



May 3, 2017

Rick Smith  
Township Manager  
East Goshen Township  
1580 Paoli Pike  
West Chester, PA 19380-6199

Re: Phased Drawdown Approval  
Milltown Dam  
East Goshen Township, Chester County  
DEP File No. D15-146

Dear Mr. Smith:

Reference is made to the information submitted by your engineer, Gannett Fleming, Inc. and received in our office on May 2, 2017 regarding the proposed spillway modifications for the drawdown of Milltown Reservoir. This dam is located across East Branch Chester Creek in East Goshen Township, Chester County.

This work is proposed in preparation for the embankment lowering project which is anticipated to occur in 2018. This letter may be considered sufficient state authorization to proceed with spillway modification with the following stipulations.

- The Department requests a preconstruction meeting to be scheduled prior to the commencement of work. Attending this meeting should be the permittee or owner, the Department, the contractor, and the engineer responsible for construction supervision. The preconstruction meeting should be conducted at least 15 days, but not more than 30 days, prior to the commencement of construction unless a different time is established by the Department. To schedule this meeting, please contact Heath Maines within the Division of Dam Safety by e-mail at [hemaimes@pa.gov](mailto:hemaimes@pa.gov).
- A plan for controlling accelerated erosion and sedimentation during construction must be developed and implemented during construction. This plan may require a permit or prior approval. The Chester County Conservation District must be contacted at 610.925.4920 concerning erosion and sedimentation control permitting requirements.
- The Pennsylvania Fish and Boat Commission's Southeast Regional Office must be notified at 484.250.5900 prior to starting the repair work.
- Construction of this approved project must be under the oversight and supervision of a registered professional engineer, preferably the professional engineer who designed the project. The engineer or a competent representative shall be on the work site during significant construction activities until completion of the project. Photographic documentation should be included as part of the engineer's inspection.

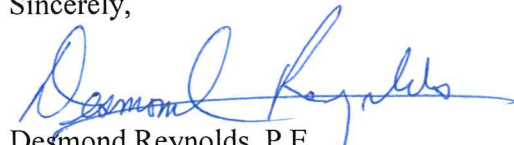
- No changes shall be made to the approved maps, plans, profiles, and specifications except with the written consent of the Department. The Department, however, reserves the right to require such changes or modifications in the maps, plans, profiles, and specifications as may be considered necessary.
- The enclosed Dam Completion Certification must be submitted to this office, with the required owner's signature and professional engineer's signature and seal, within ten days after completion of this work. Photographic documentation should be submitted with this certification. If plans were modified during construction of this project, a detailed set of as-built drawings, sealed and certified by the inspecting registered professional engineer, must be submitted to this office within 30 days after completion of this work. **Please be advised, the Completion Certification form has been revised to reflect the reporting requirements within the current Chapter 105 regulations and is the only acceptable version to be submitted.**
- Upon establishing a vegetative ground cover throughout the reservoir, the Township must apply for a Dam Permit in order to address the inadequate spillway capacity.

This authorization does not give any property rights, either in real estate or material, or any exclusive privileges. It does not grant or confer any right, title, easement, or interest in, to, or over any land belonging to the commonwealth of Pennsylvania. It also does not grant any infringement of federal, state, or local laws or regulations.

Any activity, involving the excavation or discharge of fill into areas classified as wetlands or excavation within the floodway of a watercourse not specified in the approved plans for this project, is considered to be an encroachment or water obstruction requiring a separate permit pursuant to the Dam Safety and Encroachments Act. This would include excavation of wetlands or floodway for the purpose of enlarging or deepening the natural impoundment area of the dam, excavation of wetlands or floodway or placement of fill in wetlands to provide access to the project site, excavation of wetlands or floodway in burrow areas, or placement of fill in wetlands in spoil areas.

If you or your engineer has any questions regarding this letter, please contact Heath Maines of my staff by telephone at 717.772.5960 or by e-mail at [hmaines@pa.gov](mailto:hmaines@pa.gov).

Sincerely,



Desmond Reynolds, P.E.  
Chief  
Eastern Section  
Division of Dam Safety

cc: Eric C. Neast, P.E., Gannett Fleming, Inc.

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DAM COMPLETION CERTIFICATION

DEP File No. \_\_\_\_\_

Gentlemen:

I/We hereby certify that the project at the \_\_\_\_\_ Dam,  
(Dam Name)

located across \_\_\_\_\_ in \_\_\_\_\_  
(Stream Name) (Municipality)

\_\_\_\_\_ County, PA, was completed on \_\_\_\_\_, in accordance with the  
(County Name) (Date Completed)

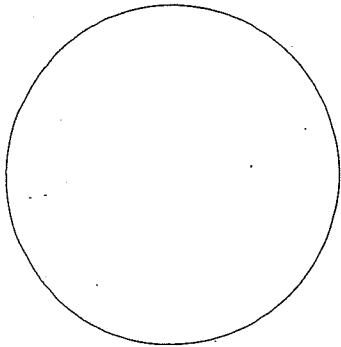
approved maps, plans, profiles, and specifications, and applicable laws.

As-built drawings (check one):

- ☐ As-built drawings required - Photographs attached  
Approved plans and specifications modified
- ☐ As-built drawings not required - Photographs attached  
Approved plans and specifications not modified

Costs:

Design Cost \$ \_\_\_\_\_  
Construction Cost \$ \_\_\_\_\_  
Construction Inspection Cost \$ \_\_\_\_\_



P.E. Seal & Signature

Percentage of Total Cost for each major feature:	
Roller Compacted Concrete (RCC)	_____ %
Articulated Concrete Block (ACB)	_____ %
Earthwork	_____ %
Filters / Drains	_____ %
Reinforced Concrete Structures	_____ %
Outlet Conduit / Valves / Gates	_____ %
Foundation Prep / Grouting	_____ %
_____	_____ %
_____	_____ %

Signature of Supervising Engineer (Required):

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Firm or Agency)

Signature of Owner (Required):

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Firm or Agency)

RETURN TO:

Department of Environmental Protection  
Bureau of Waterways Engineering and Wetlands  
Division of Dam Safety  
P.O. Box 8460  
Harrisburg, PA 17105-8460





Commonwealth of Pennsylvania  
Pennsylvania Fish and Boat Commission

## Permit Time Extension and/or Amendment To Draw Off Waters From Impoundments

This will certify that according to the Rules and Regulations of the  
Pennsylvania Fish and Boat Commission, 58 Pa. Code, Section 51.88

(Applicant Name) **East Goshen Township**  
(Address) **1580 Paoli Pike**  
**West Chester, PA 19380-6199**

(Telephone) **610-692-7171**  
(County) **Chester**  
(Municipality) **East Goshen Township**

or the applicants designee, have provided sufficient and timely written justification for  
extension of Permit No. **31-15** to draw off water from (impoundment name)

### Milltown Reservoir

(Date) **08/31/17** to (Date) **08/31/19**

**Comments:**

**Permit Conditions:**

A handwritten signature in blue ink, appearing to read "T A Shervinskie".

**Signed:** \_\_\_\_\_

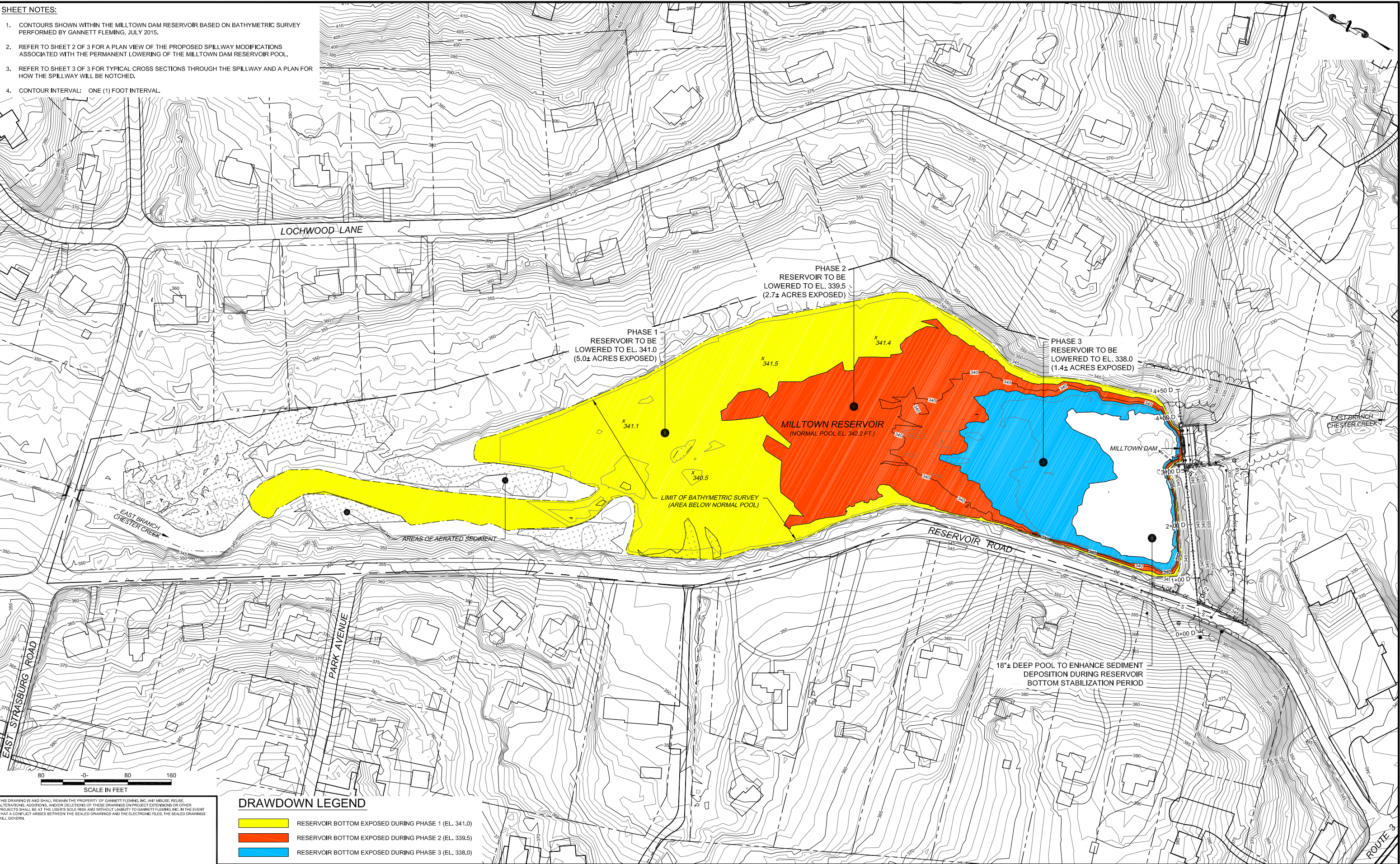
Thomas A. Shervinskie  
Fisheries Biologist  
Division of Environmental Services

**Date:** May 3, 2017



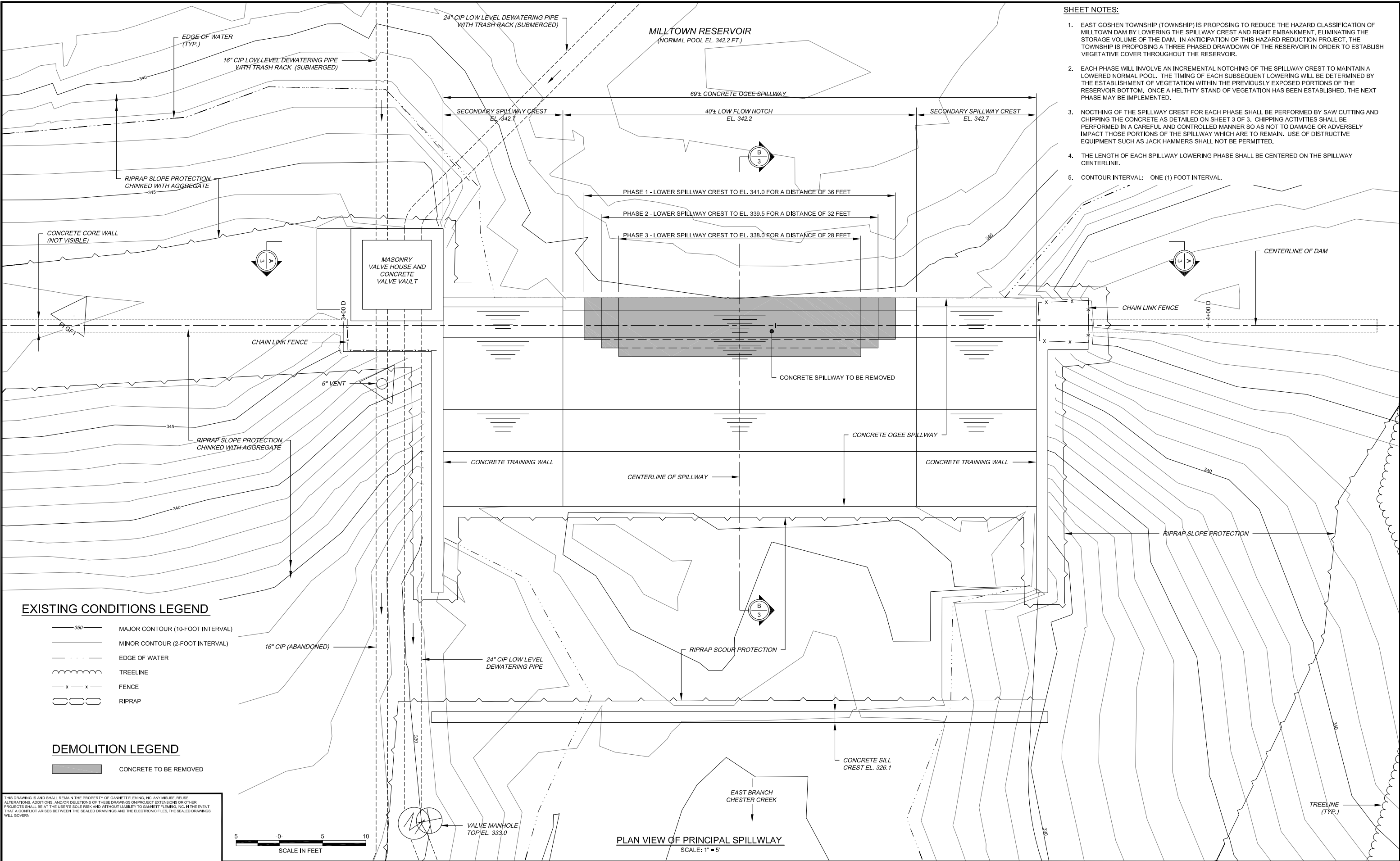
SHEET NOTES:

1. CONTOURS SHOWN WITHIN THE MILLTOWN DAM RESERVOIR BASED ON BATHYMETRIC SURVEY PERFORMED BY GANNETT FLEMING, JULY 2015.
2. REFER TO SHEET 2 OF 3 FOR A PLAN VIEW OF THE PROPOSED SPILLWAY MODIFICATIONS ASSOCIATED WITH THE PERMANENT LOWERING OF THE MILLTOWN DAM RESERVOIR POOL.
3. REFER TO SHEET 3 OF 3 FOR TYPICAL CROSS SECTIONS THROUGH THE SPILLWAY AND A PLAN FOR HOW THE SPILLWAY WILL BE NOTCHED.
4. CONTOUR INTERVAL: ONE (1) FOOT INTERVAL.





W:\426\Active Jobs\60466 - East Goshen Township\05 Working\CADD\01 Milltown Dam\Design Set\Reservoir Drawdown Plan.dwg  
Plot Date: 3/13/2017 8:33 AM Plotted By: Nestor, Eric C.



NO.	DESCRIPTION	DATE	BY
REVISIONS			

DESIGNED	CADD	SCALE
WCH	WCH	AS SHOWN
DRAWN	CHECKED	APPROVED
TDT	ECN	ECN

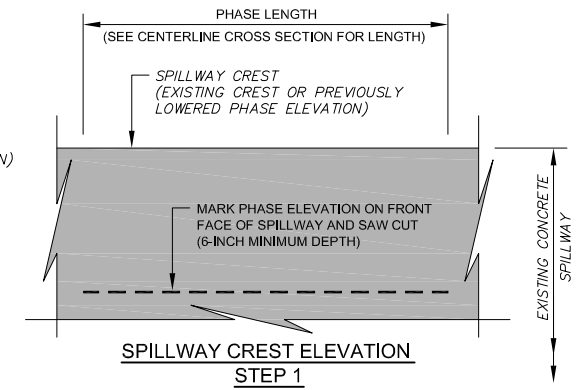
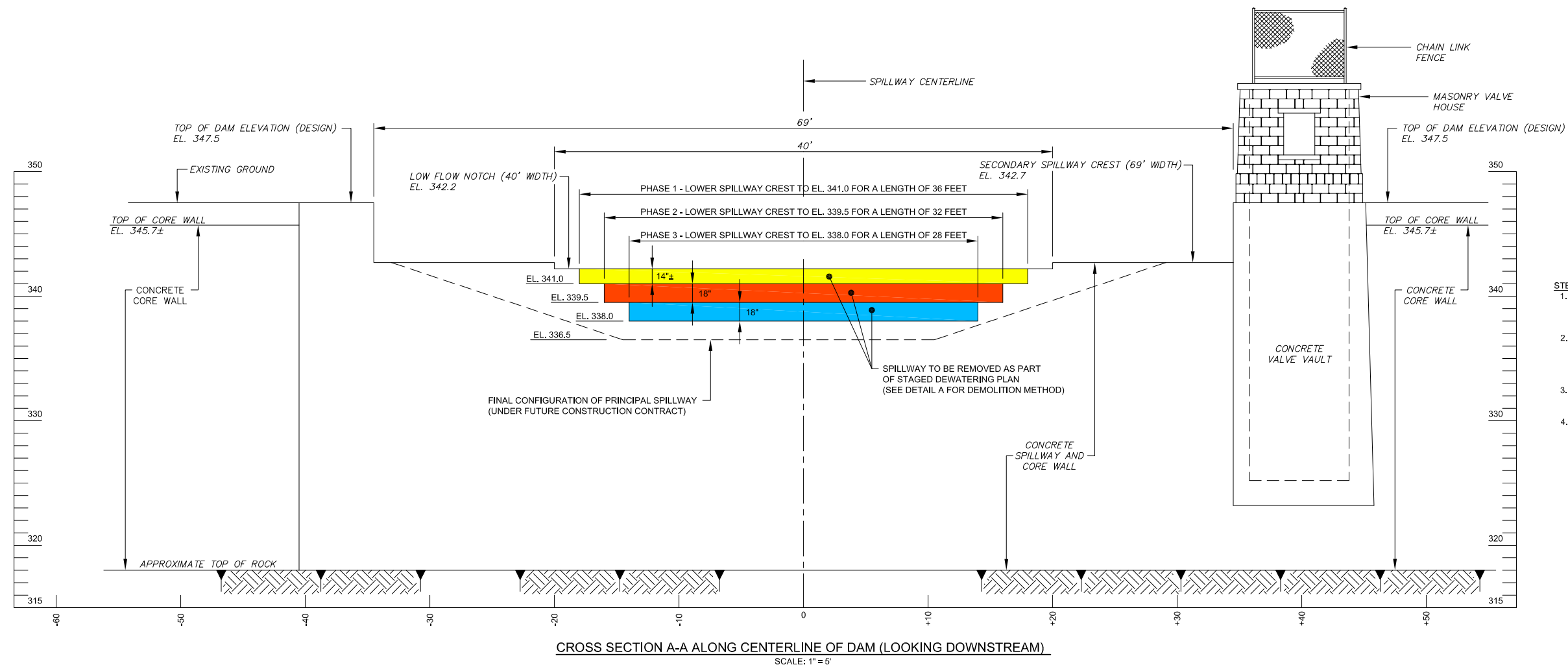


**Gannett Fleming**

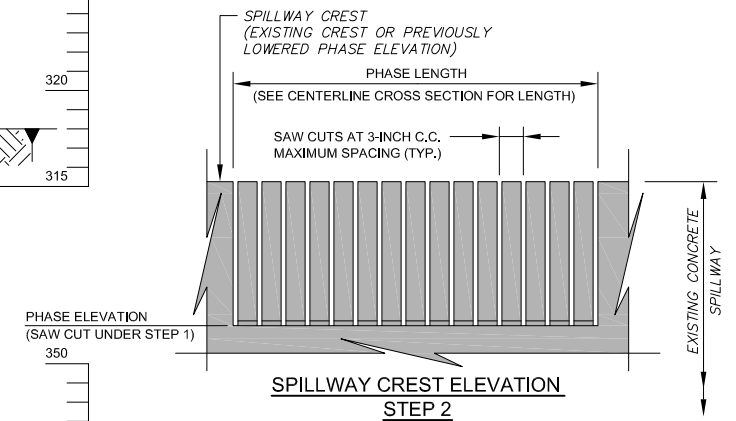
EAST GOSHEN TOWNSHIP  
CHESTER COUNTY, PENNSYLVANIA  
MILLTOWN DAM  
DEP ID NO. D15-146

RESERVOIR DRAWDOWN PLAN  
SPILLWAY PLAN

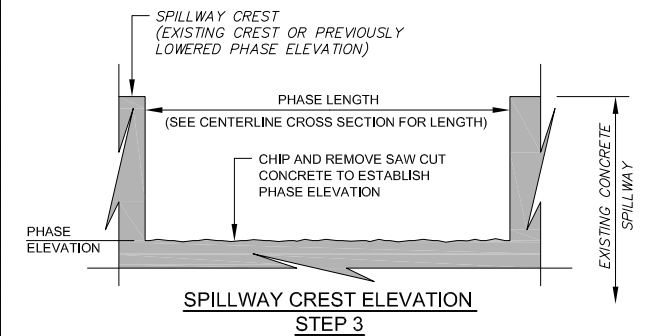
JOB NO.	SHEET NO.
60466	2 OF 3
DATE	DRAWING NO.
MAR. 2017	



- STEP 1 NOTES:**
1. ACTIVATE LOW LEVEL DEWATERING SYSTEM AND LOWER RESERVOIR TO THE PHASE ELEVATION BEING ESTABLISHED. PROVIDE ADDITIONAL LOWERING OF THE RESERVOIR AS NEEDED TO FACILITATE ACCESS TO THE SPILLWAY CREST.
  2. ACCESS SPILLWAY CREST USING A BOAT AND/OR BARGE SUITABLE FOR THE PERSONNEL AND EQUIPMENT NEEDED TO PERFORM THE WORK. IMPLEMENT APPROPRIATE SAFETY MEASURES TO PROTECT WORKERS DURING THE SPILLWAY LOWERING ACTIVITIES.
  3. REMOVE EARTH/SEDIMENT MATERIAL IN FRONT OF THE SPILLWAY AS NEEDED TO EXPOSE THOSE PORTIONS OF THE SPILLWAY CREST TO BE REMOVED.
  4. MARK PHASE ELEVATION ON THE FRONT OF THE SPILLWAY AND PROVIDE A HORIZONTAL SAW CUT ALONG THIS ELEVATION FOR THE LENGTH OF THE PHASE. REFER TO THE "CROSS SECTION ALONG CENTERLINE OF DAM" (THIS SHEET) FOR LENGTH AND ELEVATION OF EACH PHASE.

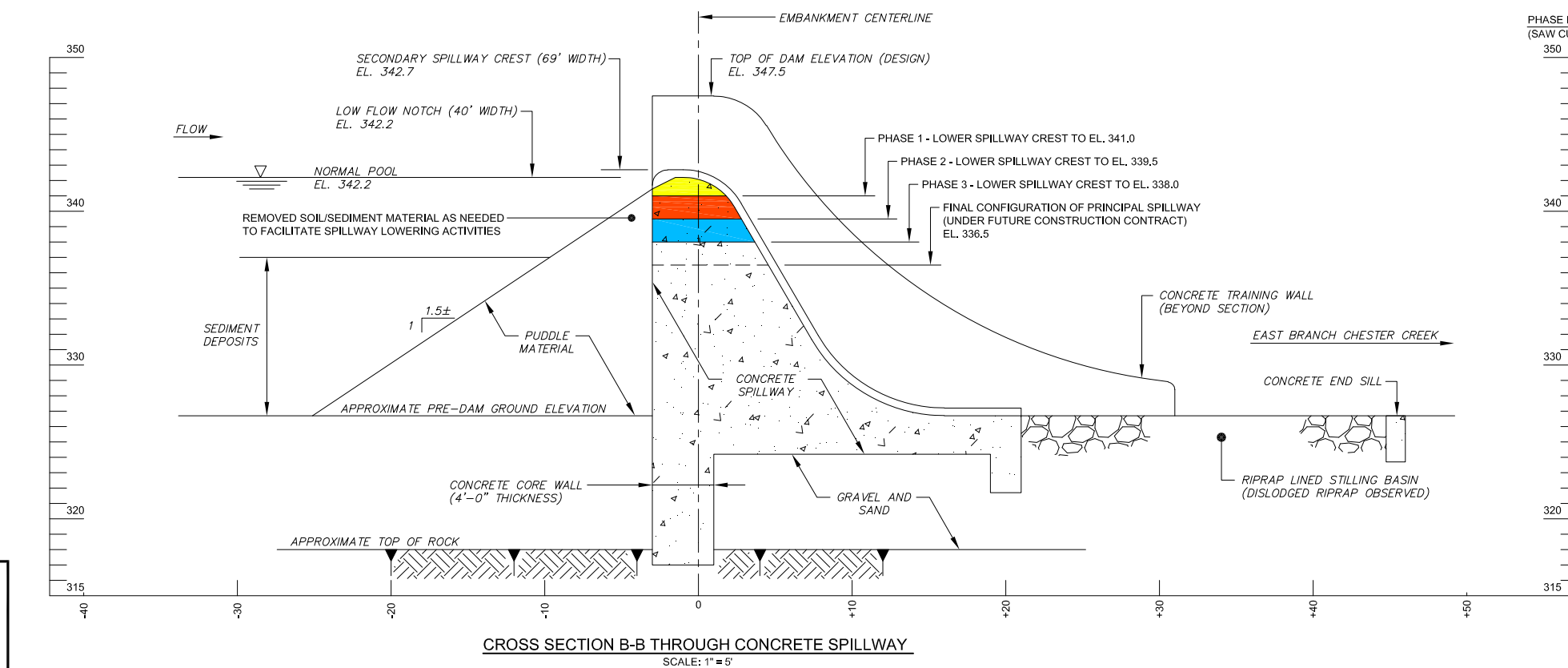


- STEP 2 NOTES:**
1. PROVIDE VERTICAL SAW CUTS AT 3-INCH MAXIMUM CENTER TO CENTER SPACING ALONG THE ENTIRE PHASE LENGTH.



- STEP 3 NOTES:**
1. CAREFULLY CHIP AWAY SAW CUT CONCRETE TO ESTABLISH THE LOWERED SPILLWAY CREST ELEVATION. THE CREST OF THE LOWERED SPILLWAY SHALL BE RELATIVELY SMOOTH AND LEVEL, FREE OF IRREGULARITIES PROTRUDING MORE THAN 2-INCHES ABOVE THE PHASE ELEVATION.
  2. DEPENDING ON THE SAW CUT DEPTH OBTAINABLE BY THE EQUIPMENT USED, REPEAT STEPS 2 AND 3 AS NEEDED TO ESTABLISH THE DESIGN PHASE ELEVATION.

DEMOLITION OF CONCRETE SPILLWAY CREST  
FOR PHASED LOWERING OF RESERVIOR  
NOT TO SCALE



				DESIGNED	CADD	SCALE
				WCH	WCH	AS SHOWN
				DRAWN	CHECKED	APPROVED
NO.	DESCRIPTION	DATE	BY	TDT	ECN	ECN
REVISIONS						



***Gannett Fleming***

EAST GOSHEN TOWNSHIP  
CHESTER COUNTY, PENNSYLVANIA

MILLTOWN DAM  
DEP ID NO. D15-146RESERVOIR DRAWDOWN PLAN  
CROSS SECTIONS AND DETAILS

JOB NO.	SHEET NO.
60466	3 OF 3
DATE	DRAWING NO.
AR. 2017	

N:\426\Active Jobs\60466 - East Goshen Township\05 Working\CADD\01 Milltown Dam\Design Set\Reservoir Drawdown Plan.dwg  
Plot Date: 3/13/2017 8:40 AM, Plotted By: Neast, Eric C

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