



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 721
Denver, CO 80203

November 13, 2014

Gunnison County
Attn: Marlene Crosby, Public Works Director
195 Basin Park Drive
Gunnison, CO 81230

RE: Notice to Proceed - WSRA Grant – Gunnison County Repair of Whitewater Park

Dear Marlene,

This letter is to inform you that the purchase order to assist in the above WSRA grant project was approved on November 13, 2014. The email attachments will serve as the original documentation.

With the executed PO, you are now able to proceed with the project and invoice the State of Colorado for costs incurred through June 30, 2016. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 45 days. I wish you much success in your project.

If you have any questions or concerns regarding the project, please contact me.

Sincerely,

//s//

Brent Newman

Program Manager

Water Supply Planning Section

O 303.866.3441 x3222 | C 303.681.8420

1313 Sherman Street, Suite 723, Denver, CO 80203

Brent.newman@state.co.us

www.cwcb.state.co.us www.coloradowaterplan.com





STATE OF COLORADO
Department of Natural Resources

ORDER		** IMPORTANT **				
Number: POGG1 PDAA 20150000000000000187		The order number and line number must appear on all invoices, packing slips, cartons and correspondence				
Date: 11/13/14						
Description: 2500 WSRA Gunnison Cnty Repair of Whitewater ark		BILL TO				
BUYER		COLORADO WATER BOARD CONSERVATION				
Buyer:		1313 SHERMAN STREET, ROOM 718				
Email:		DENVER, CO 80203				
VENDOR		SHIP TO				
GUNNISON COUNTY		COLORADO WATER BOARD CONSERVATION				
200 E VIRGINIA AVE		1313 SHERMAN STREET, ROOM 718				
GUNNISON, CO 81230-2248		DENVER, CO 80203				
Contact: M. Crosby		SHIPPING INSTRUCTIONS				
Phone: 970-641-0044		Delivery/Install Date:				
		F.O.B: FOB Dest, Freight Allowed				
		VENDOR INSTRUCTIONS:				
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$10,000.00	<input type="checkbox"/>
Description: 2500 WSRA Gunnison Cnty Repair of Whitewater Park						
Start Date: 11/12/14			End Date: 06/30/16			
TERMS AND CONDITIONS						
https://www.colorado.gov/osc/purchase-order-terms-conditions						
DOCUMENT TOTAL = \$10,000.00						

Exhibit A
Statement of Work

WATER ACTIVITY NAME – Gunnison Whitewater Park Repairs

GRANT RECIPIENT – Gunnison County

FUNDING SOURCE – Gunnison Basin Roundtable

INTRODUCTION AND BACKGROUND

This fall, Gunnison County staff identified several issues with two of the existing whitewater features at the Gunnison Whitewater Park. In light of these issues McLaughlin Whitewater Design Group was retained to evaluate the features, identify any structural damage and provide recommendations to repair any deficiencies. They found significant structural damage in both structure 2 and 3 which includes the high probability of complete structure failure in the near future as well as significant safety issues caused by the erosion of the existing features in the immediate term. The Park has become one of the most heavily used assets in the Gunnison Valley. It was created to provide activities for a variety of users including fishermen, kayakers, rafters, swimmers and those who simply enjoy relaxing near the river. During the summer months the Park attracts hundreds of users from all ages and demographics. The Park consists of two boat ramps, a trail system and three whitewater structures that enable "play spots" for recreational boaters. In addition, it is host every year to the Gunnison River Festival which brings in boaters and spectators from all around the region to participate in activities revolving around our River ecosystems. The uses in the Park also helped secure a Recreational Inflow Water Right for the Gunnison River Basin. In an effort to save one of the Gunnison Valley's most treasured amenities we are seeking funding to make the necessary repairs to the Park structures to ensure its functionality and safety for years to come.

OBJECTIVES

List the objectives of the project

- Repair/ replace existing feature 3 in the Gunnison Whitewater Park
- Repair structural damage to existing feature 2 in the Gunnison Whitewater Park

TASKS

Provide a detailed description of each task using the following format

TASK 1 – Engineering

Description of Task

Complete engineering and design of whitewater park repairs including drawings, specifications and bid documents

Method/Procedure

McLaughlin Whitewater Group will prepare engineered drawings that include construction specifications and appropriate bid documents for Gunnison County

Deliverable

Engineered plans and bid documents

TASK 2 – Survey

Description of Task

Complete topographic and bathymetric survey of river and provide site base mapping

Method/Procedure

Alpine Surveying will prepare a complete topographic and bathymetric survey during low flow times and provide site base mapping to Gunnison County and McLaughlin Whitewater Group.

Deliverable

Topographic Survey

Bathymetric Survey

Site Base Mapping

TASK 3 – Permitting

Description of Task

Prepare permit applications, permit fees, and obtain required approvals

Method/Procedure

Bio-Environs will prepare permit applications, coordinate payment of permit fees and obtain required approvals for necessary site work to repair Gunnison Whitewater Park

Deliverable

Corps of Engineer Permits, fees and approvals

TASK 4– Construction

Description of Task

Construction/ repair of both Feature 2 and Feature 3 in the Gunnison Whitewater Park

Method/Procedure

- Mobilization of equipment and labor, bonding, insurance, and costs associated with project start-up generally 5% of total construction value as a lump sum
- Temporary access to the river and stockpile/staging areas as a lump sum
- Implement a Stormwater Pollution Prevention Plan (SWMP) to control erosion of areas disturbed by construction activity - silt fence, waddles, concrete washout area, and site restoration as a lump sum
- Control of surface and subsurface water during construction - temporary coffer dam, sumps, pumping, sediment basin as a lump sum
- Partial demolition and removal of boulders and grout in existing whitewater structures as a lump sum
- Excavation of soil & disposal - loader, trucking & excavator equipment time excluded (in-kind) - measured in cubic yards
- Excavation of soil, placement of fill on site with compaction - excavator equipment time excluded (in-kind) - measured in cubic yards in place
- Liner for whitewater features foundation cutoff measured in square feet installed
- Boulder handling, loading, hauling, sorting, subgrade preparation, placements and preparation for grouting - loader, trucking, excavator equipment time & boulder material cost excluded (in-kind) - measured by cubic yard installed
- Harvesting of boulders on site, loading, hauling, sorting, subgrade preparation, placements and preparation for grouting measured in cubic yard installed
- Cement grout placement, pumping, finishing and cleanup measured in cubic yards installed
- Riprap mixed with native river cobbles to armoring pools downstream of whitewater structures - loader, trucking, excavator equipment time & riprap material cost excluded (in-kind) - measured in cubic yards installed
- Riprap mixed with native river cobbles for channel stabilization downstream of Feature #3 - loader, trucking, excavator equipment time & riprap material cost excluded (in-kind) - measured in cubic yards installed
- Optimization of whitewater wave Feature #3 by minor modifications post construction - adding boulders, excavations, others as a lump sum

Deliverable

Replacement of Feature 3 and repair of Feature 2 in Gunnison Whitewater Park resulting in a completed project.

TASK 5 – Tuning Phase

Description of Task

Professional services during construction including construction administration (pay requests, request for information, submittal review, progress meetings), field inspection, tuning phase (performance evaluations, tuning recommendation, field inspections) and project closeout documentation

Method/Procedure

McLaughlin Whitewater Group will provide above stated services

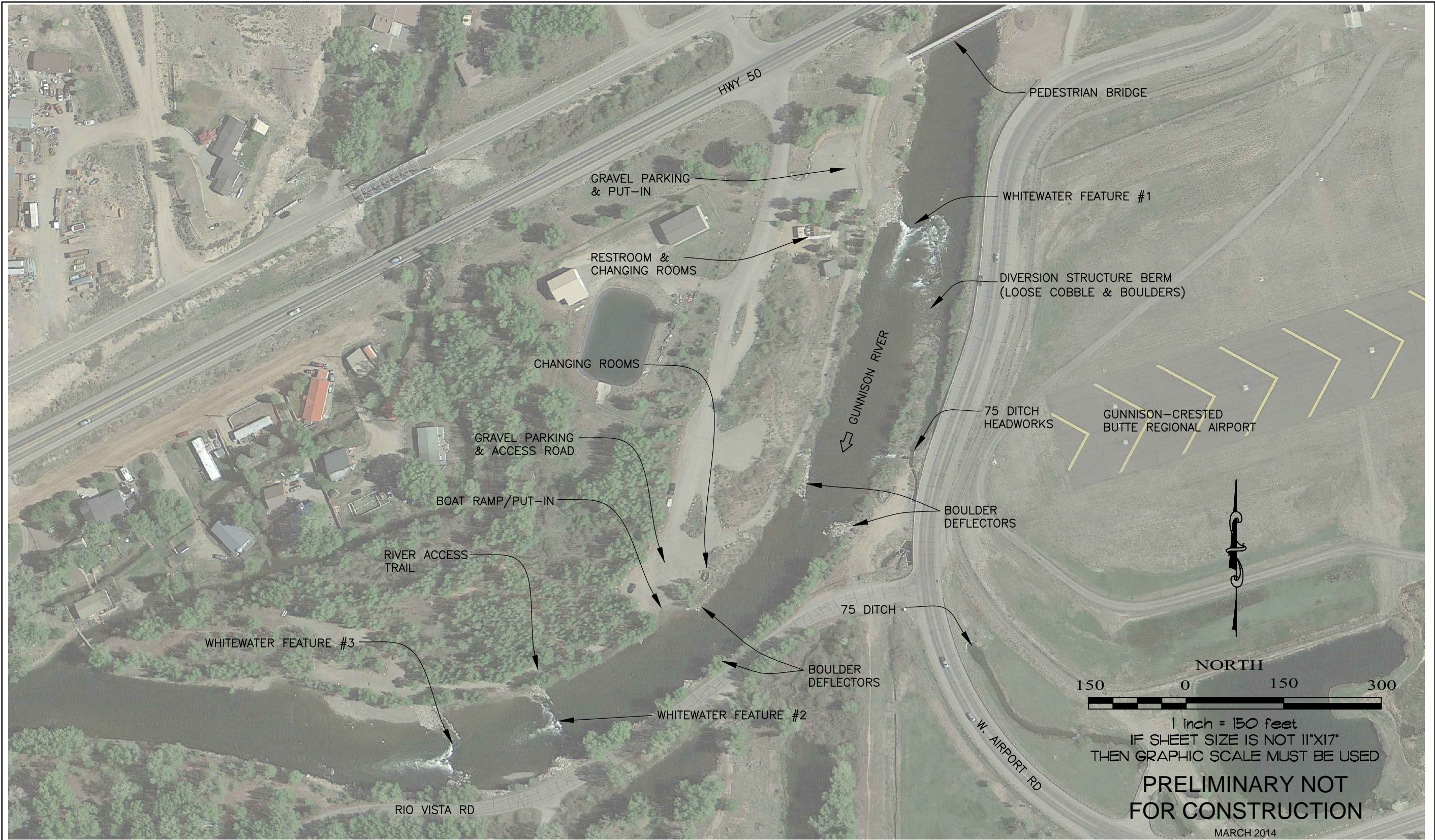
Deliverable

Construction administration, field inspections, and final project closeout documentation

Gunnison Whitewater Park Repairs Timeline

Task	Start Date	Finish Date
1	November 2014	December 2014
2	November 2014	April 2015
3	November 2014	April 2015
4	August 2015	November 2015
5	August 2015	June 2016

Budget	Gunnison Whitewater Park Repairs	non-WSRA contributions		WSRA Funds	Total
Task	Description	In-kind	Cash		
Task 1	Engineering	\$0	\$40,000	\$10,000	\$50,000
Task 2	Survey	\$0	\$10,000	\$0	\$10,000
Task 3	Permitting	\$0	\$4,000	\$0	\$4,000
Task 4	Construction	\$90,200	\$305,935	\$0	\$396,135
Task 5	Tuning Phase	\$0	\$21,125	\$0	\$21,125
	Totals	\$90,200	\$381,060	\$10,000	\$481,260



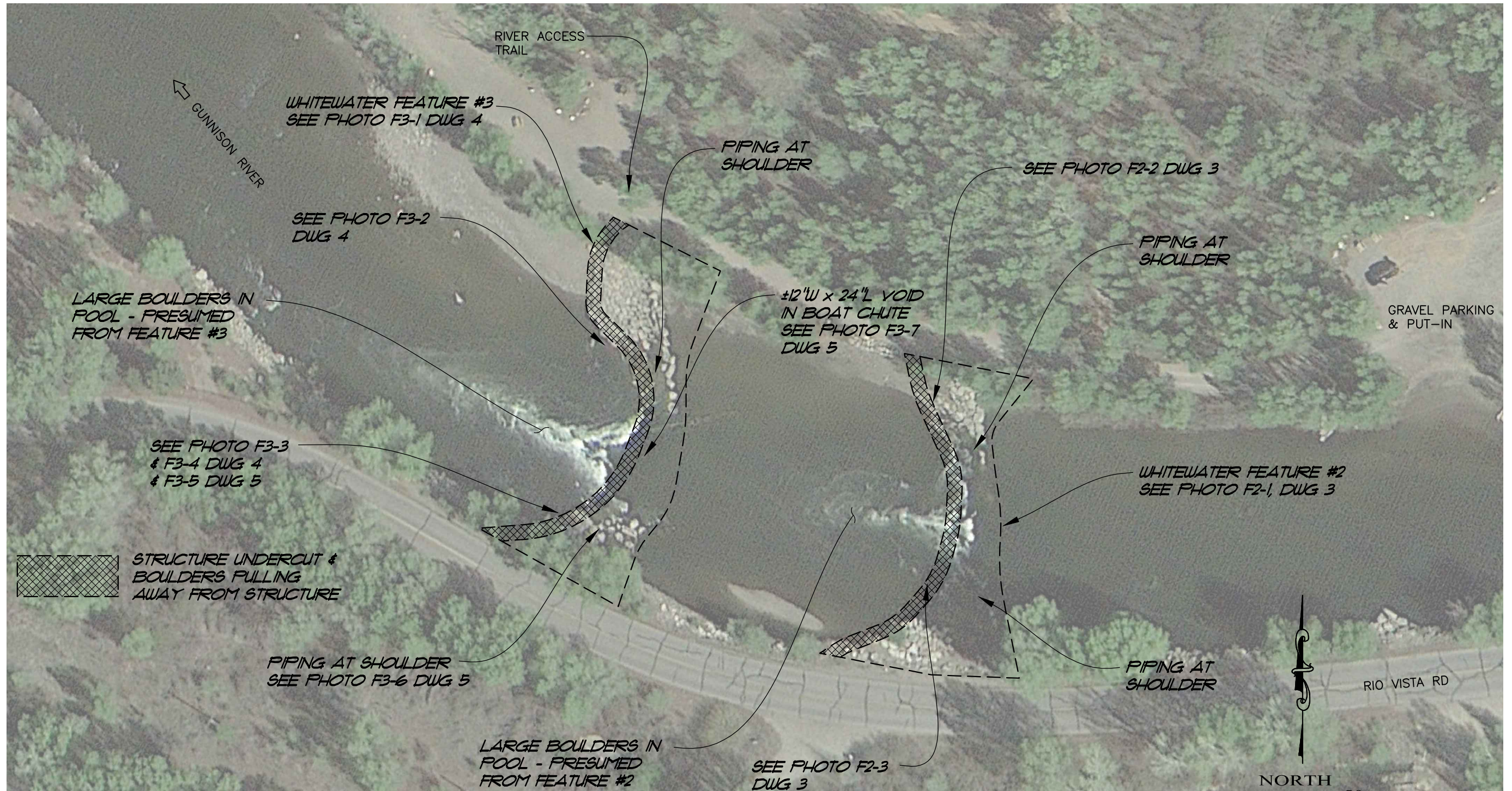
GUNNISON WHITEWATER PARK
 GUNNISON COLORADO

OVERALL EXISTING SITE EXHIBIT



McLaughlin Whitewater
 design group
 A DIVISION OF MERRICK & COMPANY

2420 Alcott St
 Denver, CO 80211
 T303.964.3333
 F303.964.3355



PRELIMINARY NOT
FOR CONSTRUCTION

MARCH 2014

50 0 50 100
NORTH
1 inch = 50 feet
IF SHEET SIZE IS NOT 11"X17"
THEN GRAPHIC SCALE MUST BE USED

GUNNISON WHITEWATER PARK
GUNNISON COLORADO

WHITEWATER FEATURE #2 & #3
EVALUATION EXHIBIT



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2



WHITEWATER FEATURE #2
PHOTO F2-1
 NO SCALE



BOULDERS SEPARATED FROM STRUCTURE - RIVER RIGHT SHOULDER
PHOTO F2-2
 NO SCALE



BOULDERS SEPARATED FROM STRUCTURE - RIVER LEFT SHOULDER
PHOTO F2-3
 NO SCALE

PRELIMINARY NOT
 FOR CONSTRUCTION
 MARCH 2014

GUNNISON WHITEWATER PARK
 GUNNISON COLORADO

WHITEWATER FEATURE #2
 SITE PHOTOS

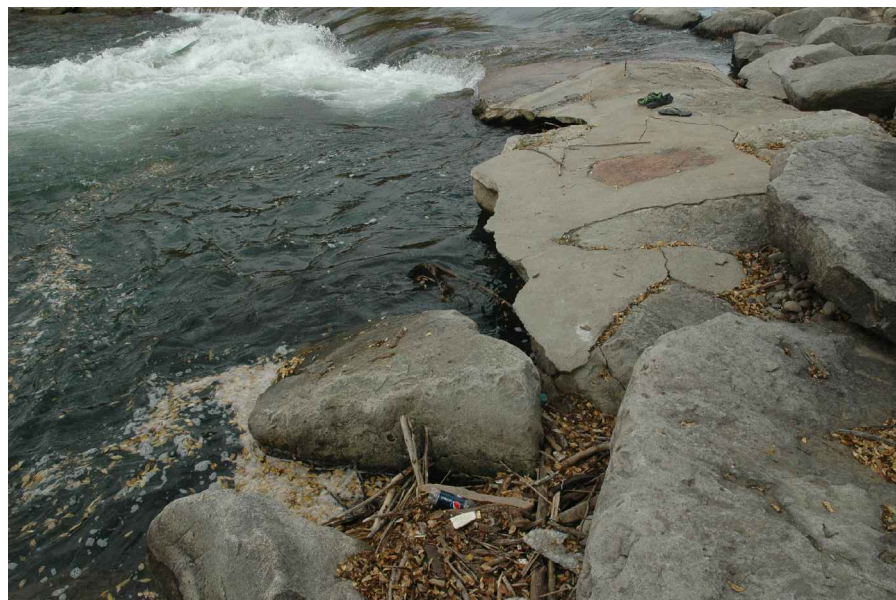
McLaughlin Whitewater
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WHITEWATER FEATURE #3

PHOTO F3-1

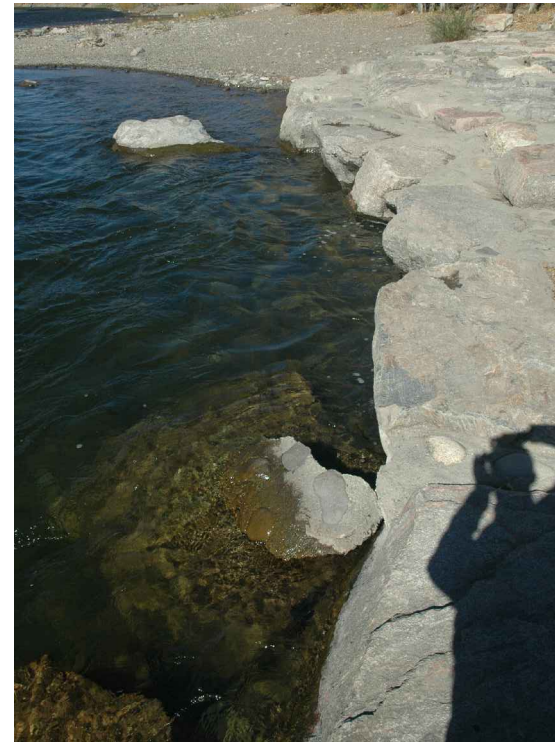
NO SCALE



BOULDERS SEPARATED FROM STRUCTURE &
UNDERCUTTING - RIVER LEFT SHOULDER

PHOTO F3-3

NO SCALE



BOULDERS SEPARATED FROM STRUCTURE - RIVER RIGHT SHOULDER

PHOTO F3-2

NO SCALE



BOULDERS SEPARATED FROM STRUCTURE &
UNDERCUTTING - RIVER LEFT SHOULDER

PHOTO F3-4

NO SCALE

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GUNNISON WHITEWATER PARK
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WHITEWATER FEATURE #3
SITE PHOTOS



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BOULDERS SEPARATED FROM STRUCTURE &
UNDERCUTTING - RIVER LEFT SHOULDER

PHOTO F3-5

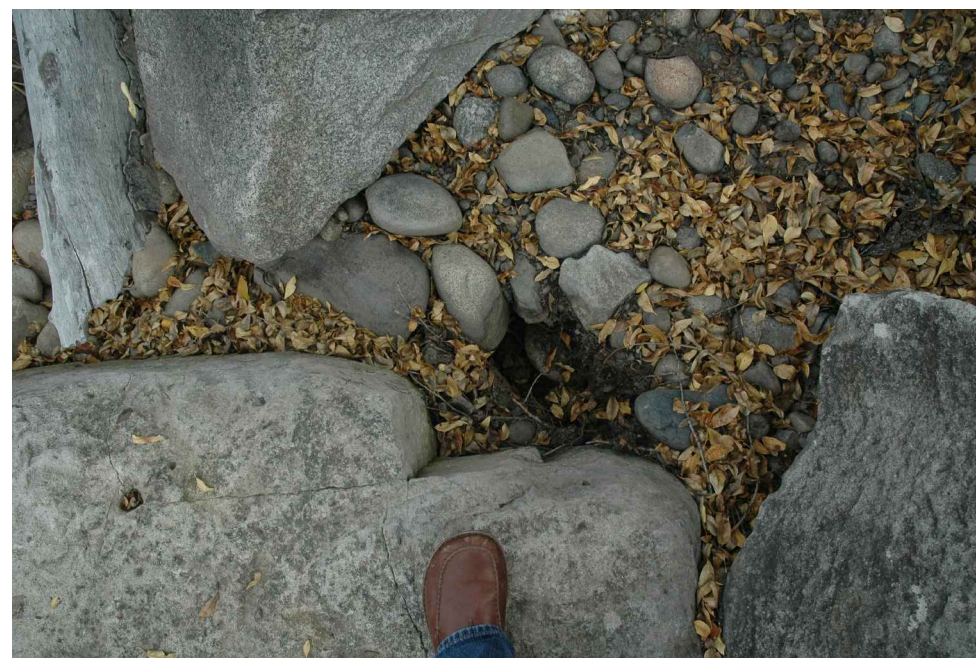
NO SCALE



VOID IN GROUTED BOULDERS - BOAT CHUTE

PHOTO F3-7

NO SCALE



"SINK HOLE" - RIVER LEFT SHOULDER

PHOTO F3-6

NO SCALE

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MARCH 2014

GUNNISON WHITEWATER PARK
GUNNISON COLORADO

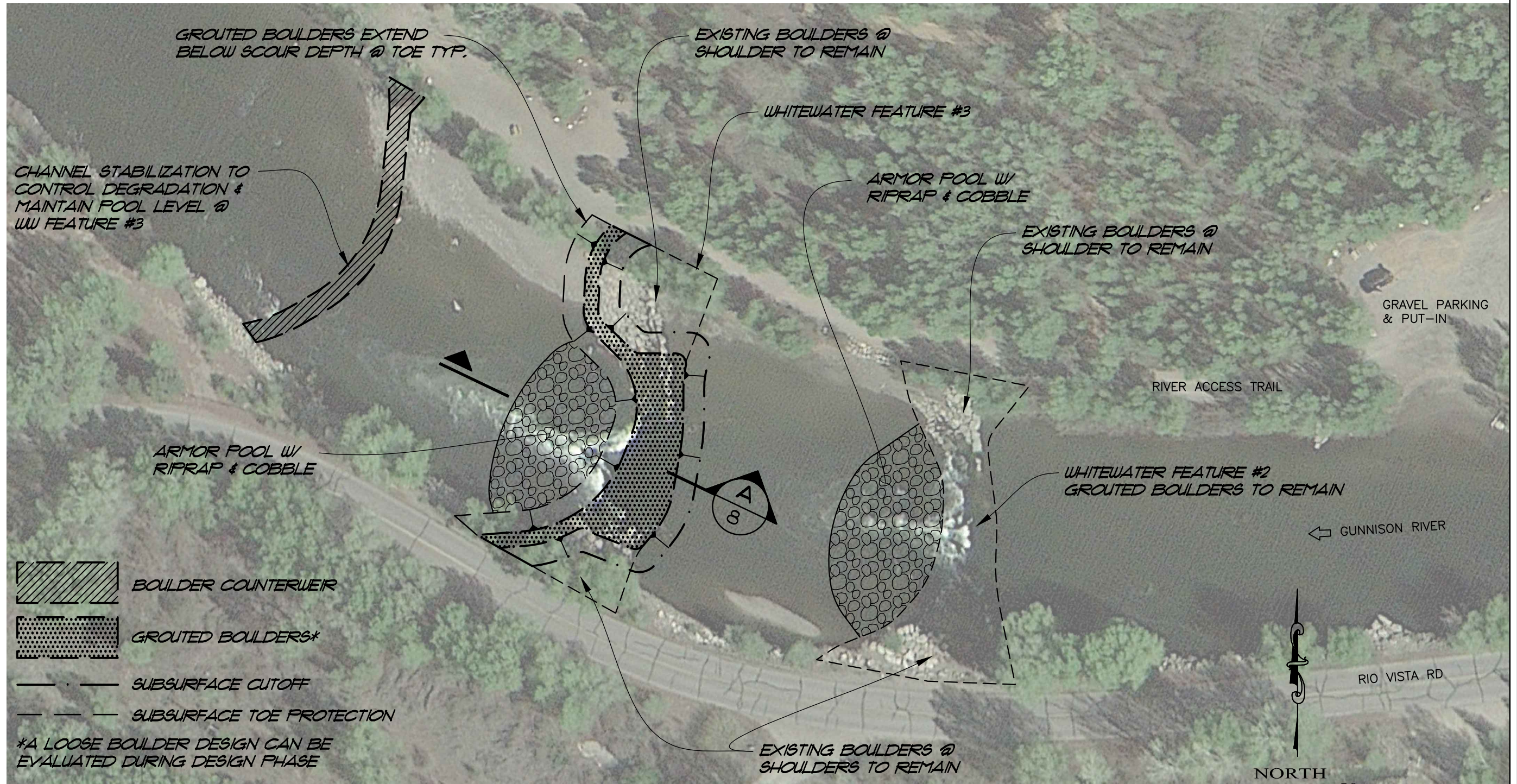
WHITEWATER FEATURE #3
SITE PHOTOS



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5



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MARCH 2014

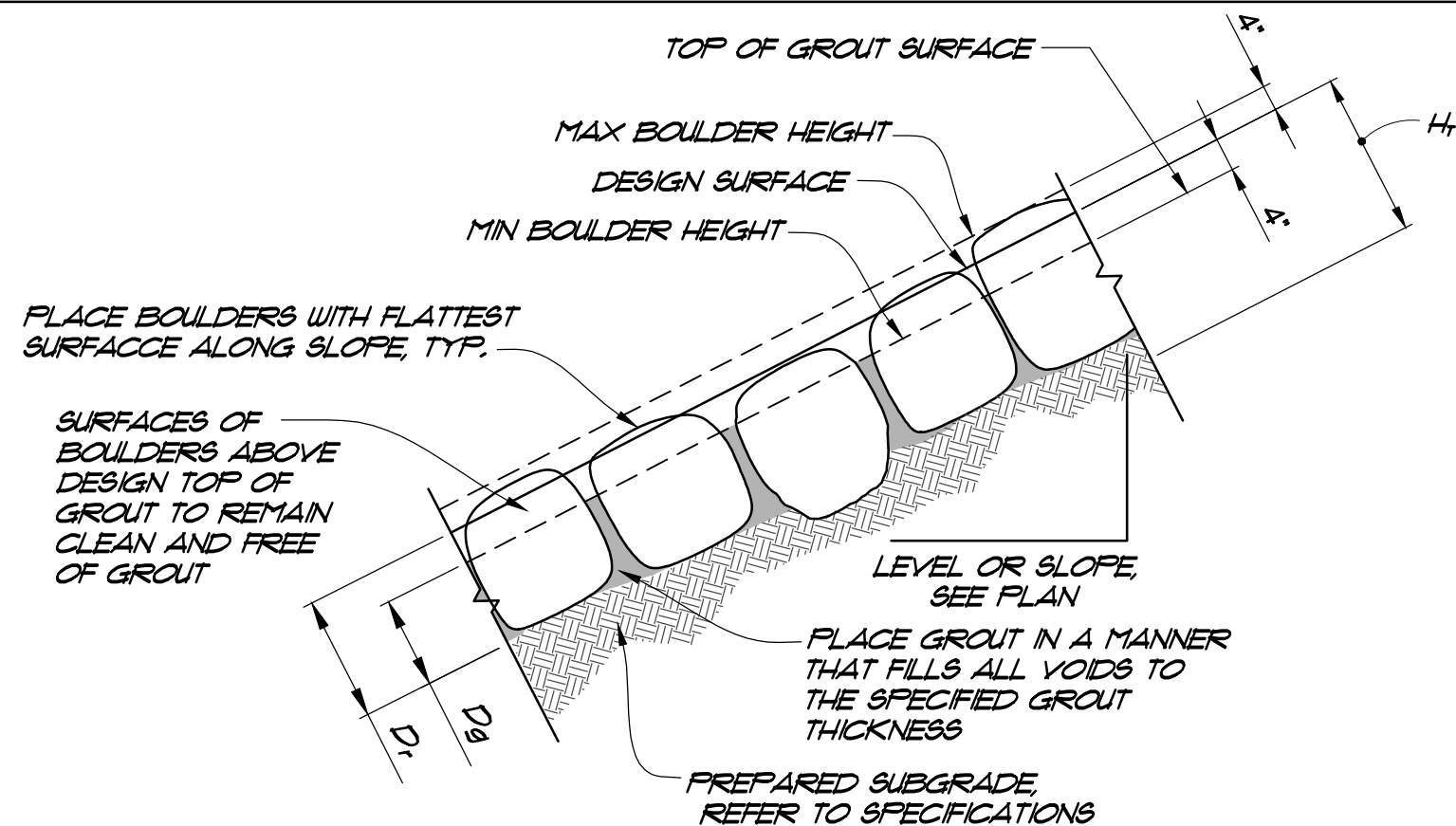
NOTE: PROPOSED IMPROVEMENTS SHOWN ARE PRELIMINARY.
SIZES, MATERIAL TYPES, CONSTRUCTION DETAILS AND LAYOUT TO
BE DETERMINED DURING FINAL DESIGN PHASE.

GUNNISON WHITEWATER PARK
GUNNISON COLORADO

WHITEWATER FEATURE #2 & #3 REPAIR
SITE PLAN

McLaughlin Whitewater
design group
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6



SINGLE-LAYER GROUTED BOULDER TABLE					
USED THIS PROJECT	SURFACE BOULDER Designation	D_r MIN	D_g	H_r	
				MIN	MAX
	B18	18	12		
	B24	24	16		
X	B30	30	18	30	38
	B36	36	24		
	B42	42	30		
	B48	48	36		
ALL DIMENSIONS IN INCHES					

TYPICAL SINGLE LAYER GROUTED BOULDER PLACEMENT
WITH RECESSED GROUT

PRELIMINARY NOT
FOR CONSTRUCTION

MARCH 2014

DETAIL 1
6
NTS

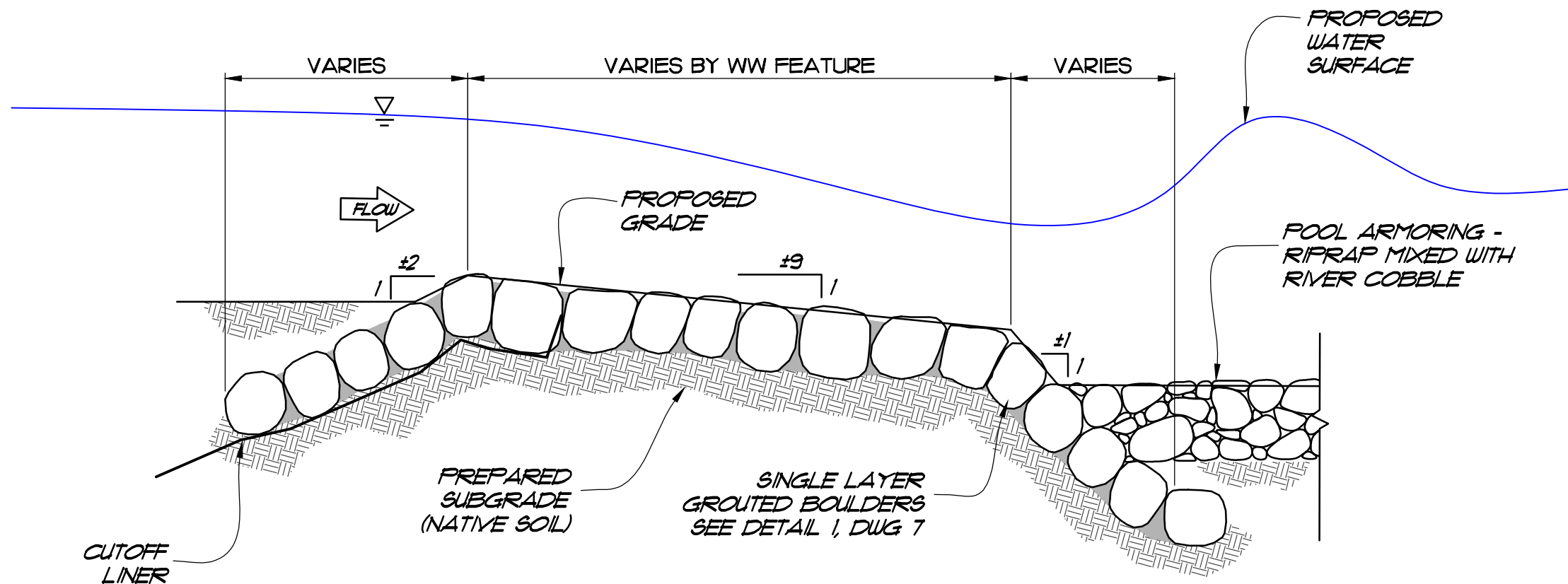
GUNNISON WHITEWATER PARK
GUNNISON COLORADO

WHITEWATER FEATURES
BOULDER DETAIL



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TYPICAL WHITEWATER STRUCTURE
SECTION A
NTS

PRELIMINARY NOT
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MARCH 2014

GUNNISON WHITEWATER PARK
GUNNISON COLORADO

WHITEWATER FEATURE
DETAIL

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