



R & E Grant Application 15 Biennium

Project #:
15-026

Cedar Creek Hatchery Raceways

Project Information

R&E Project Request: \$549,701.00
Total Project: \$570,795.40
Start Date: 8/10/2015
End Date: 6/30/2017
Organization: ODFW - Cedar Creek Hatchery

Applicant Information

Name: Scott Patterson
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Past Recommended or Completed Projects

Number	Name	Status
05-062	Fish Liberation Semi-Tractor Replacement	Completed

Location Information

Where is it?

The project will occur on public land owned or managed by the applicant

Site Description

Street Address, nearest intersection, or other descriptive location.

Cedar Creek Hatchery
33465 Hwy.22
Hebo, Oregon 97122

Directions to the site from the nearest highway junction.

The site is approximately 1.5 miles from the intersection of highway 101 and 22 in Hebo, Oregon.

Following project completion, public anglers will be allowed the following level of access to the project site:

No access

Please describe what leases, easements, agreements are in place to ensure angler access to the project site, and what is the length of each agreement.

The anglers can visit the site but the raceways will be used for fish rearing and viewing purposes.

Dominant Land Use Type:

- Forest
- Wetland
- Rural residential

Project Location

General Project Location.

County: Tillamook
Town/City: Hebo, Oregon
ODFW Dist: North coast Watershed
Stream/Lake/Estuary Name: Cedar Creek
Sub-basin: Three Rivers
Tributary of: Nestucca River

Specific Project Location.

Latitude	Longitude
45.213199	123.847911

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

Replace 2 deteriorating ponds with 2 80'x 20'x 6' raceways. The ponds are used to rear the increased production of Nestucca Spring Chinook.

Overall Project Goals

Describe the primary goals or outcomes of the entire project, including elements not requesting funding from R&E.

Primary objectives of R&E funding

Please describe the measurable objectives for the R&E portion of the funding request.

The objective is to replace and enlarge two failing raceways within the existing footprint.

Current Situation/Justification

Please describe the current situation and explain why this funding is needed.

The current raceways were built many decades ago and were used to hold brood stock cutthroat trout. One of the ponds is shallow, leaky, an odd shape, and the concrete is crumbling. It's difficult to properly set the screens so fish do not escape. The ponds do not have much water depth (2' to 2 1/2') which reduces fish densities and can cause the fish to become sunburned during cloudless sunny days.

Recreation and Commercial Benefit

This project will provide benefits to:

Recreational fisheries
Commercial fisheries

Explain how this project will contribute to current (and/or potential) fishing opportunities, access, or fisheries management.

The Spring Chinook production at Cedar Creek Hatchery has increased from 110,000 to 230,000 destined for the Nestucca Basin. Currently the sport catch from harvest card data is 1,000 to 1,500 adults annually. The increase production would bring the catch up to 2,100 to 3,150. CWT data indicates that 30% of the Nestucca Spring Chinook harvested is from the ocean harvest so the increase would most likely be proportional.

Is this project part of an approved Salmon-Trout Enhancement Program (STEP) activity?

No

This project has been identified as a priority for:

Local/watershed
Basin/regional

Identify any plan or other document that identifies this priority.

The spring Chinook production increase is part of the new Coastal Conservation Plan increase from 110,000 to 230,000 smolts.

This project is intended to benefit the following species:

Spring Chinook Salmon

This project will benefit anglers or fishery by providing:

Angling Opportunity
Hatcheries/Propagation/Liberation

Angling Opportunity

This project will:

Provide new opportunity for anglers to catch fish (new pond, more fish to stock more areas, new

species)

Hatcheries/Propagation/Liberation

Hatchery Name:

Cedar Creek Hatchery

This is a:

State hatchery

As a result of this request hatchery production will:

Increase

This project will:

Restore, rehabilitate, modify, or replace existing production/acclimation facilities

Improve staff efficiency of hatchery operations

Improve effectiveness of hatchery operations (i.e. improve survival or return to angler)

Fish produced at this facility are for:

Sport harvest

Commercial harvest

Project Description

Schedule

Activity	Date	RE Funding
The raceway demolition and rebuilding is expected to be completed by the fall of 2016	6/30/2017	Yes

Permits

Permit	Secured?	Date Expected
The required permits are unknown but most likely county permits are needed since the construction activities are not in the waterway but existing structures.	No	12/1/2015

Project Design and Description

Please describe in detail the methods or approach that will be used to achieve the project objectives.

The design is to be completed by ODFW Engineering. The design will include permitting of the project, removal of the current raceways; rebuild raceways.

The current proposal is a continuation of the plan to improve the Cedar Creek rearing program. The department has recently funded efforts to install new intake pumps for the rearing of 500,000 SAFE coho. These pump improvements will also provide additional water to the hatchery and be available for additional rearing.

The current proposal will provide a stepping stone to relocate the Trask River Spring Chinook rearing to Cedar Creek Hatchery. This will potentially leverage ODOT mitigation funds to remove the intake of the current rearing pond on the East Fork Trask River which is a substantial passage barrier.

Engineering

Does the project involve capital improvement, engineering, site grading or other construction?

Yes
On ODFW land or managed by ODFW staff

Project Management and Maintenance

What is the life expectancy of R&E funded construction, structures, equipment, supplies, data or fishery?

The new rearing ponds or raceways will last for decades with little maintenance needs.

Who is responsible for long term management, maintenance, and oversight of the project beyond what is funded by R&E.

Hatchery personnel will perform the required periodic maintenance according to maintenance manual guidelines for the raceways.

Will the project require ongoing maintenance?

Yes

The raceways will require periodic checking and sealing of cracks.

Is there a plan to collect baseline data and to conduct monitoring efforts to measure the effectiveness of the project?

No

Project Funding

Funding

Have you applied for OWEB funding for this project?

No

Other Funding Source	Type	Secured	Dollar Value	Comments
Managers design input. Structural Engineering	Other	Secured	21094.00	Hatchery manager design and help.
		Total	21094.00	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
Ryan McCormick/Dan Cook	300	75	20000	0	0	20000
		SUBTOTAL(1)	20000	0	0	20000
IN-HOUSE PERSONNEL						
Managers input for design	40	27.36	1094.4	0	0	1094.4
		SUBTOTAL(2)	1094.4	0	0	1094.4
CONTRACTED SERVICES						
New ponds(2) and piping	0	0	0	0	549701	549701
		SUBTOTAL(3)	0	0	549701	549701
TRAVEL						
	0	0	0	0	0	0
		SUBTOTAL(4)	0	0	0	0
SUPPLIES/MATERIALS						
	0	0	0	0	0	0
		SUBTOTAL(5)	0	0	0	0
EDUCATION/OUTREACH						
	0	0	0	0	0	0
		SUBTOTAL(6)	0	0	0	0
EQUIPMENT						
	0	0	0	0	0	0
		SUBTOTAL(7)	0	0	0	0
FISCAL ADMINISTRATION						
	0	0	0	0	0	0
		SUBTOTAL(8)	0	0	0	0
		BUDGET TOTAL	21094.4	0	549701	570795.4

Additional Files

Click a link to view that particular file.

[Cedar Creek cost estimate](#)

[Cedar Creek raceway plan](#)

[Cedar Creek raceway plan](#)

[ODFW Engineering Work Order](#)

[sig page](#)

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Project: **CEDAR CREEK HATCHERY - POND 2 REPLACEMENT & IMPROVEMENTS**

By: DDC

Date: 9/22/2015; REV. 09/23/2015

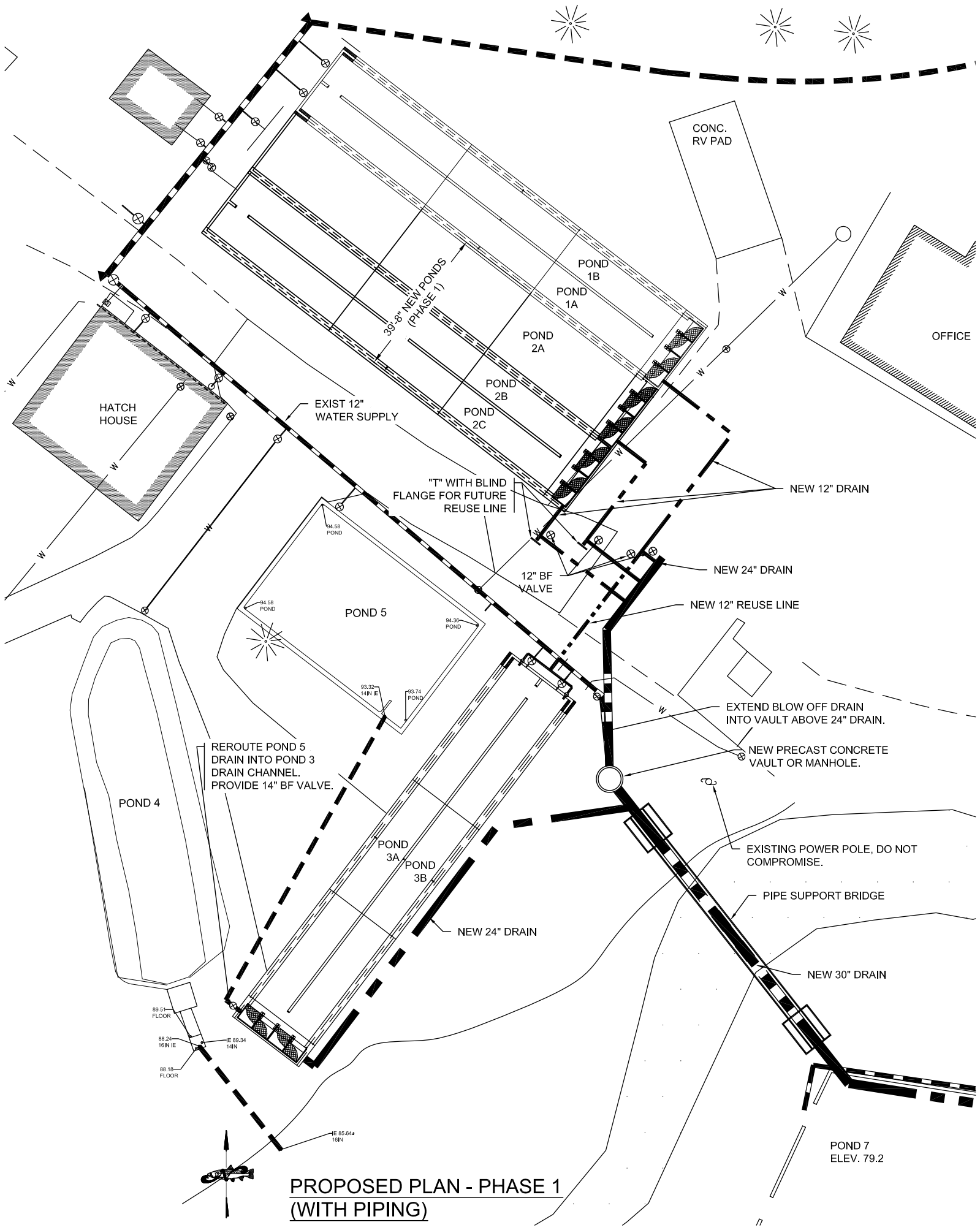
Item	Item Description	Quantity	Unit	Unit Cost	Price
1	Mobilization & Demobilization and Bonding	1	LS	\$ 30,000.00	\$ 30,000.00
2	Demolition, including salvage items, complete.	1	LS	\$ 10,000.00	\$ 10,000.00
3	Erosion and Sediment Control, complete.	1	LS	\$ 10,000.00	\$ 10,000.00
4	Excavation, Backfill and Grading, complete.	1	LS	\$ 25,000.00	\$ 25,000.00
5	Crushed Rock Surfacing, complete.	1000	SY	\$ 7.00	\$ 7,000.00
6	Controlled Low Strength Materials (CLSM or CDF)	60	CY	\$ 170.00	\$ 10,200.00
7	Surface Restoration	1	LS	\$ 5,000.00	\$ 5,000.00
8	Pond Concrete & Forming, complete.	221	CY	\$ 650.00	\$ 143,650.00
8a	Pressure Relief Valves	8	EA	\$ 500.00	\$ 4,000.00
8a	Concrete Testing (2.5% of conc. Cost)	2.5%		\$ 143,650.00	\$ 3,591.25
9	Guardrails & Embeds				
9a	Guardrail system, complete.	1	LS	\$ 32,500.00	\$ 32,500.00
9b	Grating support steel & Guide Embeds,, complete.	1	LS	\$ 22,600.00	\$ 22,600.00
9c	Galvanizing	1	LS	\$ 6,500.00	\$ 6,500.00
9d	Guardrail & Grating Installation	1	LS	\$ 5,000.00	\$ 5,000.00
9e	Poly-coated Chain Link Fence	80	LF	\$ 20.00	\$ 1,600.00
10	Piping & Fittings				
10a	6" Class SDR17 HDPE Spouts, complete.	16	LF	\$ 200.00	\$ 3,200.00
10b1	Fitting - 90-Deg	4	EA	\$ 100.00	\$ 400.00
10b	12" Class SDR17 HDPE Waste Drain Pipe, complete.	233	LF	\$ 100.00	\$ 23,300.00
10b1	Fitting - 90-Deg	2	EA	\$ 500.00	\$ 1,000.00
10b2	Fitting - 45-Deg	6	EA	\$ 500.00	\$ 3,000.00
10b3	Fitting - "T"	3	EA	\$ 800.00	\$ 2,400.00
10c	24" Class SDR17 HDPE supply and drain pipe, complete.	158	LF	\$ 200.00	\$ 31,600.00
10c1	Fitting - 90-Deg	1	EA	\$ 750.00	\$ 750.00
10c2	Fitting - 45-Deg	4	EA	\$ 600.00	\$ 2,400.00
10d	30" Class SDR17 HDPE header pipe, complete.	153	LF	\$ 350.00	\$ 53,550.00
10d1	Fitting - 45-Deg	4	EA	\$ 800.00	\$ 3,200.00
11	VALVES				
11a	6" Butterfly Valves, complete.	2	EA	\$ 1,000.00	\$ 2,000.00
11b	12" Butterfly Valves, complete.	5	EA	\$ 2,000.00	\$ 10,000.00
11b	24" Butterfly Valves, complete.	1	EA	\$ 7,000.00	\$ 7,000.00
12	Alarm, complete.	1	LS	\$ 5,000.00	\$ 5,000.00
13	Driveway Base Rock, complete	1	LS	\$ 4,500.00	\$ 4,500.00
14	3" Asphaltic Concrete Surface	16	TON	\$ 260.00	\$ 4,160.00
15	Manhole, complete	1	LS	\$ 10,000.00	\$ 10,000.00
16	Electrical	1	LS	\$ 8,000.00	\$ 8,000.00
	Pipe Brige				
17	Bridge Truss Frame	2.5	TON	\$ 20,000.00	\$ 50,000.00
18	Bridge Footing	4	CY	\$ 650.00	\$ 2,600.00
19	Bridge Installation	1	LS	\$ 5,000.00	\$ 5,000.00
	BASE BID TOTAL				\$ 549,701.25

\$ 68,200.00
Grate & Rails

\$ 124,800.00
Piping

\$ 19,000.00
Valves

\$ 57,600.00
Pipe Bridge



**PROPOSED PLAN - PHASE 1
(WITH PIPING)**

CONC.
RV PAD

OFFICE

HATCH HOUSE

POND 1B

POND 1A

POND 2A

POND 2B

POND 2C

EXIST 12"
WATER SUPPLY

"T" WITH BLIND
FLANGE FOR FUTURE
REUSE LINE

NEW 12" DRAIN

12" BF
VALVE

NEW 24" DRAIN

NEW 12" REUSE LINE

POND 5

EXTEND BLOW OFF DRAIN
INTO VAULT ABOVE 24" DRAIN.

NEW PRECAST CONCRETE
VAULT OR MANHOLE.

REROUTE POND 5
DRAIN INTO POND 3
DRAIN CHANNEL.
PROVIDE 14" BF VALVE.

POND 4

EXISTING POWER POLE, DO NOT
COMPROMISE.

POND 3A

POND 3B

PIPE SUPPORT BRIDGE

NEW 24" DRAIN

NEW 30" DRAIN

89.51
FLOOR

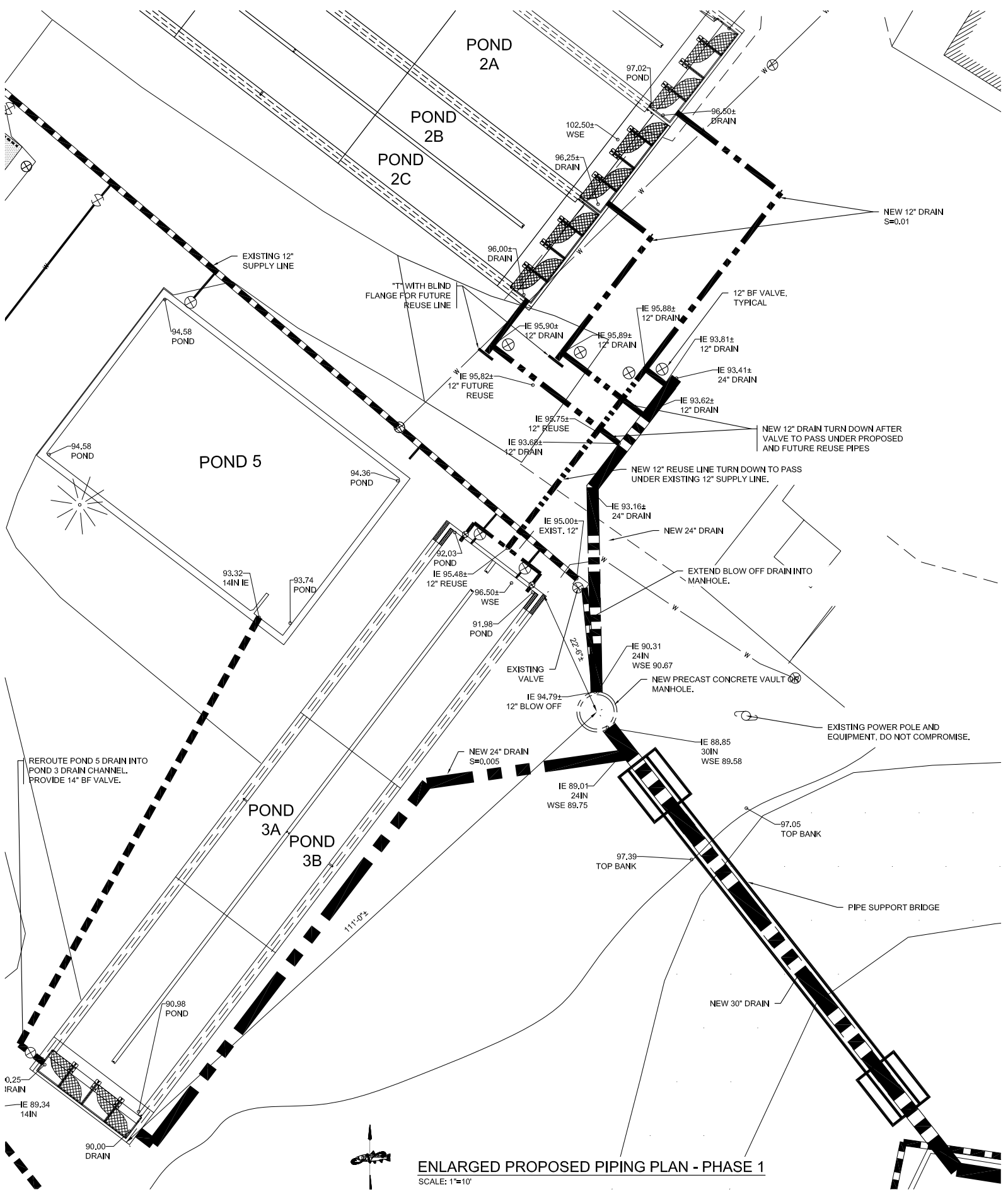
88.25
16IN IE

88.18
FLOOR

IE 89.34
14IN

IE 85.644
16IN

POND 7
ELEV. 79.2



ENLARGED PROPOSED PIPING PLAN - PHASE 1
 SCALE: 1"=10'