

As discussed over the phone, all SW from A-1 is directed to the EDB. Please remove sentence.

Sub-basin A-0 contains 2.07 acres and is located along the north margin of the site. Approximately  $Q_5=2.7$  cfs and  $Q_{100}=6.4$  cfs generated from this sub-basin will sheet flow across backyard areas and will be released to the adjacent property to the north in an historic fashion. Water Quality Treatment is achieved for this sub-basin by Infiltration Reduction Factoring within the rear-yard areas. Calculations supporting treatment are provided in The IRF Appendix (Appendix C) in accordance with El Paso County requirement (Zones A-0-a & A-0-b).

Sub-basin A-1 contains approximately 3.218 acres and is located along the north side of Peaceful Ridge Drive at the north end of the site. Approximately  $Q_5=5.8$  cfs and  $Q_{100}=12.3$  cfs generated from this sub-basin will sheet flow to an earthen swale at Peaceful Ridge Drive and will be conveyed east to TSB 'B'. These captured flows are released to Periwinkle Place TSW and conveyed to the EDB. Some minor flows escape at the access to Marksheffel where they combine with Off-site flows from Sub-basins OS-1 & OS-3. These combined flows will be passed under Peaceful Ridge Drive, which will be constructed to a rough-cut condition during Early Grading. A 24" temporary culvert will convey all of the Minor Event ( $Q_5=38.7$  cfs) for these combined flows. These Flows continue south within the Marksheffel Rd side ditch in historic fashion to the existing 7'x4' concrete box culvert. Flows will overtop the planned Peaceful Ridge Drive road cut in the major event and re-enter the existing side ditch and continue south in historic fashion. Calculations for this temporary 24" crossing are included in Appendix B. Riprap stabilization is planned at the pipe outlet as well as the side slopes surrounding the outlet as these form the receiving edge in the major event in the Early Grading Permit (EGP) Condition ( $Q_{100}=115.1$  cfs).

Sub-basin A-2 contains approximately 3.35 acres and is located along the south side of Peaceful Ridge Drive at the north end of the site. Approximately  $Q_5=6.4$  cfs and  $Q_{100}=13.4$  cfs generated from this sub-basin will sheet flow to a south-side earthen swale at Peaceful Ridge Drive and will be conveyed east to a temporary sedimentation basin (TSB 'B'). Bypass and Overflow at TSB 'B' will release to earthen swales and turn south within continuous earthen swale lying along the west side of Periwinkle Place. These flows will be directed along stabilized channel to the EDB.

B Drainage Basins: The B drainage basins consist of the majority of the site. Runoff from these basins will sheet flow and then enter earthen channels: Sleepy Meadows Drive, Melting Sky Drive and Periwinkle Place. Runoff in these streets will be intercepted by one of several earthen swales within the undercut roadway section. At a minimum grade of 4.0%, Melting Sky has a capacity of 19 cfs for the 5-year event, respectively. The maximum flow in the channel is 13 cfs at TSB 'C' for the 5-year storm and 39 cfs at the end of the planned street and just ahead of its release to the extended detention basin (EDB).

Earthen Swales will convey runoff collected in the roadway section and direct ot to stabilized channel sections which will release directly into the proposed, full-spectrum, extended detention basin located at the southeast corner of the site. Water quality capture