DEPARTMENT OF GENERAL SERVICES BUREAU OF CAPITAL PROJECT DESIGN MANAGEMENT 1800 HERR STREET HARRISBURG, PENNSYLVANIA

ADDENDUM NO. 2

on

PROJECT NO. DGS C-0199-0038 PHASE 001
PROJECT TITLE - Belmont Lake Dam - Belmont Lake Dam Upgrades
PROFESSIONAL:

Schnabel Engineering, LLC 3 Dickinson Drive Chadds Ford, PA, 19317

If you submitted a bid prior to this Addendum being issued, your bid has been discarded and you must re-submit your bid(s) prior to the bid opening date and time.

ADMINISTRATIVE CHANGES – ALL CONTRACTS

- Item 1 Item 1 Refer to General Plan (C-1) for possible staging, stockpile and spoils location.
- Item 2 Refer to Article 9.6 of the General Conditions to the Construction Contract, substitutions of Materials. In addition, according the DGS Project Procedures Manual Requests 905.5 A the Department's approval of "equal" products/systems or "substitutions" will not be considered during the bidding period.
- Item 3 CADD files are not available during proposal preparation. CADD files are available to the successful proposer after Construction Contract execution as described in the CADD File Waiver paragraph in Specification 01 04 00.
- Item 4 For concrete mix designs refer to Specification 03 30 00 Cast-In-Place Concrete Section 1.5 Submittals for Review.

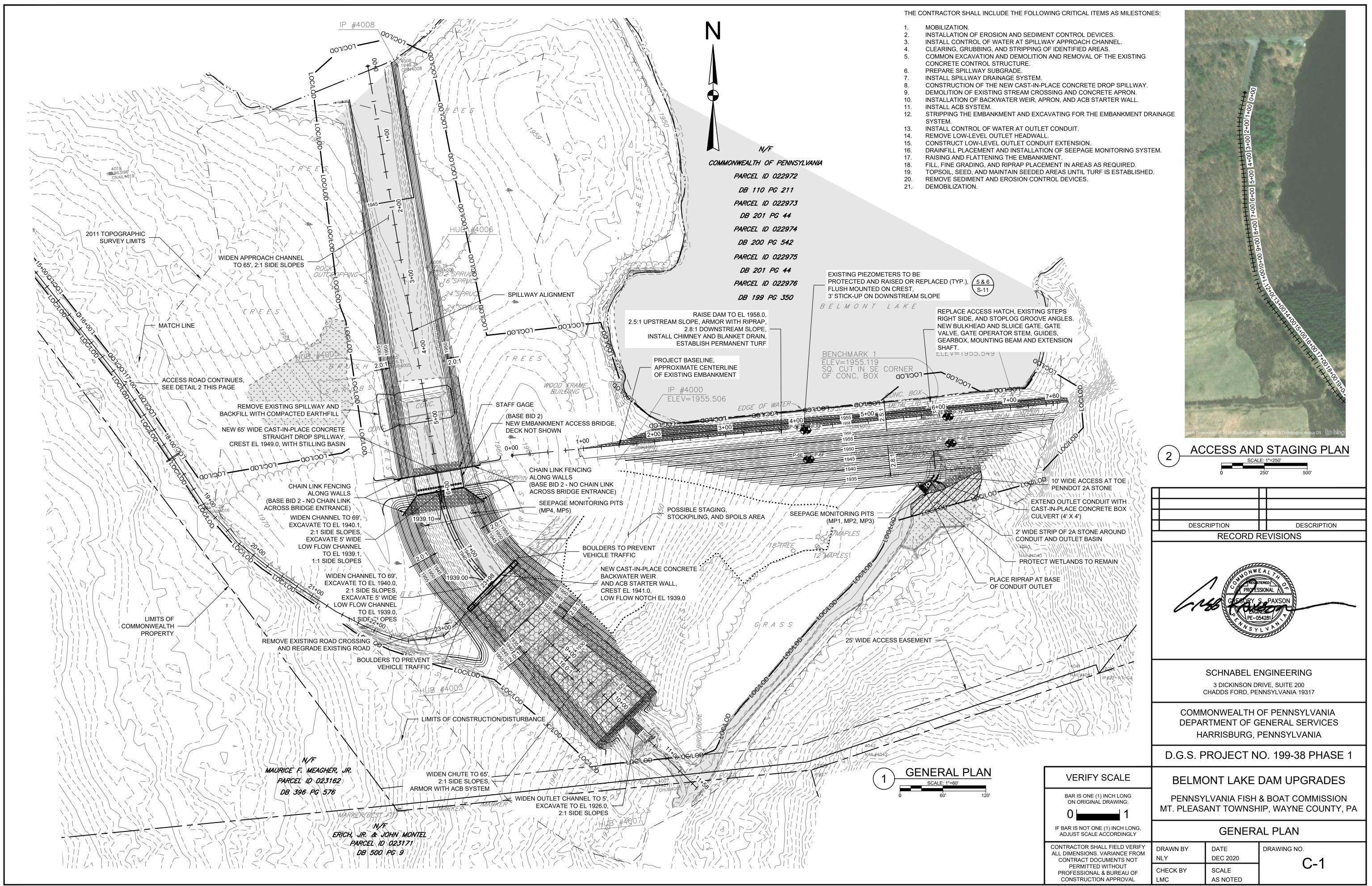
SPECIFICATION CHANGES – ALL CONTRACTS

- Item 1 Specification 32 34 00 Fabricated Bridge, Paragraph 2.2 B. shall be revised to read as follows:
- B. In addition to normal dead loads, the bridge shall be designed for the following:
- 1. Vehicle Loads: The bridge shall be designed for H-20-44 loading in accordance with AASHTO Section 3.
- 2. Wind Load: The bridge structure shall be designed for wind loads in accordance with AASHTO Section 3.
- 3. Seismic: All bridges shall be designed for seismic loads of the intensity required by AASHTO criteria unless specified otherwise.
 - Item 2 Specification 32 34 00 Fabricated Bridge, Paragraph 1.8 A. shall be revised to read as follows:
 - A. Width: Inside clear width of bridge shall be 10 ft.
 - Item 3 Specification 31 25 73 Control of Water, Section 1.4.A.5e shall be revised to read as:
- e. Should the water surface overtop the cofferdam and reach EL 1951.2, a voluntary evacuation may be conducted by the Wayne County Office of Emergency Management.
 - Item 4 Specification 03 30 00 Cast-In-Place Concrete section 1.4 shall be revised to read as:
- ASTM C1293 Standard Test Method for Determination of Length of Change of Concrete Due to Alkali-Silica Reaction
 - Item 5 Specification 03 30 00 Cast-In-Place Concrete section 2.1A shall be revised to read as:
- A. Cement: ASTM C150, Type II Moderate Sulfate Resistant Portland type or ASTM C595 Blended Hydraulic Cement. Cement used throughout the work shall be uniform in color. The maximum alkali content of the cement shall be 0.6 percent.

DRAWING CHANGES - ALL CONTRACTS

- Item 1 Drawings C-13, Spillway Drainage Plan, and C-14, Spillway Drainage Profile & Details shall be added to the Contract Drawings
 - Item 2 Drawing C-1, General Plan, has been revised to include riprap upstream of the new cast-in-place

straight drop spillway. Item 3 – Drawing ES-1, E&S Plan, has been revised to include riprap upstream of drop spillway.	the new cast-in-place straight



PROJECT DESCRIPTION

THE PROPOSED CONSTRUCTION AT BELMONT DAM WILL INCLUDE THE FOLLOWING:

- 1. RAISING THE TOP OF DAM ELEVATION.
- 2. DEMOLITION OF EXISTING CONCRETE SPILLWAY CONTROL SECTION AND REPLACEMENT WITH CAST-IN-PLACE CONCRETE STRAIGHT-DROP SPILLWAY.
- 3. ARMORING THE SPILLWAY CHANNEL WITH ARTICULATING CONCRETE BLOCK (ACBs).
- INSTALLING AN EMBANKMENT CHIMNEY AND BLANKET DRAIN SYSTEM, CONSISTING OF A SLOTTED PLASTIC DRAIN PIPE ENCASED IN A TWO-STAGE GRADED FILTER.
- 5. EXTENDING THE EXISTING OUTLET CONDUIT.
- 6. INSTALLATION OF A SEEPAGE MONITORING SYSTEM THAT INCLUDES WEIR BOXES TO MEASURE FLOW FROM THE NEW DRAIN SYSTEM, IN CONJUNCTION WITH THE EXISTING PIEZOMETERS TO MONITOR PHREATIC LEVELS IN THE EMBANKMENT AND FOUNDATION.

CONSTRUCTION SEQUENCE (FOR E&S

CONTROL PURPOSES ONLY)

GENERAL: ALL ACTIVITIES SHALL BE SEQUENCED TO MINIMIZE THE LENGTH OF TIME ANY AREA REMAINS DENUDED. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CLEARING OR EARTH DISTURBING ACTIVITIES. WORK IS NOT ALLOWED IN WATERWAYS BETWEEN APRIL 1 THROUGH JUNE 15. ACTIVITIES SHALL BE SEPARATED INTO TWO SEQUENCES, NAMELY SPILLWAY REHABILITATION AND

EMBANKMENT REHABILITATION, THAT MAY BE COMPLETED SIMULTANEOUSLY.

- 1. INSTALL COMPOST FILTER SOCK AND CONSTRUCTION ENTRANCE(S) AS SHOWN. INSTALL COMPOST FILTER SOCK.
- 2. INSTALL REMAINING ESC DEVICES INCLUDING BUT NOT LIMITED TO TEMPORARY WOOD MATS, CONCRETE WASHOUT, AND ROCK FILTER.
- 3. INSTALL CONTROL OF WATER (COFFERDAMS SHOWN FOR CONCEPTUAL PURPOSES)
- 4. SET UP STAGING AND STOCKPILE AREAS.
- 5. CLEAR AND GRUB WHERE REQUIRED. STRIPPING OF TOPSOIL SHALL ONLY BE CONDUCTED IMMEDIATELY BEFORE NECESSARY ACTIVITIES.
- 6. AREA #1 SPILLWAY CHANNEL: REMOVE EXISTING SPILLWAY; EXCAVATE FOR PROPOSED SPILLWAY; CONSTRUCT CAST IN PLACE CONCRETE SPILLWAY, SPILLWAY CROSSING, AND ACB ARMORING.
- 7. <u>AREA #2 EMBANKMENT:</u> CONSTRUCT LOW LEVEL OUTLET CONDUIT EXTENSION; EXCAVATE FOR EMBANKMENT DRAIN; INSTALL EMBANKMENT AND TOE DRAINS; RAISE CREST AND FLATTEN SLOPE WITH EARTHFILL.
- 8. REMOVE STAGING AND STOCKPILE AREAS AND REMOVE CONTROL OF WATER.
- 9. TOPSOIL, SEED, AND MULCH (OR EROSION CONTROL BLANKET) ON ALL DISTURBED AREAS.
- 10. AFTER A UNIFORM 70% VEGETATIVE COVER IS ESTABLISHED AND APPROVED BY A REPRESENTATIVE FROM WAYNE CONSERVATION DISTRICT, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.

