

Mt. Barnabe Communications/Lookout Facility Access Road Repairs Staff Report

Background

Mt. Barnabe is a MERA simulcast network site in the west county and also serves as a fire lookout for the Marin County Fire Department. From this strategic site, the lookout building has uninterrupted visual access to a majority of Marin County and Southern Sonoma County. As a result, this building has become a key location for the placement of communication equipment for MERA. With Communication an integral part of the ability to provide emergency services countywide, the ability to access the Mt. Barnabe Lookout Tower is imperative.

Both emergency and maintenance vehicles are typically oversized and often exceed weight limits for small roads. Emergency and maintenance crews can only access these facilities via Portola and Mt. King Roads in Forest Knolls. During last winter's heavy January rains two culverts failed and caused slides to occur on the down hill side of the culverts making the road impassable for maintenance vehicles during the winter season and limited access during the dry months.

Needs Assessment-Emergency Repairs

When devastating winter storms compromise the equipment and power at this site, it's imperative for MERA technicians, PG&E, propane deliveries and other support personnel to have safe access to the site to restore operations.

In both instances, the structural soundness of Portola Road could be the difference in providing dependable emergency services communications. The repair of both the washouts with more current engineering methods will help to ensure the reliability of this access route.

Cost Sharing

It has been proposed by Supervisor Kinsey that Verizon and MERA share the cost of the repairs

We have received an emergency bid from Lunny Construction to repair both slides.

Slide 1 = \$ 10,700.00
Slide 2 = \$ 28,400.00
Change Order = \$ 1,500.00

Total = \$ 40,600.00

Verizon has agreed to pay for the entire cost of the slide 1 repair and half the cost of the slide 2 repairs for a total of \$ 40, 600.00. This leaves a balance of \$ 15,700.00 that would be MERA's responsibility.

Proposal

08-18-2008
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Job # 4729
 Pigois Washout Repair
 135 Portola
 Forest Knolls CA

Architect:
 Plan Date:

<i>Item/Cost Code</i>	<i>Amount</i>
4729 Pigois Washout Repair	
1 Mobilization Move in all necessary equipment.	\$1,100.00
2 Culvert & Headwall Place new 18" High Density Polyethylene Pipe and concrete headwall, patch asphalt.	\$6,800.00
3 Earthwork Remove weak soils, excavate fill key, moisture condition fill material, place compacted fills in 8" maximum lifts, compact with vibratory sheepsfoot compactor, rebuild hillside and road shoulder with on-site material, regrade ditch to bottom of gully.	\$9,300.00
4 Rock Lined Ditch Line new channel with 8" to 12" rock, 8' wide on woven fabric.	\$8,800.00
5 Erosion Control Place native grass seed, straw and straw waddles on all disturbed areas.	\$2,400.00
Phase Total:	\$28,400.00
Grand Total:	\$28,400.00

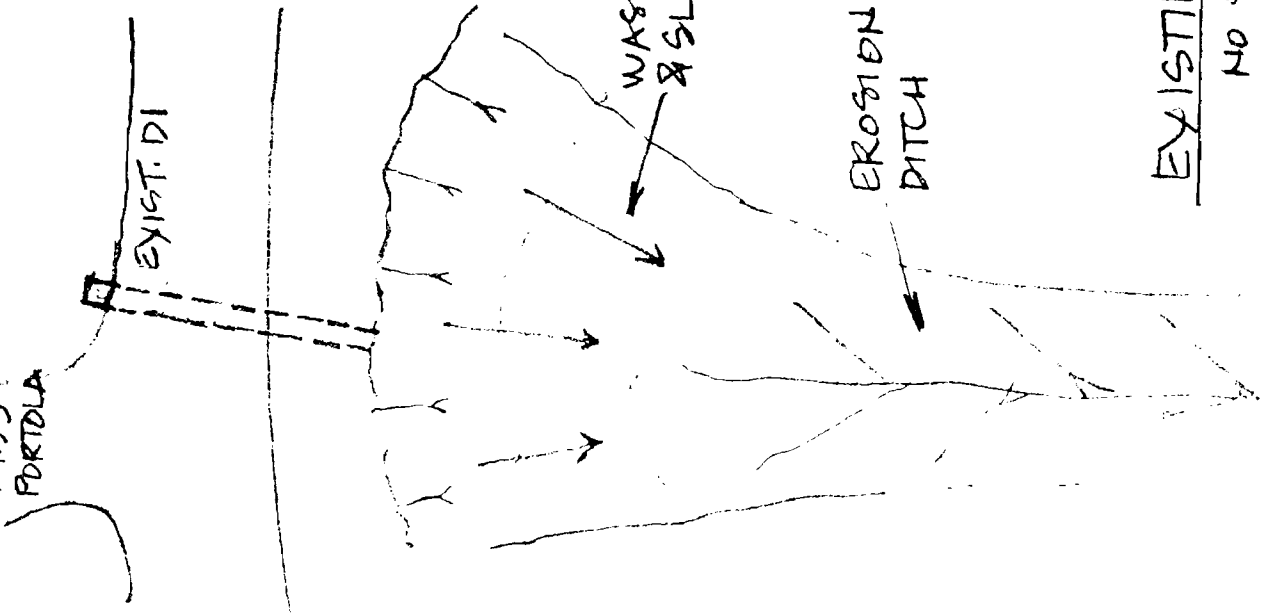
Notes:

Water to be supplied by Pigois hydrant.

PIC016 WASHOUT REPAIR

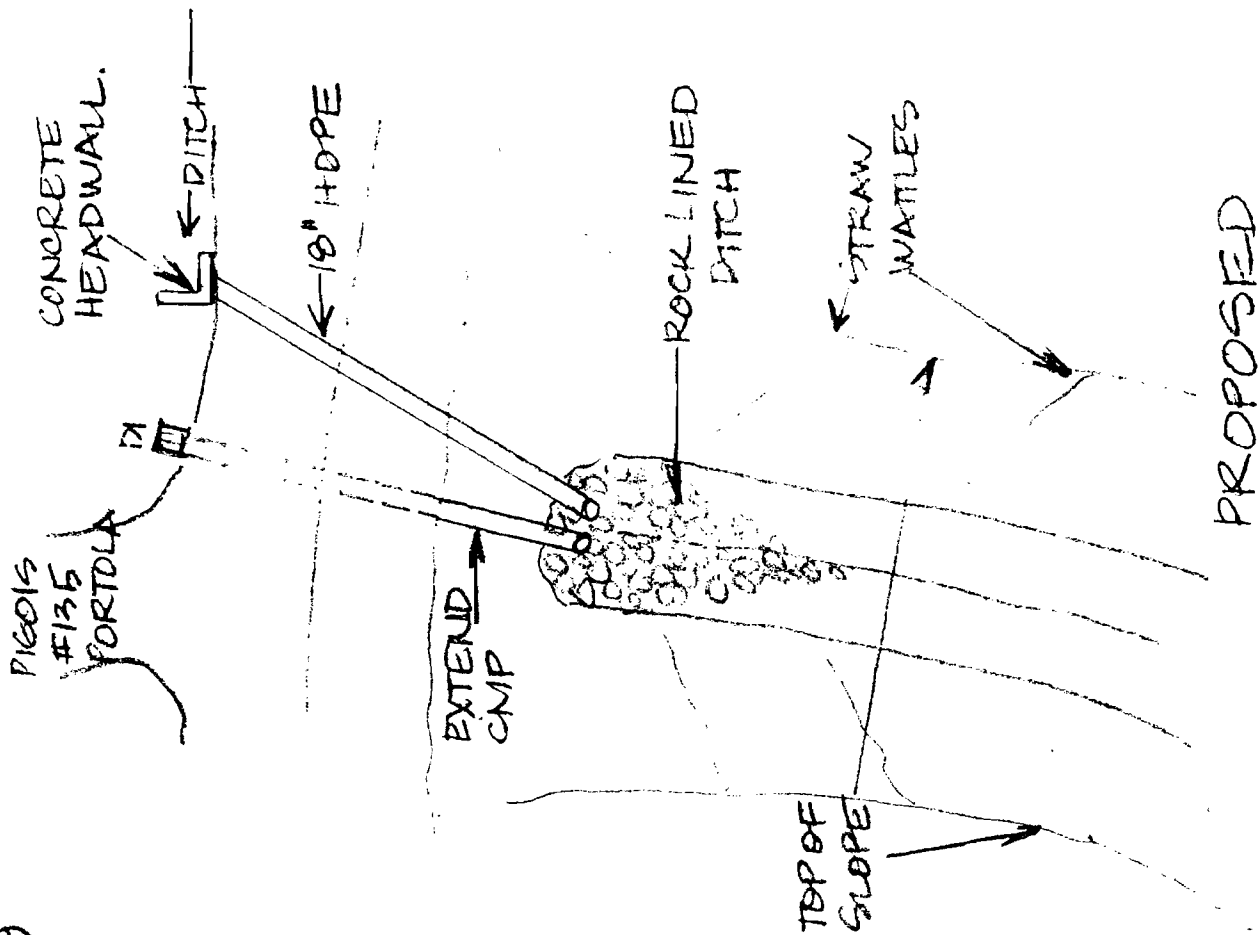
JOB # 4729

PIC016
#135
PORTOLA



EXISTING

NO SCALE

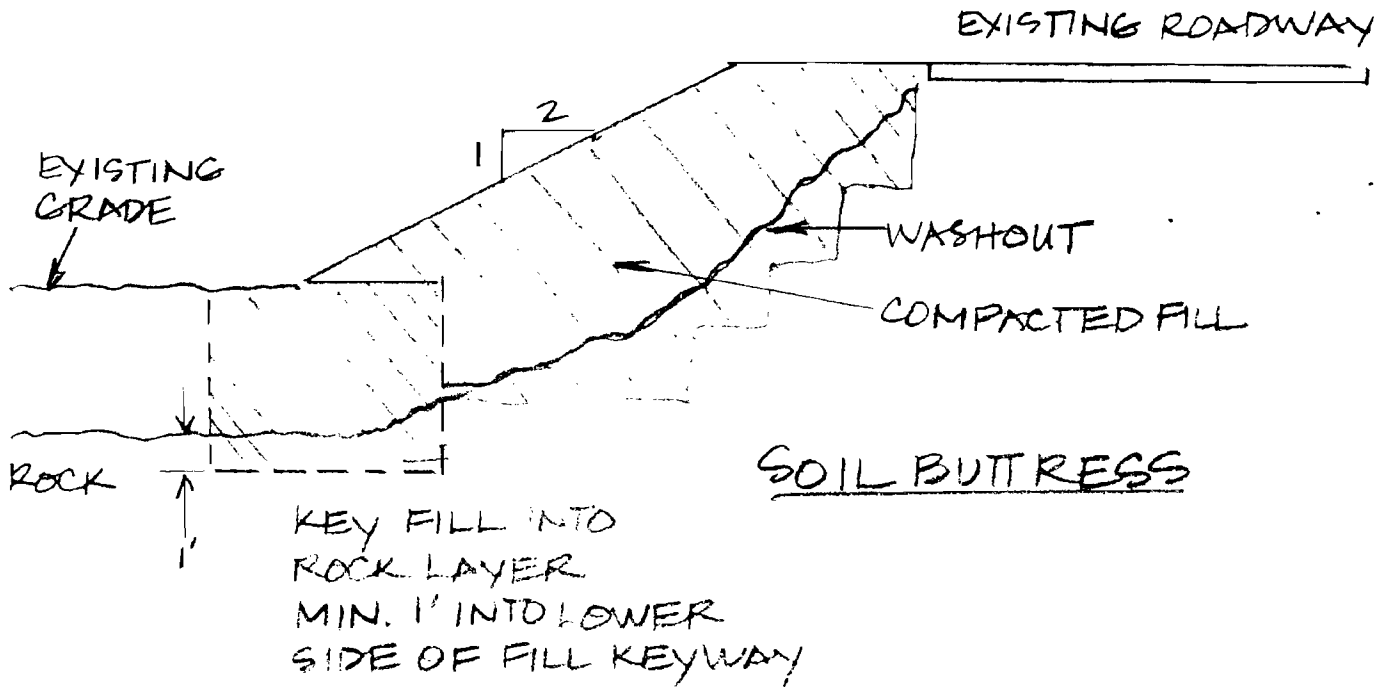
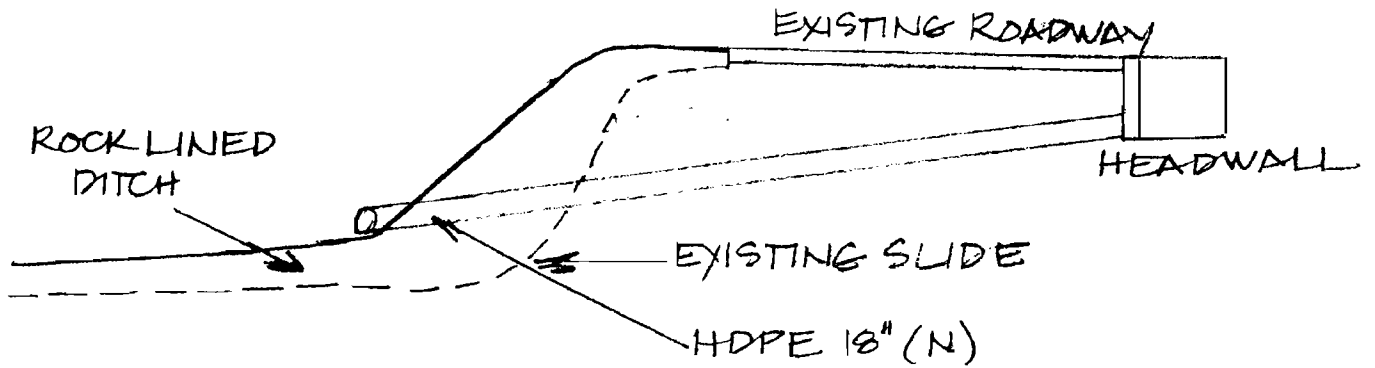
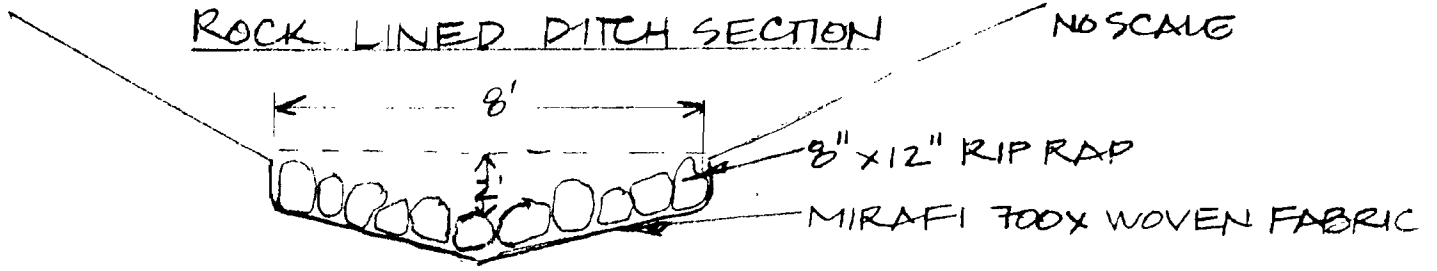


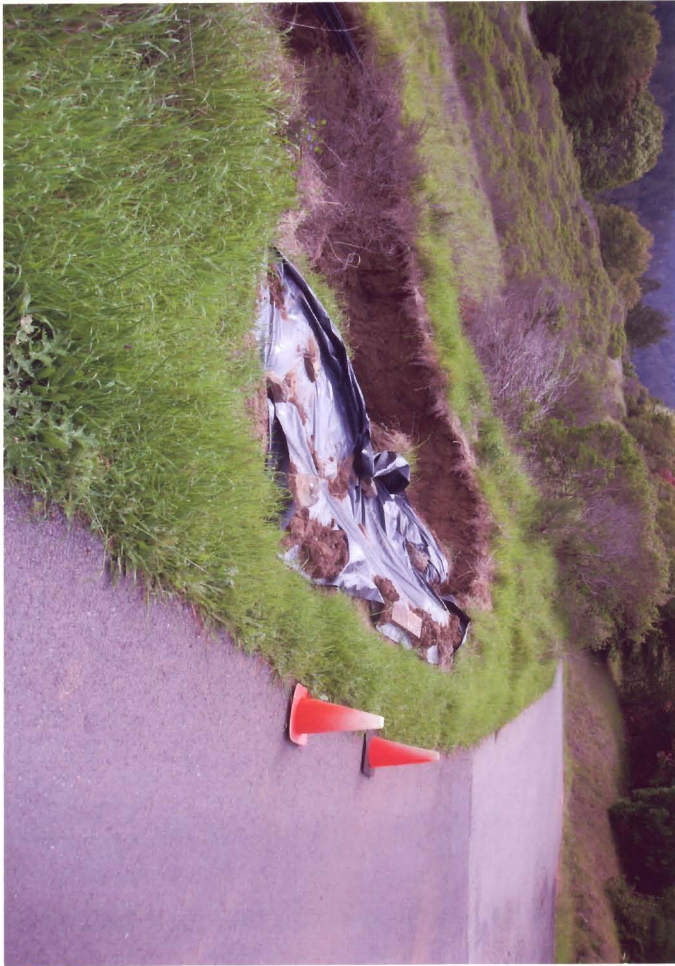
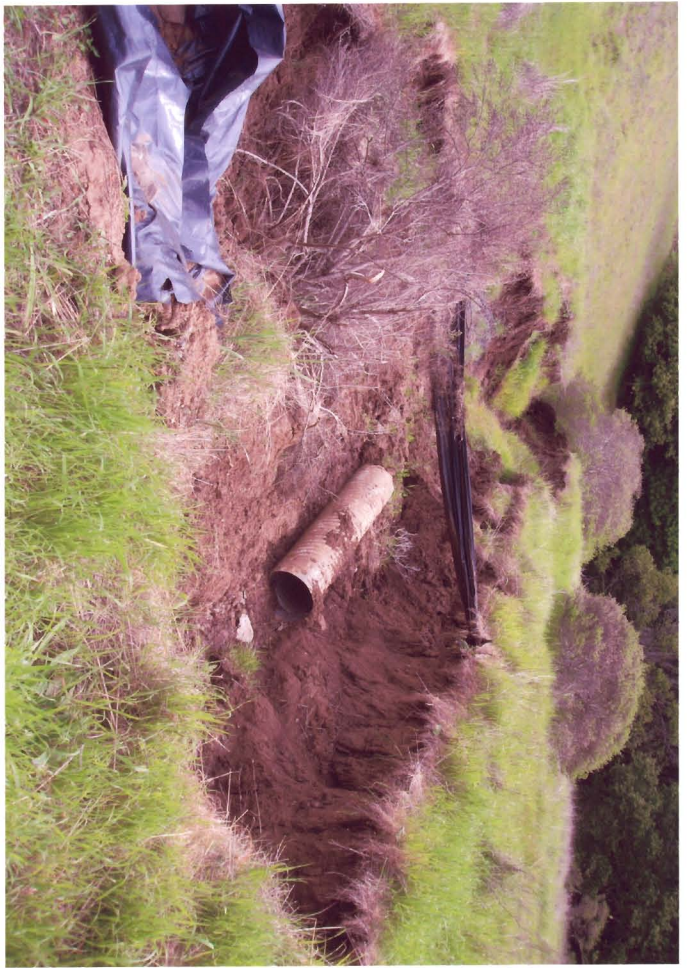
PROPOSED

NO SCALE

PIGOIS WASHOUT REPAIR

Job 4729







Proposal

08-18-2008
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Job # 4728
Stone Culvert Washout
Portola Road
Forest Knolls CA

Architect:
Plan Date:

<i>Item/Cost Code</i>	<i>Amount</i>
4728 Stone Culvert Washout	
1 Repair Washout at Culvert	\$10,700.00
Clear and grub site, place approximately 80 tons of rip rap to protect the slope at culvert outfall, install trash rack in front of existing culvert inlet to reduce the chance of culvert blockage and overflow.	
Phase Total:	\$10,700.00
Grand Total:	\$10,700.00

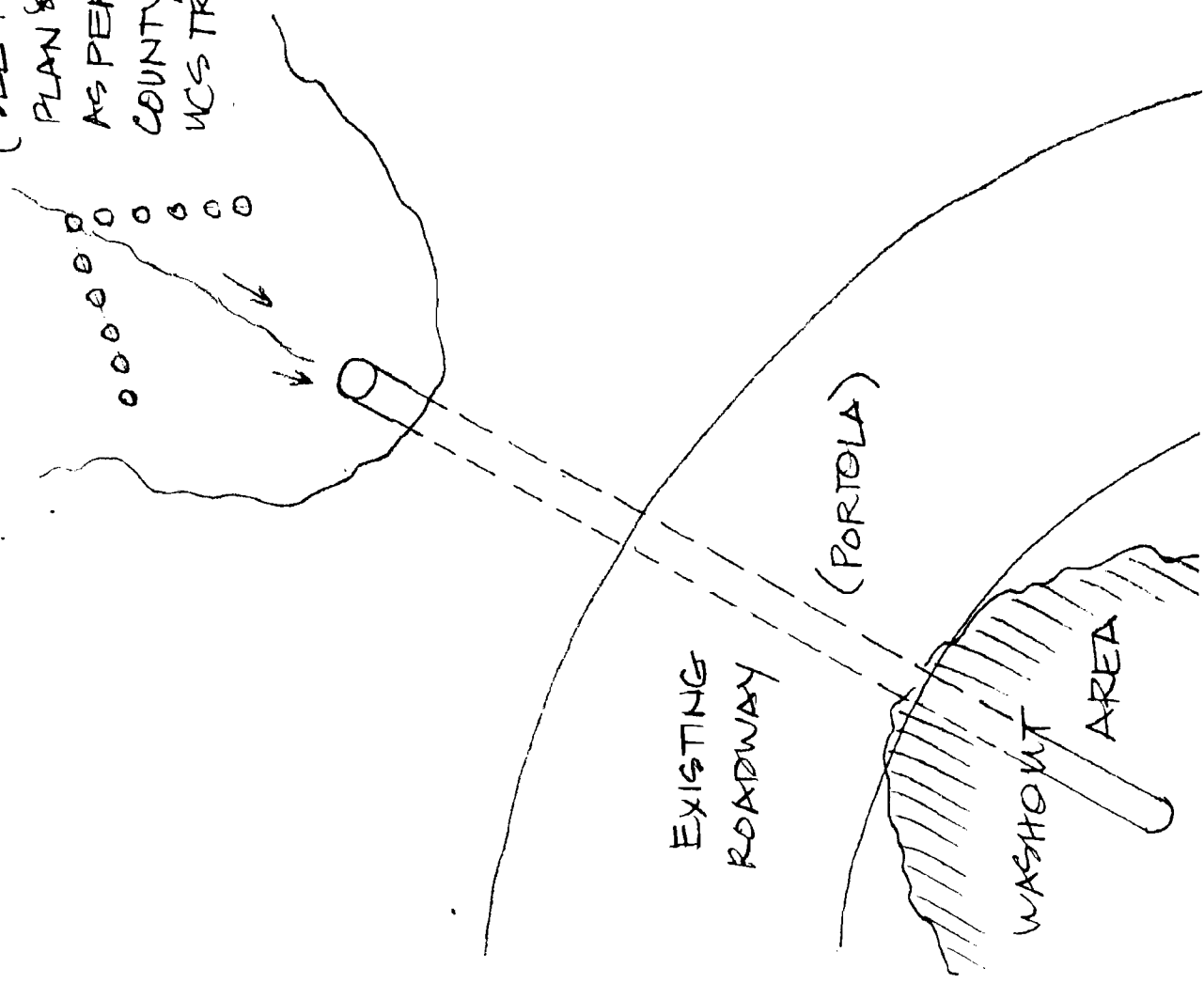
Notes:

STONE CULVERT WASHOUT

JOB # 4728

NO SCALE

TRASH
RACK
(SEE TRASH RAC.
PLAN & SECTION
AS PER MARIN
COUNTY TYPEA
WCS TRASH RACK



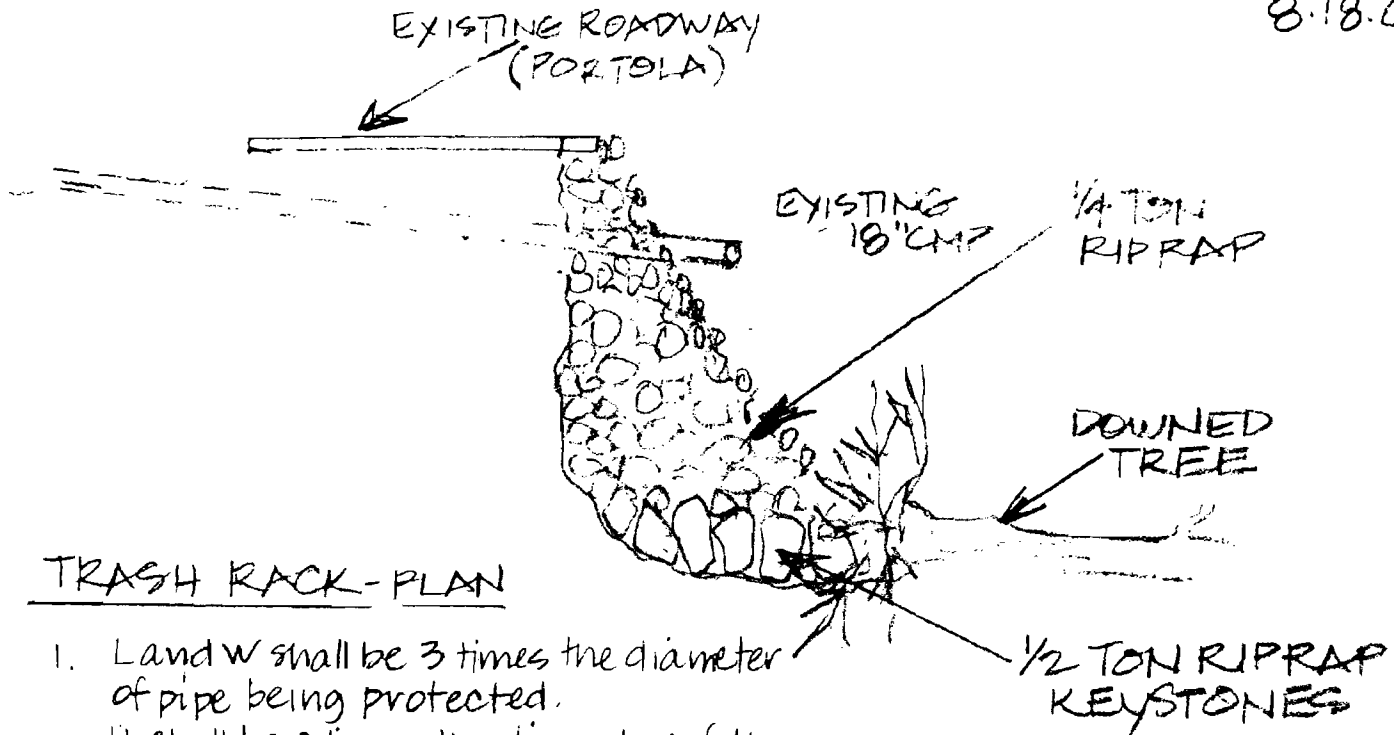
STONE CULVERT WASHOUT

JOB # 4728

NO SCALE

LUNNY GRADING
& PAVING

8.18.08



TRASH RACK - PLAN

1. Land w shall be 3 times the diameter of pipe being protected.
2. H shall be 2 times the diameter of the pipe being protected
3. Pipe is standard weight, concrete is Class B (5 sack) FLOW

TRASH RACK SECTION

