

DRAINAGE ANALYSIS

TOTAL LOT AREA= 0.83 ac (36,146.58) sf.  
IMPERVIOUS= 0.49 ac (21,534 sf.) CN=98

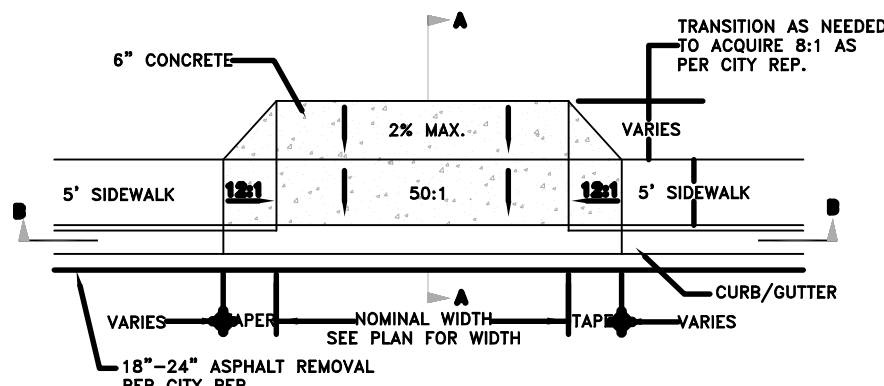
POST-DEVELOPMENT

RUNOFF COEFFICIENT (MESA AREAS RUNOFF)=2.0  
PEAK FLOW = IMPERVIOUS AREA x FLOW COEFFICIENT x RUNOFF COEFFICIENT  
POND VOLUME = C/12 x IMPERVIOUS AREA  
 $Q_{100} = 0.00$  cfs  
 $V_{100} = 3,589$  ft<sup>3</sup> (REQUIRED)

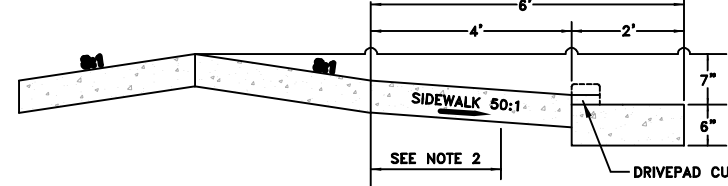
MAJORITY OF PONDING WITHIN SITE SHALL BE CONSTRUCTED USING UNDERGROUND STORAGE STRUCTURES. STORAGE SHALL BE THROUGH THE USE OF 5 FOOT DIAMETER HDPE/CMP PIPES OF THE DIMENSIONS INDICATED BELOW  
VOLUME OF 5' STORAGE STRUCTURE/UNIT LENGTH = 19.625 FT<sup>3</sup> / FT  
TOTAL LENGTH OF STORAGE STRUCTURES PROPOSED= 180 FT x 19.625 FT<sup>3</sup> = 3,532.5 FT<sup>3</sup>

POND	LENGTH(ft)	VOLUME(ft <sup>3</sup> )
1	60	1,177.50
60	60	1,177.50
60	60	1,177.50
180		3,532.50

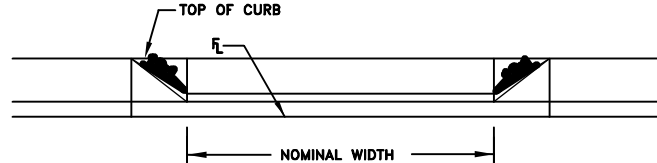
ADDITIONAL SURFACE PONDING  
POND 2 = 430ft<sup>3</sup>  
POND 3 = 170ft<sup>3</sup>  
600ft<sup>3</sup>



DRIVEPAD - PLAN  
NOT TO SCALE

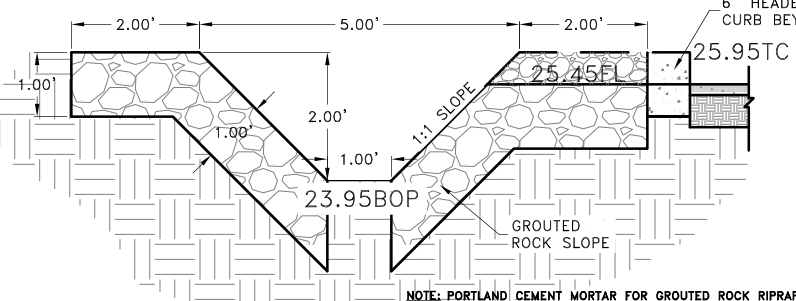


DRIVEPAD SECTION A-A  
NOT TO SCALE

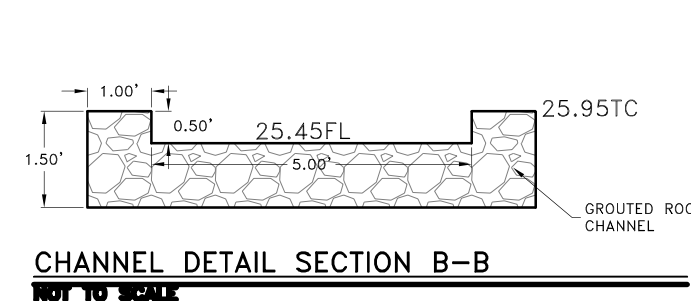


DRIVEPAD SECTION B-B  
NOT TO SCALE

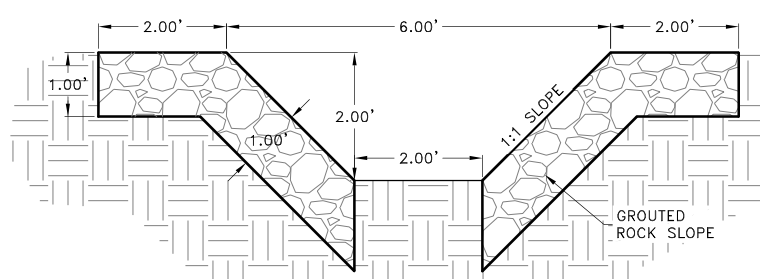
- NOTES:
- ALL EMBANKMENT MATERIAL SHALL BE COMPACTED TO 95% OF THE MAX. DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.
  - AGGREGATE BASE COURSE SHALL COMPLY WITH CITY OF LAS CRUCES STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION, SECTION 210.
  - ALL PLANT MIX BITUMINOUS PAVEMENT SHALL COMPLY WITH CITY OF LAS CRUCES STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION, SECTION 325.
  - ALL CONCRETE UTILIZED FOR CURB AND MISC. STRUCTURES SHALL COMPLY WITH CITY OF LAS CRUCES STANDARD SPECIFICATION FOR ROAD CONSTRUCTION, SECTION 500, 505.
  - CONTRACTOR IS FULLY RESPONSIBLE FOR ALL CONSTRUCTION SAFETY, AND SHALL COMPLY WITH ALL REQUIREMENTS OF FEDERAL, STATE AND LOCAL AGENCIES.
  - SHOULD CONFLICTING INFORMATION OR INTERFERENCE PROBLEMS OCCUR DURING CONSTRUCTION THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO INSTALLATION.
  - CONTRACTOR SHALL COMPLY WITH ALL NPDES REQUIREMENTS.
  - EXISTING UTILITY SERVICES SHALL BE LOCATED BY CONTRACTOR PRIOR TO CONSTRUCTION.
  - REFER TO GEOTECHNICAL REQUIREMENTS FOR PLACEMENT OF FILL AT BUILDING PADS.



POND DETAIL SECTION A-A  
NOT TO SCALE



CHANNEL DETAIL SECTION B-B  
NOT TO SCALE



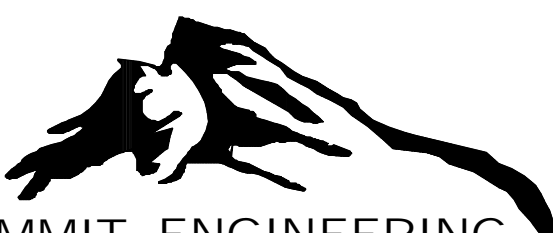
POND DETAIL SECTION C-C  
NOT TO SCALE



STUDIO SOUTHWEST ARCHITECTS, INC.  
2101 Mountain Rd. NW, Albuquerque, NM 87104  
505.843.9639 fax 505.843.9683  
Web Site: www.studioswarch.com  
E-Mail: mail@studioswarch.com

© 2008, Studio Southwest Architects, Inc.  
Duplication or reproduction by any means without the express written consent of Studio Southwest Architects, Inc. is a violation of Federal and international law. The information contained on this document is the intellectual property of Studio Southwest, Inc. and all rights thereto are Reserved. For exceptions, refer to the Owner-Architect Agreement.

CONSULTANTS



SUMMIT ENGINEERING  
CIVIL ENGINEERING -DESIGN -CONSULTING  
PO BOX 375 FAIRACRES, NM 88033 (505) 527-5321

Architect Engineer

NOT FOR CONSTRUCTION

LAS CRUCES  
DENTAL OFFICE

LAS CRUCES, NM

MARK	DATE	DESCRIPTION
ISSUE:	SD CHARETTE	
PROJECT NO:	0000	
CAD DWG FILE:	0827 AS-101	
DRAWN BY:	TMJ	
CHECKED BY:	RGH	
DATE:	03/04/2009	

SHEET TITLE

SITE PLAN

CS-101

sheet of sheets

GRADING PLAN  
1" = 10'-0"