.1</td>
<td>1.0 FT (30 CM) VERTICAL SHIFT</td>
<td>760 LRT</td>
</tr>
<tr>
<td>7.2</td>
<td>1.5 FT (45 CM) VERTICAL SHIFT</td>
<td>110 LRT</td>
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<tr>
<td>7.3</td>
<td>2.0 FT (60 CM) VERTICAL SHIFT</td>
<td>90 LRT</td>
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<td>7.4</td>
<td>3.0 FT (90 CM) VERTICAL SHIFT</td>
<td>216 LRT</td>
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<td>4.0 FT (120 CM) VERTICAL SHIFT</td>
<td>380 LRT</td>
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<td>7.6</td>
<td>5.0 FT (150 CM) VERTICAL SHIFT</td>
<td>500 LRT</td>
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<tr>
<td>7.7</td>
<td>6.0 FT (180 CM) VERTICAL SHIFT</td>
<td>500 LRT</td>
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<tr>
<td>8.1</td>
<td>UNASSIGNED ROCK</td>
<td>1,000 LRT</td>
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<tr>
<td>9.1</td>
<td>UNASSIGNED ROCK</td>
<td>8,750 LRT</td>
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<tr>
<td>9.2</td>
<td>UNASSIGNED SOIL</td>
<td>0 LRT</td>
</tr>
<tr>
<td>9.3</td>
<td>UNASSIGNED SOIL</td>
<td>990 LRT</td>
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SCHEDULE OF ESTIMATED QUANTITIES (PAGE 2 OF 2)

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<th>No.</th>
<th>Description</th>
<th>Cubic Yards</th>
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<tbody>
<tr>
<td>10.1</td>
<td>ROAD REMOVAL</td>
<td>270 LRT</td>
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<td>10.2</td>
<td>UGB REMOVAL</td>
<td>270 LRT</td>
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<tr>
<td>10.3</td>
<td>6&quot; X 6&quot; GRID GRID FOR DRAIN PIPE</td>
<td>140 LRT</td>
</tr>
<tr>
<td>10.4</td>
<td>6&quot; DRAIN PIPE</td>
<td>6 LRT</td>
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<tr>
<td>10.5</td>
<td>7&quot; DRAIN PIPE</td>
<td>3 LRT</td>
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<tr>
<td>11.1</td>
<td>ROAD REMOVAL ORIFING ROAD</td>
<td>300 LRT</td>
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<tr>
<td>11.2</td>
<td>ROAD REMOVAL ORIFING ROAD</td>
<td>100 LRT</td>
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<tr>
<td>11.3</td>
<td>ROAD REMOVAL ORIFING ROAD</td>
<td>50 LRT</td>
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<tr>
<td>12.1</td>
<td>ROAD RECONSTRUCTION</td>
<td>100 LRT</td>
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<tr>
<td>12.2</td>
<td>6&quot; X 6&quot; GRID GRID FOR DRAIN PIPE</td>
<td>150 LRT</td>
</tr>
<tr>
<td>12.3</td>
<td>50 FINE GRID</td>
<td>500 LRT</td>
</tr>
</tbody>
</table>

ENGINEER:
REGISTERED PROFESSIONAL ENGINEER
P.E. No. 15629

Date: AUGUST 21, 2015

PROJECT: SHINNS RUN PORTALS

DETAILED INDEX

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SHINNS RUN PORTALS 4-11

DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF ABANDONED MINE LANDS

SHINNS RUN PORTALS

I-79

MARCH 2014
NEW MINING COLONY (OUTSIDE) DISTRICT, HARRISON COUNTY, WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS
131-204
MARCH 2014
PWC
DRAFT
DRAFT

EXISTING CONDITIONS
SHEET 1

DESCRIPTION
DATE
NO
REVISION RECORD
1
03/18/2015
ADDED NEW BOREHOLES
2
08/20/2015
MOVED ACCESS ROAD OFF TAX MAP 188, PARCEL 34.5

SHINNS RUN PORTALS
NEAR SHINNSTON, CLAY (OUTSIDE) DISTRICT, HARRISON COUNTY, WEST VIRGINIA

EXISTING LEGEND

NORTH
1"=50'

DIRECTIONS:  PROCEED EAST ON SCOTT ROAD FROM STATE ROUTE 19.  AT THE T-JUNCTION WITH COUNTRY ROAD 125, PROCEED NORTH FOR 0.2 MILES TO Site.  FROM SITE, PROCEED EAST ON COUNTY ROAD 125 FOR 2 MILES TO TAX MAP 188, PARCEL 34.5.  THE PORTALS ARE LOCATED ALONG THE ROAD OFF TAX MAP 188, PARCEL 34.5.
PHILO W. CLARK, M.P.A.
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
OFFICE OF
ABANDONED MINE LANDS

TAX MAP OVERLAY SHEET 1
1"=50'

TM 208
P 45

TM 208
P 45.2

TM 208
P 45.1

TM 1009
P 8

NORTH LAKE WITH SHEET 2 OF 2

DESCRIPTION:

1. 03/18/2015
ADDED NEW BOREHOLES

2. 08/20/2015
MOVED ACCESS ROAD OFF TAX MAP 188, PARCEL 34.5

SHINNS RUN PORTALS
NEAR SHINNSTON, CLAY (OUTSIDE) DISTRICT,
HARRISON COUNTY, WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS

131-204
MARCH 2014
PWC
DRAFT
DRAFT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS

SHINNS RUN PORTALS

NEAR SHINNSTON, CLAY (OUTSIDE) DISTRICT,
HARRISON COUNTY, WEST VIRGINIA

BASELINE ONE CROSS SECTIONS
STA. 2+50 TO STA. 3+75

REVISION RECORD
1
03/18/2015
ADDED NEW BOREHOLES

2
08/20/2015
MOVED ACCESS ROAD OFF TAX MAP 188, PARCEL 34.5
DESCRIPTION
DATE
NO
REVISION RECORD
03/18/2015
ADDED NEW BOREHOLES
08/20/2015
MOVED ACCESS ROAD OFF TAX MAP 188, PARCEL 34.5

SHINNS RUN PORTALS
NEAR SHINNSTON, CLAY (OUTSIDE) DISTRICT,
HARRISON COUNTY, WEST VIRGINIA

BASELINE ONE CROSS SECTIONS
STA. 4+00 TO STA. 5+00
AND DITCH NUMBER ONE PROFILE
AS NOTED
DESCRIPTION
DATE
NO
REVISION RECORD
1 03/18/2015 ADDED NEW BOREHOLES
2 08/20/2015 MOVED ACCESS ROAD OFF TAX MAP 188, PARCEL 34.5

SHINNS RUN PORTALS

NEAR SHINNSTON, CLAY (OUTSIDE) DISTRICT, HARRISON COUNTY, WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS

MARCH 2014

PWC DRAFT

SEEP COLLECTOR NUMBER ONE, UNDERDRAIN NUMBER TWO, AND SEEP COLLECTOR NUMBER THREE PROFILES AS NOTED
SHINNS RUN PORTALS

DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS

131-204

MARCH 2014

PWC

DRAFT

A. Mine Seal Nos. Seven and Eight
B. Gabion Basket Details
C. Gabion Basket Base (Bottom Row)
D. Gabion Basket Base (Top Row)
E. Plan View
F. Cross Section A. - A.
G. Cross Section B. - B.
H. Ring Fastener

Gabion Basket and Rendo Mattress Details

Notes:
1. The cross sections A. A. are to be used to determine the construction
   of the mine seal. The rings are to be placed in the mine seal
   to keep the mine seal level.
2. The mine seal is to be constructed of 12 in. high, 24 in. wide, and
   30 in. long gabions. The mine seal is to be placed in the mine
   seal to keep the mine seal level.
3. The mine seal is to be constructed of 12 in. high, 24 in. wide, and
   30 in. long gabions. The mine seal is to be placed in the mine
   seal to keep the mine seal level.

MINE SEAL NOS. SEVEN AND EIGHT

GABION BASKET DETAILS

GABION BASKET BASE (BOTTOM ROW)

GABION BASKET BASE (TOP ROW)

PLAN VIEW

CROSS SECTION A. - A.

REVISION RECORD

1. 03/18/2015
   ADDED NEW BOREHOLES

2. 08/20/2015
   MOVED ACCESS ROAD OFF TAX MAP 188, PARCEL 34.5

DESCRIPTION

DATE

NO

REVISION  RECORD