

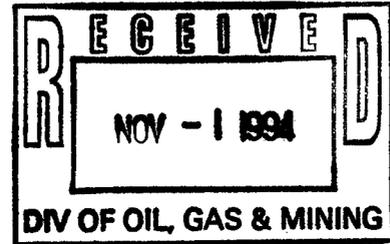
0008

SUNNYSIDE COGENERATION ASSOCIATES

POST OFFICE BOX 58087
SALT LAKE CITY, UTAH 84158-0087

October 31, 1994

Mr. Daron Haddock
Division of Oil, Gas and Mining
3 Triad Center - Suite 350
Salt Lake City, UT 84180-1203



**RE: Project No. EC450593: Sunnyside Cogeneration Associates
Permit Submittal NOV N94-26-4-1 100 year 6 hour Diversion down Refuse Pile**

Dear Daron,

File ACT/002/035 #2

This submittal includes a typical design for the diversion down the existing refuse pile in connection with step one of NOV N94-26-4-1. This diversion was identified as RC-D6 on Plate 7-1D.

This diversion has been re-designed to use a series of 36" culverts (RC-C1, RC-C2, and RC-C3) to convey the storm runoff from the 100 year 6 hour storm. At each terrace, an energy dissipating splash pool will be constructed to slow down the velocity, incorporate the additional runoff water from the terrace, and drop some sediment from the runoff. The 36" culvert diversion is clearly over designed for the current conditions under the regulations, but the permittee wishes to minimize the risk of future flood damage in this area by planning for greater potential flows.

The typical drawing should provide an idea of the diversion intended. Actual construction will be adapted to meet conditions in the field.

SCA intends to begin installing these pipe culverts as soon as possible in order to meet the deadline imposed by the violation. Please review this submittal accordingly, so that the work can proceed without hinderance.

If you have any questions about this submittal, please feel free to call (801) 261-0090.

Sincerely,

Handwritten signature of David Pearce in black ink.

David Pearce

Authorized Member, Management Committee

Handwritten signature of S. Scott Carlson in black ink.

S. Scott Carlson
Engineer- EWP

cc: Brian Burnett, CDN
Bill Malencik, DOGM
Joe Helfrich, DOGM

APPLICATION FOR PERMIT CHANGE

Title of Change: **SUNNYSIDE COGENERATION ASSOCIATES**
Redesign of RC-D6 to install 36" Culverts RC-C1, RC-C2, & RC-C3
Associated with NOV N94-26-4-1

Permit Number: ACT/007/035

Mine: Sunnyside Cogen. Assoc.

Permittee: Sunnyside Cogen. Assoc.

Description - include reason for change and timing required to implement: **Redesign of RC-D6 to install 36" Culverts RC-C1, RC-C2, & RC-C3. Associated with NOV N94-26-4-1 . A contractor should be able to install the culverts in a few weeks once the material is available and other work previously scheduled is completed (weather permitting).**

- | | | |
|---|--|---|
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 1. Change in the size of the Permit Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease. |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 2. Change in the size of the Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease. |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 4. Will permit change include operations in hydrologic basins other than currently approved? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 6. Does permit change require or include public notice publication? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 7. Permit change as a result of a Violation? Violation # NOV N94-26-4-1 |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 8. Permit change as a result of a Division Order? D.O. # |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 9. Permit change as a result of other laws or regulations? Explain: |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 10. Does permit change require or include ownership, control, right-of-entry, or compliance information? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 11. Does the permit change affect the surface landowner or change the post mining land use? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 12. Does permit change require or include collection and reporting of any baseline information? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 14. Does permit change require or include soil removal, storage or placement? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 15. Does permit change require or include vegetation monitoring, removal or revegetation activities? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 16. Does permit change require or include construction, modification, or removal of surface facilities? CULVERT INSTALLATION |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 17. Does permit change require or include water monitoring, sediment or drainage control measures? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 18. Does permit change require or include certified designs, maps, or calculations? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 19. Does permit change require or include underground design or mine sequence and timing? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 20. Does permit change require or include subsidence control or monitoring? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 23. Is this permit change coal exploration activity <input type="checkbox"/> inside <input type="checkbox"/> outside of the permit area? N/A |

Attached **3** complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all aspects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Alane E. Boyd, P.E. 10/31/94
 Signed - Name - Position - Date

Subscribed and sworn to before me this 31st day of October, 1994
Marilyn Young
 Notary Public

My Commission Expires:
 Attest: STATE OF
 COUNTY OF

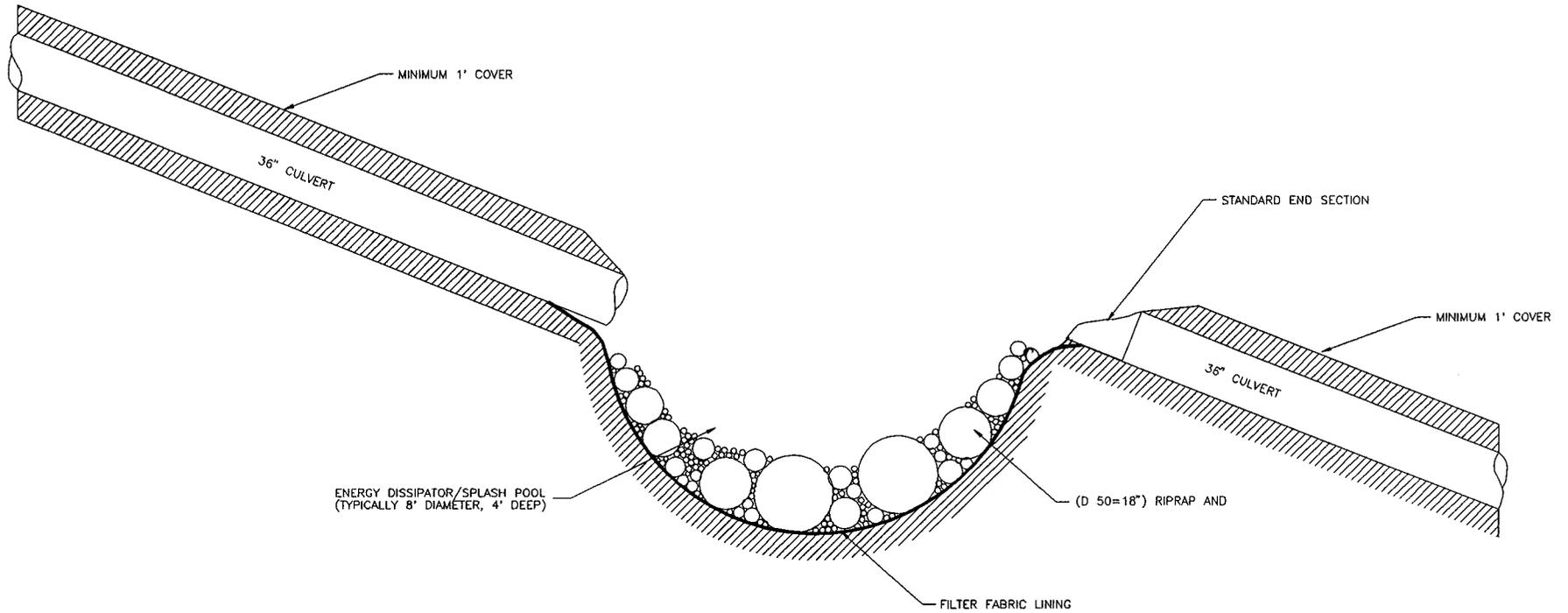
NOTARY PUBLIC
MARILYN YOUNG
 1121 E. 3900 So. #C-100
 Salt Lake City, Utah 84124
 My Commission Expires
 March 8, 1997
STATE OF UTAH

RECEIVED

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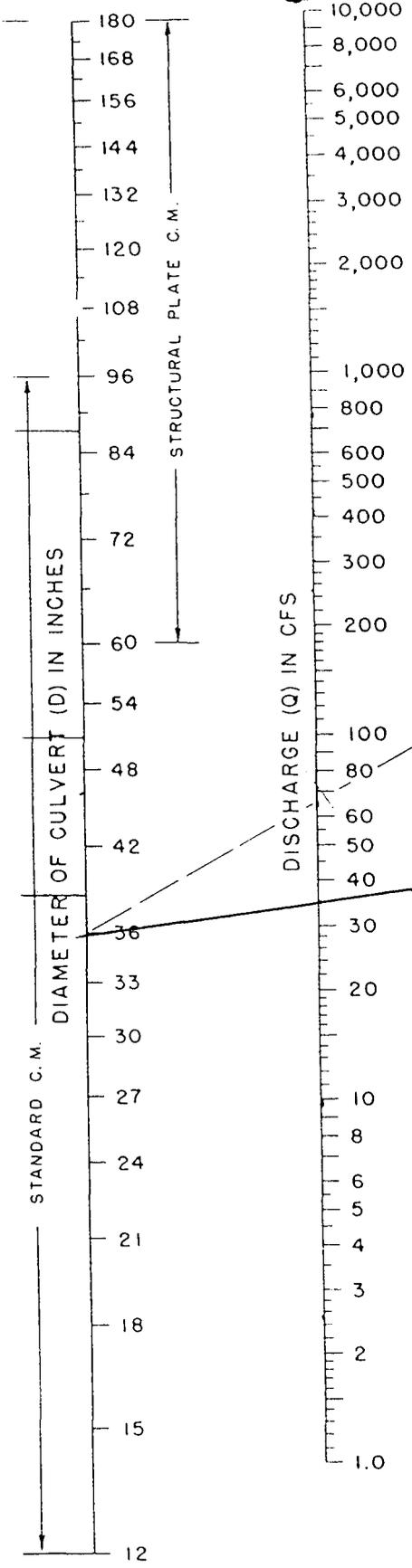
DIV OF OIL, GAS & MIN.

ASSIGNED PERMIT CHANGE NUMBER



OCT 31, 1994

TYPICAL DRAWING FOR INSTALLING OF 36" CULVERTS
RC-C1,RC-C2,RC-C3 AND ENERGY DISSIPATOR/SPLASH POOLS



EXAMPLE

D = 36 inches (3.0 feet)
 Q = 66 cfs

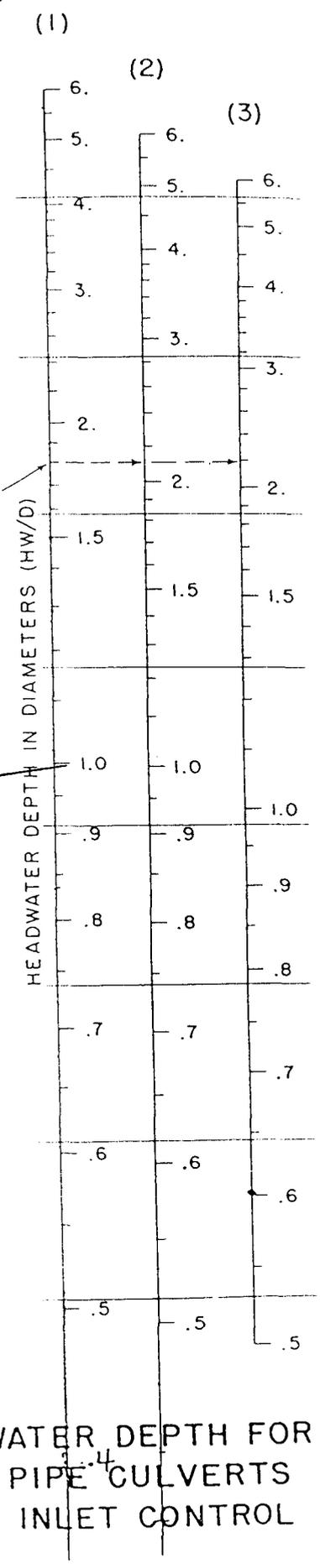
	$\frac{HW}{D}$	HW (feet)
(1)	1.8	5.4
(2)	2.1	6.3
(3)	2.2	6.6

*D in feet

*RAIL CUT CULVERTS
 RC-C1, RC-C2, RC-C3*

$\frac{HW}{D}$	SCALE	ENTRANCE TYPE
(1)	5	Headwall
(2)	7	Mitered to conform to slope
(3)	9	Projecting

To use scale (2) or (3) project horizontally to scale (1), then use straight inclined line through D and Q scales, or reverse as illustrated.



HEADWATER DEPTH FOR PIPE CULVERTS WITH INLET CONTROL

OCT 31, 1994