

Mountain Rest Lake Dam



12/9/2015

Howard R. Leonard, P.E.



4/27/2016

DESIGN DRAWINGS &
SPECIFICATIONS

DESIGN TO REPAIR
DEFICIENCIES
TO DAM

FOR

MT. REST LAKE DAM
MT. REST, SOUTH CAROLINA

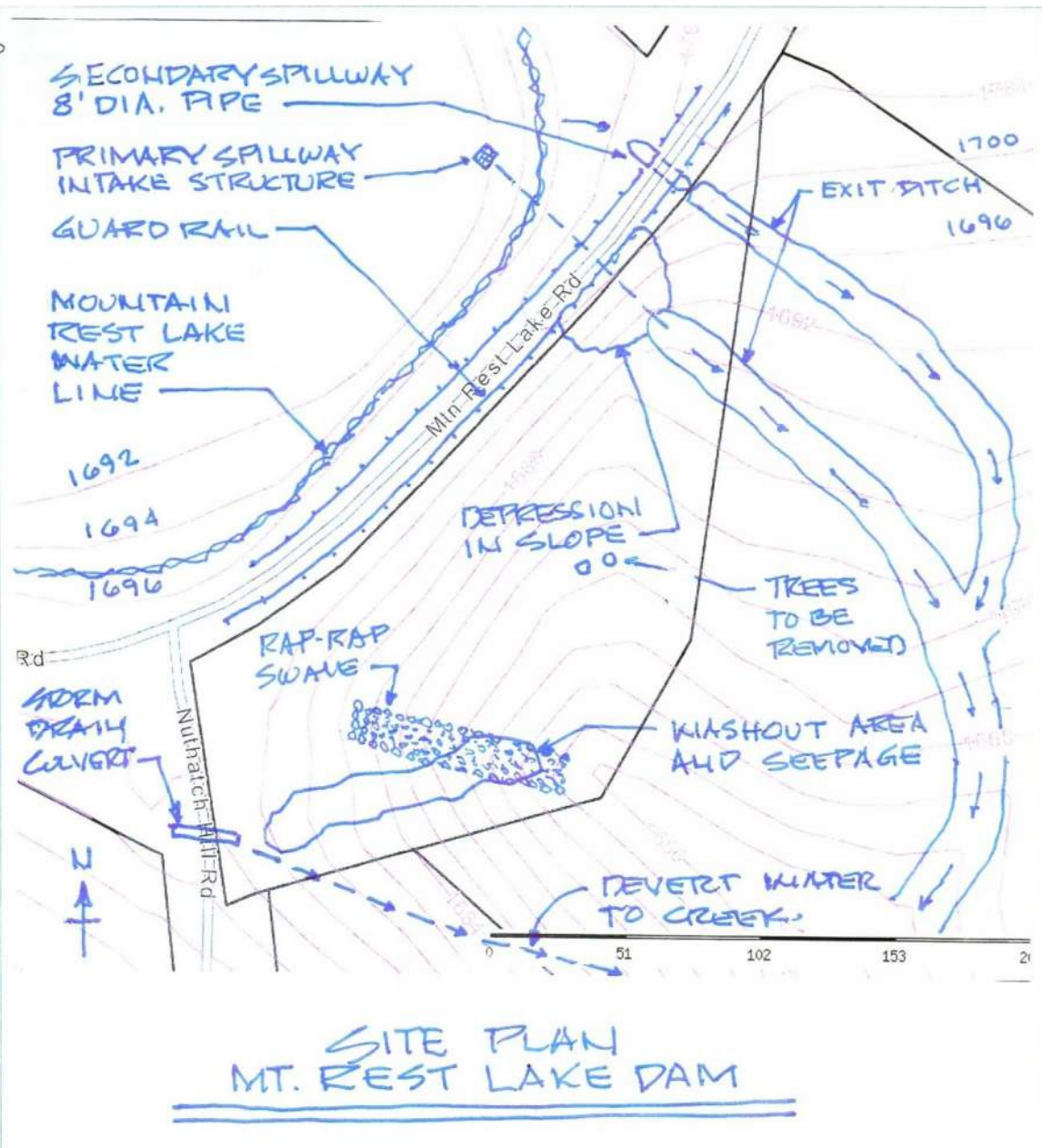
DESIGN BY:

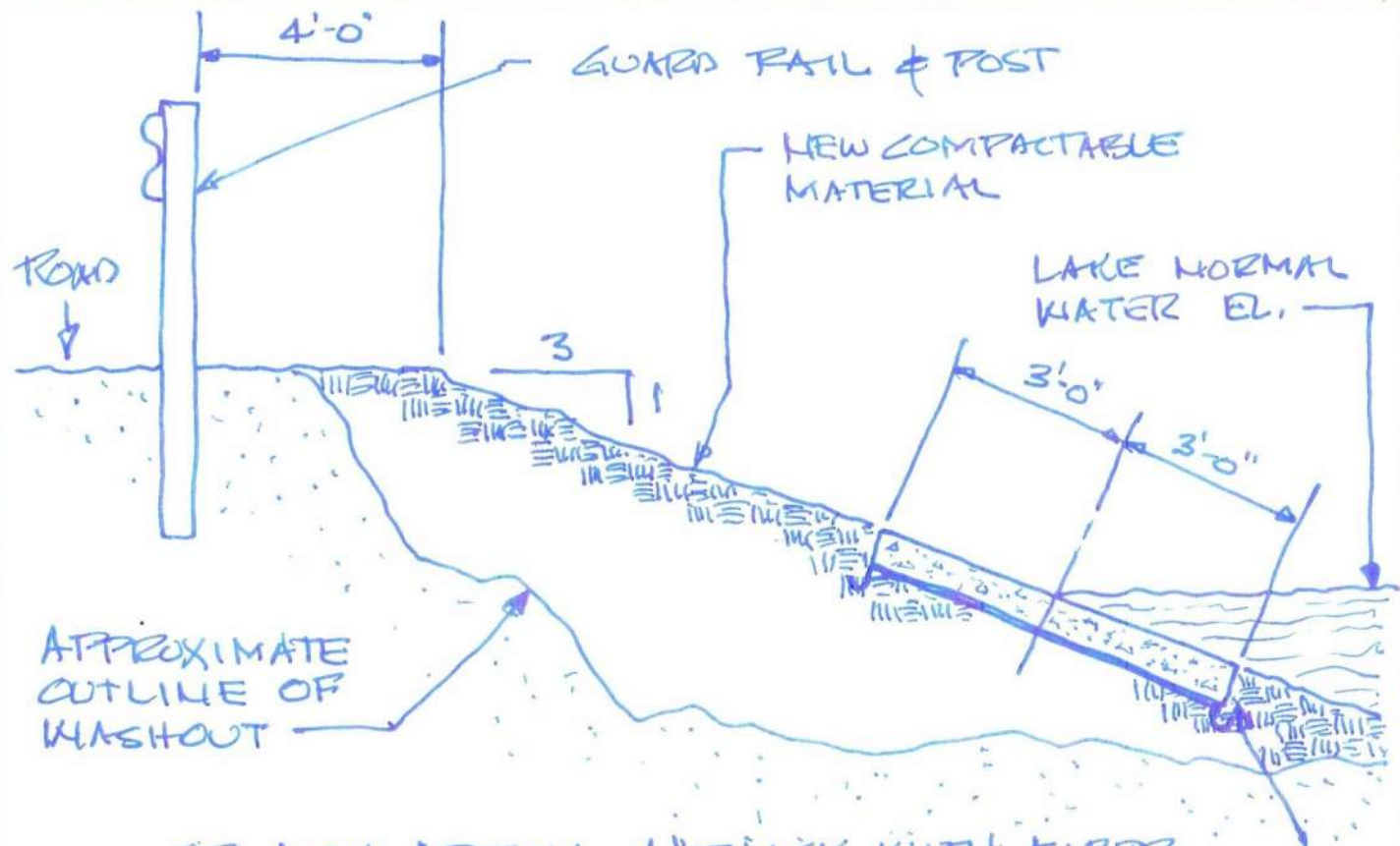
PERITUS CIVIL, INC.
GREENVILLE, SOUTH CAROLINA
864-288-5312

DHEC

**Department of Health
and Environmental
Control**

Front Slope Erosion Repair Scheme





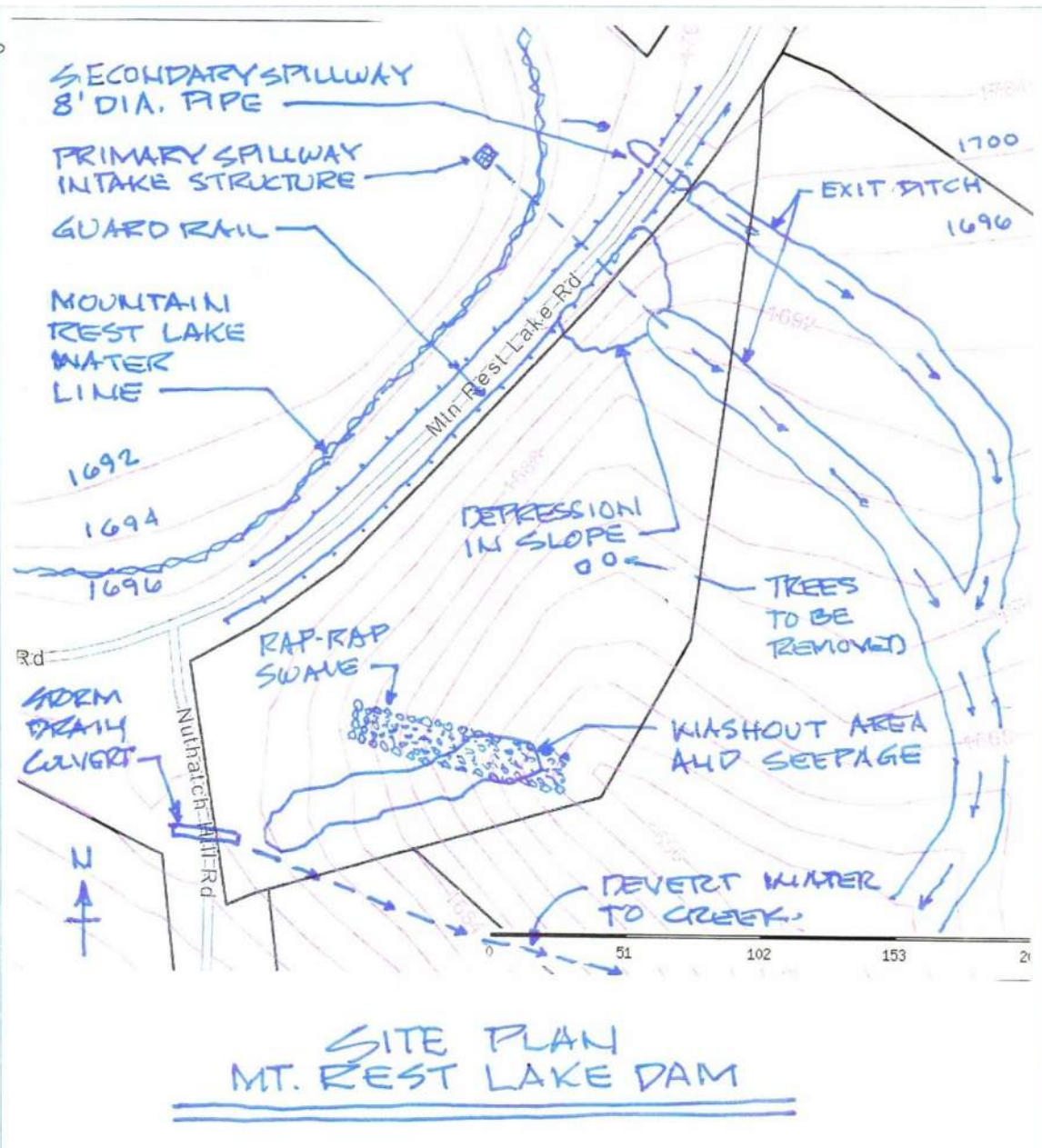
SPLASH APRON, 4" THICK WITH FIBER MESH. CONCRETE TO BE 4000 PSI. PLACE ON FILTER FABRIC. TOP & BOTTOM OF FILTER FABRIC TO BE ANCHORED IN A SHALLOW DITCH.

(ALTERNATE DESIGN)

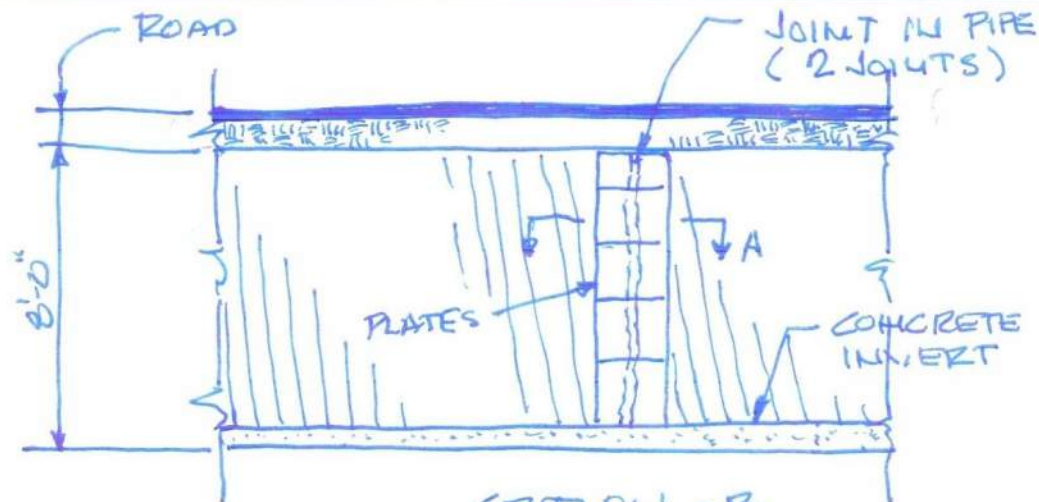
CONCRETE SPLASH APRON



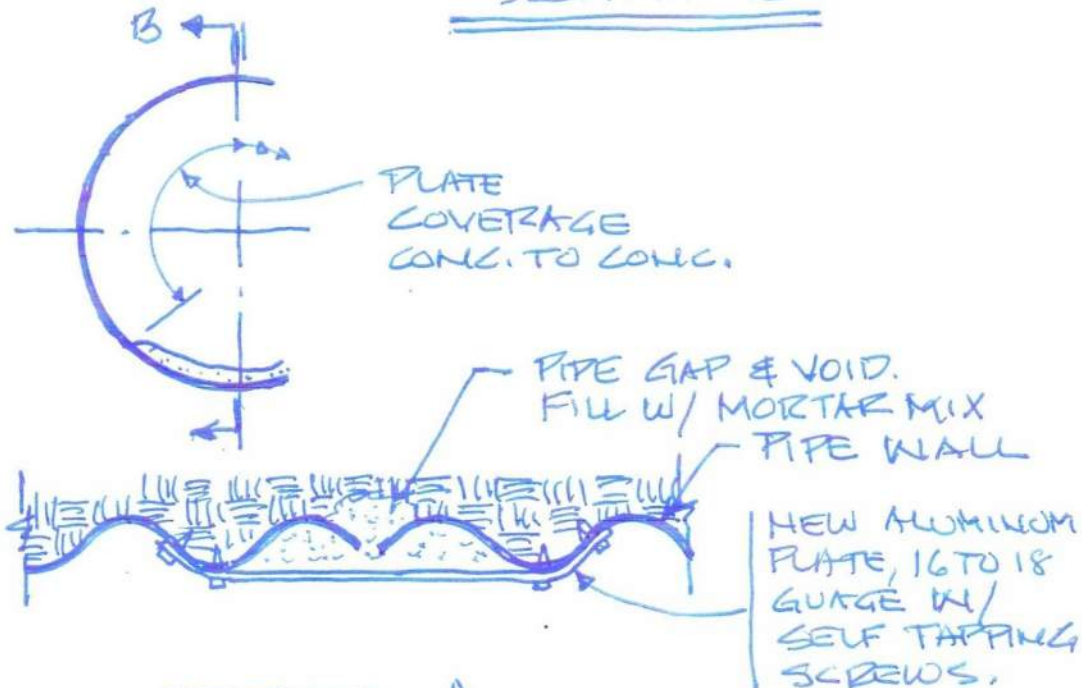
Secondary Spillway Pipe Repair





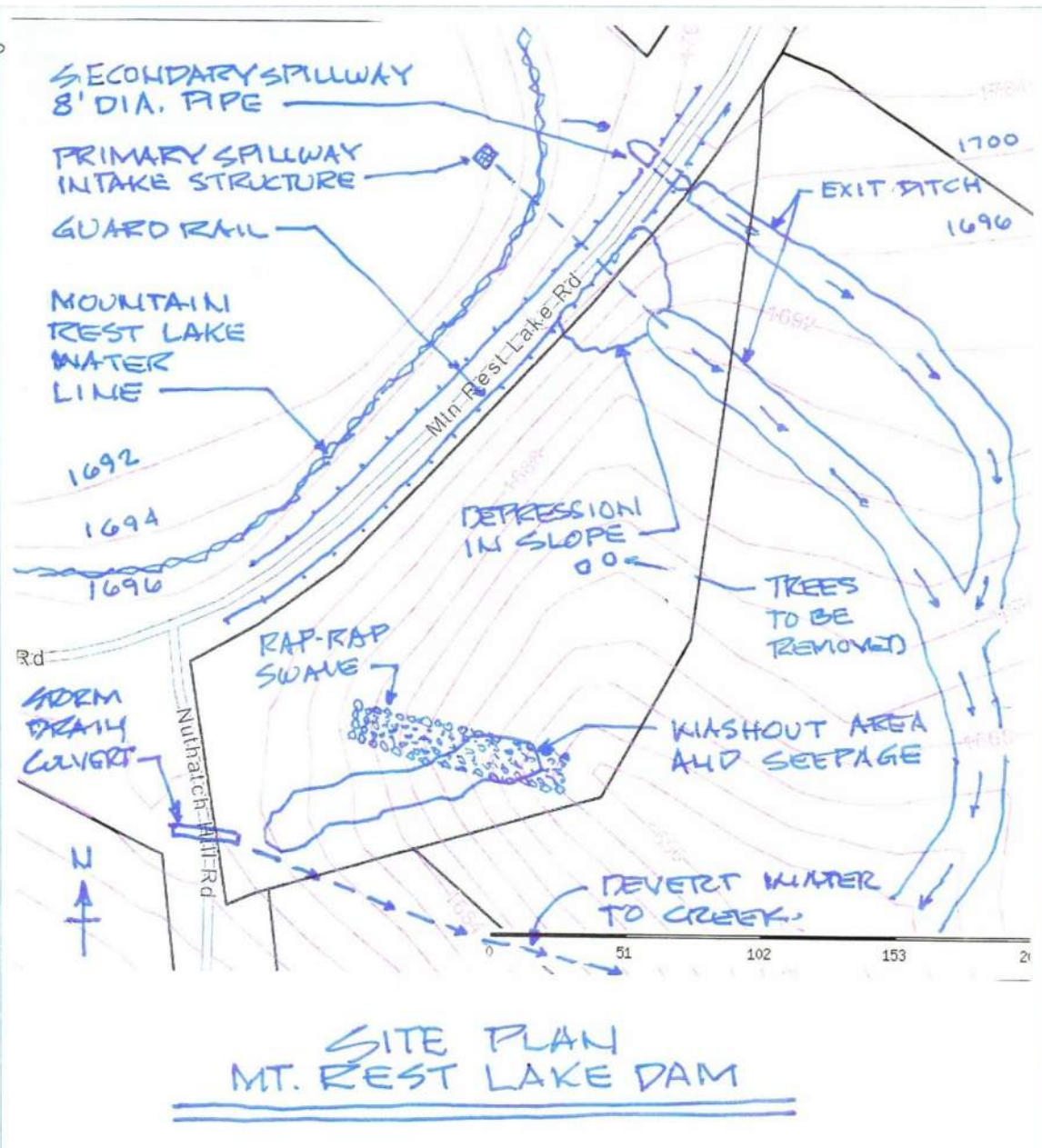


SECTION - B

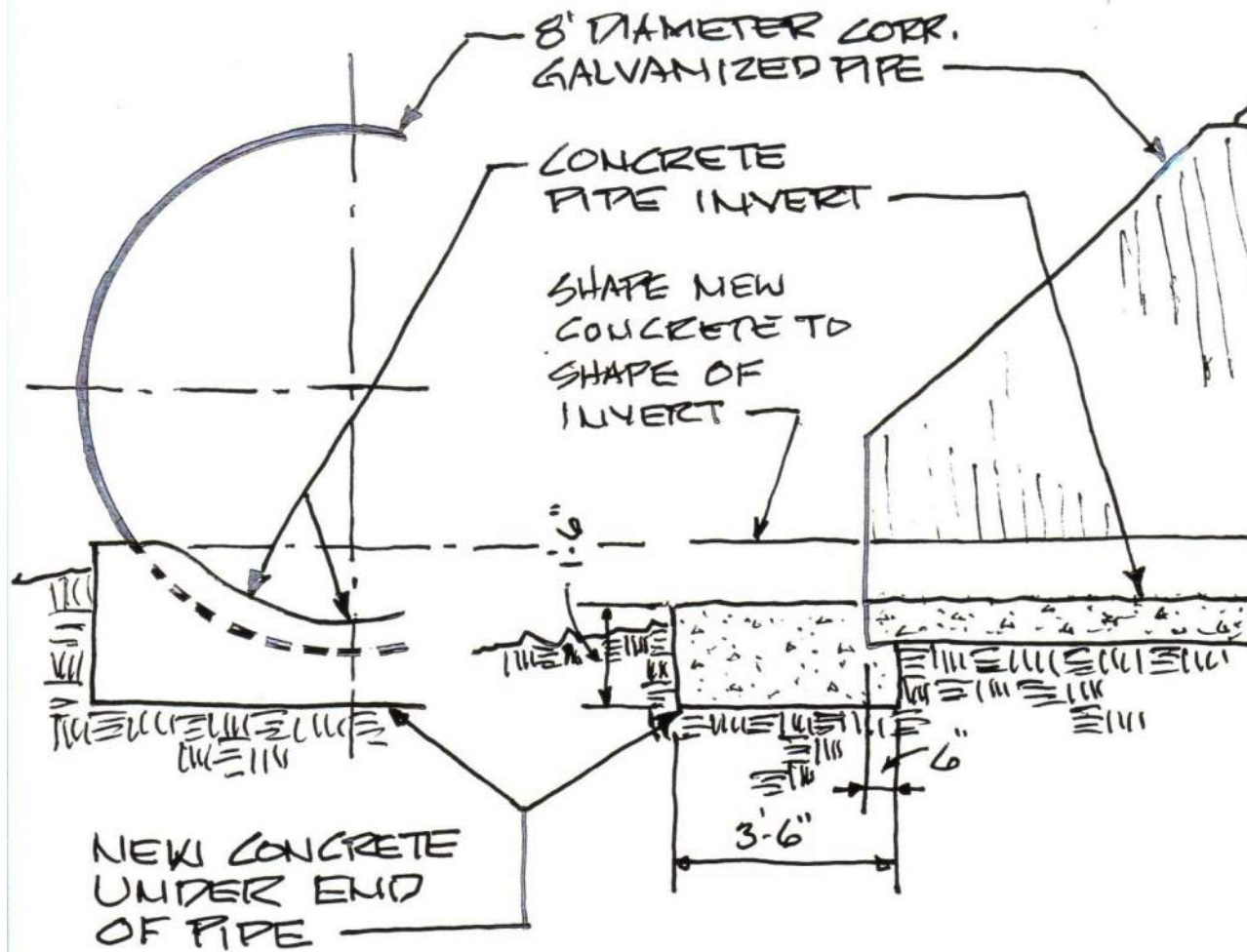


SECTION - A

Underpinning Secondary Spillway Pipe

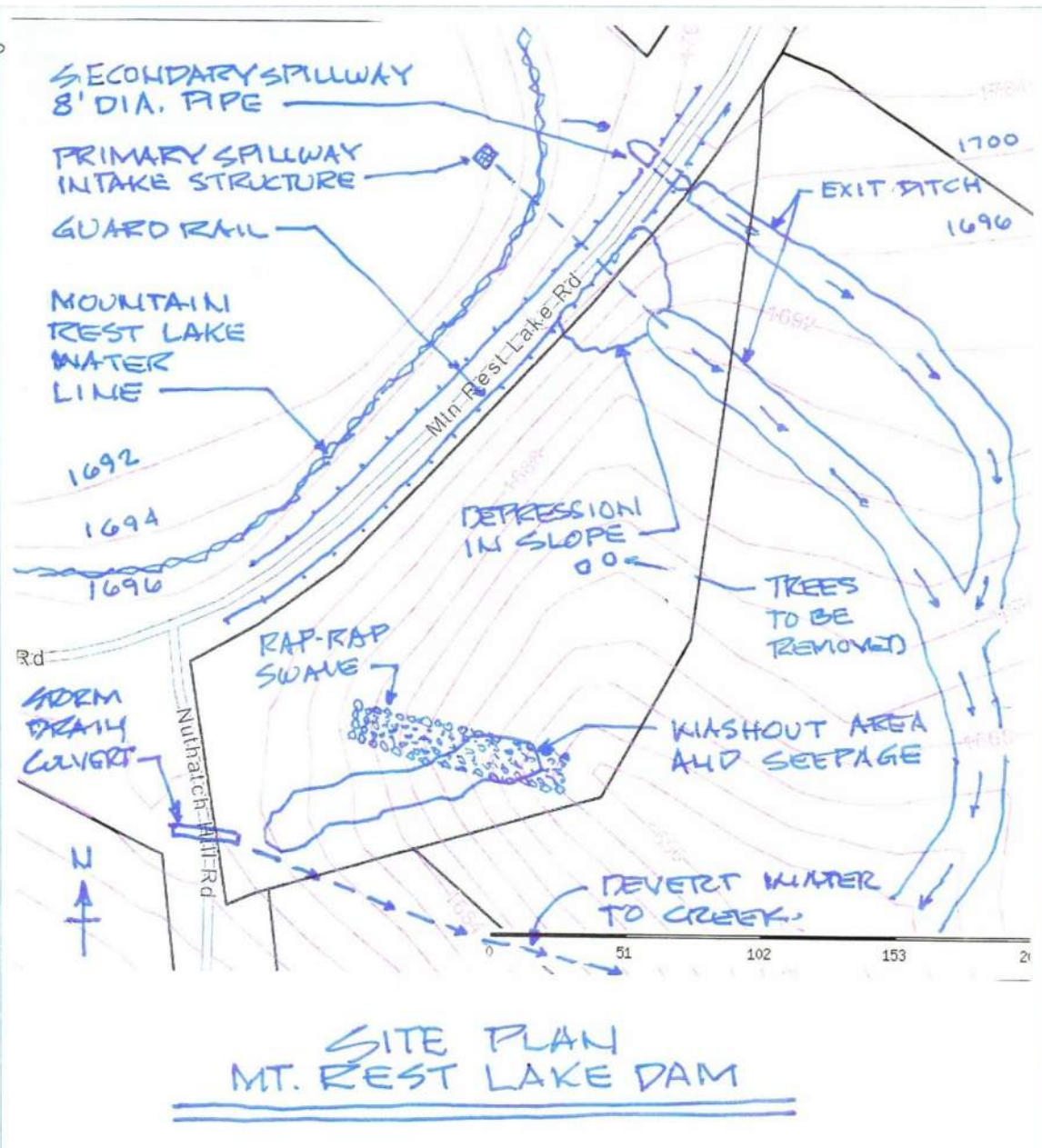




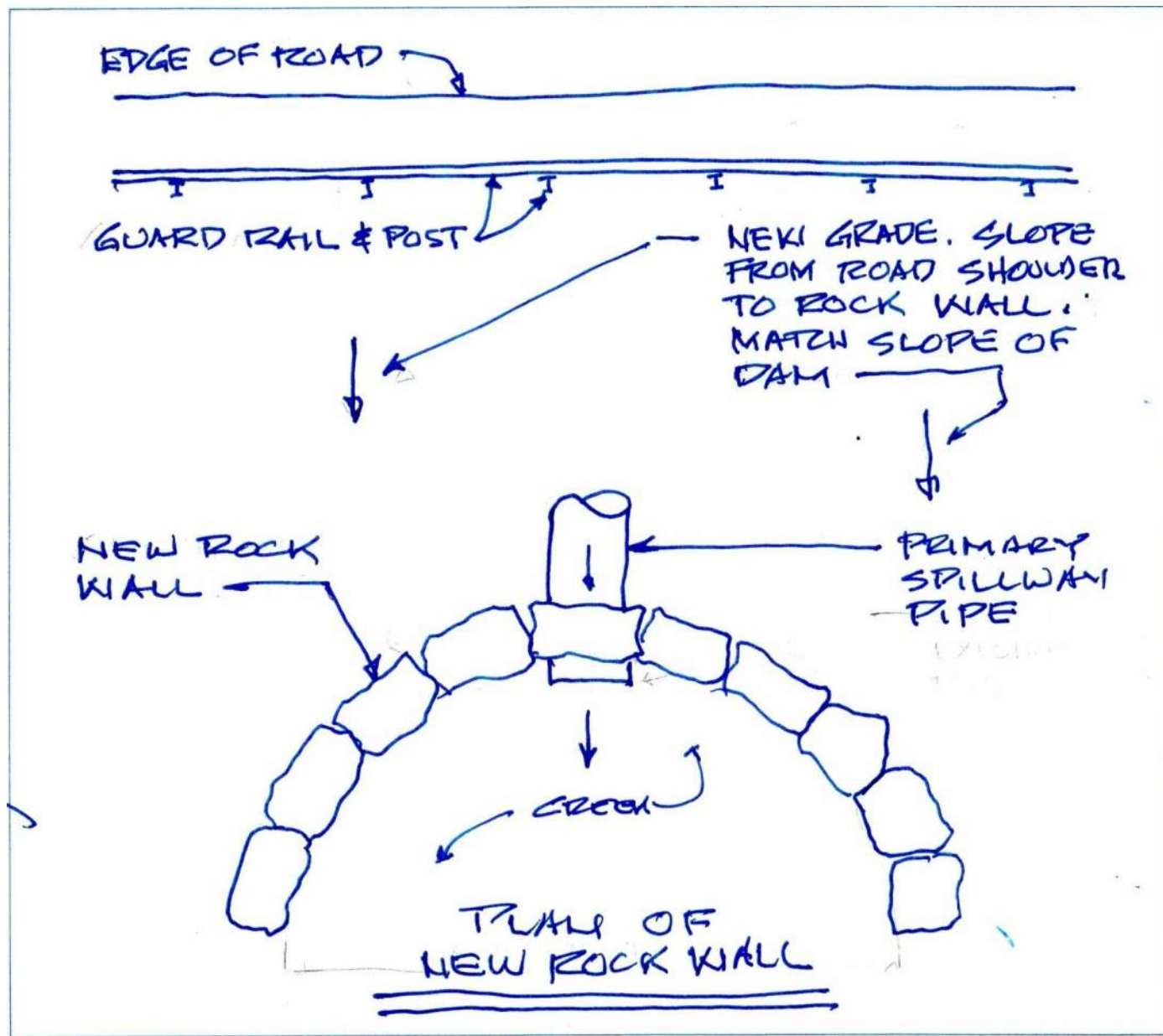


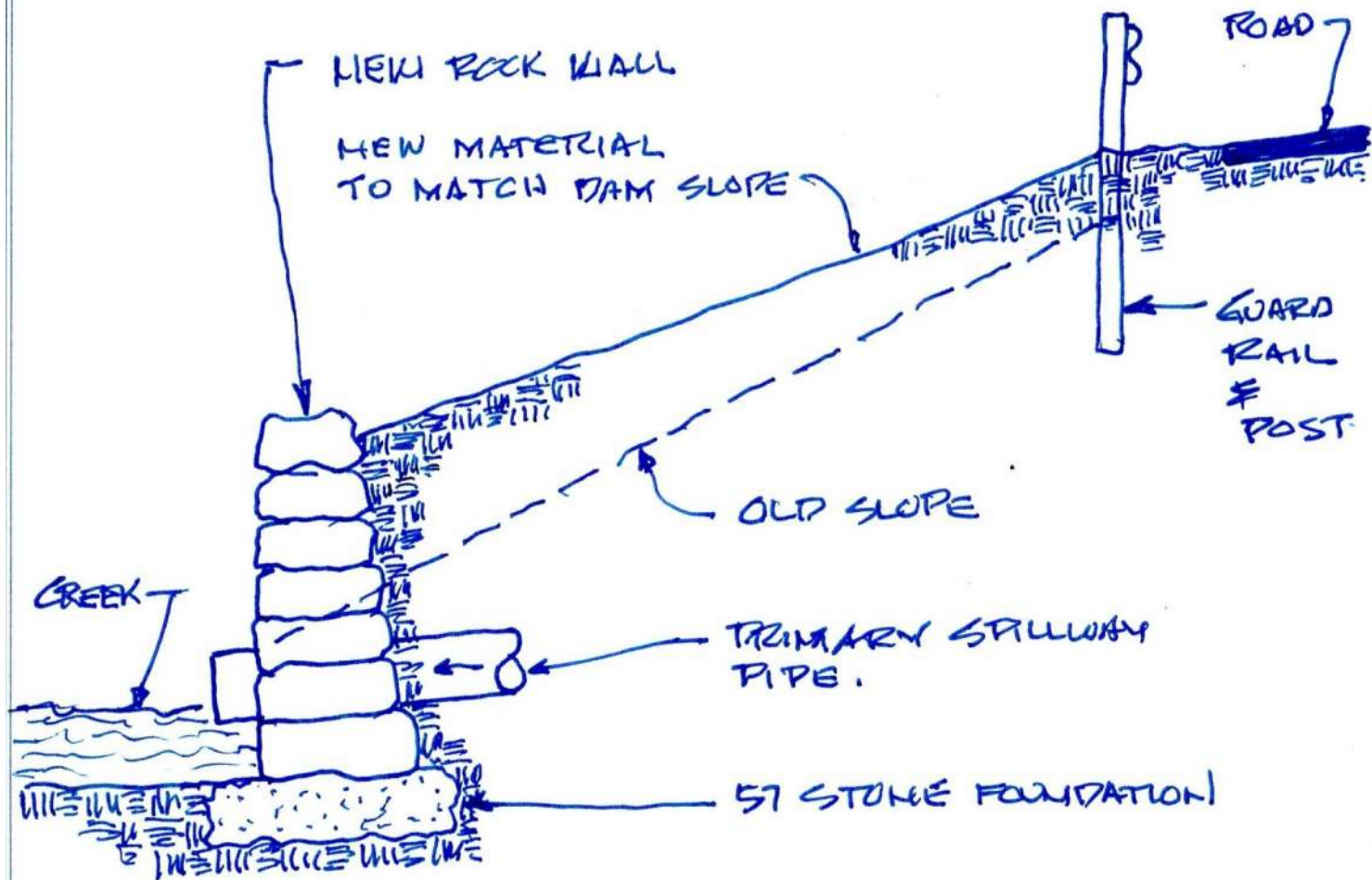
UNDERMINNING REPAIR
SECONDARY SPILLWAY PIPE

Depression in Back Slope over Primary Spillway Pipe



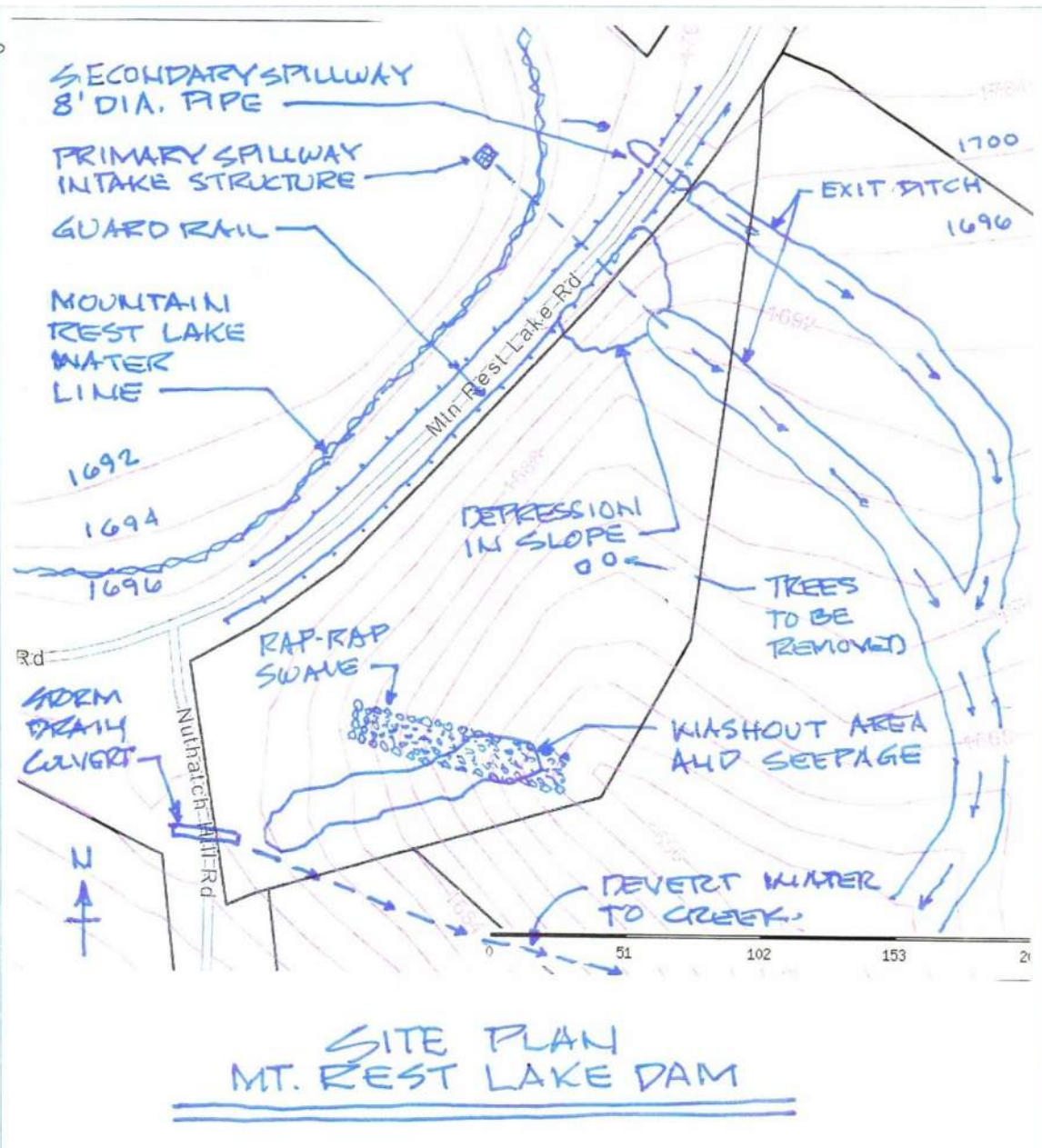






SECTION AT DEPRESSION
AT PRIMARY SPILLWAY PIPE

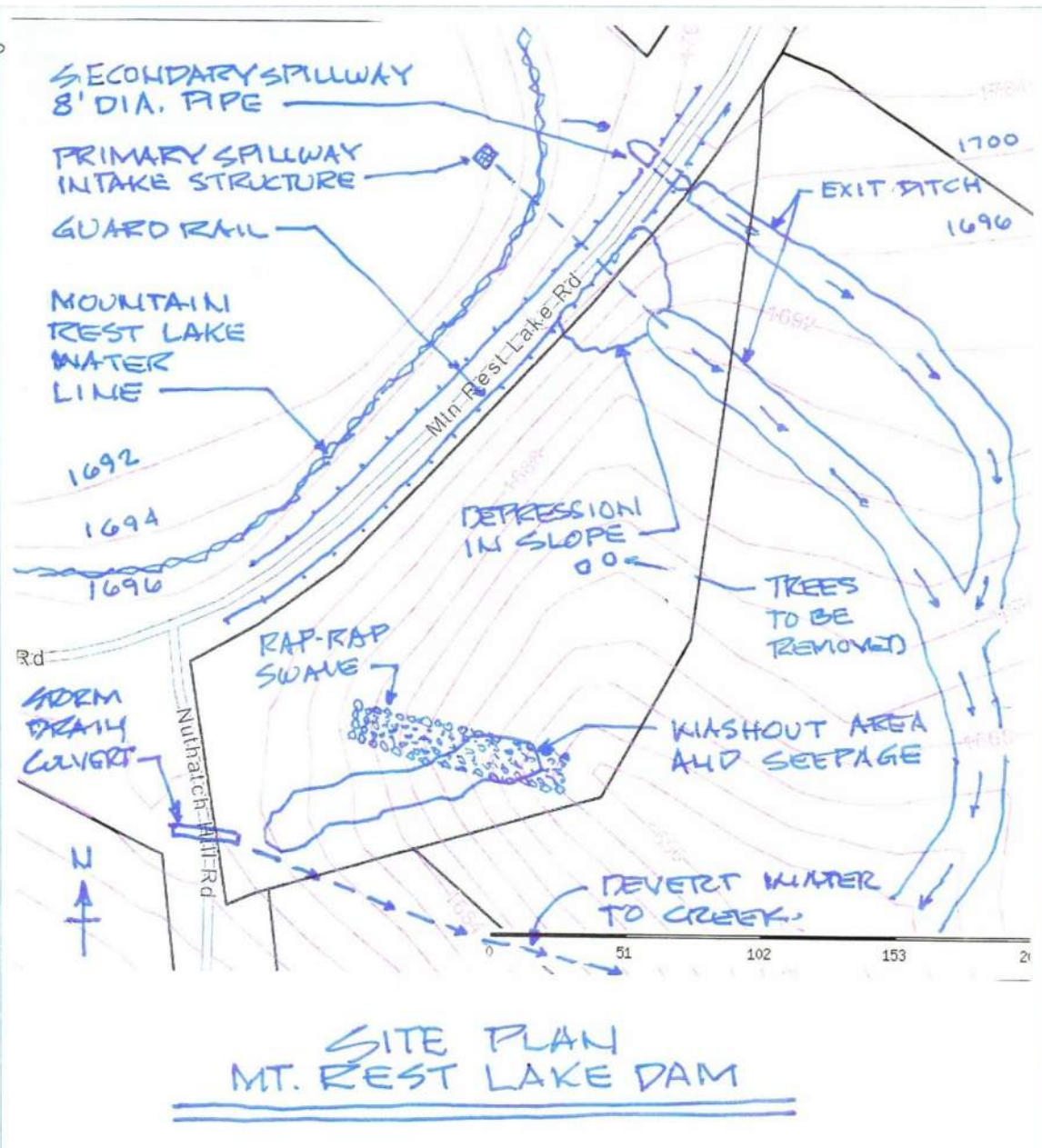
Two Trees on Back Slope





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Washout at Right Abutment Repair





12/16/2015

REFURGE EARTH FILL
BACK TO NATURAL
GRADE

SOURCE
OF SEEPAGE

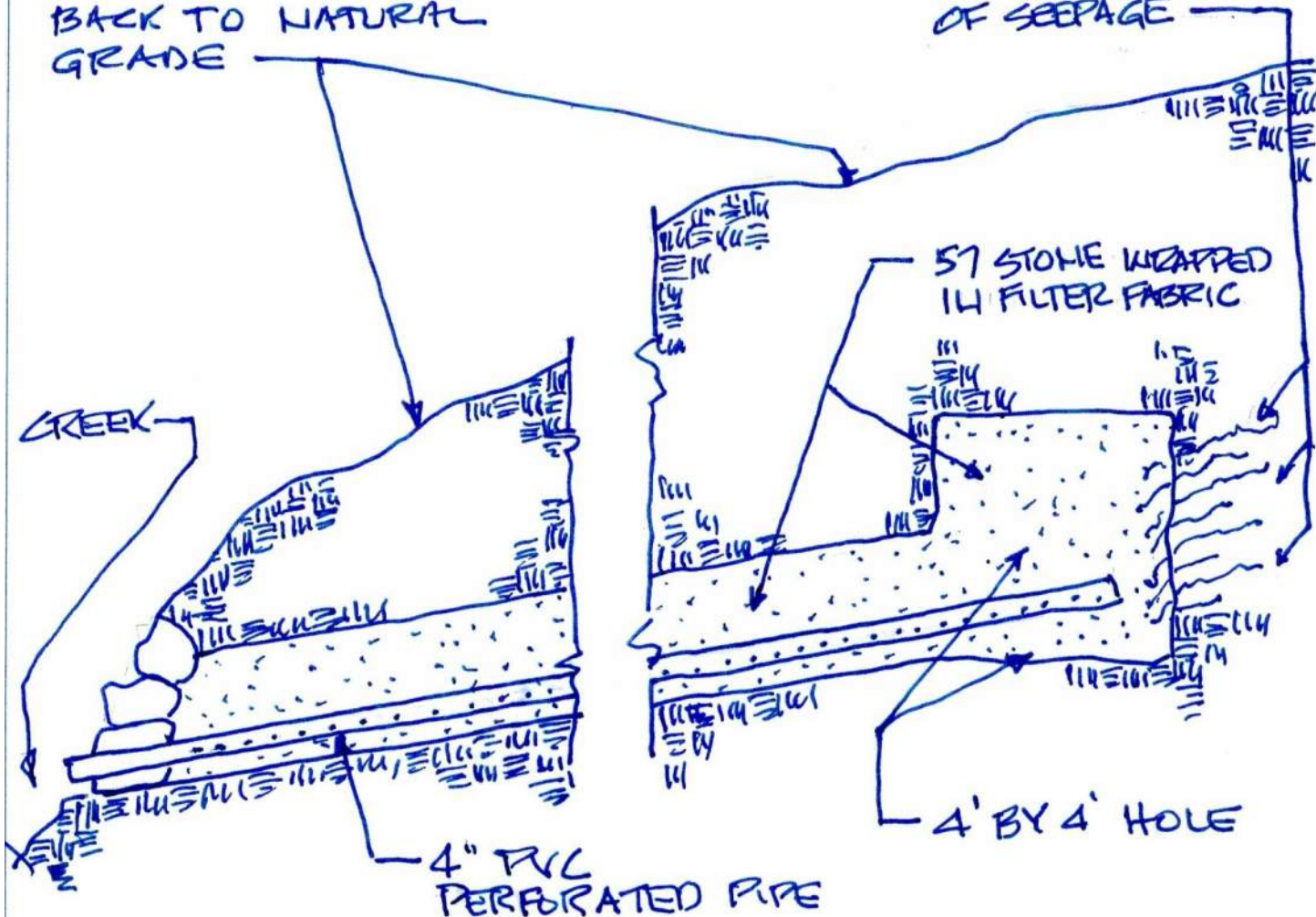
CREEK

5' STONE WRAPPED
1/4" FILTER FABRIC

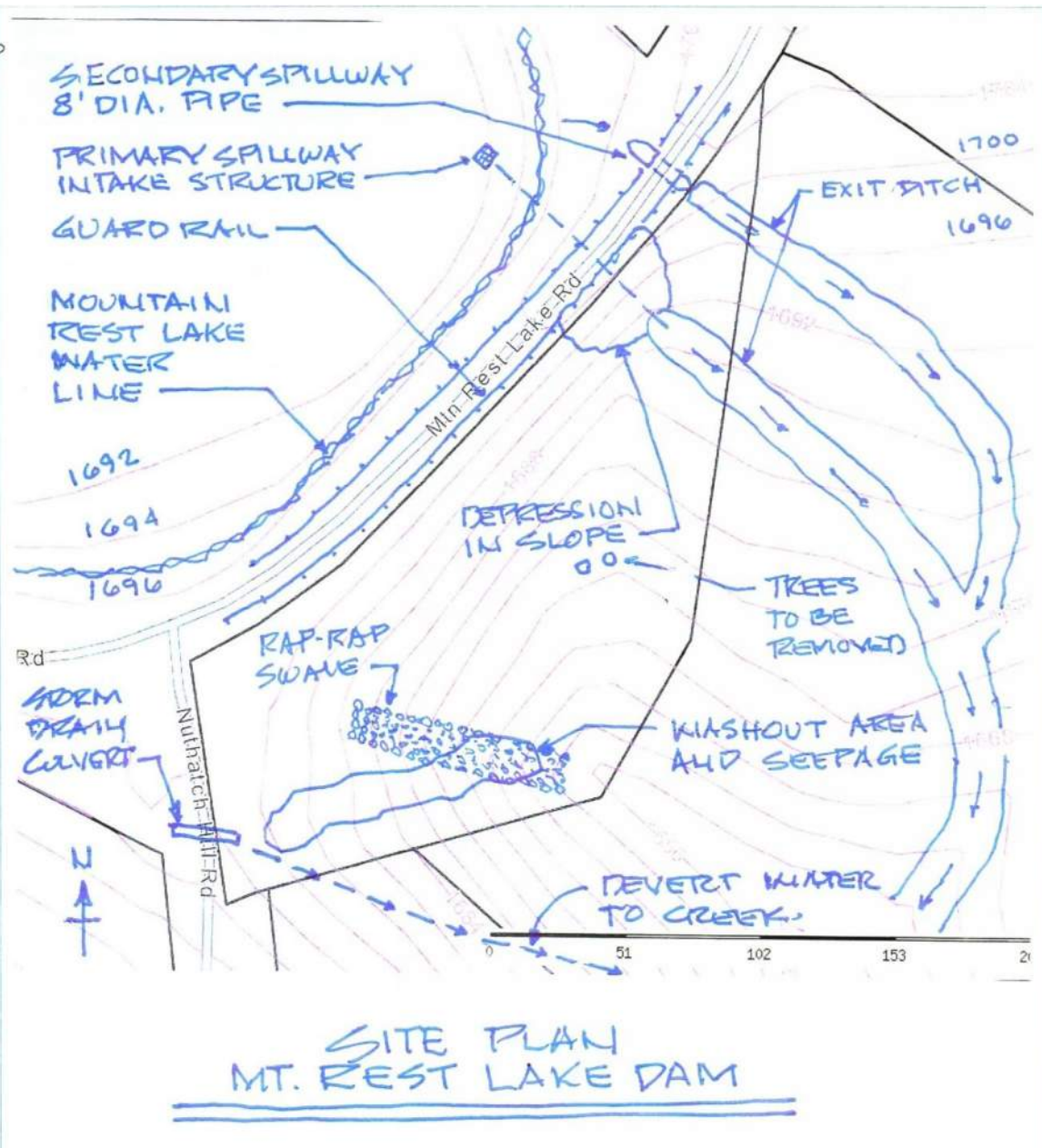
4' BY 4' HOLE

4" PVC
PERFORATED PIPE

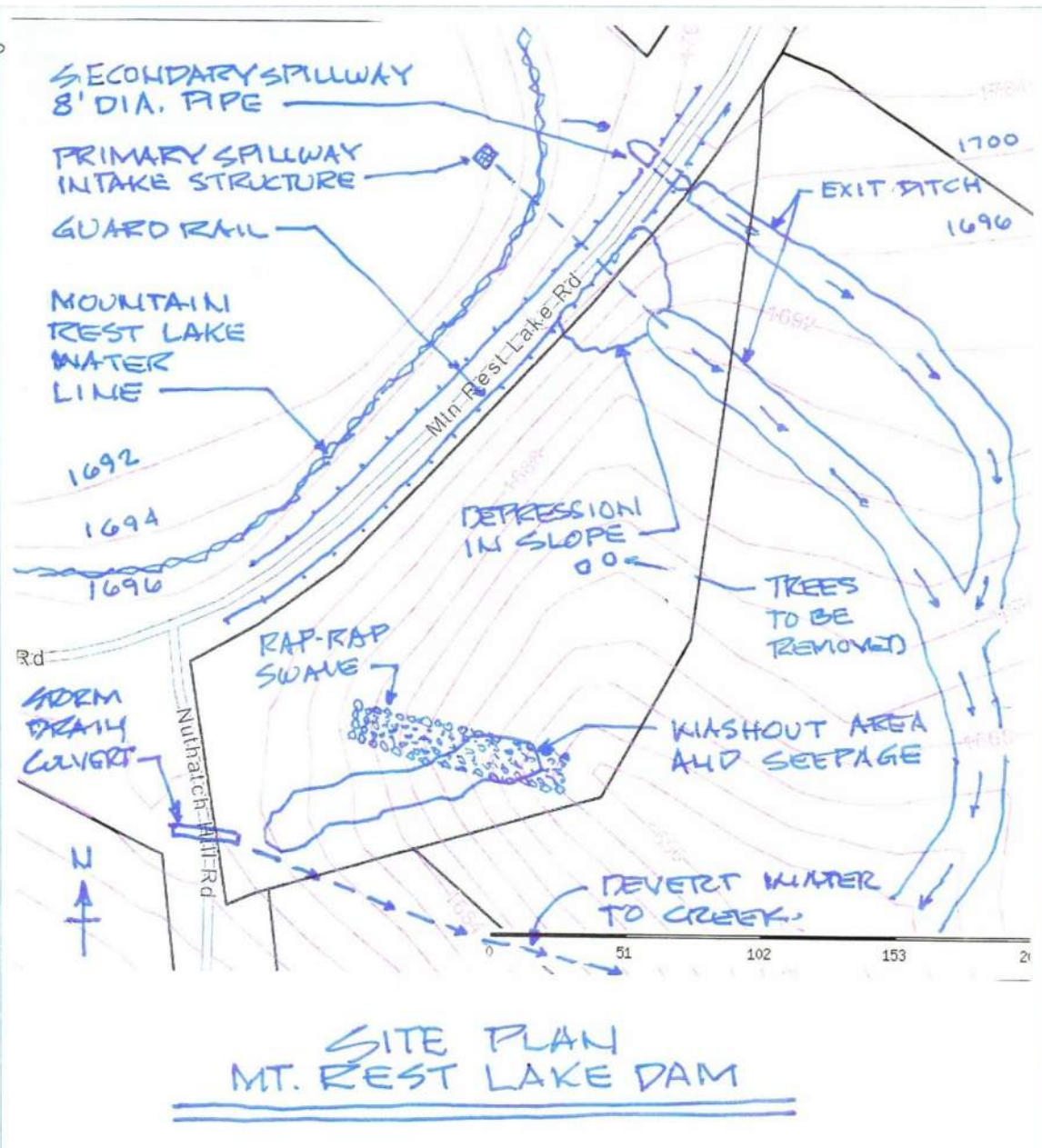
REPAIR OF SEEPAGE PROBLEM

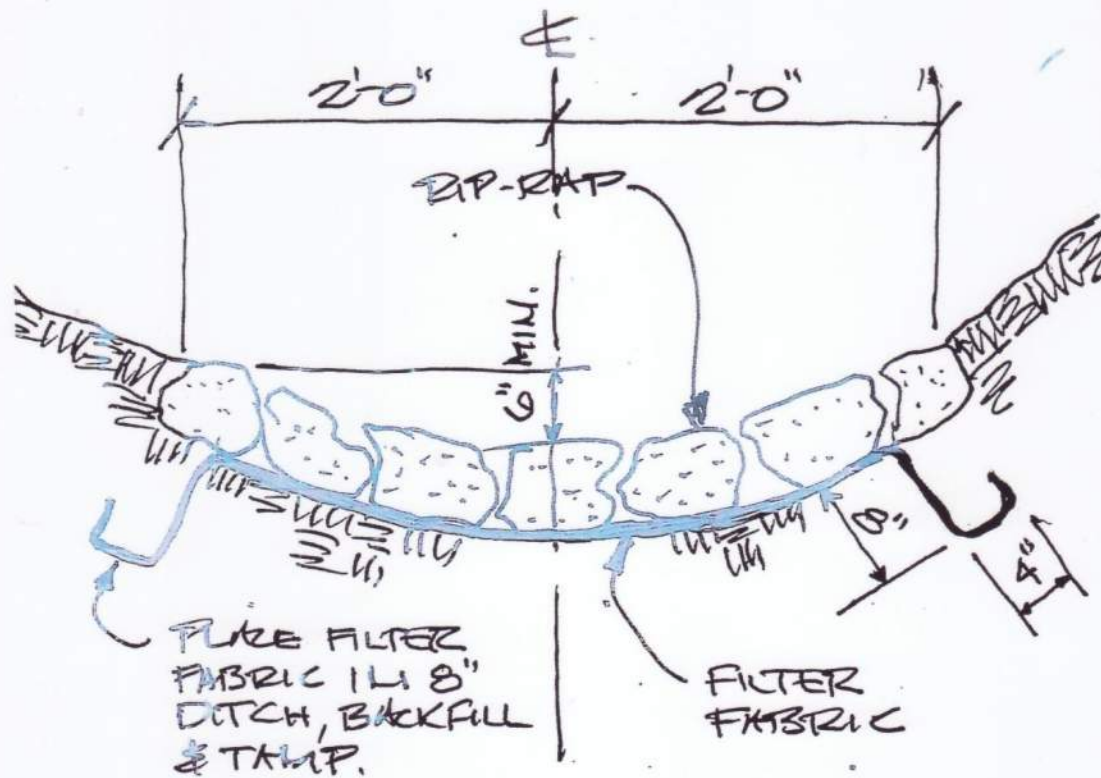


Storm Water Diversion Ditch



Rip-Rap Valley Swale





SECTION - DETAIL
RIP-RAP SWALE

Mountain Rest Bid Tabulation Sheet

Bidder name:

Projects:

		Breedlove Grading	Lee's Landscaping and Grading	Tugaloo Pipeline, Co.	
Front slope Erosion Repair Scheme	Rap-Rap	\$32,000	\$10,800	No Bid	21,200
	Concrete	\$27,000	\$12,950		14,050
	Boulders	\$36,620	\$23,400		13,220
Secondary Spillway Pipe Repair		\$1,200	\$695		505
Underpinning Secondary Spillway Pipe		\$1,500	\$450		1050
Depression in Back Slope over Primary Spillway Pipe		\$4,500	\$6,850		2350
Two Trees on Back Slope		\$1,500	\$1,450		50
Washout at Right Abutment Repair		\$3,000	\$1,275		1725
Storm Water Diversion Ditch		\$2,000	\$2,150		150
Rip-Rap Valley Swale		\$3,500	\$1,350		2150

\$44,200

\$27,170

Delta = \$17,030

Assessment Calculations

- 67 known property owners having deeded property rights.
- Using \$40,000 for cost of Construction, Engineering services, Legal services and reimbursement to POA operating budget= \$597 per property owner.
- 43 MRLPOA members = \$930 per member.
- All assessment fees will be kept separate from the primary budget for the use of dam repair only.
- One time payment to the POA. We need to have sufficient funds to cover the project before signing any contracts.

DEHEC Can:

- Assess from \$100 to \$500 per day for non compliance.
- Drain the lake.
- Remove the dam.