



2000 AERIAL TOPOGRAPHY UPDATED WITH 2006 SURVEYS DRAINAGE PATH/PONDED WATER UN-PAVED ROADS UMETCO 1000' SITE GRID FINISH GRADE TOPOGRAPHY OF THE A-9 REPOSITORY EROSION PROTECTION LAYER LIMIT OF RADON BARRIER SOILS RILL FEATURES IN EXISTING TYPE "C" RIPRAP LIMITS OF TYPE "C" RIPRAP REMOVAL AND REPLACEMENT AFTER PLACEMENT OF MIN. 3-INCH LAYER OF TYPE "A" BEDDING LIMITS OF 30/70 GRAVEL BEDDING LAYER VIBRATED INTÓ EXISTING TYPE "C" RIPRAP PROVIDE MIN. 4-INCH BEDDING LAYER WORKED INTO BOTTOM OF 12-INCH THICK RIPRAP LAYER LIMITS OF TYPE "B" RIPRAP REPAIR. REMOVE EXISTING TYPE "B" RIPRAP REPAIR SUBGRADE WITH TYPE "A" BEDDING AS REQUIRED TO REESTABLISH CREST AND REPLACE TYPE "B" RIPRAP TO MIN. 6-INCH 6-INCHES OF TYPE "B" RIPRAP $D_{50} = 3.0 INCH$ 12-INCHES OF TYPE "C" RIPRAP $D_{50} = 6.0 \text{ INCH}$ 12-INCHES OF TYPE "C" RIPRAP $D_{50} = 6.0 \text{ INCH}$ WITH 6-INCHES OF TYPE "A" BEDDING $D_{50} = 0.5 \text{ INCH}$ 24-INCHES OF TYPE "D" RIPRAP $D_{50} = 16.0 INCH$ WITH 6-INCHES OF TYPE "A" BEDDING $D_{50} = 0.5 \text{ INCH}$

NOTES:

1.) ALL REPAIR WORK AND CONTRACTOR OPERATIONS SHALL BE CONDUCTED WITHIN THE ESTABLISHED GAS HILLS SITE TRANSFER BOUNDARY. NO WORK OR CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE SUCH BOUNDARY WITHOUT THE OWNER'S APPROVAL.

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- 2.) PRIOR TO INITIATION OF RILL REPAIR ACTIVITIES, TEST EXCAVATIONS SHALL BE MADE TO VERIFY THE INTEGRITY OF THE RADON BARRIER OR CLAY LAYER IN THE VICINITY OF EXISTING RILL FEATURES. A MINIMUM OF ONE EXCAVATION SHALL BE MADE ON THE A-9 REPOSITORY. ADDITIONAL EXCAVATIONS MAY BE REQUIRED IF IT IS DETERMINED THAT THE RADON BARRIER LAYER HAS BEEN DISTURBED. ALL SOIL MATERIAL REMOVED FROM THE TEST EXCAVATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.
- 3.) IN AREAS DESIGNATED FOR RIPRAP REMOVAL AND REPLACEMENT, THE EXISTING RIPRAP MATERIAL SHALL BE REMOVED IN PANELS OR SECTIONS NO WIDER THAN 50—FEET AND TEMPORARILY STOCKPILED ON THE ADJOINING COMPLETED PANEL. REMOVED RIPRAP SHALL BE REPLACED AS SOON AS PRACTICABLE AFTER THE MINIMUM 3—INCH THICK TYPE A BEDDING LAYER HAS BEEN PLACED AND APPROVED. IN GENERAL, THE REMOVAL PANELS WILL BE ORIENTED PERPENDICULAR TO THE SLOPE AND THE ACTUAL WIDTH OF PANELS WILL BE DETERMINED BY THE CAPABILITIES OF THE CONTRACTOR'S EQUIPMENT. ALL RIPRAP AND BEDDING MATERIALS SHALL BE PLACED IN ACCORDANCE WITH THE SPECIFICATIONS.
- 4.) IN THE AREAS DESIGNATED TO RECEIVE BEDDING MATERIAL VIBRATED INTO THE EXISTING RIPRAP, THE 30/70 GRAVEL BLEND BEDDING MATERIAL SHALL BE SPREAD UNIFORMLY OVER THE SLOPE BETWEEN THE ACCESS ROUTE BANDS. TEST PANELS (ON THE EXISTING SLOPE) WILL BE PREPARED TO DETERMINE THE MOST ACCEPTABLE METHOD AND AMOUNT OF BEDDING MATERIAL TO BE APPLIED ON THE SLOPE TO ENSURE THAT A MINIMUM OF 4—INCHES OF BEDDING MATERIAL IS VIBRATED INTO THE BOTTOM PORTION OF THE EXISTING 12—INCH LAYER OF TYPE C RIPRAP. THE NUMBER OF PASSES AND SIZE OF VIBRATORY EQUIPMENT SHALL ALSO BE DETERMINED ON THE TEST PANELS. THE ACCESS ROUTE BANDS SHALL BE PLATED WITH A MINIMUM 3—INCH LAYER OF TYPE A BEDDING PLACED ON THE EXISTING TYPE "B" RIPRAP WHICH WILL ACT AS A RUNNING AND STAGING SURFACE.

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NO.	DATE	REVISION - DESCRIPTION	BY	DWG: GH-A9-REPAIR-12-6-

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	GAS]	HILLS,	WYOMING	

A-9 REPOSITORY EROSION AND RILL REPAIR PLAN

	DESIGN: JHH	DRAWN: JHH	SHEET
	CHECKED BY:	DATE: 12-8-2010	7
	ENGINEERING APPROVAL:	HS & EA APPROVAL:	OF
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