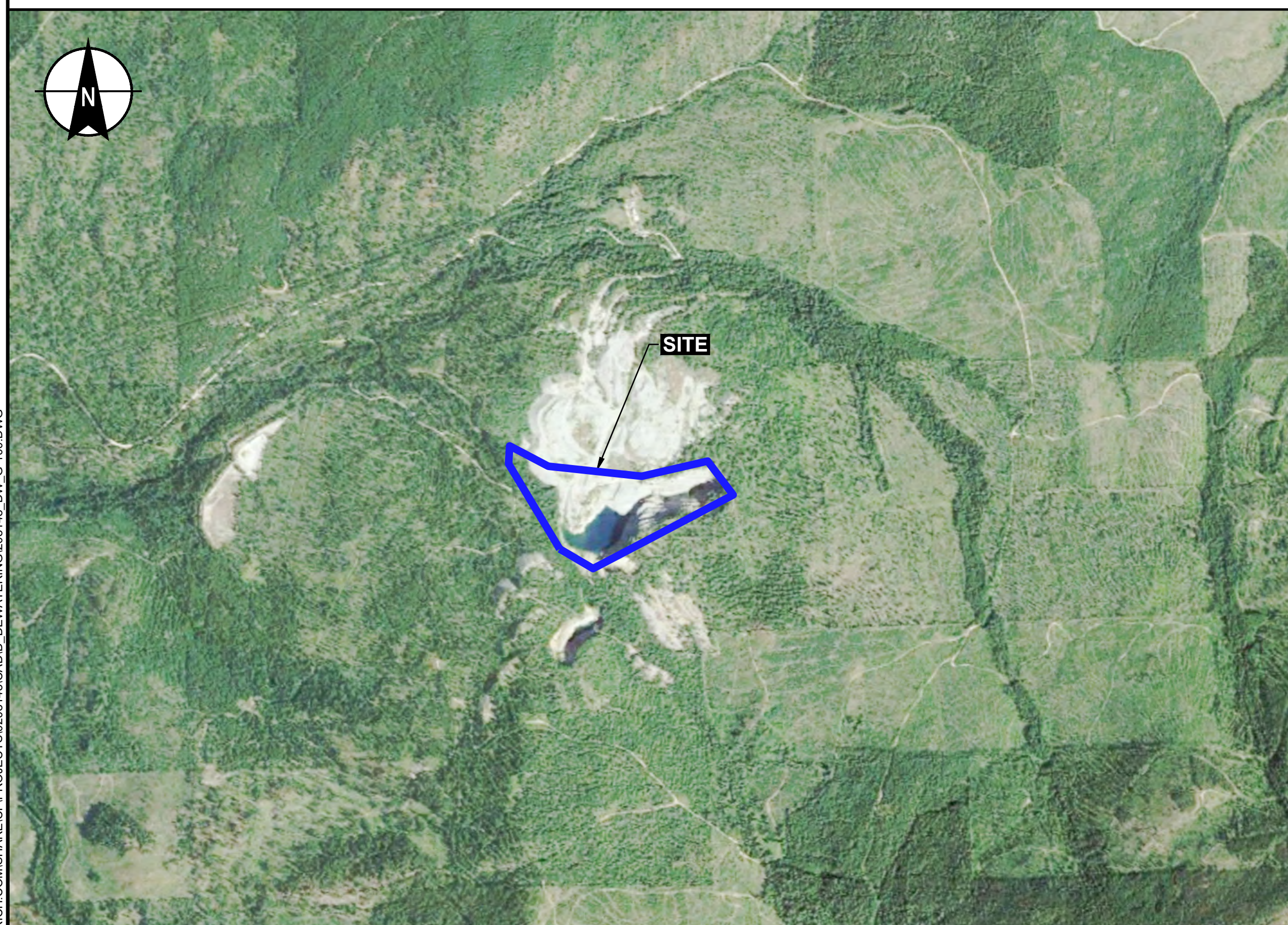




**SITE LOCUS**  
 TOPO SOURCE: USGS TOPOGRAPHIC MAPS - COLVILLE, WA (1984)

0 4000 8000  
 SCALE IN FEET



**SITE AERIAL**  
 MAP SOURCE: GOOGLE EARTH PRO, DATED AUGUST 20, 2016

0 1000 2000  
 SCALE IN FEET

# VAN STONE MINE PIT LAKE DEWATERING

20 MILES NORTH OF COLVILLE  
 STEVENS COUNTY, WASHINGTON

CLIENT REVIEW DRAFT  
 JUNE 2025

**HALEY  
 ALDRICH**

HALEY & ALDRICH, INC.  
 505 West Riverside Avenue,  
 Suite 450  
 Spokane, WA 99201  
 Tel: 509.960.7447  
 www.haleyaldrich.com

**DRAFT**

**NOT FOR  
 CONSTRUCTION**

Project No.: 028148-000  
 Scale: SHOWN  
 Date: JUNE 2025  
 Drawn By: KV  
 Designed By: BMG  
 Checked By: KB  
 Approved By: XX  
 Stamp:

### DRAWING INDEX

SHEET NO.	SHEET TITLE	SHEET DESCRIPTION
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02	G-101	GENERAL NOTES & LEGEND
03	C-100	SITE PLAN
04	C-200	DEWATERING PLAN & PROFILE
05	D-100	DEWATERING DETAILS

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TITLE SHEET

**G-100**

Sheet: 01 of 05

**GENERAL**

1. THE TERM "ECOLOGY" REFERS TO WASHINGTON STATE DEPARTMENT OF ECOLOGY (ECOLOGY) OR ITS AUTHORIZED REPRESENTATIVE WITH THE AUTHORITY TO ENTER INTO, ADMINISTER, AND/OR TERMINATE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS..
2. THE TERM "ENGINEER" REFERS TO HALEY & ALDRICH, INC.
3. THE TERM "CONTRACTOR" REFERS TO ENTITIES CONTRACTED BY ECOLOGY TO COMPLETE THE WORK.
4. THE TERM "WORK" REFERS TO ALL CONSTRUCTION RELATED ACTIVITIES PERFORMED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
5. THE TERM "CONTRACT DOCUMENTS" REFERS TO DRAWINGS, SPECIFICATIONS, CONTRACT TERMS, AND OTHER DOCUMENTS CREATED FOR THE EXPRESSED PURPOSE OF COMPLETING THE WORK.
6. MEANS AND METHODS OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE SUFFICIENT TO ACHIEVE THE PERFORMANCE OBJECTIVES OF THE PROJECT AS DESCRIBED IN THE CONTRACT DOCUMENTS.
7. DETAILS TAKE PRECEDENCE OVER GENERAL DRAWINGS. WHERE NOTES CONFLICT WITH ANY DRAWING, THE MOST RESTRICTIVE SHALL APPLY. WHERE CONFLICTS EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING. NO CHANGES OR ADDITIONS TO THE SCOPE OF WORK DEPICTED HEREIN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER

**SURVEY NOTES**

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. FEET.
2. VERTICAL DATUM: NAVD88
3. EXISTING TOPOGRAPHY AND AERIAL IMAGERY WAS BUILT FROM "VAN STONE MINE DAM REMOVAL.gdb" ASSOCIATED WITH A JULY 2024 LIDAR SURVEY PERFORMED BY HALEY & ALDRICH, INC.
4. CONTRACTOR RESPONSIBLE FOR CONFIRMING LOCATIONS OF ALL UTILITIES AND EXISTING SITE CONDITIONS PRIOR TO THE START OF EXCAVATION (SEE CONTRACT DOCUMENTS)

**WORKING HOURS**

1. CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED BETWEEN 7:00 AM AND 5:00 PM MONDAY THROUGH FRIDAY UNLESS OTHERWISE APPROVED BY THE ENGINEER AND/OR ECOLOGY. NIGHT OR WEEKEND WORK MAY BE APPROVED BY ECOLOGY UPON REQUEST. IF NIGHT-TIME WORK IS APPROVED, THE CONTRACTOR SHALL PROVIDE ADEQUATE LIGHTING FOR SAFETY.
2. DEWATERING ACTIVITIES ARE ANTICIPATED TO BE ON A 24-HOUR, 7-DAY/WEEK SCHEDULE.

**ENVIRONMENTAL CONTROLS**

1. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS TO MINIMIZE DUST, NOISE, STORMWATER IMPACTS, AND OTHER NUISANCE ACTIVITIES.
2. CONTRACTOR SHALL ESTABLISH, MAINTAIN, INSPECT AND REPAIR ALL STORMWATER AND EROSION AND SEDIMENTATION CONTROLS (BMPs) AS NEEDED TO CONTROL SEDIMENT AND RUNOFF FROM DISTURBED PROJECT AREAS, AND/OR REQUIRED BY THE SWPPP.
3. CONTRACTOR SHALL MONITOR THE EFFECTIVENESS OF ENVIRONMENTAL CONTROLS AND SUPPLEMENT OR MODIFY THEM AS NEEDED BASED ON SITE OPERATIONS TO MAINTAIN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
4. ALL WATER DISCHARGE WILL BE CONDUCTED IN ACCORDANCE WITH THE SUBSTANTIVE REQUIREMENTS OF APPLICABLE PERMITS AND CONTRACT DOCUMENTS. THIS INCLUDES MINIMIZING TURBIDITY TO THE EXTENT PRACTICABLE.
5. DEWATERING MAY OCCUR THROUGH A TEE DIFFUSER OR THROUGH DEWATERING BAGS AS NEEDED TO MINIMIZE TURBIDITY. SWITCHING BETWEEN TEE DIFFUSER AND DEWATERING BAG TO MAINTAIN WATER QUALITY MAY BE NECESSARY.
6. CONTRACTOR SHALL PROVIDE DUST CONTROL.
7. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL MATERIALS DESIGNATED FOR REMOVAL FROM THE PROJECT SITE.
8. CONTRACTOR SHOULD BE AWARE OF ALL RESTRICTIONS WITH RESPECT TO WILDLIFE SUCH AS BIRD NESTING SEASON AND ARRANGE FOR SURVEYS AS NEEDED.

**HEALTH AND SAFETY**

1. CONTRACTOR SHALL PREPARE A SITE SPECIFIC HEALTH AND SAFETY PLAN (HASP) TO BE APPROVED BY ECOLOGY.
2. THE CONTRACTOR SHALL PERFORM THE WORK IN SUCH A MANNER THAT THE SAFETY OF THE WORKERS IS ASSURED. THIS SHALL INCLUDE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AS APPLICABLE.
3. CONTRACTOR SHALL COMPLY AT ALL TIMES WITH THE SITE-SPECIFIC HEALTH AND SAFETY REQUIREMENTS NOTED IN CONTRACTOR'S HASP, AND WITH ECOLOGY'S SAFETY RULES.
4. DAILY SAFETY MEETINGS SHALL BE CONDUCTED AND ATTENDED BY ALL ONSITE CONTRACTOR PERSONNEL.
5. THE CONTRACTOR IS TO MAINTAIN SAFE DISTANCE REQUIREMENTS FOR ALL THE ABOVE-GROUND POWER DISTRIBUTION AND TRANSMISSION WIRES AND STRUCTURES.
6. PLACE ALL SAFETY DEVICES, CONSTRUCTION ROAD SIGNING, AND CONSTRUCTION SIGNING PRIOR TO ANY SITE MOBILIZATION, CONSTRUCTION AND EXCAVATION. PROPERLY SECURE WORK AREAS AT THE END OF EACH WORKDAY.

**COMPLIANCE AND STANDARDS**

1. CONTRACTOR SHALL COORDINATE WITH ECOLOGY'S OPERATIONS STAFF AND OBTAIN ANY/ALL NECESSARY CONSTRUCTION PERMITS AND SCHEDULE ANY REQUIRED INSPECTIONS. THE CONTRACTOR SHALL MAINTAIN COPIES OF ANY PERMITS AT THE JOB SITE FOR AGENCY INSPECTION AND PROVIDE A COPY TO THE ENGINEER AND/OR COA MONITOR PRIOR TO BEGINNING WORK.
2. WORK SHALL COMPLY WITH ALL NATIONAL, STATE, AND LOCAL LAWS, REGULATIONS, AND CODES.
3. WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (2024) ARE INCORPORATED BY REFERENCE WHERE INDICATED IN PROJECT DOCUMENTS.

**UTILITIES AND EXISTING INFRASTRUCTURE**

1. CONTRACTOR SHALL LOCATE ALL UTILITIES AND PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY UTILITIES DAMAGED BY THE OPERATOR AND PROVIDE FOR SERVICE CONTINUATIONS DURING REPAIRS AT NO EXPENSE TO ECOLOGY.
2. TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO ADJACENT AND NEARBY STRUCTURES, ACCESS ROADS, FENCES, AND EMBANKMENTS. ALL DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO ECOLOGY.
3. CONTRACTOR WILL PROVIDE APPROPRIATE WARNING SIGNAGE AT AREAS OF ALL OVERHEAD UTILITIES LINES.

**CONSTRUCTION SEQUENCING**

THE OBJECTIVE OF THE WORK IS TO LOWER PIT LAKE WATER SURFACE ELEVATION IN PREPARATION FOR DAM LOWERING CIVIL WORK. SEQUENCING PROCEDURE MODIFICATIONS AND STOP-START DECISION-MAKING IS AT THE DISCRETION OF THE ENGINEER IN RELATION TO SITE SAFETY MATTERS AND STRUCTURE INTEGRITY CONCERNS. THIS INTERRUPTION POTENTIAL SHOULD BE FACTORED INTO THE CONTRACTOR'S PROJECT PLANNING.

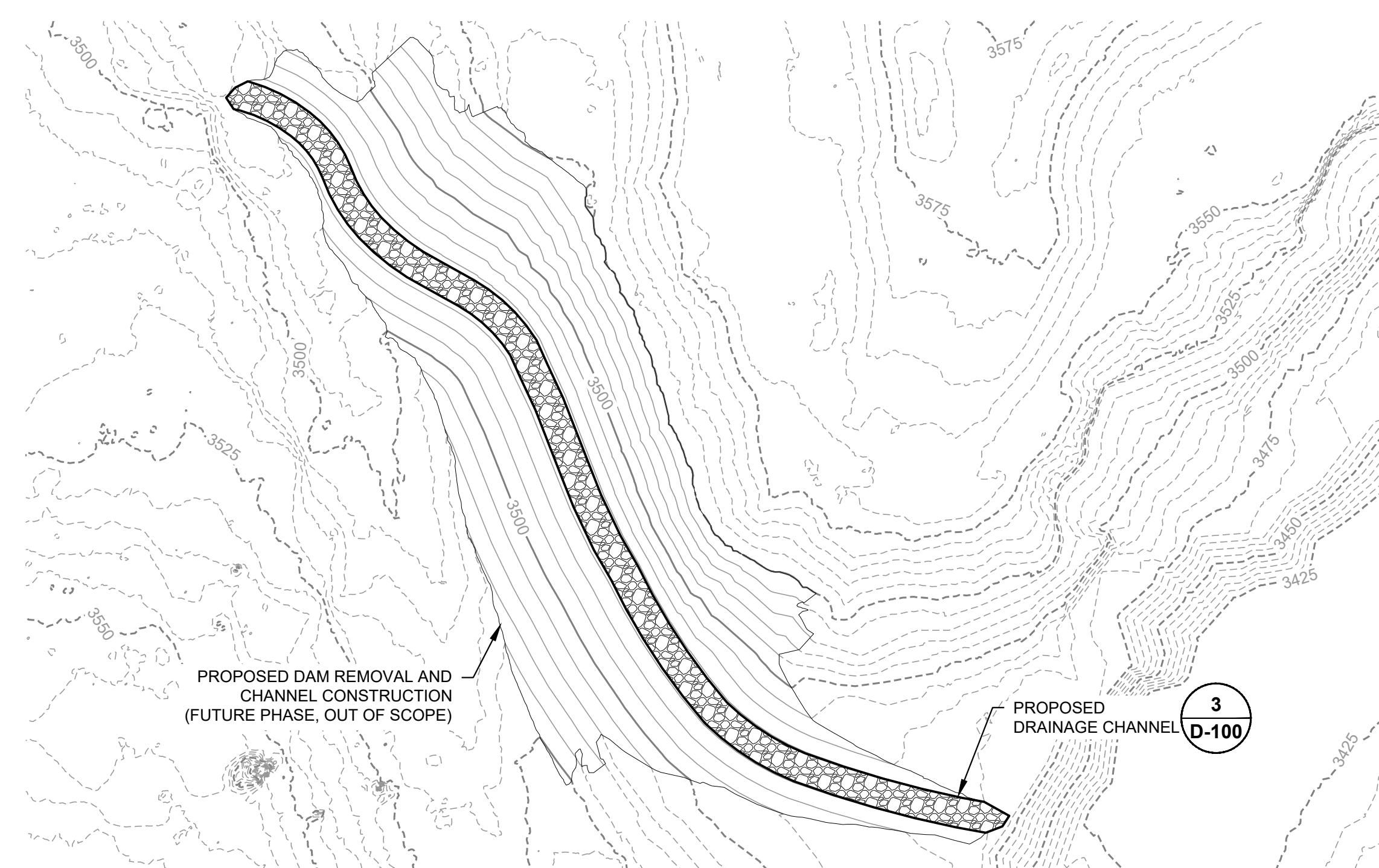
THE CONSTRUCTION WILL BE CONDUCTED AS FOLLOWS, AT THE CONTRACTOR'S DISCRETION:

1. DEWATERING TO OCCUR VIA SIPHON (GRAVITY FLOW) TO THE EXTENT PRACTICABLE.
2. DEWATERING TO OCCUR VIA SUBMERSIBLE PUMPING POWERED VIA MOBILE GENERATOR TO THE EXTENT NECESSARY TO ATTAIN THE CONSTRUCTION WATER SURFACE ELEVATION
3. THE CONSTRUCTION WATER SURFACE ELEVATION IS TO BE ATTAINED AND MAINTAINED THROUGHOUT DAM LOWERING EARTHWORK.
4. ONGOING CONSTRUCTION DEWATERING AND DAM LOWERING EARTHWORK TO BE CONDUCTED IN A FUTURE PHASE AND IS EXCLUDED FROM THE WORK.

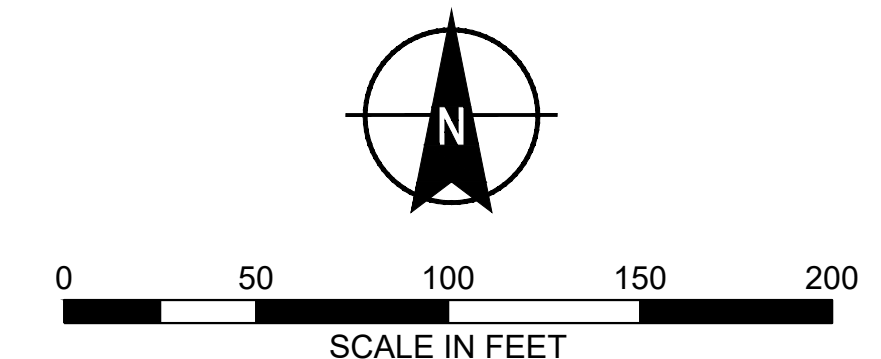
THE DEWATERING SYSTEM IS NOT TO BE LEFT UNSUPERVISED FOR MORE THAN 72 HOURS.

**MASTER LEGEND**

- PROJECT BOUNDARY
- - - - 3525 - - - - EXISTING CONTOUR MAJOR
- - - - 3505 - - - - EXISTING CONTOUR MINOR
- EXISTING WATER BODY
- EXISTING ACCESS ROAD
- - - - PROPOSED DRAINAGE CHANNEL
- DRAINAGE CHANNEL RIPRAP
- PROPOSED TEE
- PROPOSED FLOW METER
- PROPOSED VALVE
- 1-WAY WATER VALVE
- 4-INCH DIAMETER HDPE PIPE



**1** FUTURE DAM REMOVAL AND CHANNEL CONSTRUCTION (NOT IN CONTRACT)  
**G-101** SCALE: AS SHOWN



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Designed By:	BMG
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1	30% SET	H&A	05/08/25

VAN STONE MINE  
 PIT LAKE DEWATERING

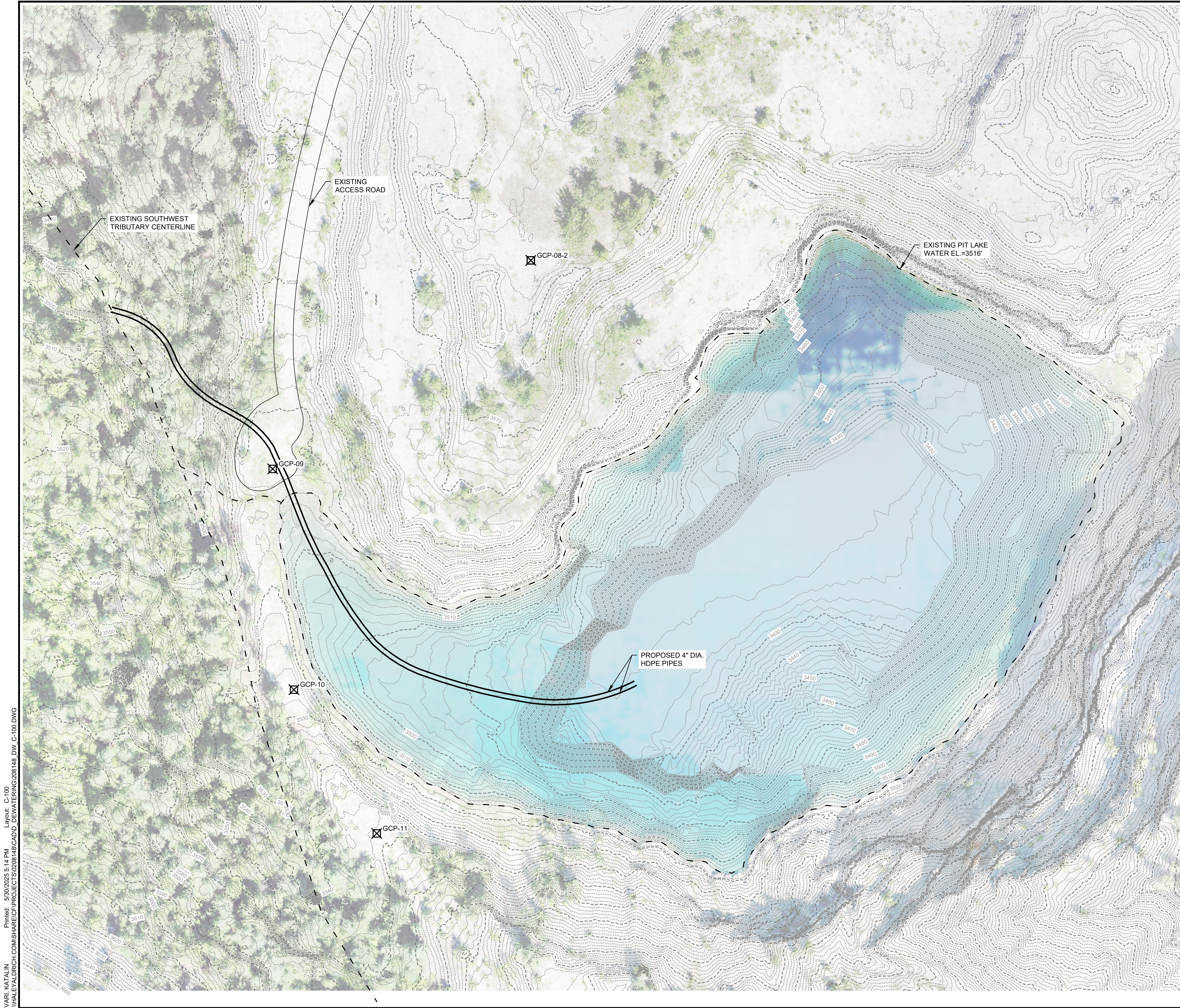
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 COLVILLE  
 STEVENS COUNTY,  
 WASHINGTON

**GENERAL NOTES & LEGEND**

**G-101**

Sheet: 02 of 05

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**LEGEND**

- EXISTING CONTOUR MAJOR
- 3440 EXISTING CONTOUR MINOR
- - - - - EXISTING WATER BODY
- EXISTING ACCESS ROAD
- 4-INCH DIAMETER HDPE PIPE
- ⊗ GCP-08-2 CONTROL POINTS

**NOTES**

1. FOR SURVEY INFORMATION REFERT TO SHEET G-101 .

**CONTROL POINTS TABLE**

DESCRIPTION	NORTHING	EASTING	ELEVATION
GCP-07	657,262.19	2,381,237.37	3,574.91
GCP-08-2	657,013.27	2,381,282.39	3,574.95
GCP-09	656,844.98	2,381,074.08	3,519.40
GCP-10	656,666.85	2,381,091.25	3,527.85
GCP-11	656,550.85	2,381,158.08	3,548.66

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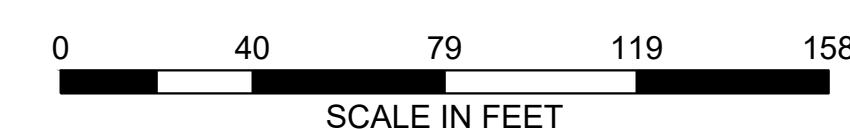
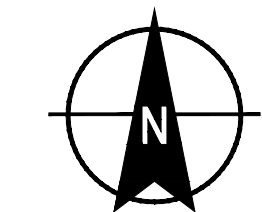
VAN STONE MINE  
PIT LAKE DEWATERING

20 MILES NORTH OF  
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STEVENS COUNTY,  
WASHINGTON

SITE PLAN

**C-100**

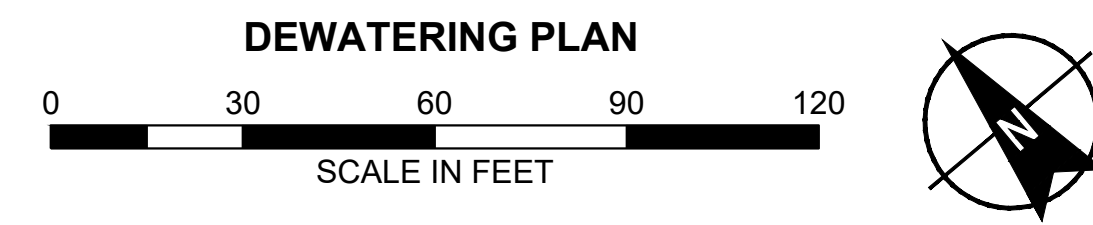
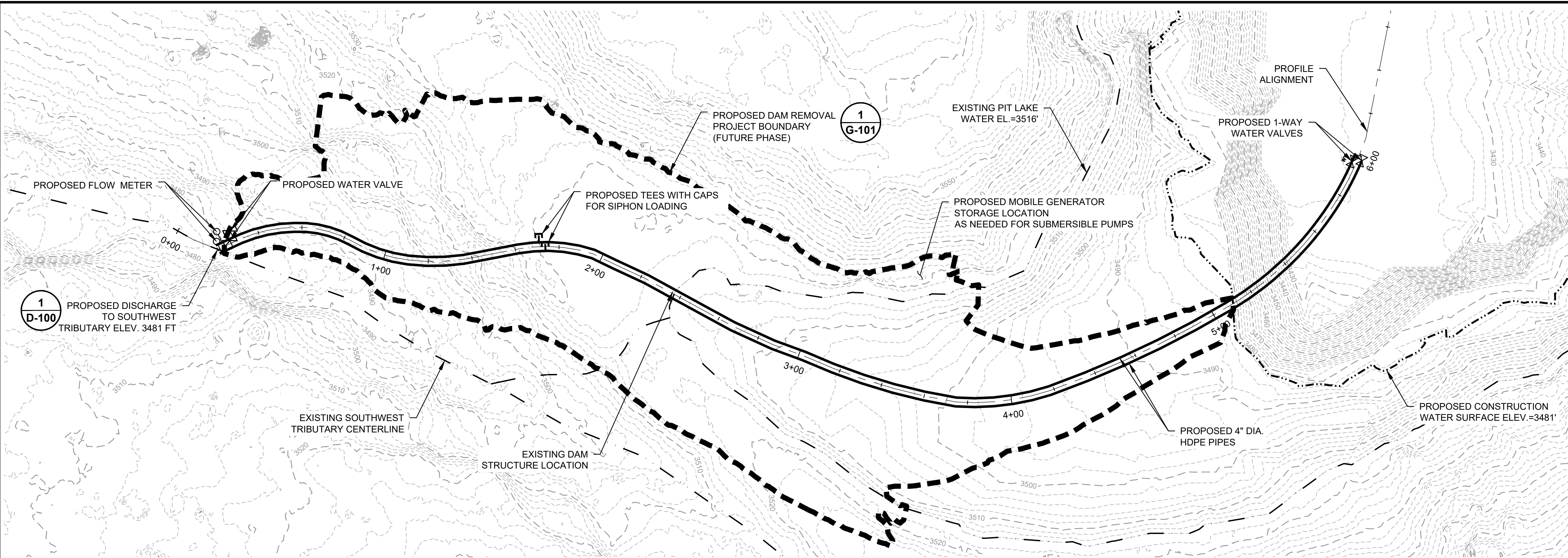
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**LEGEND**

	FUTURE DAM LOWERING PROJECT BOUNDARY
	EXISTING CONTOUR MAJOR
	EXISTING CONTOUR MINOR
	EXISTING WATER BODY
	4-INCH DIAMETER HDPE PIPE
	PROPOSED TEE
	PROPOSED FLOW METER
	PROPOSED VALVE
	1-WAY WATER VALVE
	PROPOSED WATER BODY

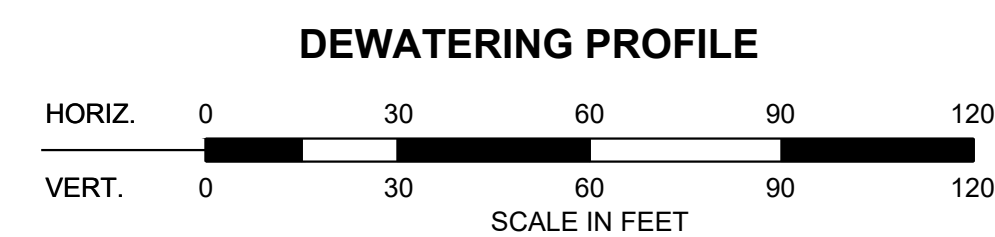
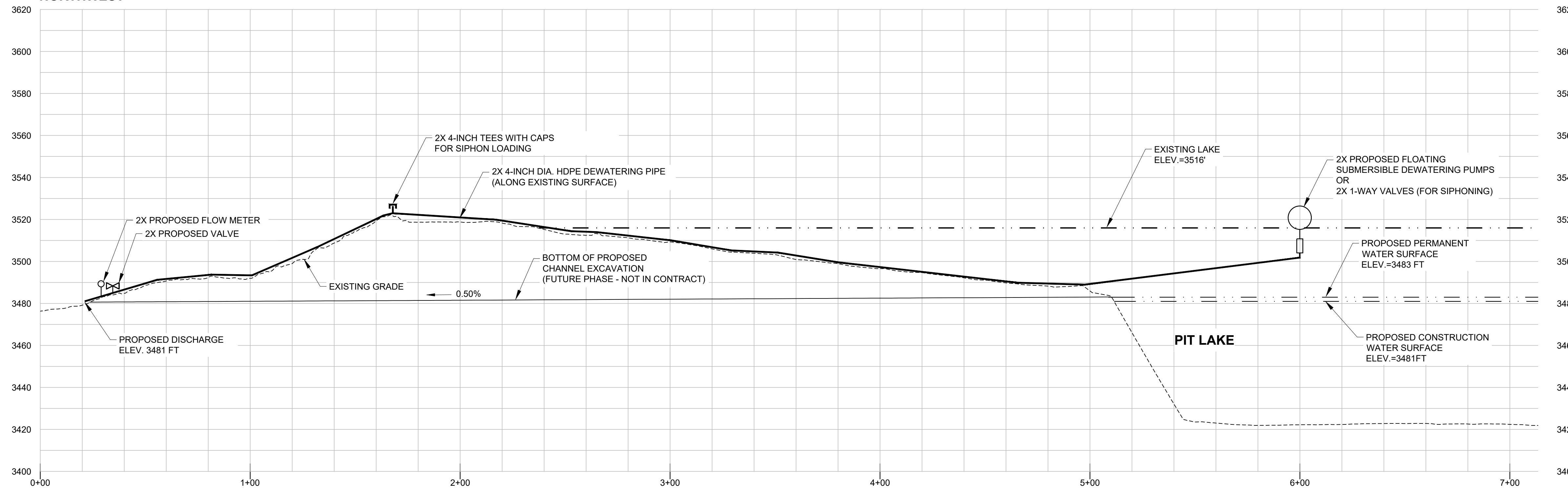


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**NORTHWEST**



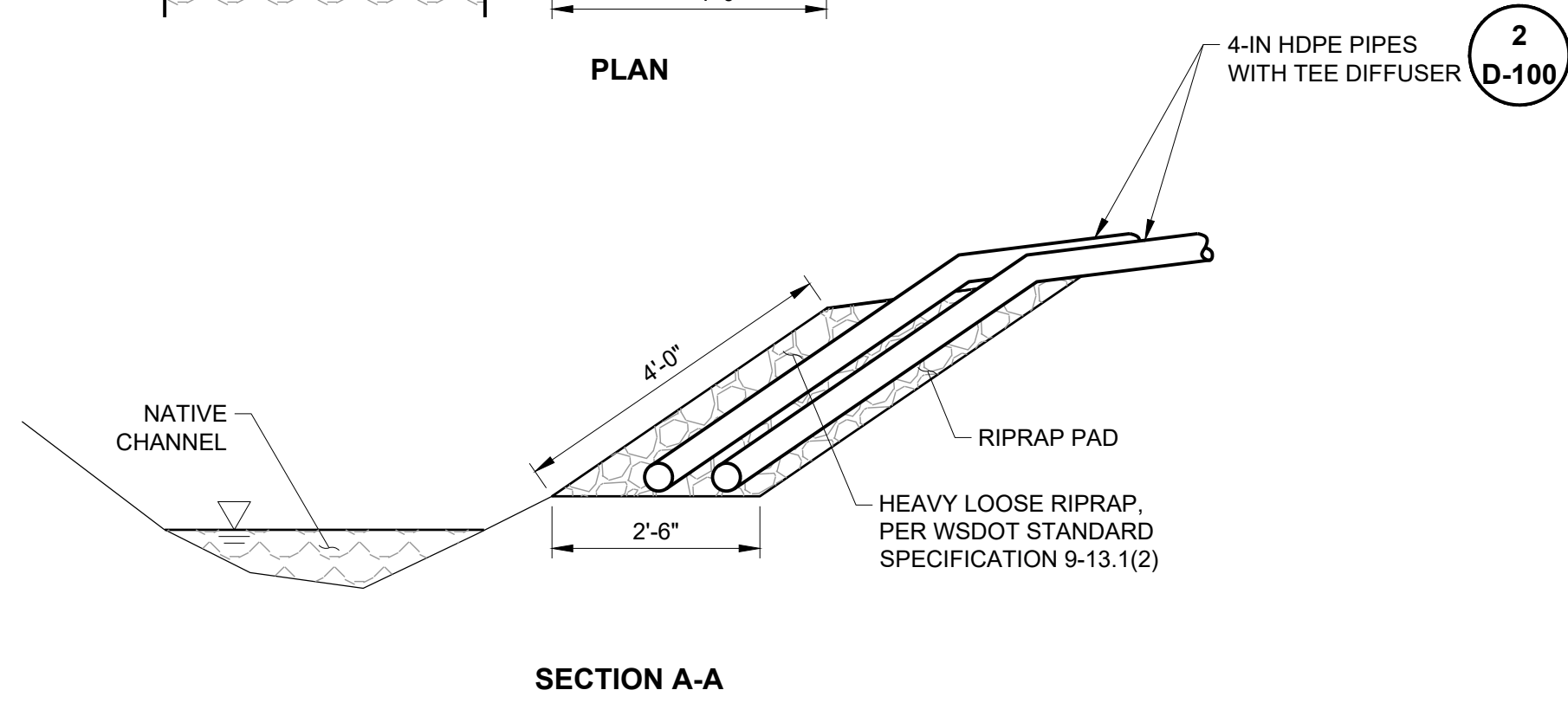
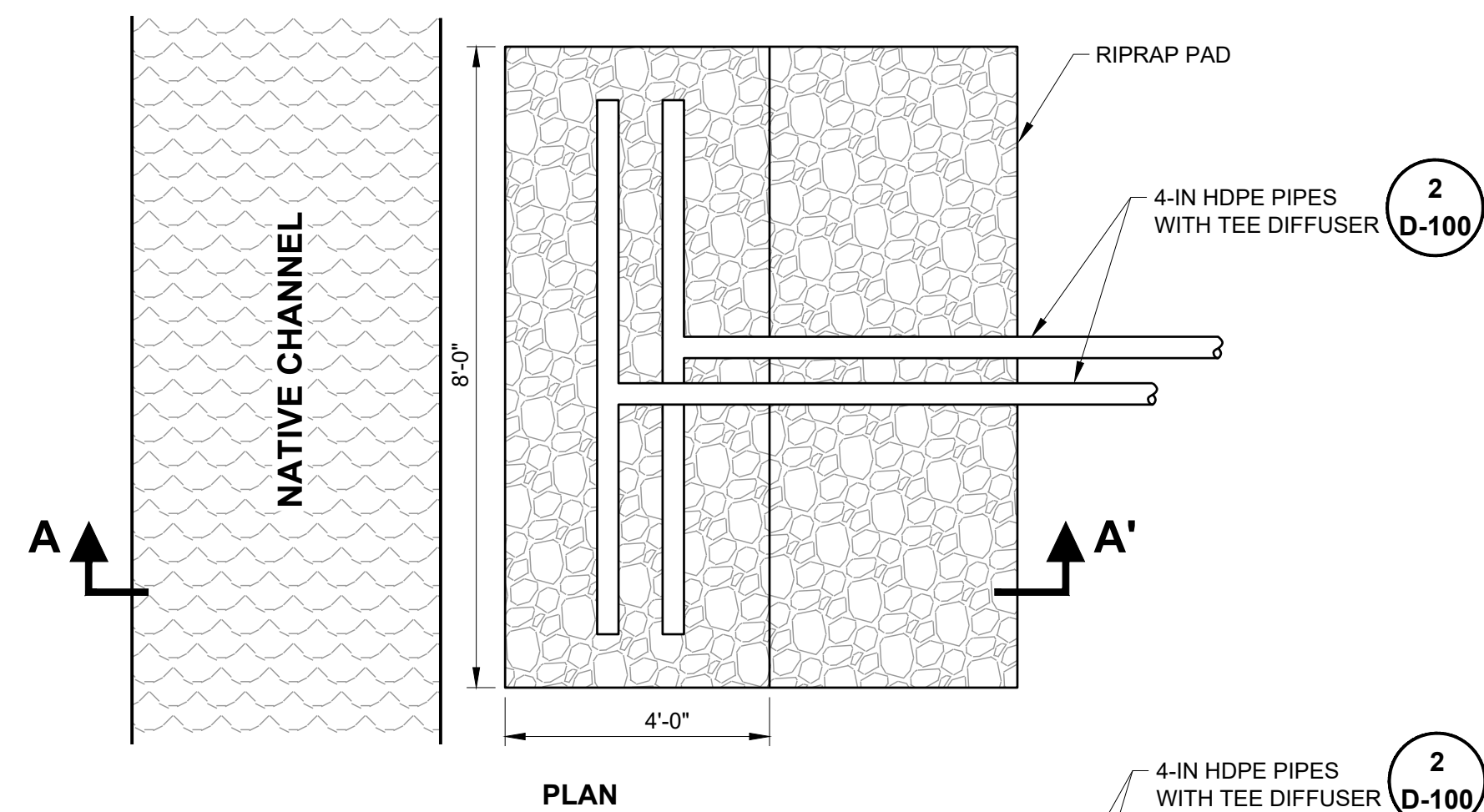
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1	30% SET	H&A	05/08/25
Rev.	Description	By	Date

VAN STONE MINE  
PIT LAKE DEWATERING

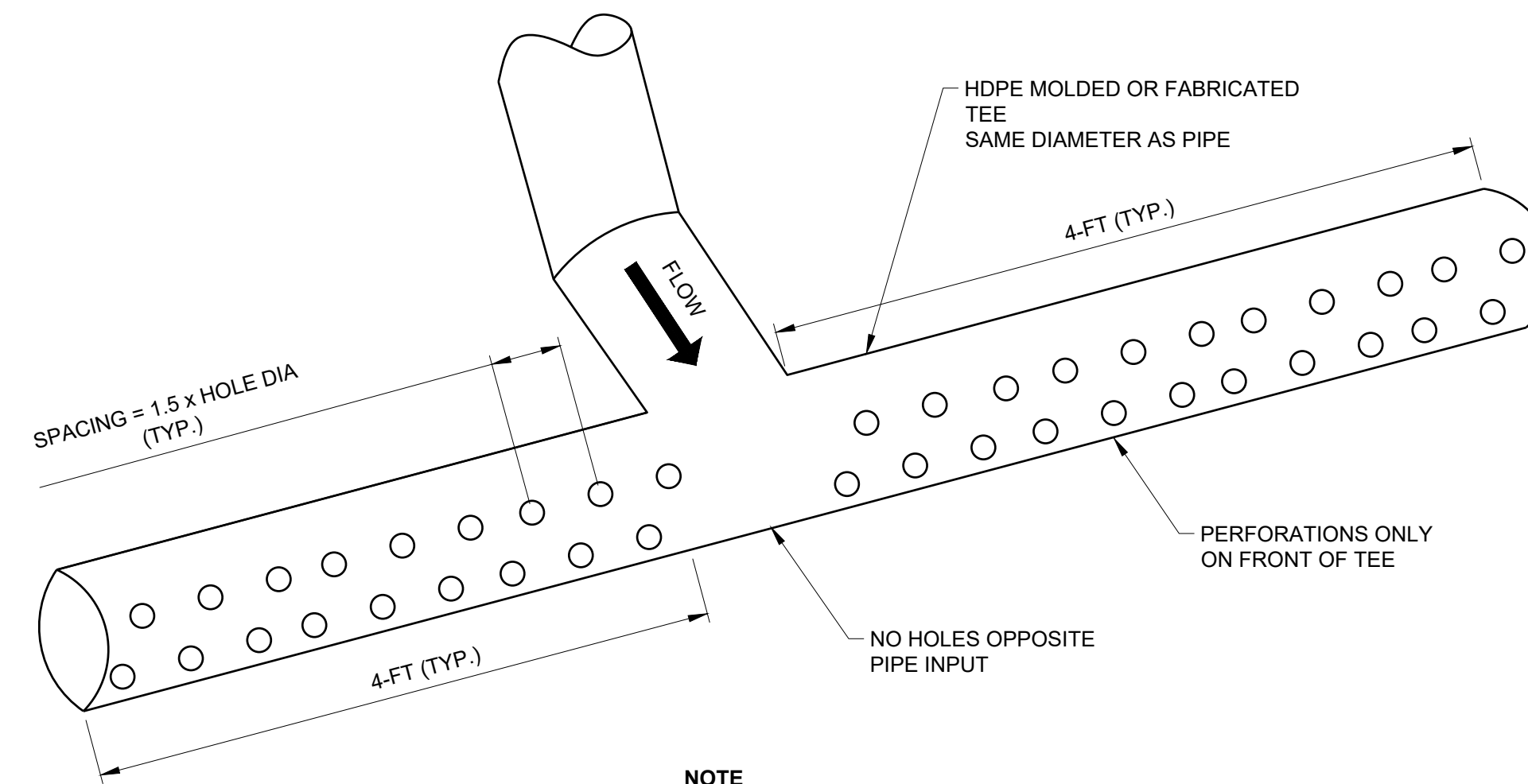
20 MILES NORTH OF  
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WASHINGTON

**DEWATERING PLAN & PROFILE**

**C-200**

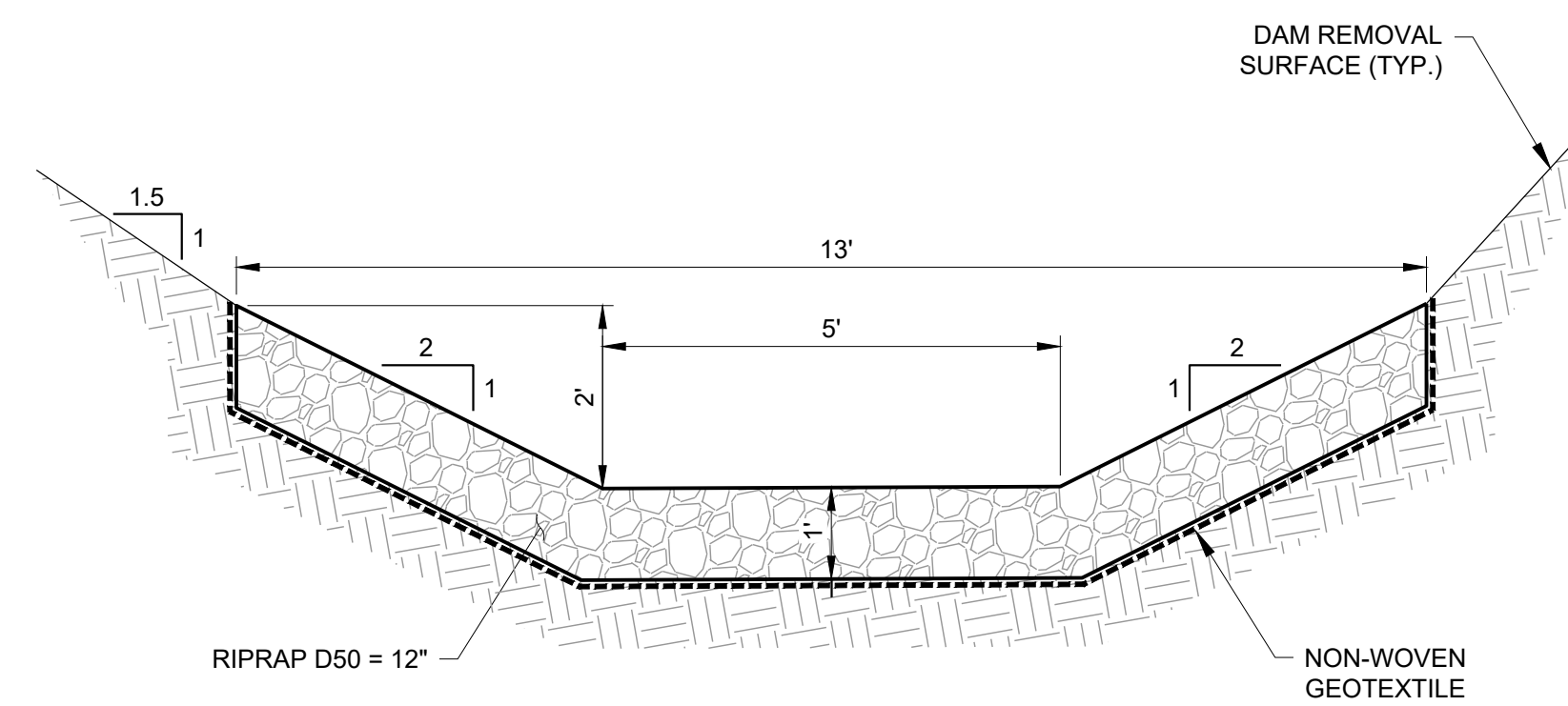


1 **DISCHARGE TO CREEK**  
NTS



**NOTE**  
1. HOLE DIAMETER (IN.) = PIPE DIAMETER (IN.) / 6  
E.G. 4-IN PIPE = 0.67-IN HOLE

2 **4-IN DIA. PERFORATED TEE DIFFUSER**  
NTS



3 **CHANNEL SECTION (FUTURE - NOT IN CONTRACT)**  
NTS

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PIT LAKE DEWATERING  
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**DEWATERING  
DETAILS**

**D-100**

Sheet: 05 of 05