

OLY1401.004

October 26, 2015

Michael J. Anderson, P.E.
Safety of Dams
Nevada Division of Water Resources
901 South Stewart Street, Suite 2002
Carson City, NV 89701

**Subject: Request for Additional Information from Nevada Dam Safety for
Skye Canyon Detention Basin 1 (J-716)**

Dear Mr. Anderson:

The following are responses to the items requested from Nevada Division of Water Resources – Dam Safety, dated September 10, 2015, to complete review of the Skye Canyon Detention basin 1 project. The comments have been individually addressed as follows:

Plan Set:

1. **Comment:** *Survey tie from monument on dam embankment to found section corner. Must be same monument as described by the latitude and longitude coordinates.*

Response: Sheet HC-1 has been adjusted to show the tie line to the latitude/longitude on the dam embankment.

2. **Comment:** *Discharge curves for outlet and spillway do not sum to the total discharge.*

Response: The discharge in the emergency spillway was shown incorrectly previously. This submittal of plans has been updated to show accurately that the in-use spillway discharge is 5,901.4 cfs.

3. **Comment:** *Water level elevations must be shown on the cross-sections (1% chance of exceedence storm runoff and PMF).*

Response: The 100-year storm water surface and PMF water surface has been shown on all applicable sections in this submittal.

4. **Comment:** *Foundation elevation after over excavation not well defined on plans.*

Response: Profile Sheets P-3 and P-4 have been modified to show the bottom and top of foundation more clearly.

5. **Comment:** *Please explain "Future 24" outlet" noted on plans.*

Response: The previously shown "future 24-inch outlet" was intended to show that if future expansion of the detention basin was necessary in the future due to change in criteria or actual storm event occurrences that further excavation could occur with a potential 24-inch pipe extended from the outlet structure. Note this possible situation was indicated in City of Las Vegas comment of the plans. However, since the proposed detention basin on these plans in their current state meets all criteria without future expansion, the future outlet pipe has been removed from the plans to remove any interpretation that the proposed detention basin is not adequate to meet current criteria.

Specifications

1. **Comment:** *Specifications should be inclusive instead of only noting exceptions to standard specifications.*

Response: The included specifications have been prepared as all-inclusive of all improvements proposed by this project.

2. **Comment:** *Specifications for concrete strengths, pipe and riprap were not present.*

Response: The reviewer is directed to Specifications 501, 601 and 610 for the concrete strength, pipe and riprap details, respectively.

3. **Comment:** *Test or inspection failure procedures must be identified.*

Response: The reviewer is directed to Specification 105 for further information.

4. **Comment:** *Site clearing and grubbing not specified.*

Response: The reviewer is directed to Specification 201 for further information.

5. **Comment:** *Waste dump area(s) need to be identified (may be on plans).*

Response: The reviewer is directed to Specification 106 for further information.

6. **Comment:** *Specifications:*

- a) *310-1 and 310-2 have an apparent discrepancy over bedding mix/bedding mortar aggregate.*
- b) *207-1 references Tables 1 and 2 which were not found.*
- c) *203-3 references Subsections 203.03.16 and 203.03.70, neither of which were found.*
- d) *203-1 references Subsections 704.03.03 and 207.02.02, neither of which were found.*

Response: See below for individual responses.

- a) The discrepancy is attributed to the bedding mix stated in 310-1 is specifically intended for cold joints for fine aggregate use; whereas, bedding mortar is required for all other uses of soil cement.
- b) The subject tables have now been included in the specifications.
- c) The subject subsections have now been included in the specifications.
- d) The subject subsections have now been included in the specifications.

Respectfully Submitted,

SLATER HANIFAN GROUP

Steve Jones, P.E.
Project Manager - Flood Control Division

cc: Marc Bolduc – Olympia Companies
Bobby Williamson – Olympia Companies
Jerry Slater, P.E. – SHG
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