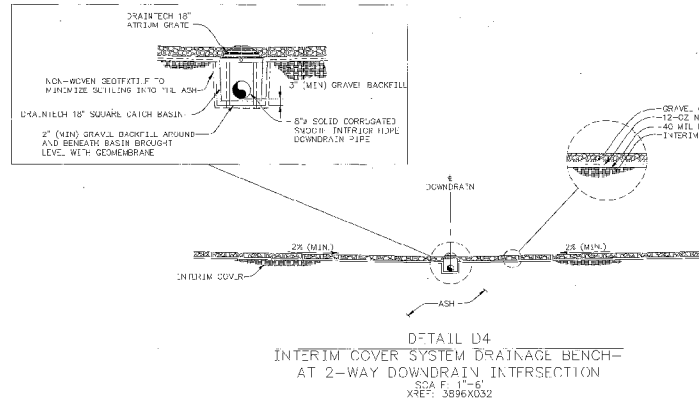
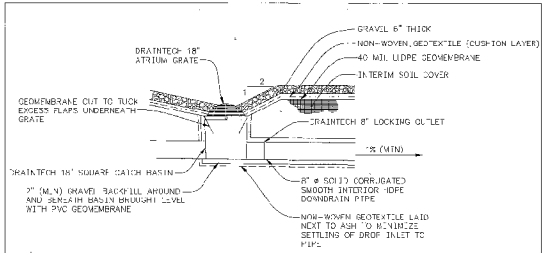
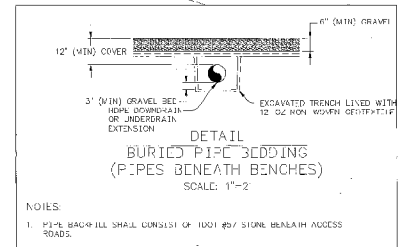
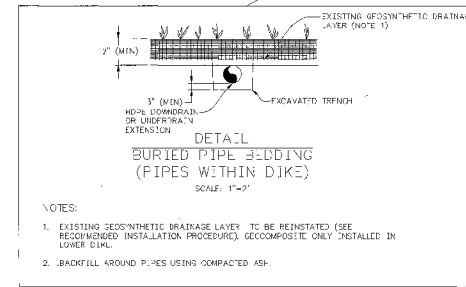
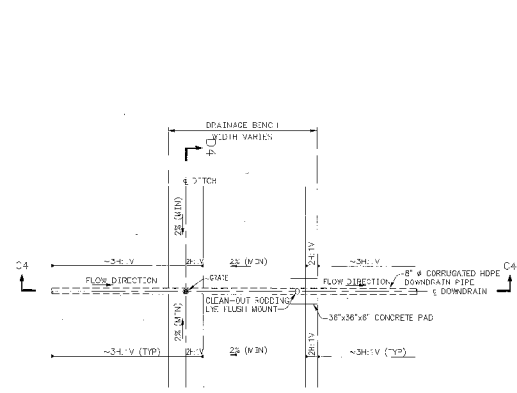


A B C D E F G H



- NOTES:**
- EXISTING GEOSYNTHETIC DRAINAGE LAYER TO BE REINSTATED (SEE RECOMMENDED INSTALLATION PROCEDURE). GEOSYNTHETIC ONLY INSTALLED IN LOWER DIKE.
 - BACKFILL AROUND PIPES USING COMPACTED ASH.

- NOTES:**
- PIPE BACKFILL SHALL CONSIST OF 100% #57 SIGNAL BLEND ACCESS ROADS.

MATERIAL SPECIFICATIONS

- ALL AGGREGATE AND GRAVEL SHALL MEET FEDERAL SPECIFICATIONS NO. 3. STONE (WITH 1/4" TO MAX 3/4" GRAVEL) SHALL BE APPLIED TO ALL-TOP DIKE LAYER ON TOP OF THE NON-WOVEN GEOTEXTILE ALONG BENCH ACCESS ROADS.
 - 2" OF NON-WOVEN GEOTEXTILE AND 40-MIL LLDPE GEOMEMBRANE LAID ACROSS THE FULL WIDTH OF BENCH TOP ROADWAY. BOTH LAYERS ANCHORED INTO THE DITCH 15' OFFSIDE AS SHOWN IN THIS DRAWING.
 - CONCRETE PADS FOR THE CLEAN-OUT RODDING EYE FLUSH MOUNT SHALL BE 36-IN SQUARE, MIN 6-IN THICK CAST IN PLACE. THE FINISHED LEVEL SHALL BE SLOPED AWAY FROM THE PIPE AND FLUSH WITH SURFACE.
 - DRAIN INLET GRATE SYSTEM SHALL BE COMPRISED OF THREE COMPONENTS (PRODUCT NUMBER LISTED): (1) 18-IN ALUMINUM GRATE (80858); (11) 18-IN SQUARE 2-HOLE BASTIN (815/802); (11) 2" 8-IN LOCKING PIPE ADAPTORS (80128). ALL COMPONENTS ARE MANUFACTURED BY DRAINTECH (800-821 8710) OR APPROVED EQUAL.
- RECOMMENDED INSTALLATION PROCEDURE FOR PIPING IN LOWER DIKE**
- PIPING PLACED IN LOWER SECTION OF DIKE WILL BE CONSTRUCTED IN ASH AND BENEATH EXISTING GEOSYNTHETIC DRAINAGE LAYER. THE FOLLOWING PROCEDURES MAY BE USED:
- DITCH EXCAVATION
 - STRIP TOPSOIL TO A MINIMUM WIDTH OF 3-FT CENTERED ON PIPE LOCATION.
 - CUT EXISTING GEOSYNTHETIC DRAINAGE LAYER AND PEEL BACK.
 - EXCAVATE TRENCH TO REQUIRED DEPTH.
 - PLACE PIPING IN TRENCH AND BACKFILL BACKFILL SHALL CONSIST OF GRANULAR MATERIAL WHERE PIPES CROSS EXISTING BENCHES, AS INDICATED ON DETAIL B4.
 - MAINTAIN A MINIMUM COVER OF 12-IN FOR ALL BURIED PIPES.
 - REINSTATE GEOSYNTHETIC DRAINAGE LAYER. IF MATERIAL IS DAMAGED, PLACE 4" LAYER OF GEOSYNTHETIC DRAINAGE LAYER TO MATCH EXISTING CUT EDGES (MIN 12-IN LAP).
 - REINSTATE TOPSOIL AND REVEALER TO MATCH EXISTING.
- DIRECTIONAL DRILLING
 - DIRECTION DRILLING MAY BE USED AS AN ALTERNATIVE INSTALLATION METHOD.
 - PROVIDE ALIGNMENT CONTROL TO ENSURE FINISHED PIPE HAS A MINIMUM OF 12-IN COVER FROM TOP OF INSTALLED PIPE.
 - CONTRACTOR SHALL ENSURE INSTALLATION METHOD DOES NOT DAMAGE EXISTING GEOSYNTHETIC DRAINAGE LAYER.
 - REINSTATE ACCESS AND EGRESS YARD UPON COMPLETION.

JUN 06 2008									
REV	DATE	BY	CHKD	APP'D	DESCRIPTION				
1	06/06/08	JJJ	ASB	CKM	INITIAL ISSUE FOR RIE W.O. 008-488899-000				
2	06/06/08	JJJ	ASB	CKM	SCALE: 1"=10'	EXCEPT AS NOTED			
SURFACE WATER DOWNDRAIN DETAILS									
COAL-COMBUSTION BY-PRODUCT (ASH) DISPOSAL FACILITY									
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE	PROJECT NO.				
N.B. LAW	JJJ ASB	CKM							
KINGSTON FOSSIL PLANT TENNESSEE VALLEY AUTHORITY									
FOSSIL AND WYDRO ENGINEERING									
PROJECT NO.	DATE	SCALE	PROJECT NO.	DATE	SCALE				
10W400-4	06/06/08	1"=10'	10W400-4	06/06/08	1"=10'				

ELECTRONICALLY RESTORED DRAWING THIS DRAWING HAS BEEN COMPLETELY RETRANSMITTED AND SUPERSEDES (3896-007 R1)