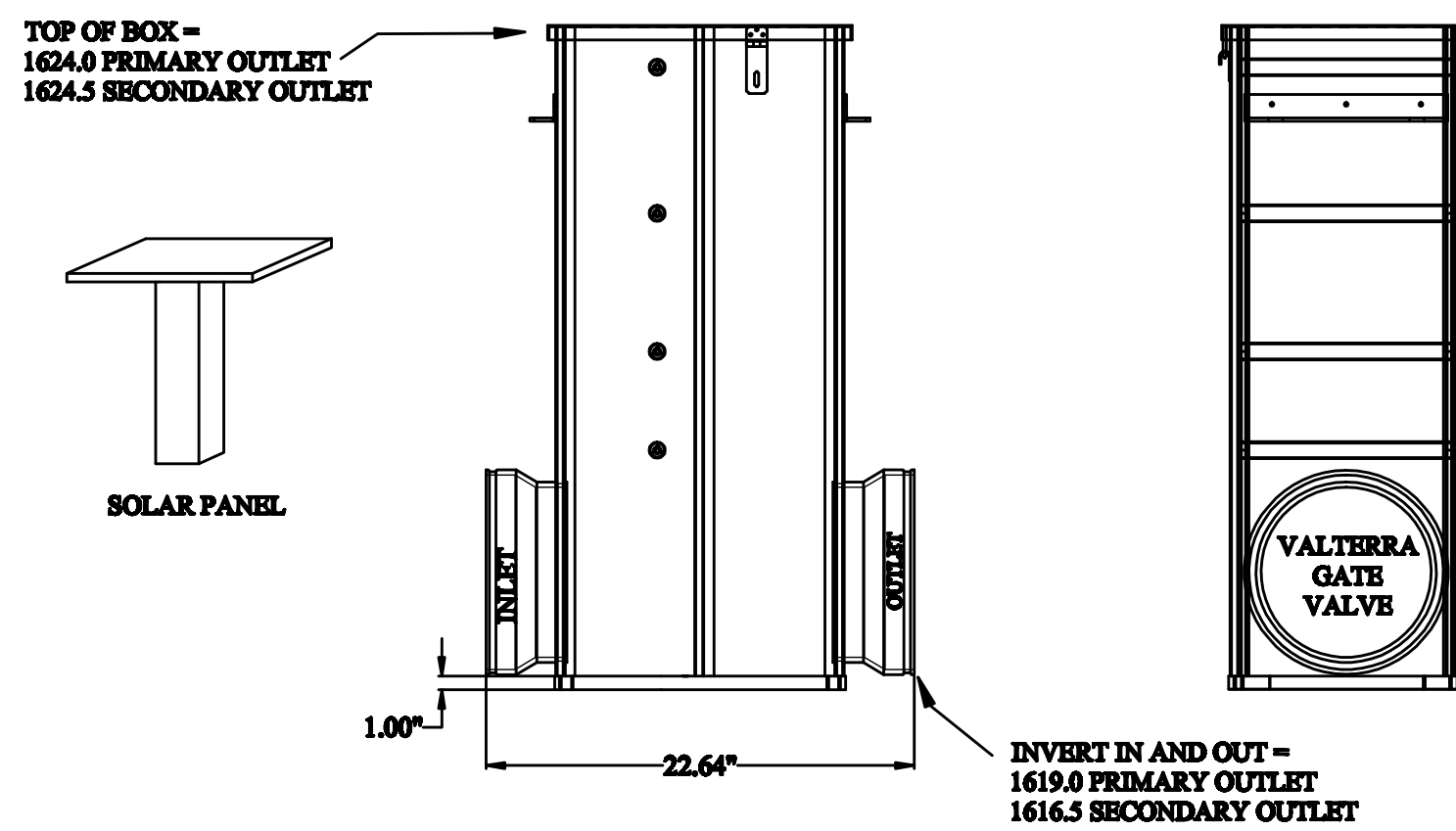


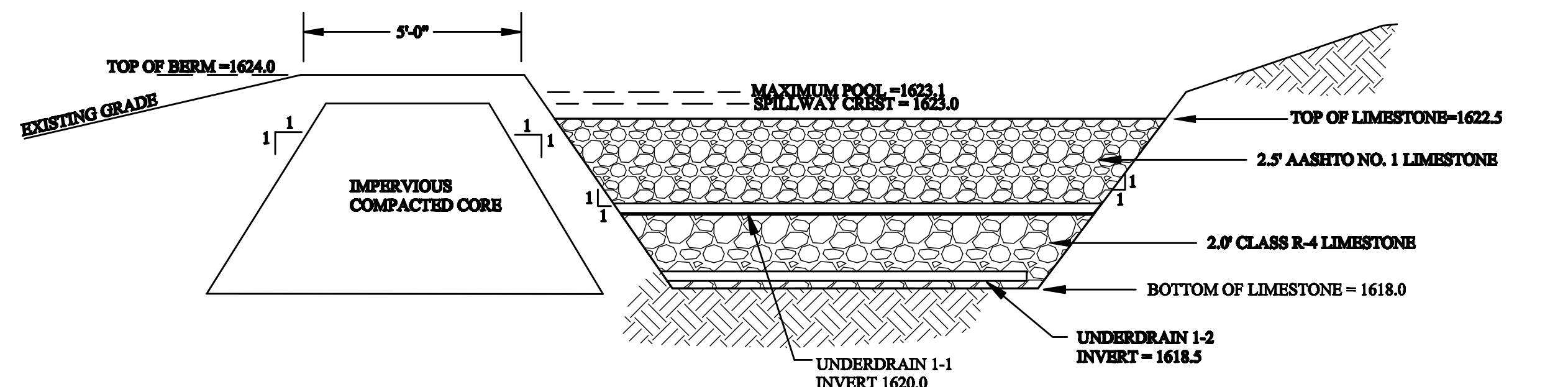
- NOTES:**
1. INSTALL INLINE WATER LEVEL CONTROL STRUCTURES AS MANUFACTURED BY AGRI-DRAIN, INC., ADAIR, IOWA.
 2. PROVIDE AUTOMATIC REMOTE INLINE FLUSHING SYSTEMS WITH AUTOMATED VALTERRA GATE VALVES AND SOLAR PANELS WITH CONTROLS AS MANUFACTURED BY AGRI-DRAIN, INC. AS THE PRIMARY AND SECONDARY OUTLETS FOR UNDERDRAIN 1-1 AND 1-2.
 3. DRAWN WITH 1002-66 COUPLER. STRUCTURE TO HAVE PVC PIPE CONNECTIONS.
 4. PROVIDE INLINE STRUCTURES TO ACCOMMODATE 6-INCH DIAMETER DISCHARGE PIPE.
 5. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. INSTALL BOTH STRUCTURES IN 48" DIAMETER HDPE PIPE CASING WITH LOCKABLE LID. BACKFILL SPACE BETWEEN STRUCTURE AND CASING WITH AASHTO NO. 57, NON-COMPACTED AGGREGATE, FOR THE BOTTOM 1/3 OF THE CASING HEIGHT.

1 LIMESTONE CELL 1 OUTLET STRUCTURES
C-4 SCALE: NONE

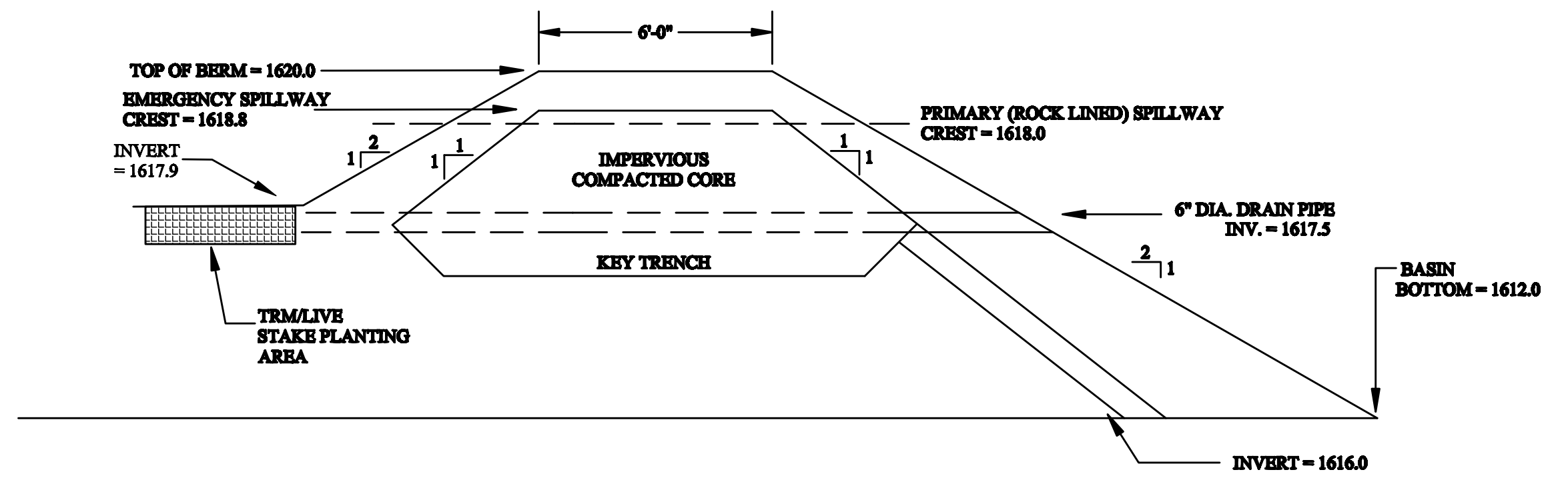


- NOTES:**
1. INSTALL INLINE WATER LEVEL CONTROL STRUCTURES AS MANUFACTURED BY AGRI-DRAIN, INC., ADAIR, IOWA.
 2. PROVIDE AUTOMATIC REMOTE INLINE FLUSHING SYSTEMS WITH AUTOMATED VALTERRA GATE VALVES AND SOLAR PANELS WITH CONTROLS AS MANUFACTURED BY AGRI-DRAIN, INC. AS THE PRIMARY AND SECONDARY OUTLETS FOR UNDERDRAIN 2-1 AND 2-2.
 3. DRAWN WITH 1002-88 COUPLER. STRUCTURE TO HAVE PVC PIPE CONNECTIONS.
 4. PROVIDE INLINE STRUCTURE FOR PRIMARY OUTLET TO ACCOMMODATE 8-INCH DIAMETER DISCHARGE PIPE. INLINE STRUCTURE FOR SECONDARY OUTLET TO ACCOMMODATE 6-INCH DIAMETER DISCHARGE PIPE. SEE ALSO DETAIL 1/C-4 FOR DIMENSIONS FOR STRUCTURE ACCOMMODATING 6-INCH PIPE.
 5. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. INSTALL BOTH STRUCTURES IN 48" DIAMETER HDPE PIPE CASING WITH LOCKABLE LID. BACKFILL SPACE BETWEEN STRUCTURE AND CASING WITH AASHTO NO. 57, NON-COMPACTED AGGREGATE, FOR THE BOTTOM 1/3 OF THE CASING HEIGHT.

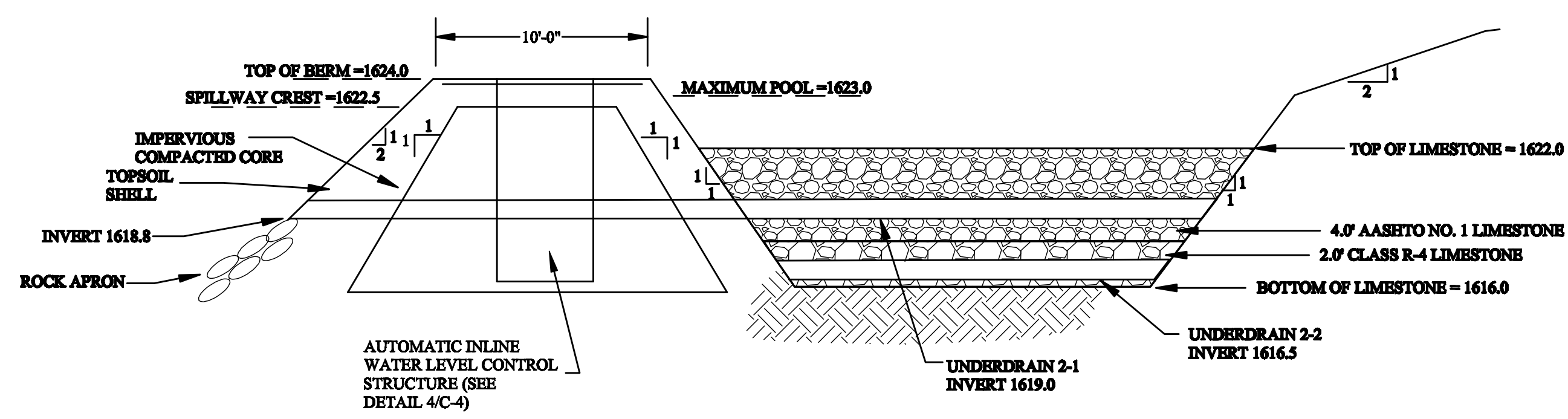
4 LIMESTONE CELL 2 OUTLET STRUCTURES
C-4 SCALE: NONE



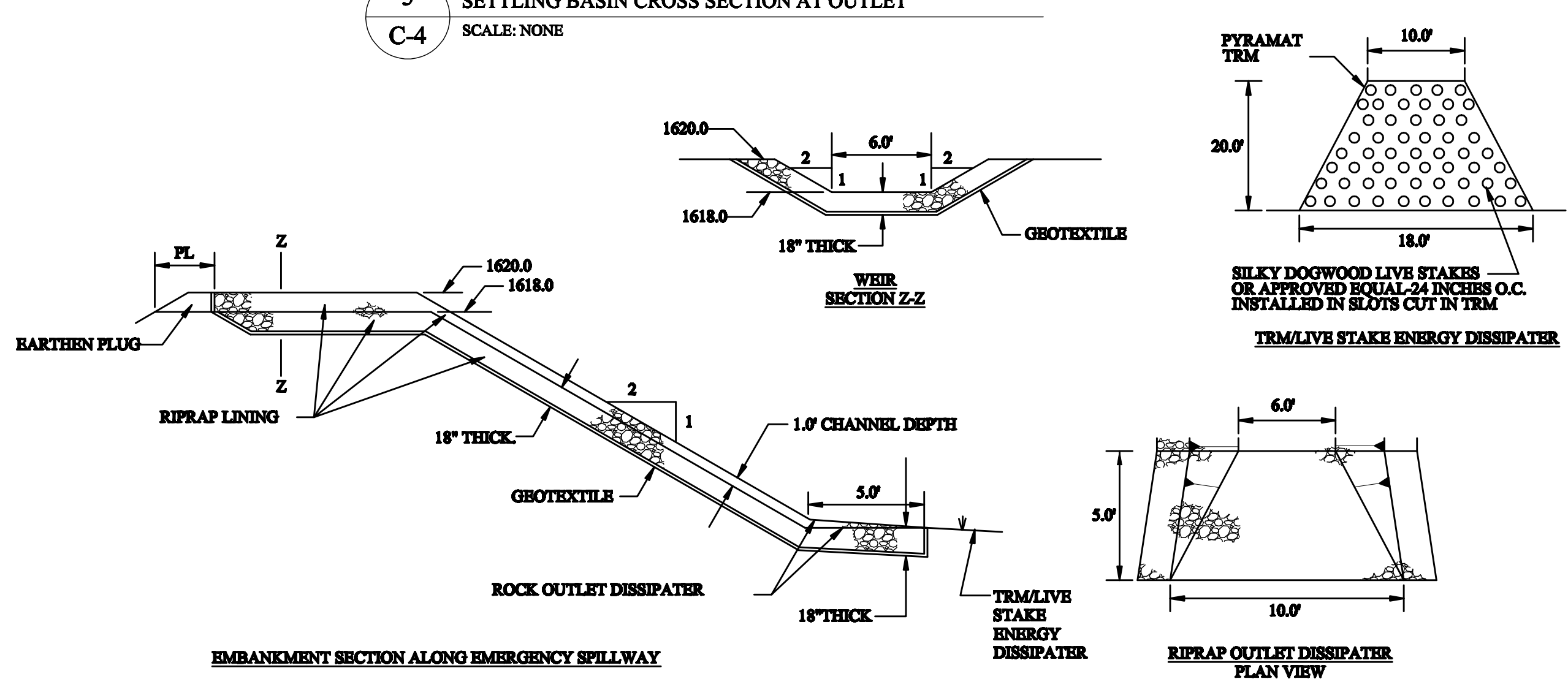
2 LIMESTONE CELL 1 CROSS SECTION
C-4 SCALE: NONE



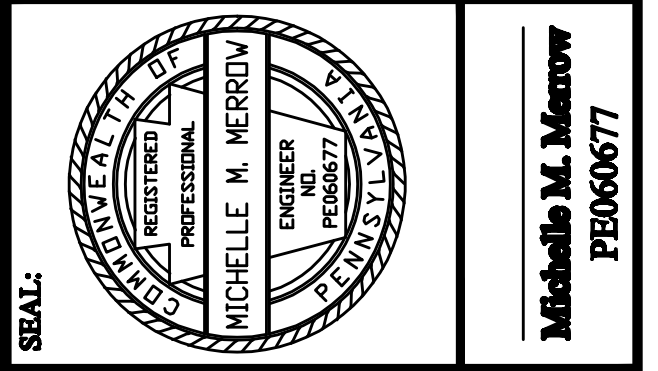
5 SETTLING BASIN CROSS SECTION AT OUTLET
C-4 SCALE: NONE



3 LIMESTONE CELL 2 CROSS SECTION AT PRIMARY OUTLET
C-4 SCALE: NONE



6 SETTLING BASIN OUTLET STRUCTURE
C-4 SCALE: NONE



NO.	REVISIONS	DATE

ALDER RUN ENGINEERING
107 COAL STREET
OSCEOLA MILLS, PENNSYLVANIA 16666
PHONE: (814) 339-6998

DATE: **FEB 1, 2007**

SCALE: **AS NOTED**

EMIGH RUN 8 (ER-8) AMD TREATMENT PROJECT
PREPARED FOR EMIGH RUN/LAKESIDE WATERSHED ASSOCIATION
MORRIS TOWNSHIP, CLEARFIELD COUNTY, PA.

TITLE: **TREATMENT SYSTEM DETAILS**

PREPARED FOR: **New Miles of Blue Stream NABS**

103 FAIRWAY DRIVE
PHILIPSBURG, PENNSYLVANIA 16866
PHONE: (814) 343-5676